

4TH
EDITION

P. R. MALLORY & CO., Inc.

MALLORY

RADIO SERVICE
ENCYCLOPEDIA

LIST PRICE \$1.50

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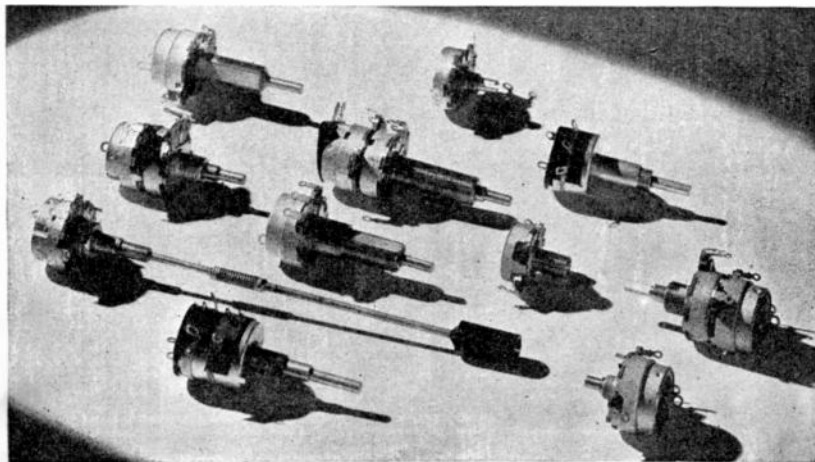
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WHY *The Fourth Edition* **MYE** is

IT HAS been two years since the Third Edition MALLORY-YAXLEY RADIO SERVICE ENCYCLOPEDIA was issued. In the meantime, many of you have written us directly, or asked your Mallory distributor, when the next book would be coming along. Because the delay in bringing out this, the Fourth Edition, was deliberate, and because your own interests are so vitally affected, we believe you will want to know the reasons that prompted our holding up publication.

It is no news to you radio service engineers that replacements are becoming more complicated right along. A glance at some of the parts shown below—all used in receivers during the past year—will serve to remind you of the replacement headaches you are now facing, or will eventually face. Take controls for an example. The variety and complexity of shafts is enough to drive you to distraction. We anticipated this in our compilation of recommended replacements in the Fourth Edition MYE. It took time and hard work to get the maximum universal replacement from the minimum of controls and



shafts, but we stuck to the job until we were satisfied that it was what you wanted . . . that it would simplify and speed up your work.

Our approach to the task of giving you accurate, up-to-date information on other replacements was just as painstaking and thorough. But reliable data cannot be obtained and compiled without time and effort. It takes an experienced field organization, plus a continuous, efficient follow-up system, to get samples of original parts, circuit information, schematics. It takes a permanent, full-time inside staff to analyze samples and data and fit them into a universal replacement plan whenever possible. Then the recommendation is not ready to go into the Encyclopedia until actual field checks have been made. Nothing is left to chance. The data must be carefully checked and approved, or no recommendation is made.

We have employed more trained men in the past two years on our MYE staff than in all previous years combined—men with practical field experience. Unobserved trends in circuit and component design, vital necessary developments and resulting changes have been so tremendously important that the Fourth Edition MYE may be considered more valuable than any of its predecessors.

We “spotted” these trends, with their accompanying complexities for the radio service engineer, early in 1940. The further we got into our job of gathering and compiling data and setting up accurate recommendations, the more evident it became that we could not hope to publish the Fourth Edition before the fall of this year. Frankly, there was just too much work to permit of earlier publication.

The job is now completed. In presenting this Fourth Edition of the MYE, we renew again the responsibility we

More Valuable Than Previous Editions

accepted almost eight years ago—to provide you with factual, usable, *reliable* data that would make your job easier and more profitable.

Let's go through the book together. Because of the tremendous amount of new information, we have had to devote almost 400 pages to listings as compared to 99 pages in the First Edition, 145 pages in the Second, and 195 pages in the Third.

You will notice that the page size of the book has also been changed. This extra width was necessary in order to include original part numbers on all products—a new feature that will save you even more time and trouble in finding the correct replacement.

Other features you have praised so highly have been retained. In the tube section of the listings, you will note that we again show not only the correct tube complement (by type number) for the receiver listed, but also the total number of tubes. Even when you don't know the exact model of a receiver (in many instances the number has been obliterated) a comparison of the types and numbers of tubes with the listings in the MYE will make instantaneous identification possible.

In the last column of listings, we have again incorporated the correct reference, by volume and page number, to Rider's Manuals—up to and including the current Volume 12. This is a real time-saver for those of you who want to know more about the circuit of a receiver, and particularly where the circuit may have been changed during a previous service repair.

All other tried, tested-and-proven-worthy features remain, brought up-to-date—current in every respect. The Fourth Edition of the MYE is for you—the radio *service* engineer. It

has been streamlined—stripped of all non-essentials. It gives you the specific answer you need “in one book, on one page, on one line.” To give you these answers requires a real investment. It requires a responsible, experienced staff the year 'round. It requires an elaborate filing system for keeping the most complete and authoritative recommendations on receivers and specific servicing data in the entire world . . . every single model of every receiver has its own file folder containing every bit of available data on that particular model.

But beyond physical considerations, it requires a sincerity of purpose that is unmatched, we believe, by any other radio parts manufacturer. That purpose is to help you in your daily work, to save you time, to give you quickly the correct answers to radio servicing problems.

So, in dedicating the Fourth Edition of the MYE to you, we say:

“THANKS A MILLION . . .

FOR YOUR HELP!”

The good job has continued, because *you* demanded it, and contributed so generously of your experience and knowledge to make it possible.

We acknowledge a debt of gratitude to the entire industry for its spontaneous and whole-hearted co-operation, and its permission to use information without which it would have been impossible to make this Fourth Edition of the MYE complete.

It is our earnest hope that you will find this edition of your MYE even more helpful to you than its fore-runners.

How to use the Encyclopedia—

As an example of the time-saving features possible with the use of the Encyclopedia, let's consider the servicing of an actual receiver in the shop. Assuming that many of the parts need replacing, we can proceed in a standard routine manner to get the set satisfactorily repaired and back to the customer in an absolute minimum of time.

The receiver we encounter is the Fairbanks-Morse model 72 (72T3, 72C2, 72C3) and upon removing the chassis from the cabinet it appears on the work-bench exactly as shown in the bottom and top pictures on pages 6 and 7 respectively. On this set we'll quickly replace the defective component parts. On page 115 you'll find the complete replacement information for the Fairbanks-Morse model 72 as shown immediately below.

4th Edition

MALLORY RADIO SERVICE ENCYCLOPEDIA

4th Edition

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FAIRBANKS-MORSE 72 (72T3, 72C2, 72C3)	Vol. Tone	5814	80	TRP616				5917	4	WE1650					7 6K7G, 6A8G, 6Q7G, 6L6, 6F5, 5Y3	456	8-29,30	
		5815	80	N				8	4	HD684								
								8	13	RS213								

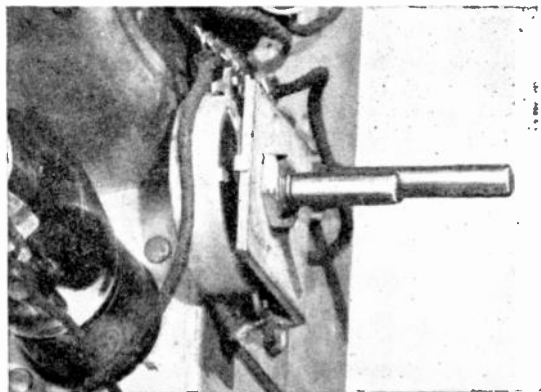


FIGURE 1

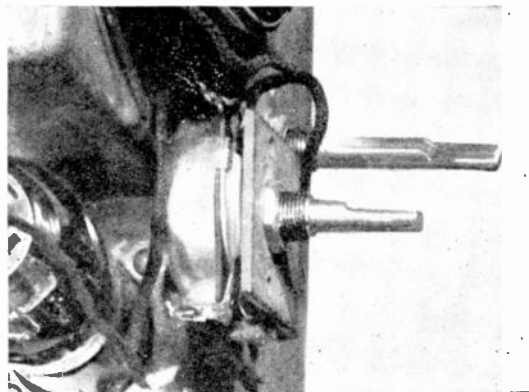
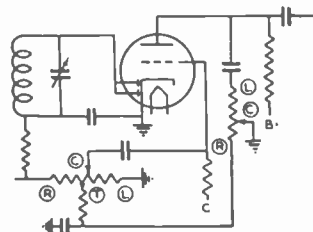


FIGURE 2

The original control is found to have an overall resistance value of 500,000 ohms with a tap at 60,000 ohms. The shaft is of $\frac{1}{4}$ " diameter and $\frac{13}{16}$ " length. These requirements are easily met by the Mallory TRP616 control, and you will find that this unit is specified under the sub-heading "Correct Replacement" under the main heading of "Controls." To install the TRP616 in the Model 72 it is only necessary to cut or notch and break the shaft at the $\frac{13}{16}$ " length and cut or file the $\frac{3}{32}$ " channel edges to provide the same milled flat as employed on the original. The ease with which this replacement is accomplished is readily apparent when you examine the illustration showing the complete replacement (Fig. 2). In this, the fourth edition of the MYE, additional listing space has been provided to give information on the original part number identifying the control. This information is particularly helpful in cases where the

CONTROLS

Having found that the volume control is defective we will replace this part first. Looking from above the chassis we see the original control as pictured in the partial illustration Fig. 1 and indicated by arrow "A" in the complete chassis views on pages 6 and 7.



Circuit 80

We find that it is connected in the receiver like this:

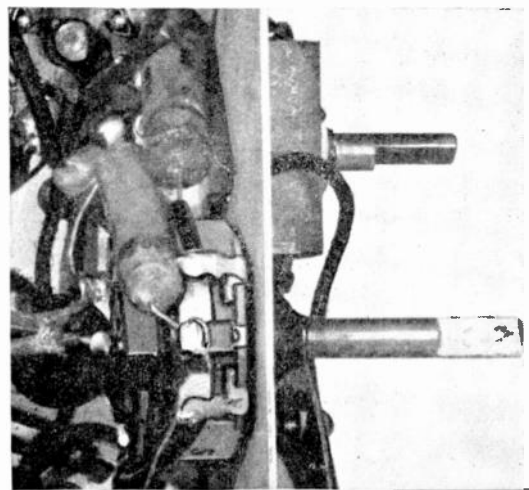


FIGURE 3

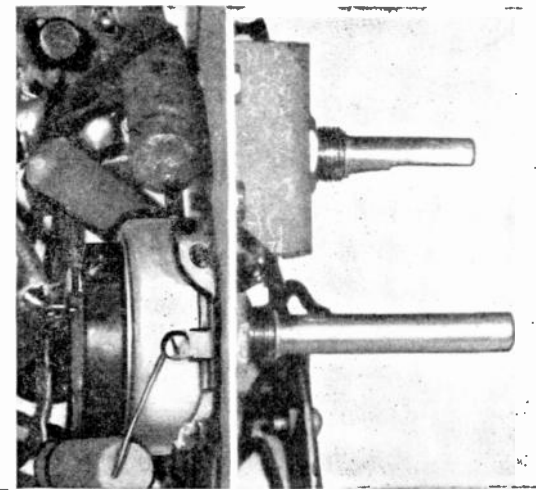


FIGURE 4



FIGURE 5A

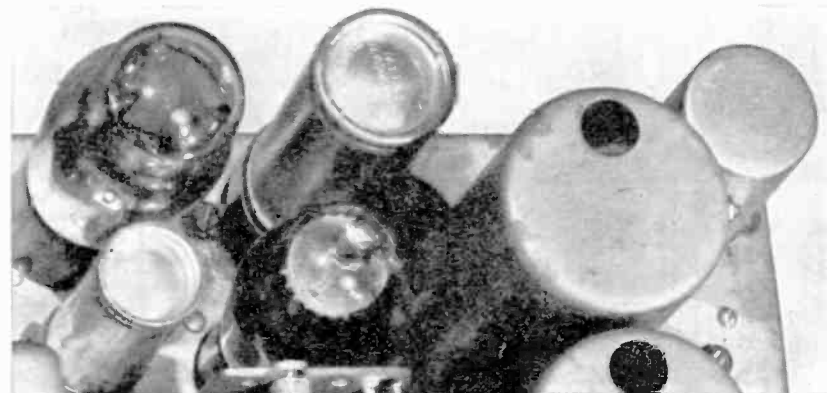


FIGURE 6A



FIGURE 5B

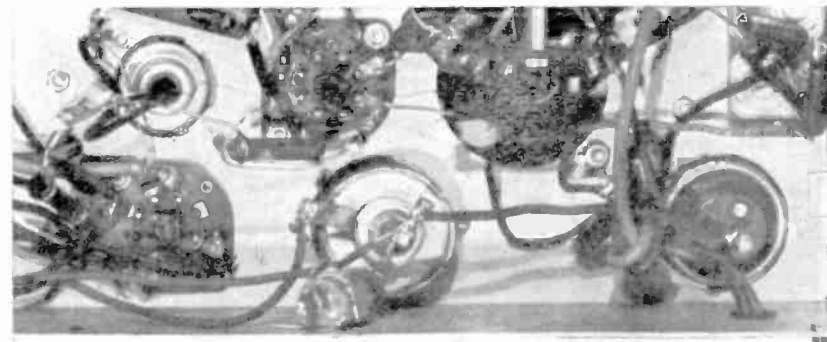


FIGURE 6B

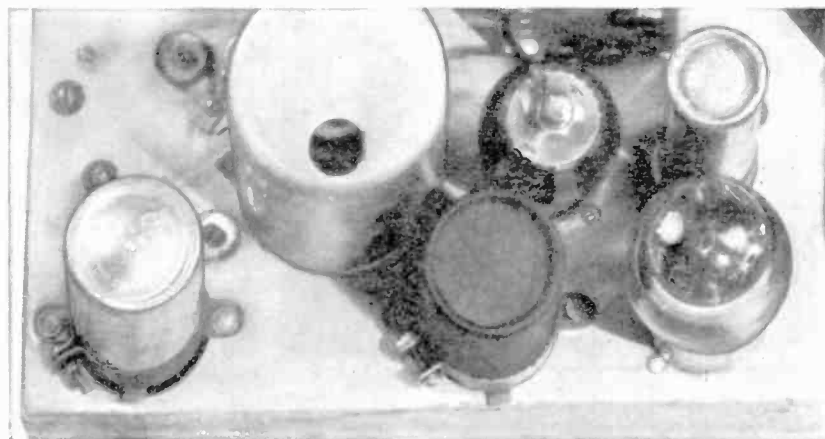


FIGURE 5C

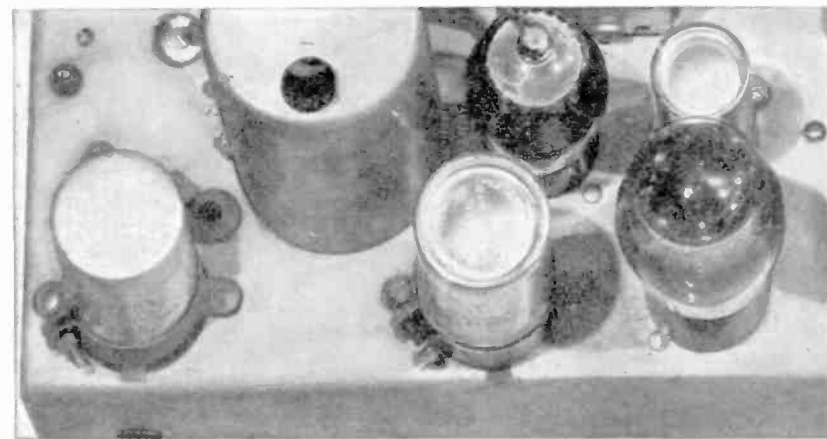


FIGURE 6C

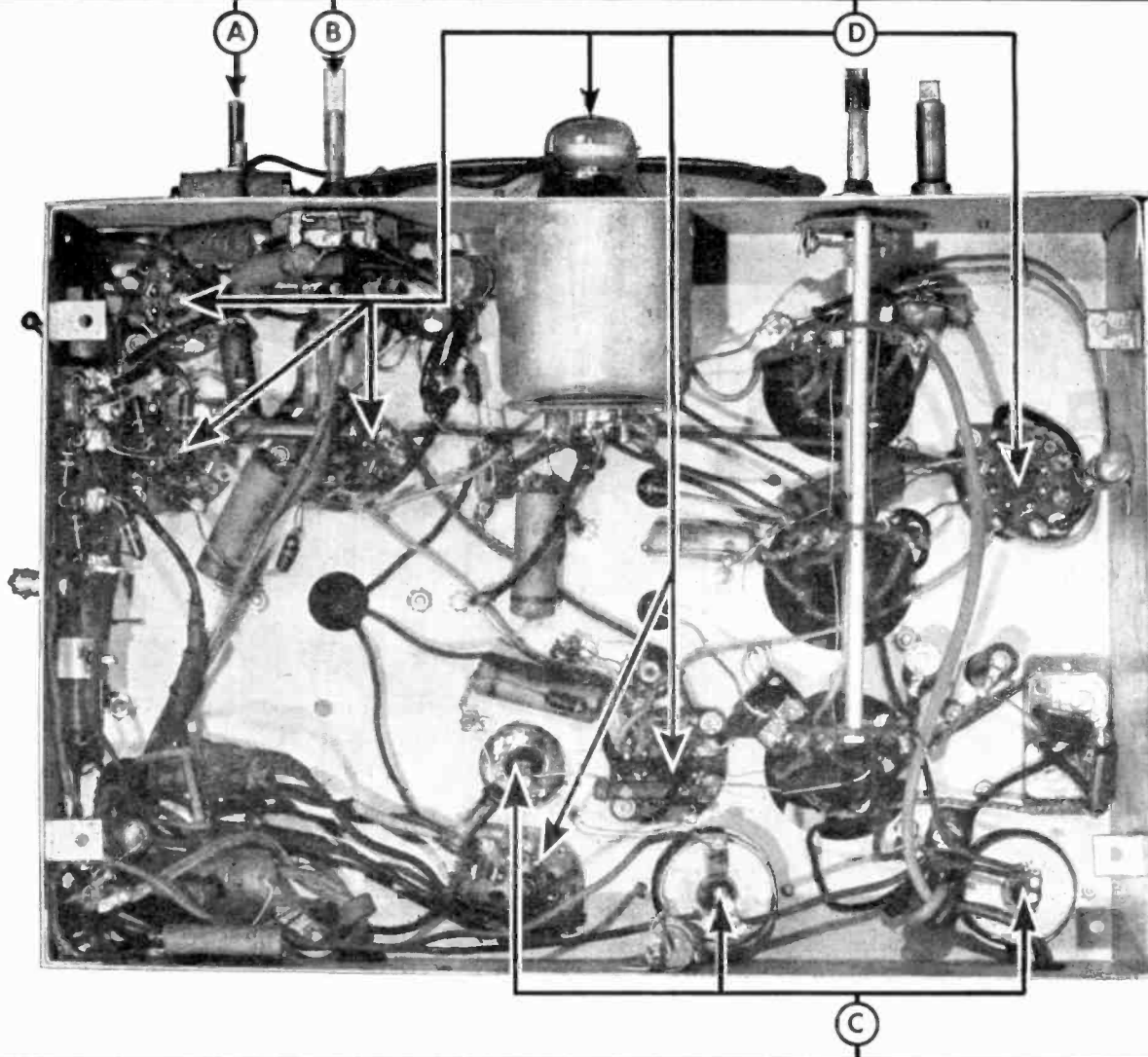
chassis or model identification has been lost or obliterated.

Next, we will replace the tone control in the receiver. It appears as shown in the partial chassis illustration Fig. 3, and is indicated by arrow "B" in the complete chassis illustrations on pages 6 and 7. This control is

wired into the receiver as indicated by the tone control section of circuit 80, page 401. See circuit 80 previously shown for the volume control circuit. Looking under the "Correct Replacement" column we find that the Mallory Type N control and a No. 6 switch are recom-

mended for this application. To install, assemble the switch to the control, cut the shaft to proper length and remove the channel edges of the shaft to provide the $\frac{3}{32}$ " milled flat as employed on the original control. The complete replacement is illustrated in Fig. 4.

Use Vol. Tone	CONTROLS					COMPLETE TUBE COMPLEMENT
	Original Part	Correct Replacement	Switch	Bias	Note	
	5814	TRP616				
	5815	N	6			



CONDENSERS

CONDENSERS

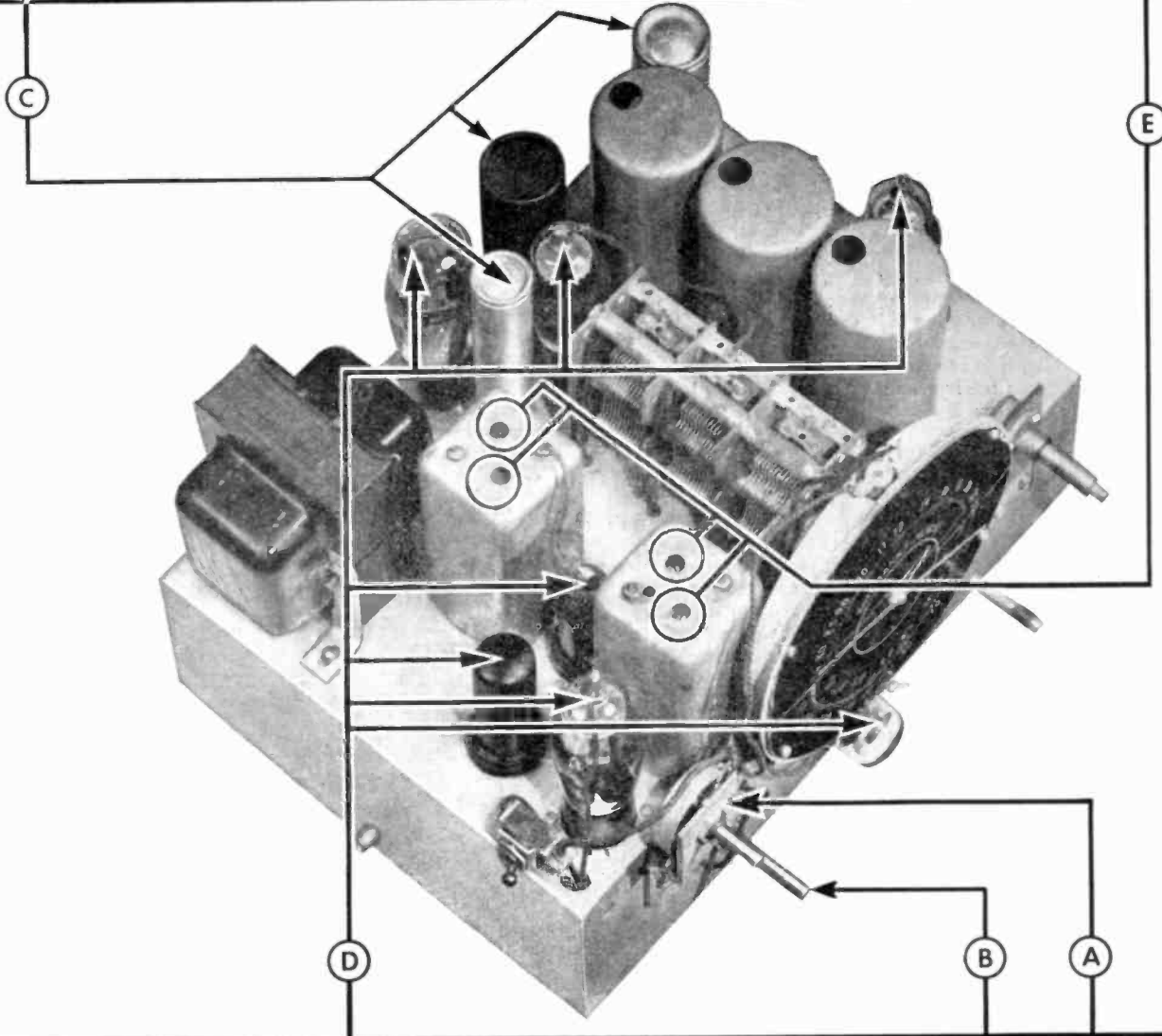
Original Part
5917
8
8

Circuit
4
4
13

Correct
Replacement
WE1650
HD684
RS213

Note

I. F. PEAK
456



COMPLETE TUBE COMPLEMENT
7 6K7G, 6A8G, 6Q7G,
6L6, 6E5, 5Y3

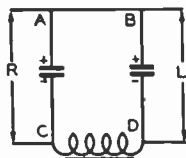
CONTROLS
Tone Vol.

CONDENSERS

There are three electrolytic condensers in the receiver and we'll replace them all to be sure we don't leave any defective ones. The first condenser we find is one marked with the part number 5917.

This condenser is a 16 mfd. wet electrolytic and it appears on the chassis as the center unit in the front—top illustration Fig. 5A, the under chassis view Fig. 5B, and the rear-top illustration Fig. 5C. The unit is indicated by the center section of arrow "C" on the complete chassis views on pages 6 and 7.

First loosen the ring clamp and disconnect the lead from the lug. Then remove the metal strip connection to the condenser can and take out the condenser. Referring to the listing for this receiver we find that the correct replacement is the Mallory Type WE1650. Before going ahead with the installation it should be noted that the original unit was enclosed in a fibre or composition cover. The purpose of this cover is to insulate the can, which is the negative connection, from the clamp which is mounted directly on the chassis. Condenser reference schematic No. 4, page 410, listed for this receiver and shown immediately below illustrates why this is neces-



CIRCUIT 1

sary. The input condenser in this circuit has its negative connection off ground potential by the amount of voltage drop across the field coil or choke used in this position. It is of course equally necessary that the replacement condenser be insulated. The easiest way to accomplish this is to remove the cover from the original unit and use it on the replacement condenser. It is not essential that the entire length of the condenser can should be covered, rather just the portion which passes through the clamp mounting. In the case of the particular receiver shown, the Mallory WE1650 was installed with only the mounting portion insulated. The completed installation is illustrated in the Fig. 6A, 6B, and 6C.

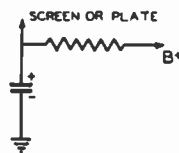
The next condenser we encounter is the second filter unit at the extreme right rear (facing chassis front). It is of 8 mfd. capacity and is so indicated in the listing. It appears in the right rear corner of Fig. 5A and 5B and at the left in Fig. 5C. It is also indicated by arrow "C" in the complete chassis views on pages 6 and 7.

The correct replacement for this unit is the Mallory Type HD684.

Loosen the mounting clamp, remove the leads from the lug, replace the original with the HD684, reconnect

the leads, tighten the clamp, and the job is done. Since this is the second filter of circuit 4 it is at ground potential, and does not require insulation. The complete installation is shown in Fig. 6A, 6B, and C.

The third electrolytic is the 8 mfd. smaller diameter can adjacent to the 1st IF transformer. (See Figs. 5A, 5B, and 5C, and the complete chassis illustrations on pages 6 and 7.) This condenser is used as the oscillator plate supply filter as shown in circuit 13 of the condenser reference circuits on pages 410 through 413. Circuit 13 appears below.



CIRCUIT 13

The recommended replacement is the Mallory Type RS213. The Red lead of the RS213 connects to the leads going to the lug of the original unit and the Black lead

of the RS213 connects to the chassis. Figs. 6A, 6B, and 6C show the completed replacement. Fig. 6B also illustrates the effective use of the Type A-016 terminal connector in replacement work. The A-016 appears just to the left of the replacement unit.

We now have all the condensers and controls replaced, which undoubtedly will take you less time than it took to read this, once you get the hang of using the Encyclopedia.

VIBRATORS

VIBRATORS		
Original Part	Replacement	*Note
A14600.....	297....	C3
.....
14602.....	F221....	C3
A14614.....	F221....	C3

Since this particular receiver did not use a vibrator, none could be illustrated; however you'll find the same easy-to-use system as shown at left for this replaceable part where applicable.

In all replacements be sure to read the note, as it may be very important for accurate replacement.

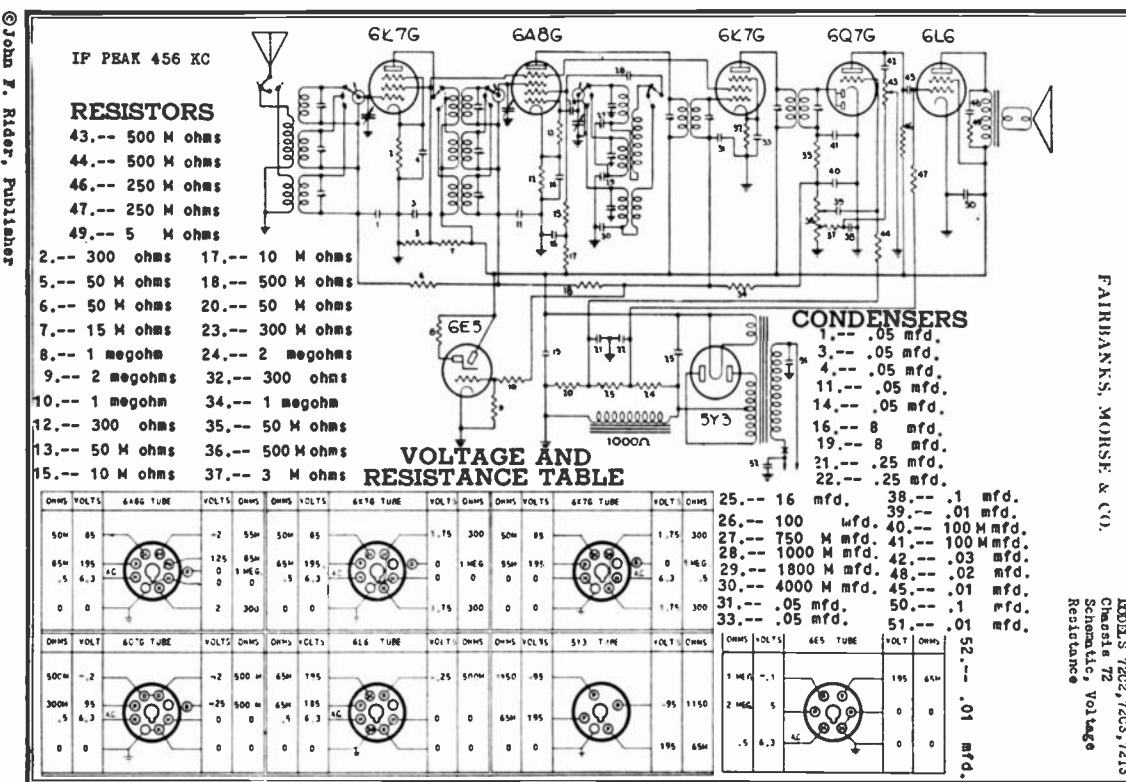


FIGURE 7

FAIRBANKS, MORSE & CO.
 KODIAK 7202, 7203, 7213
 Schematic, Voltage
 Resistance
 FAIR-MORSE PAGE: 8-29

TUBES

The tubes are listed next, both for the total number used in the receiver and the amount of each type. Here is a reprint as listed on page 115 for the Model 72T3 which we just finished servicing. In the column, "Total Number of Tubes," the ballast tubes are not included, but are usually listed in the number of each type. The small superior figures indicate the number of each type used, and if no superior figure appears, it indicates that only one tube of that type is used.

No. Tubes	Complete Tube Complement
7	6K7G, 6A8G, 6Q7G, 6L6, 6E5, 5Y3.....

This column serves the two-fold purpose of identifying unmarked receivers and enabling you to carry a complete set of tubes before seeing the radio. If tube types have been changed during production, they will be indicated as 57-77, meaning some

models use the 57 2.5-volt tube, and others the 77 6.3-volt equivalent. (Arrow "D" on pages 6 and 7 shows the actual tubes in the receiver as listed in the accompanying example.)

I. F. PEAK

I. F. Peak
264
264
264
472.5

In the column headed I. F. Peak the Intermediate Frequency is listed for all super-heterodyne receivers, making it unnecessary to search through numerous lists for the proper information. In some cases I. F. Peaks were changed during production to eliminate interference in certain localities, in which case both I. F. Peaks are listed. The intermediate frequency for the Fairbanks-Morse 72T3 is 456 kc. and arrow "E" on page 7 shows the points where the adjustments would be made.

RIDER'S REFERENCE

Occasionally, it may be necessary to have a complete circuit diagram of the receiver for certain complicated replacements or tracing of the wiring which may have been changed. The last column gives the volume and page number in Rider's Manuals on each of these receivers. As an illustration, the Fairbanks-Morse Model 72 is listed at the right.

In this case, the schematic diagram will be found in Rider's Volume 8 on page 29 under Fairbanks-Morse. Fig. 7 shows a reduced reproduction of the actual page.

Rider's Reference

8-29,30
-7.....

SUMMARY

The set we have just serviced was assumed to be in the worst possible condition; however, by using this simple step-by-step system, we have it in good condition in less time than it would normally take to replace a by-pass

● Now just a short review to make sure that the listing arrangement is absolutely clear.

The Encyclopedia is divided into three major sections:

- Section A Controls
- Section B Condensers
- Section C Vibrators

There are approximately 25,000 different models of radio receivers listed, and still there are some on which no records are available. Whether given in the listing section or not, information contained in the book will enable you to effect a quick and highly satisfactory repair.

ENCYCLOPEDIA—LISTINGS

MANUFACTURER AND MODEL

FARNSWORTH
AC70, AC71 (C3-1)
AC90, AC91 (C4-1)

ACL55, ACL56
(C2-3).....

Receivers are listed either by the manufacturer's name, or the trade-name, according to popular usage. A cross-index in the listings will help you locate the receiver you are looking for.

Model numbers precede chassis numbers, with few exceptions. In these cases, model numbers are in parentheses and follow chassis numbers.

CONTROLS

Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note
-----	---------------	---------	---------------------	--------	------	-------

Vol. Tone
Sen.
Vol. Tone
Vol. Tone
Vol. Tone
Vol. Tone

USE—Controls are listed with an abbreviation of their most common designation; i.e., "Vol." = volume control; "Supp." = Suppressor Control. A complete list of abbreviations is on page 395.

alone. By using the book and the same system, you'll get the sets off your bench in record time.

In listing the Rider page numbers it should be noted that reference is usually made to the actual page carrying the schematic diagram. In cases where it was advisable to list a series of pages we have indicated them by listing the first and last page of the series.

General Information

CONTROLS						
Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note

.....
A33006.....
A33077.....
A33063.....
.....

ORIGINAL PART—This column lists the identifying part number stamped on the control, if this information is available. Many times it is possible to find the correct replacement

for an identified control even though the model number of the receiver is not shown, or has been obliterated through handling.

CONTROLS						
Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note

127
22
98
18
18
22
75
22
127

CIRCUIT—Numbers refer to "A" Control Circuits on pages 398 to 403.

These schematic circuits enable you to check the receiver on which you are working to make sure the circuit has not been changed during a previous repair or during that particular model's life in its period of manufacture.

CONTROLS						
Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note

CORRECT REPLACEMENT

Here are listed recommended correct replacements. Where a recommendation reads "500M" or is not a definite recommendation, and is followed by a note in the Note Column, it means that the complete or partial value of a control is known. The note referred to gives clear, concise instructions to make a quick, satisfactory replacement.

MR48.....
MR33.....
D.....
MR48.....
MR48.....
K12.....
MR48.....
K12.....
MR48.....

CONTROLS						
Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note

SWITCH—The number of the replacement switch which must be used with the recommended control is listed in this column.

.....	M26	.....	.....	.....	.....	.....
.....	M26	.....	.....	.....	.....	.....
.....
.....

CONTROLS						
Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note

BIAS—This column tells you that the control is used in a cathode or "bias" circuit. The original control contained a fixed resistance which must be duplicated.

.....
.....	EX200	.....	.....	.....	.....	.....
.....	EX200	.....	.....	.....	.....	.....
.....

All carbon controls which may possibly be used in "bias" type circuits are provided with a separate adjustable resistor of 500 ohms total resistance. This may be adjusted to the value given in the "Bias" column. "EX350" means that the resistor is to be set at 350 ohms and wired between the right-hand terminal of the control and the cathode circuit.

Wire-wound controls contain an adjustable section for this purpose. Where a wire-wound control is specified, the bias column will contain a numeral from 1 to 5 designating the correct setting for this adjustable section.

*NOTE—

See Note A14 | | | Bias | | | C3 |

*IMPORTANT: Read Notes in Note Section if specified in Note Column.

CONTROLS						
Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note

On pages 395 to 397 there are over one hundred "A" (control) Notes. These are valuable because they tell what to do and how to do it. They tell how to make a quick and easy replacement when information is impossible to obtain. They permit the selection of a proper control either at your distributors, or to tell him by mail the correct resistance and the right taper which, with a sketch of the shaft that you will make, will enable you to receive the right control without delay, loss of time, or customer dissatisfaction.

The "Note" sections ("A" Controls, "B" Condensers, "C" Vibrators) of the encyclopedia are without doubt the finest and most helpful compilation ever printed.

We strongly advise, for your own benefit, that you read these "Note" sections. They will save you time and worry and will make money for you.

CONDENSERS

CONDENSERS

Original Part	Circuit	Correct Replacement	*Note
---------------	---------	---------------------	-------

8, 8, 8.....
10.....
A10005.....
5-5.....
10.....
8-8.....

ORIGINAL PART—Under the heading "Original Part" is listed either the value of the original condensers or the part numbers originally used. Condensers are listed in the order of their importance. First, filter units, second, bypass units. Filter units are in most instances listed in their respective order of installation, from the rectifier to the load.

8-8-8 means that there is one condenser with three 8 mfd. sections used in the circuit.

8, 8, 8 means that there are three 8 mfd. condensers used in the circuit.

CONDENSERS

Original Part	Circuit	Correct Replacement	*Note
---------------	---------	---------------------	-------

1
19
.....
23
1/13
15
23
.....
1
19

CIRCUIT—The use of each condenser section is not given because this is clearly shown in the schematics of condensers circuits. "B" (condenser) Circuits are shown on pages 410 to 413. A double number

1/13 means that sections of the condenser are used in two different circuits; i.e., Circuit No. 1 and Circuit No. 13, both shown on page 110.

CONDENSERS

Original Part	Circuit	Correct Replacement	*Note
---------------	---------	---------------------	-------

ST595.....
BB13.....
.....
CM172.....
CM172.....
BB12.....
CM172.....
ST595.....
BB13.....

CORRECT REPLACEMENT

—Here are listed recommended correct replacements by catalog number (ST595, etc.). The word "Buffer" refers to the secondary or buffer condenser which is connected across the secondary of the vibrator power transformer, the value being given in the "original part" column.

*NOTE—

See Note A14 | | | Bias | | | C3 |

*IMPORTANT: Read Notes in Note Section if specified in Note Column.

CONDENSERS

Original Part	Circuit	Correct Replacement	*Note
---------------	---------	---------------------	-------

On pages 404 to 409 there are over two hundred "B" (condenser) NOTES. These are valuable because they tell you what to do and how to do it. They tell how to make a quick and easy replacement when information is impossible to obtain. They permit the selection of the right condenser without referring to original color coding which may have been obliterated by age, by factory changes during production, or by a previous repair to the receiver. Quick, accurate and wonderfully easy condenser replacements will be effected by reading "B" (condenser) Notes.

.....
.....
B14
.....
.....
B14
.....

VIBRATORS

VIBRATORS

Original Part	Replacement	*Note
---------------	-------------	-------

A14600.....	297.....	C3
.....
14602.....	F221.....	C3
A14614.....	F221.....	C3

ORIGINAL PART—

This column lists the identifying part number stamped on the vibrator if this information is available. It is often possible to determine the correct replacement for a certain part number vibrator by checking this column even though the model is unknown or not listed.

REPLACEMENT—Here the correct replacement is listed. No guesswork for all have been field-tested just as has every other bit of information in the encyclopedia.

NOTE—Clear instructions for installation, or for the proper selection of a unit, are given in 24 concise notes on page 113.

VIBR. CONN.—Vibrator connections are shown on page 115. They're easily understood for they show the appearance and connections of all replacement units.

Now that an explanation of the encyclopedia has been completed, it is only fair to say that every possible help and advice has been compiled to help you. Make use of this help for increased effectiveness in your service work.

● A CORDIAL INVITATION is extended to all users of this Encyclopedia to avail themselves of the privilege of submitting technical problems for advice. Each letter will receive careful personal attention by a qualified expert, and an answer will be forwarded promptly.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AETNA—Also see Wa	Green																	
4T '36	Vol.		6	G12	6	EX125		16-12	23	2P546	B12				4	6D6, 6C6, 43, 25Z5		
5T '36	Vol.		18	N				16-12	27	2P546	B55				5	6A7, 6D6, 75, 43, 25Z5	465	
B25-RS	Vol.	2099C	18	MR48											5	1C6, 1A4, 1B5, 30, 19	456	
55RS	Vol.	2099	18	MR48	M27			317	4	RS213					5	6A7, 6D6, 75, 42, 80,	456	
57RS	Vol.	2099	18	MR48	M26			311	27	ST589					6	6A7, 6D6, 75, 43, 25Z5, 6G5	456	
252	Vol.		7	MR45	M26	EX120		16-8-5-5	6/15	UR189	B5				4	6D6, 6C6, 43, 25Z5	\$6-1	
255	Vol.	2426	6	Y	6	EX200		2525	6	RS208					4	6D6, 6C6, 25L6, 25Z5, R55CP		
370	Tone	259	21	N				311	27	ST589					6	6A7, 6D6, 75, 43, 25Z5, 6G5	456	
	Vol.	2099	18	MR48	M26			314	27	ST589					6	6D6, 76, 75, 6B5, 80, 25Z5	456	
630, 635, 652	Vol.		18	N				8-8	1	2S567	B26				5	6A7, 6D6, 75, 43, 25Z5	156	
700	Tone		22	K12				16, 16	27	BB24					5	6A7, 6D6, 75, 43, 25Z5	156	
	Vol.		18	MR48											5	6A7, 6D6, 75, 43, 25Z5	156	
	Tone		34	MR33											5	6A7, 6D6, 75, 42, 80, 1C6, 34, 30, 32, 33	456	
AIRCRAFT—Also see	Spiegel	& Radio Prods.	18	N				8-4	23	2S567	B33				5	6A7, 6D6, 75, 42, 80, 1C6, 34, 30, 32, 33	456	
A31	Vol.		45	N				8-8	1	2N518		P402	245C	C3	5	6A7, 6D6, 75, 42, 80, 1C6, 34, 30, 32, 33	456	
BA41	Vol.			N	6	A21		.01-.01	32	Buffer	B14				7	6L7, 6K7, 6C5, 6H6, 6F5, 6F6, 5Z4	456	
L5	Vol.	P660	18	N	6			P474	32	WE450	B81				8	6L7, 6K7, 6Q7, 6C5, 6F6, 5Z4	456	
	Tone	P661	34	L				P160	32	2S567	B81				8	6L7, 6K7, 6Q7, 6C5, 6F6, 5Z4	456	
L6	Vol.	P660	18	N	6			P304	15	BB12					7	1C6, 19, 30, 334	456	
	Tone	P661	44	L				P474	32	WE450	B81				7	1C6, 19, 30, 334	456	
L7	Vol.	P691	45	SRP275	7			P304	15	BB12					7	1C6, 19, 30, 334	456	
	Tone	P682	45	L				.01-.01	1	2N516	B14	P402	245C	C3	6	1C6, 19, 30, 32, 34	456	
X6	Vol.	P691	45	SRP275	7			P391	1	Buffer	B14	P402	245C	C3	6	1C6, 19, 30, 32, 34	456	
	Tone	P692	45	L				.01-.01	1	2N516	B14	P402	245C	C3	6	1C6, 19, 30, 32, 34	456	
Z4	Vol.	P680	45	SRP275	7			P391	1	Buffer	B14	P402	245C	C3	6	1C6, 19, 30, 32, 34	456	
	Tone	P682	44	L				.01-.01	1	2N518	B14	P402	245C	C3	6	1C6, 19, 30, 32, 34	456	
Z5	Vol.	P691	45	SRP275	7			P958	1	Buffer	B14				6	7B, 6A7, 75, 42, 84	262	
	Tone	P692	44	L				.01-.01	1	Buffer	B14				6	7B, 6A7, 75, 42, 84	262	
14-112S	Vol.	3038	18	UM157-SS3				2994	1	3CS133	B85	3000	294	C3	6	6A7, 6D6, 75, 76, 42, 6G5, 80	456	
	Tone	3034	22	MR36				578	15	BB12					8	6A7, 6D6, 75, 76, 42, 6G5, 80	456	
	Sen.	3035	7	CIMP				.0075	23	Buffer	B14				8	6A7, 6D6, 75, 76, 42, 6G5, 80	456	
14-127ES	Vol.	2726	18	N				3375	23	RS216					8	6A7, 6D6, 75, 76, 42, 6G5, 80	456	
	Tone	2737	147	P				3351	23	WE1830					8	6A7, 6D6, 75, 76, 42, 6G5, 80	456	
AIRKING																		
Dynamic 2 Range	Vol.		6	SRP263				8-8	6	2N502					4	6D6, 6C6, 43, 25Z5	7-4	
	Vol.		18	N	6			5	15	BB12					6	6A7, 6D6, 75, 43, 25Z5	456	
Knave	Vol.		106	N				16-8-5-5	1/15	UR189	B5				6	6A7, 6D6, 75, 43, 25Z5	7-1	
Magnetic	Vol.		6	SRP263				8-8	24	2N502					4	6D6, 6C6, 38, 76	7-4	
	Vol.		6	SRP263				5	15	BB12					4	6D6, 6C6, 38, 76	7-4	
Royalty	Vol.		18	N	6			16, 16	1	ST597					8	6A7, 6D6, 75, 76, 42, 80	456	
	Tone		21	N				5	15	BB12					4	6A7, 6D6, 75, 76, 42, 80	456	
4	Vol.		8	MR28	M26			30-20	24	2N514					4	12K7GT, 12J7GT, 35L6GT, 35Z5GT	11-1	
4T "Comet"	Vol.		7	UC509	6	EX300		12-8-5-5	1/15	UR189	B5				5	7B, 77, 43, 25Z5	5-1	
Atlas 5T Universal	Vol.		18	MR48	M26			16-8-5-5	6/15	UR189	B5				4	6A7, 7B, 75, 43, 25Z5	456	
6-Tube AC Super	Vol.	2443	18	MR48	M26			1846	4	RS213					6	6D6, 76, 75, 42, 80	456	
	Tone	2619	22	L				1615	15	BB12					6	6D6, 76, 75, 42, 80	456	
6T TRF-LW	Vol.		6	F7				8, 8	4	RS213					6	58, 57, 47, 80	5-3	
	Tone		21	O				8	1	ST595					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	456	
6E	Vol.		45	MR48				16	1	ST597					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	456	
	Tone		21	MR48	M26			5	15	BB12					7	58, 57, 47, 80	175	
7T BC "Super"	Vol.		6	G12				8, 8	4	RS213	A14				7	58, 57, 47, 80	5-1	
	Tone		21	O				8, 8	4	RS213					7	58, 57, 47, 80	5-4	
7T TRF-LW	Vol.		6	F7		2		8, 8	4	RS213					7	58, 57, 47, 80	5-4	
	Tone		21	O				8, 8	4	RS213					7	58, 57, 47, 80	5-4	
9E	Vol.		127	MR48				16, 16	1	ST597					9	6K7, 6A8, 6H6, 6F5, 6C5, 6F6, 5Z4	456	
	Tone		21	MR48	M26			16, 16	1	ST597					4	6D6, 6C6, 38, 76	7-4	
10	Vol.		6	SRP263				8-8	24	2N502					4	6D6, 6C6, 38, 76	7-4	
	Vol.		6	SRP263				5	15	BB12					4	6D6, 6C6, 38, 76	7-4	
11F	Vol.		15	N				16	1	RS216					11	6K7G, 6A8G, 6H6G, 6G5, 6C5G, 6N6G, 5V4G	456	
	Tone		41	N	6			30	1	WE3035					4	6D6, 6C6, 38, 76	8-2	
21, 22 Series	Vol.	700A	7	MR28	M26			1051	24/15	3N525	B61				4	6D6, 6C6, 38, 76	456	
23X	Vol.		8	MR28	M26			30-20	24	2N514					4	12K7GT, 12J7GT, 35L6GT, 35Z5GT	11-1	
27, 28A	Vol.		18	N				20	6	BB25					5	6A7, 6D6, 75, 43, 25Z5	456	
	Vol.		6	G	6	2		10	6	BB22					5	6A7, 6D6, 75, 43, 25Z5	456	
37, 39	Vol.		6	G	6	2		5	15	BB12					5	77, 78, 43, 25Z5	456	
40	Vol.		6	N				16-8-6-10-10	8/15	See Note	B3				4	6D6, 6C6, 38, 37	\$4-1	
	Vol.		6	N				8-8	24	2N502	B6				4	6D6, 6C6, 38, 37	6-1	
	Vol.		6	N				5	15	BB12					4	6D6, 6C6, 38, 37	6-1	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AIRKING — Continued																		
41, 42	Vol.	700A	6	MR28	M26			8-8	24	2N502					4	6D6, 6C6, 38, 76	7-4	
47, 48, 57, 58	Vol.		18	N				5	15	BB12				5	6A7, 6D6, 75, 43, 25Z5	456	7-8	
								20	6	BB25								
50 AC-DC	Vol.		6	N				10	6	BB22				4	6D6, 6C6, 43, 25Z5		6-1	
								5	15	BB12								
52, 54	Vol.		6	H7	6	3		8-8	6	2N502				5	57, 58, 47, 80	456	4-1	
								5	15	BB12								
66	Vol.		18	N	6			8-4	1	2S567	B26			5	6A7, 6D6, 75, 43, 25Z5	456	6-2	
								16-8-5-5	6/15	UR189	B5							
70	Vol.		18	N				16, 16	1	ST597				7	6A7, 6D6, 76, 75, 42, 80	456	6-2	
								5	15	BB12	B6							
72, 73	Vol.		18	MR48				24	6	BB26				6	6A7, 6D6, 75, 6G5, 43, 25Z5, 36H	456	8-3	
								12	6	BB22								
76	Vol.		106	MR48	M26			4	13	BB20				6	6A8G, 6K7G, 6Q7G, 6N6MG, 6G5, 5W4	456	9-2	
								5	15	BB12								
81 Series	Vol.	700A	7	MR28	M26			16-8	1	2S563				6	6A8, 6K7, 6116, 6F5, 6F6, 5Z4	456	7-6	
								16	1	ST597	B61							
209	Vol.		45	N				8	1	ST595				4	6D6, 6C6, 38, 76	456	8-2	
								5	15	BB11								
211	Vol.		45	N				24	6	BB26				6	6A8, 6K7, 6116, 6F5, 43, 25Z5	456	7-7	
								12	6	BB22								
213	Vol.		45	N				10	15	BB13				9	6K7, 6A8, 6116, 6F5, 6C5, 26F6, 5Z4	456	7-3	
								16, 16	1	ST597								
214	Vol.		6	Y				24-10-5	24/15	UR182	B268			3	6D6, 6C6, 25A7G, 80F	456	8-8	
221, 222, 223	Vol.		18	N	6			8	1	ST595				5	6A7, 6D6, 75, 6F6, 5Z4	456	7-9	
								16	1	ST597								
222 (AC-DC)	Vol.	1102410	7	J	6			1102010	1	2N506				4	6D6, 6C6, 25L6G, 25Z5	456	9-4	
224, 225	Vol.		45	N				24	6	BB26				6	6A8, 6K7, 6116, 6F5, 43, 25Z5	456	7-7	
								12	6	BB22								
227, 228, 229	Vol.		18	N				10	15	BB13				6	6A8, 6K7, 6116, 6F5, 6F6, 5Z4	456	7-5	
								8-16	1	2S563	B75							
250	Vol.		57	N	6			5-5	15	TN111				5	6A7, 6D6, 6C6, 43, 25Z5	456	8-4	
								8-8	1	2N502								
250B	Vol.	1055	7	F	6			5	15	BB12				5	6A7, 6D6, 76, 25L6G, 25Z5	456	9-4	
								1135	1	2N512	B66							
252	Vol.	1102444	18	MR48	M26			1102012	1	2N514	B66			5	6A7, 6D6, 75, 25L6G, 25Z5	455	9-3	
257	Vol.	1102445	18	MR48				1102012	1	2N514	B66			5	6A7, 6D6, 75, 25L6G, 25Z5, M4911G	455	10-1-2	
260	Vol.		18	MR48				20-10	6	2N507	B66			5	6A7, 6D6, 75, 43, 25Z5, 42H	456	8-4	
								5	15	BB12								
261	Vol.		18	MR48				8-8	1	2N518	B66			5	6A7, 6D6, 75, 42, 5W4	456	8-5	
								5	15	BB12								
501	Vol.		106	MR48	M26			8-16	1	2S563	B75			6	6A8G, 6K7G, 6Q7G, 6N6MG, 6G5, 5W4	456	9-2	
503	Vol.		106	MR48	M26			8-16	1	2S563	B75			6	6A8G, 6K7G, 6Q7G, 6N6MG, 6G5, 5W4	456	9-2	
505	Vol.		106	MR48	M26			8-16	1	2S563	B75			6	6A8G, 6K7G, 6Q7G, 6N6MG, 6G5, 5W4	456	9-2	
522 Series	Vol.	700A	7	MR28	M26			1051	24/15	3N525	B61			4	6D6, 6C6, 38, 76	456	8-2	
600	Vol.		18	N				24	6	BB26				6	6A7, 6D6, 75, 6G5, 43, 25Z5	456	7-10	
								12	6	BB22								
688	Vol.		7	MR28	M26			4	14	BB20				5	6D6, 6C6, 38, 76, 6E5, M84F	456	9-5	
								5	15	BB12								
699	Vol.		7	MR28	M26			10	15	BB12				4	6D6, 6C6, 38, 76, 3M5511G	456	9-5	
								5	15	BB12								
700	Vol.		7	MR28	M26			24-10-5	24/15	UR182	B268			4	6D6, 6C6, 43, 25Z5, M5511G	456	8-6	
700LW	Vol.		7	MR28				24-10-5	24/15	UR182	B268			4	6D6, 6C6, 43, 25Z5, M5511G	456	9-6	
701, 702, 703	Vol.		7	J				24-10-5	24/15	UR182	B268			5	6D6, 6C6, 43, 25Z5, 6E5, 3M3011G	456	9-7	
704	Vol.		7	MR28	M26			30	1	BB26				6	6D6, 76, 25L6G, 6F5, 25Z5, M4211G	456	9-6	
								15	1	BB24								
705	Vol.		7	J	6			24-10-5	24/15	UR182	B268			4	6D6, 6C6, 43, 25Z5, M5511G	456	8-6	
710	Vol.	1055	7	F	6			24-10-5	24/15	UR182	B268			5	6A7, 6D6, 6C6, 43, 25Z5, M4911G	456	8-7	
715	Vol.	1055	7	F	6			24-10-5	24/15	UR182	B268			5	6A7, 6D6, 6C6, 43, 25Z5, M4911G	456	8-7	
720, 721	Vol.		18	MR48	M26			24-10-5	1/15	UR182	B269			5	6A7, 6D6, 75, 43, 25Z5, M4911G	456	9-8	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AIRKING — Continued																		
725	Vol. Tone		18 147	MR48 MR48	M26			30-10	6	2N512	B66				6	6A7, 6D6, 75, 6G5, 25N6G, 25Z5, M42HG	456	9-7
730, 731	Vol.		18	MR48	M26										4	1D7G, 1D5G, 1H6G, 1F5G	456	8-5
770	Vol. Tone		18 147	MR48 MR48	M26			24-10-5	6/15	UR182	B269				5	6A7, 6D6, 75, 43, 25Z5, M49HG	456	9-8
771	Vol. Tone		18 147	MR48 MR48	M26			24-10-5	6/15	UR182	B269				6	6A7, 6D6, 75, 6G5, 43, 25Z5, M42HG	456	9-8
777	Vol.		7	J	6			30	1	BB26					4	6D6, 6C6, 25L6, 25Z5		9-9
X780B	Vol.		7	MR28				16 34-10	1 1	BB24 2N512	B66				4	6D6, 6C6, 25L6G, 25Z5, M55HG		9-10
801	Vol.		7	MR28	M26			34-10	1	2N512	B66				5	6D6, 6C6, 25L6G, 25Z5, 6E5, 403G, M49HG		9-10
810	Vol.	1126	18	MR48	M26			1125	1	2N507	B66				5	6A7, 6D6, 75, 25L6G, 1V	456	9-11
815	Vol.	1126	18	MR48	M26			1141	1	2N512	B66				5	6A7, 6D6, 75, 25L6G, 25Z5, M49HG	456	9-12
822, 822X	Vol.	1084	18	MR48	M26			1083	1/15	2N512 + BB17					5	6A7, 6D6, 75, 25L6G, 25Z5	456	9-13
823	Vol.	1084	18	MR48	M26			1090	15	WE1835					6	6A7, 6D6, 75, 6V6G, 6G5, 80	456	9-13
824	Vol. Tone	1101	18 147	MR48 MR48	M26			1083	1/15	2N512 + BB17					7	6A7, 6D6, 76, 6G5, 6F5G, 25L6G, 25Z5	456	9-13
X825	Vol.		18	MR48	M26			15	1	WE1835					5	6A7, 6D6, 75, 6V6G, 80	456	9-8
826X	Vol.	1084	18	MR48	M26			1083	1/15	2N512/BB17					5	6A7, 6D6, 75, 25L6G, 25Z5, M49HG	456	9-13
828	Vol. Tone	1101	18 147	MR48 MR48	M26			35 15	1 1	WE4050 WE1835					7	6A7, 6D6, 76, 6G5, 6F5G, 6V6G, 80	456	9-11
832	Vol.	1084	18	MR48	M26			50 1083	15 1/15	BB17 2N512 + BB17					5	6A7, 6D6, 75, 25L6G, 25Z5	456	9-13
833	Vol.	1084	18	MR48	M26			1090	1	WE1835					6	6A7, 6D6, 75, 6V6G, 6G5, 80	456	9-13
834	Vol. Tone	1101	18 147	MR48 MR48	M26			1083	1/15	2N512 + BB17					7	6A7, 6D6, 76, 6G5, 6F5G, 25L6G, 25Z5	456	9-13
X837, X837S	Vol. Tone		18 147	MR48 MR48	M26			35 15	1 1	WE4050 WE1835					7	6A8G, 6K7G, 6H6G, 6E5, 6F5G, 6V6G, 5Y3G	456	9-15, 16
838	Vol. Tone		18 147	MR48 MR48	M26			35 15	1 1	WE4050 WE1835					7	6A7, 6D6, 6G5, 76, 6F5G, 6V6G, 80	456	9-11
850	Vol.		18	MR48	M26			50	15	BB17					4	1D7G, 1D5G, 1H6G, 1F5G, 2B6	456	9-14
870, 871	Vol.		18	MR48	M26			24-10-5	1/15	UR182	B269				5	6A7, 6D6, 75, 43, 25Z5	456	9-8
886	Vol.		7	MR28	M26			10 5	24 15	BB22 BB12					5	6D6, 6C6, 38, 76, 6E5, M84F		9-5
908	Vol. Phono.	1102417	8	MR28	M26			1102010	1	2N506					4	6D6, 6C6, 25L6G, 25Z5		9-17
909	Vol.	1102414	63	MR39	M26			10	15	BB12					5	6A7, 6D6, 75, 25L6G, 25Z5	455	9-17
910	Vol. Tone		18 21	MR48 MR48	M26			1171	1	2N514	B66				5	6A7, 6D6, 75, 25L6G, 25Z5	456	9-9
911	Vol. Tone	826	18	MR48	M26			1171	1	2N514	B66				5	6A7, 6D6, 75, 25L6G, 25Z5	456	9-14
912	Vol. Tone	1175	21	MR48	M26			1102017	1	2N514	B66				5	6A7, 6D6, 75, 25L6G, 25Z5, M49HG	455	10-1
914	Vol. Tone	1102444	106	MR48	M26			20-40	1	2N514					5	6K8G, 6D6, 75, 25L6G, 25Z5	455	11-2
914	Vol. Tone	1102571	106	MR48	M26													
920	Vol. Tone		18 21	MR48 MR48	M26			38-18 40	1 12	2N514 BB27					8	6A7, 6D6, 75, 76, 25L6G, 25Z5, M49HG, M55HG	455	11-2
X937	Vol. Tone		127	MR48	M26			25-16	1	See Note	B3				7	6K8G, 6D6, 75, 6F5G, 6V6G, 80, 6G5	455	11-3
1000	Vol.	700A	7	MR28	M26			1051	24/15	3N525	B61				4	6D6, 6C6, 38, 76		8-7
1001	Vol.	1001A	7	MR28	M26			24-10-5	24/15	UR182	B268				4	6D6, 6C6, 43, 25Z5		8-8
1001-B	Vol.	700A	7	MR28	M26			1135	1	2N512	B66				4	6D6, 6C6, 25L6G, 25Z5		9-12
2000	Vol.	700A	7	MR28	M26			1051	24/15	3N525	B61				4	6D6, 6C6, 38, 76		8-7
2001	Vol.	1001A	7	MR28	M26			24-10-5	24/15	UR182	B268				4	6D6, 6C6, 43, 25Z5		8-8
2001-B	Vol.	700A	7	MR28	M26			34-10	1	2N512	B66				4	6D6, 6C6, 25L6G, 25Z5		9-12

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AIRKING — Continued																		
2206	Vol.	700A	7	MR28	M26			1152	1	2N512	B66				1	6D6, 6C6, 25L6G, 25Z5, M551HG	9-12	
2207	Vol.	700A	7	MR28	M26			1152	1	2N512	B66				4	6D6, 6C6, 25L6G, 25Z5, M551HG		
3905	Vol.		18	MR48	M27			8	12	BB21				4	1A7G, 1N5G, 1H5G, 1Q5G	455 10-2		
3906LW	Vol.		18	MR48	M27			8	12	BB21				4	1A7G, 1N5G, 1H5G, 1Q5G	455 11-3		
3907	Vol. Phono.		8	MR28	M26		A11	30-40	24	BB26 BB27				5	12K7GT, 12J5GT, 12F5GT, 35L6GT, 35Z5GT	11-4		
3910	Vol.	2419	18	MR48	M27			2025	12	BB21				1	1A7G, 1N5G, 1H5G, 1Q5G	455 10-2		
3912	Vol.		18	MR48	M27			100-70	76	See Note	B3			5	1A7G, 1N5G, 1H5G, 1A5G, 35Z5GT	455 11-5		
3916	Vol.		18	MR48	M27			100-70	76	See Note	B3			5	1A7G, 1N5G, 1H5G, 1A5G, 35Z5GT	455 11-5		
3950	Vol.		18	MR48	M27			21	76	BB26				5	1A7G, 1N5G, 1H5G, 1A5G, 50Z7G	455 11-6		
3980	Vol. Tone		127	MR48	M26			24-125	24	See Note	B3			6	6A8G, 6K7G, 6H6G, 6F5G, 6V6G, 6X5G	455 11-1		
4000	Vol.		18	MR48	M26			16, 20	1	BB64				5	12A8GT, 12K7GT, 1206GT, 35L6GT, 35Z5GT	455 11-4		
4000A	Vol.		18	MR48	M26			40-30	24	BB27 BB26				5	12A8GT, 12K7GT, 1207GT, 35L6GT, 35Z5GT	455 11-4		
4001	Vol.		45	MR48	M26			40-30	24	BB27/BB26				6	12A8GT, 12K7GT, 6H4GT, 12F5GT, 35L6GT, 35Z5GT	455 11-6		
4002	Vol. Tone		45	MR48	M26			40-30	24	BB27/BB26				6	12A8GT, 12K7GT, 6H4GT, 12F5GT, 35L6GT, 35Z5GT	455 11-7		
4007	Vol.		45	MR48	M26			40-30	24	BB27/BB26				6	12A8GT, 12K7GT, 6H4GT, 12F5GT, 35L6GT, 35Z5GT	455 11-7		
4012	Vol.		18	MR48	M24			25, 25	24	BB25				5	1A7G, 1N5G, 1H5G, 1A5G, 50Y8GT	455 11-8		
4100	Vol.		18	MR48	M26			150-35	24	See Note	B3			5	12A8GT, 12K7GT, 12S07GT	455 11-7		
4200	Vol.		18	MR48	M26			30, 30	24	BB26				5	50L6GT, 35Z5GT, 12A8GT, 12K7GT, 12S07GT	455 11-8		
5000	Vol. Tone		45	MR48	M26			20, 20	24	BB25				6	50L6GT, 35Z5GT, 6K8GT, 6K7GT, 6H4GT, 12S07GT	455 11-9		
X8312	Vol. Tone		22	MR48	M26			35	12	BB27				10	6A7, 6D6, 75, 76, 25L6G, 25Z5, 6C5, 3M42HG	456 9-18		
9722	Vol.		8	MR28	M26			16	1	BB64				4	12K7GT, 12J7GT, 35L6GT, 35Z5GT	11-1		
9822, 9822A	Vol.		8	MR28	M26			25	1	2S568	B8			4	12K7GT, 12J7GT, 35L6GT, 35Z5GT	11-1		
9823	Vol.		8	MR28	M26			2	4	RS213				7	36, 37, 333	175 3-22		
9922	Vol.		8	MR28	M26			8	1	See Note	B7			7	36, 37, 333	175 3-21		
AIRLINE — See Montgomery		Ward						1.5-2	1	See Note	B7			6	39, 36, 37, 333	175 3-28		
AIR QUEEN — See Airking								3.5		See Note	B11			6	39, 36, 37, 338	175 3-29		
ALL AMERICAN MODEL								1.5-2	1	See Note	B7			6	39, 36, 37, 338	175 3-29		
HAWK								1.5-2	1	See Note	B7			6	39, 36, 37, 338	175 3-29		
D. Vol.	7740	24	DRP169	M26			1-1-1.5		1	See Note	B1			7	24, 27, 345, 80	1-14		
DC		25	DRP169				.073		4	On 60 cy	B9			9	22, 212A, 471A	1-27		
DC7 110V	Vol. Tone	24	GG				.2		1	On 25 cy	B9			7	36, 37, 333	175 3-22		
DC7 220V	Vol. Tone	24	GG				8		1	See Note	B7			7	36, 37, 333	175 3-21		
DC65 110V	Vol. Tone	22	K12				1.5-2		1	See Note	B7			6	39, 36, 37, 333	175 3-28		
DC65 220V	Vol. Tone	22	K12				3.5			See Note	B11			6	39, 36, 37, 333	175 3-28		
H	Vol.	7740	24	Z12	6		1.5-2			See Note	B7			6	39, 36, 37, 338	175 3-29		
J	Vol.	61272	6	G			1-1-1.5		1	See Note	B1			8	24, 27, 345, 80	1-15		
				Z12			.073		4	On 60 cy	B9			6	24, 45, 80	1-16, 17		
				DRP169			.2 Mfd.		4	On 25 cy	B9			6	24, 45, 80	1-16, 17		
				F7	6		6900/61366		4	RS213				6	24, 45, 80	1-16, 17		
							61278, 61356		4	RS216				6	24, 45, 80	1-16, 17		

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALL AMERICAN MODEL	HAWK	—Continued																
K	Vol.	15	N				1-2-4	1	See Note	B1				9	24A, 27, 35, 80		1-18	
P	Tone	22	K12				1		See Note	B9				6	24A, 47, 80		1-19	
S6	Vol.	6	F7				6900/61366	4	RS213					6	24A, 47, 80		1-19	
S7	Vol.	8	G				61278/61356	4	RS216					6	24, 35, 27, 47, 80	175	1-21, 22	
S8	Vol.	8	G				6900	4	RS213					7	24, 35, 27, 47, 80	175	1-23, 24	
SW8	Tone	34	K12				16	4	RS216					8	24, 27, 35, 47, 80	175	1-25, 26	
S10	Vol.	8	G				6900	4	RS213					8	24, 27, 35, 47, 80	175	1-25, 26	
S40	Tone	34	Z12		6		61278	4	RS216					8	24, 27, 35, 47, 80	485	3-23	
S50	Vol.	17	N				8, 8	1	ST595					8	24, 27, 35, 47, 80	485	3-23	
S63	Vol.	22	G12				6900 61366	26	RS213					10	24, 35, 27, 47, 80	175	3-24	
SA65	Vol.	13	N											4	57, 47, 80	175	3-25	
SA80	Vol.	2	Y				8-8	1	2S567					5	57, 58, 47, 80	175	3-25	
SA91	Vol.	6	F12		6		10	19	BB12	B6				6	55, 27, 24, 47, 80	175	3-26	
SA110	Vol.	22	G12				6900	1	RS213					6	58, 57, 55, 47, 80	175	3-27	
SA130	Vol.	42	II				10	15	BB12					8	24, 35, 27, 47, 80	175	3-31	
SG 110V DC	Vol.	22	G12		6		8, 8	1	RS213					8	24, 35, 27, 47, 80	485	3-32	
U55	Vol.	15	N				8, 8	1	RS213					9	24, 35, 55, 27, 47, 80	175	3-33	
7T 110V DC	Vol.	18	N				10	15	BB12	B10				9	55, 57, 58, 56, 47, 80	175	3-34, 35	
A10 PWR. PK	Vol.	21	F			See Note A4	8, 8	1	RS213					11	56, 57, 58, 46, 83	175	3-36	
B7	Vol.	15	F				10	15	BB12					13	56, 57, 58, 47, 82	175	3-37-39	
B30-31	Vol.	18	N				4-8-4-8	1/2	See Note	B3				5	44, 43, 25Z5	485	3-17	
C6 Studio	Vol.	21	N				10	15	BB12	B6				5	44, 43, 25Z5	485	3-40	
60, 61, 62, 65, 66	Vol.	15	N				8, 8, 8	7	RS213					6	32, 33, 30		3-16	
70, 73, 75	Vol.	39	N		6	See Note A5	5	15	BB12					6	31, 31, 32		3-14	
77	Vol.	8	II			See Note A4	2-2-2	1	See Note	B11				6	21, 15, 80		1-20	
B80	Vol.	12	G12				16-5	6	See Note	B5				7	26, 27, 71A, 80		1-6	
80, 83, 84, 85, 86, 88	Vol.	6	Y				12	6	BB22	B12				8	26, 27, 50, 80		1-8	
90 Series to 95	Vol.	14	N				10	15	BB12					7	26, 27, 71, 80		3-13	
96	Vol.	39	N		6	See Note A5	1-1-1-1-3	1	See Note	B7				8	34, 32, 30	175	3-30	
	Vol.	8	II			See Note A4	2-4-4	3	See Note	B13				9	26, 27, 71A, 80		1-9	
	Vol.	12	G12				2-2-2	1	See Note	B1				10	27, 45, 80		1-10, 11	
	Vol.	6	Y				1	3	See Note	B1				8	24, 27, 45, 80		1-12	
	Vol.	6	Y				1	3	See Note	B9								
ALLIED RADIO CO.	RP.																	
5T Auto.	Vol.	7	G			2	A1							5	37, 41, 57, 58		3-18	
5X	Vol.	18	N		6			23	2S567	B33				5	6A7, 6D6, 75, 41, 80	456	8-12	
6-Tube Auto.	Vol.	7	G			2	A1							6	58, 57, 37, 41		3-18	
6P	Vol.	18	N		7			1	P958	B26	P402	245C	C3	6	6D8G, 6S7G, 6T7G		8-14	
6T Dual Wave.	Tone	44	L				.01-.01	1	Buffer	B14				6	30, 19	456	8-14	
6W	Vol.	15	N		6		9110-0	1	2S567	B26				6	47, 55, 57, 58, 80	175	3-10, 11	
6Y	Vol.	18	N		6		8876-0	17	BB11					6	47, 55, 57, 58, 80	175	3-10, 11	
7M	Vol.	139	N		6		P1591	23	2S567	B33				6	6A7, 6D6, 75, 6115, 41, 80	456	8-12	
7T	Tone	139	L				P1561	27	2P549					5	6A7, 6D6, 75, 25B6G, 25Z5	456	8-11	
8T (810)	Vol.	7	F			See Note A19	4-16	23	2S563	B33				7	6A7, 6D6, 76, 75, 6U5, 42, 80	456	8-13	
8/9 AC	Vol.	22	K12				10	19	BB12					7	24, 35, 47, 27, 80	175	3-15	
12T Class "B" Super	Tone	7	P				8, 8	25	ST595					8	30, 32, 34, 19		3-17	
80AC	Vol.	46	N				See Note			B1				9	26, 27, 71A, 80		3-1	
118	Vol.	3	D7				4-2-1	3	See Note	B1				12	46, 56, 57, 58, 83	177.5	3-14	
AC5	Vol.	45	M				8-8	3	WE851	B33				5	6A7, 6D6, 75, 42, 80	456	7-1	
	Vol.	22	K12				701	23	2S567	B78				9	24, 27, 35, 47, 80	175	3-8, 9	
	Vol.	18	N				12	34	RS215					5	6A7, 6D6, 75, 42, 80	456	7-1	
	Vol.	15	N		6		8	34	RS213					9	24, 27, 35, 47, 80	175	3-8, 9	
	Vol.	44	K12				2-1	1	See Note	B1				5	24, 45, 80		3-2	
	Vol.	7	Z															

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CO.	RP.—Continued																	
A5-30 (Romer)	Vol.		7	Z.		See Note A1									5	24A, 212A	3-3	
A9701, A9702, A9703, A9704	Vol.		6	G12			16-12	23	2P546						4	6D6, 6C6, 43, 25Z5, L49C	8-1	
A9705	Vol.		18	N			16-12	27	2P546						6	6A7, 6D6, 6G5, 75, 25L6, 25Z5	8-1	
A9706	Vol.		6	MR21			16-12	27	2P546						4	6D6, 6C6, 25L6, 25Z5, L49C	10-1	
A9707	Vol. Tone		18	MR48			8-4	23	2S567						6	6A7, 6D6, 75, 42, 6G5, 80	10-1	
A9710, A9711E, A9711, A9712, A9712E	Vol. Tone		34	L		See Note A5	16-12	27	2P546						7	6A7, 6D6, 76, 6G5, 6K5, 25L6, 25Z5	465 8-2	
A9715, A9716, A9717, A9718	Vol.		6	G12			16-12	23	2P546						4	6D6, 6C6, 43, 25Z5, L49C	8-1	
A9720, A9721, A9722	Vol. Tone		18	N			8-4	23	2S567	B33					7	6K7, 6A8, 6Q7, 6G5, 6F6, 5Y3	465 8-2	
A9724, A9725, A9726	Vol.		34	L			8-8	1	2S567	B26	P402	245C	C3		6	6A7, 6D6, 75, 76, 748, 6D8, 6S7, 6L5, 19	465 8-3	
A9728, A9729, A9730	Vol. Tone		54	N			8-8	1	2S567	B26					6	6A7, 6D6, 75, 76, 748, 6D8, 6S7, 6L5, 19	465 8-3	
A9733, A9734	Vol. Tone		22	M			10	13	ST599	B26					15	6K7, 6A8, 6H16, 6G5, 6C5, 6F6, 5Z3	465 8-4	
A9733, A9734	Vol. Tone		45	2 Meg. No. 1 Y1000MP		See Note A19	8-8	13	ST599	B26					15	6K7, 6A8, 6H16, 6G5, 6C5, 6F6, 5Z3	465 8-4	
A9735	Vol.		18	N			10	15	BB12						6	6A7, 6D6, 75, 6G5, 25L6, 25Z5	456 8-1	
A9740	Vol.	3171	6	H12	6	EX250	3013	27	2P549						5	6D6, 6C6, 43, 25Z5, L55B	9-1	
A9741	Vol. Tone	2775, 3545	18	MR48	M26		3041	1	2N518						6	6A7, 6D6, 75, 41, 80, 6G5	465 9-3	
A9744, A9745, A9746	Vol. Tone	2239, 2199	18	MR48			2627	1/15	3S579						6	6A7, 6D6, 75, 41, 80, 6G5	465	
A9744, A9745, A9746	Vol. Tone	2239, 2199	18	K12	6		3041	1	2N518	B10					6	6A7, 6D6, 75, 41, 80, 6G5	465	
A9744, A9745, A9746	Vol. Tone	2239, 2199	18	K12	6		1693	15	BB12	B10					6	6A7, 6D6, 75, 41, 80, 6G5	465	
A9752, A9753, A9754, A9755	Vol. Tone	2198, 2199	18	UM154-SS16			1476	25	RS216						8	6A7, 6K7, 75, 6C5, 6F6, 6G5, 80	465 9-5,6	
A9757, A9758	Vol.	3403	45	K12	6		1477	25	RS215						8	6A7, 6K7, 75, 6C5, 6F6, 6G5, 80	465 9-5,6	
A9757, A9758	Vol.	3403	45	TM251-SS16			3167	25	WE3050						11	6K7, 6A8, 6J7, 6H16, 6C5, 6F6, 80	465 9-9,12	
A9757, A9758	Vol.	3403	45	TM251-SS16			3041	25/13	2N518						11	6K7, 6A8, 6J7, 6H16, 6C5, 6F6, 80	465 9-9,12	
A9757, A9758	Vol.	3403	45	TM251-SS16			1693	20	BB12						11	6K7, 6A8, 6J7, 6H16, 6C5, 6F6, 80	465 9-9,12	
A9757, A9758	Vol.	3403	45	TM251-SS16			1110	13	BB160						11	6K7, 6A8, 6J7, 6H16, 6C5, 6F6, 80	465 9-9,12	
A9760, A9761, A9762	Vol.	2239	18	MR48											4	1C6, 34, 1F6, 33, 5E1	465 9-15,16	
A9768, A9769, A9770	Vol. Tone	2239, 2199	45	MR48			3060	1	2N518		3069	245A	C3		7	6A7, 215, 76, 6G5, 19	465 9-7,8	
A9768, A9769, A9770	Vol. Tone	2239, 2199	45	K12	6		1693	15	BB12						7	6A7, 215, 76, 6G5, 19	465 9-7,8	
A9768, A9769, A9770	Vol. Tone	2239, 2199	45	K12	6		.01-.01		Buffer	B14					5	6A7, 6D6, 75, 42, 80	456 8-5	
A9775	Vol. Tone	P680	18	N			8-4	1	2S567						5	6A7, 6D6, 75, 42, 80	456 8-5	
A9776, A9777, A9778	Vol. Tone	P682	44	SHP275	7		8-8	1	2N518		P402	245C	C3	6	1C6, 34, 30, 32, 19	456 8-6		
A9776, A9777, A9778	Vol. Tone	P682	44	L			.01-.01		Buffer	B14					6	1C6, 34, 30, 32, 19	456 8-6	
A9780, A9781 (Ch. B-6)	Vol. Tone	P801, P828	15	UM163-SS3	M26		P1293	4	2S567	B33	P1414	850	C3	6	6D6, 75, 41, 84, 6A7	175 10-2		
A9780, A9781 (Ch. B-6)	Vol. Tone	P801, P828	15	MR39			P1312	15	BB11						6	6D6, 75, 41, 84, 6A7	175 10-2	
A9782, A9783	Vol. Tone		45	UM154		A96	.0075	23	Buffer	B14					7	6D6, 6A7, 6K7, 6H16, 6C5, 6V6G1, 84	175 8-7	
A9782, A9783	Vol. Tone		45	UM154		A96	.0075	23	2S567	B33	294		C3	7	6D6, 6A7, 6K7, 6H16, 6C5, 6V6G1, 84	175 8-7		
A9784	Vol. Tone	P1408	17	UM161-SS12	M26		6-8	1	2N518	B14		294	C3	8	6D6, 6A7, 6K7, 6H7, 6C5, 6V6G1, 0Z4	175 10-3		
A9784	Vol. Tone	P1408	17	UM161-SS12	M26		.0075		Buffer	B14					19	6K7, 6A8, 6H16, 6C5, 6G5, 85, 6D6, 42, 45, 25W4, 80, 83	456 9-17,18	
A9785, A9786	Vol. Tone	P1158, P1159	15	TM236-SS1	M26	See Note A3	P1151	14	WE3050						19	6K7, 6A8, 6H16, 6C5, 6G5, 85, 6D6, 42, 45, 25W4, 80, 83	456 9-17,18	
A9785, A9786	Vol. Bass	P1158, P1211	22	L			P1155	3	ST596						19	6K7, 6A8, 6H16, 6C5, 6G5, 85, 6D6, 42, 45, 25W4, 80, 83	456 9-17,18	
A9785, A9786	Vol. Bass	P1158, P1211	22	MR48			P1156	2/3	WE3050						19	6K7, 6A8, 6H16, 6C5, 6G5, 85, 6D6, 42, 45, 25W4, 80, 83	456 9-17,18	
A9785, A9786	Vol. Bass	P1158, P1211	22	MR48			P950	13	2N518						19	6K7, 6A8, 6H16, 6C5, 6G5, 85, 6D6, 42, 45, 25W4, 80, 83	456 9-17,18	
A9788, A9789	Vol. Tone	P1158, P1159	15	TM236-SS1	M26		P1043	13	BB60						11	6K7, 6A7, 6H16, 6G5, 6C5, 6F6, 80	456 9-19	
A9788, A9789	Vol. Tone	P1158, P1159	15	L			P304	15	BB11						11	6K7, 6A7, 6H16, 6G5, 6C5, 6F6, 80	456 9-19	
A9809	Vol.		18	MR48			P1151	14	WE3050						4	6A7, 34, 1B5, 41	456 10-4	
A9809	Vol.		18	MR48			P1155	1	ST596						4	6A7, 34, 1B5, 41	456 10-4	
A9809	Vol.		18	MR48			P1156	1	WE3050						4	6A7, 34, 1B5, 41	456 10-4	
A9809	Vol.		18	MR48			8-4	15	2N518						4	6A7, 34, 1B5, 41	456 10-4	
A9809	Vol.		18	MR48			10	1	BB12						4	6A7, 34, 1B5, 41	456 10-4	
A9809	Vol.		18	MR48			10	1	BB12						4	6A7, 34, 1B5, 41	456 10-4	
A9811	Vol. Tone		18	MR48			.01	1	Buffer	B14					6	1C6, 34, 30, 19	465 10-4	
A9811	Vol. Tone		22	L		See Note A5	8-4	1	2N518		Order from Mfr.				6	1C6, 34, 30, 19	465 10-4	
A9811	Vol. Tone		22	L		See Note A5	10	1	BB12						6	1C6, 34, 30, 19	465 10-4	
A9820 (Ch. B-102)	Vol. Tone		18	N	6	EC240	.01-.01	4	Buffer	B14					6	6K7, 6A8, 6Q7, 6F6, 0Z4	262 10-5	
A9825	Vol.	3171	6	H12	6	EX250	8-8	27	CM172	B3	294		C3	6	6K7, 6A8, 6Q7, 6F6, 0Z4	262 10-5		
A9825	Vol.	3171	6	H12	6	EX250	.01		Buffer	B14					4	6D6, 6C6, 43, 25Z5, L55B	262 10-5	
A9825	Vol.	3171	6	H12	6	EX250	3013	27	2P549						4	6D6, 6C6, 43, 25Z5, L55B	262 10-5	
A9826, A9828	Vol.	2239	18	MR48											4	1C6, 34, 1F6, 33, 5E1	465 9-15,16	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CO A9830, A9831.....	RP.—Co Vol. Tone	ntinued													11	6K7, 6L7, 6J7, 6H6, 6C5, 6G5, 6F6, 5Z3	465	9-21,22
		2699.....	45	TM228-SS16				3167.....	25	WE3050.....								
		2700.....	22	K12.....	6			1476.....	25	RS216.....								
								1110.....	13	BB60.....								
A9833 to A9838 incl.	Vol. Tone	2966.....	45	TM234-SS16			3170.....	19	BB13.....			3069.....	245A	C3	8	15, 6A7, 76, 6G5, 19	465	9-23-28
		2965.....	44	MR33.....	M26			8876.....	15	BB12.....								
								3060.....	1	2N518.....								
								3159.....	13	BB40.....								
A9848, A9849 (Chassis 68).....	Vol. Tone	6229.....	45	MR48.....	M26		8876.....	15	BB12.....						6	6A7, 6K7, 6Q7, 6B5, 80, 6G5.....	465	9-29,32
		6223.....	22	MR48.....				.01-.01.....		Buffer.....	B14							
A9848, A9849 (Chassis 266).....	Vol. Tone	6229.....	45	MR48.....	M26		8826.....	1	2N518.....						6	6A7, 6D6, 76, 6F5G, 42, 80.....	465	9-30,32
		6223.....	22	MR48.....														
A9848, A9849 (Chassis 268).....	Vol. Tone	6229.....	45	MR48.....	M26		24-266.....	1/19	3S579.....	B141					6	6A7, 6D6, 76, 6F5G, 42, 80.....	465	9-30,32
		6223.....	22	MR48.....														
A9851 (Ch. B-2).....	Vol.	6229.....	45	MR48.....	M26		19-266.....	1/13	3S584.....	B79					7	6A7, 6K7, 76, 6F5G, 6B5, 80, 6G5.....	465	9-30,32
		6223.....	22	MR48.....														
A9851 (Ch. B-2).....	Vol.	18.....	18	MR48.....	M26		18-6.....	6	2N507.....						5	6A7, 6D6, 75, 43, 25Z5, L49B.....	456	10-6
A9852, A9854.....	Vol. Tone	P1158.....	15	TM236-SS1	M26		P1154.....	14	WE3050.....						11	6K7, 6A7, 6H6, 6G5, 6C5, 6F6, 80.....	456	9-19,20
		P1159.....	44	L.....			P1155.....	1	ST596.....									
A9855, A9856.....	Vol. Tone Bass	P1158.....	15	TM236-SS1	M26		P1156.....	14	WE3050.....						19	6K7, 6A8, 6H6, 6C5, 6G5, 85, 6D6, 42, 45, 5W4, 80, 83.....	456	9-17,18
		P1159.....	22	L.....			P1154.....	1	WE3050.....									
		P1211.....	21	MR48.....			P1155.....	3	ST596.....									
							P1156.....	2/3	WE3050.....									
A9857, A9857E (Ch. A-1).....	Vol. Tone	18.....	18	N.....	6		P950.....	13	2N518.....						5	6A8, 6K7, 6Q7, 6F6, 5W4.....	456	10-7
		34.....	34	†.....		See Note A5	8-4.....	1	2N518.....									
A9861, A9862, A9863, A9864, A9865, A9866 (Ch. M-5).....	Vol. Tone	18.....	18	N.....	7		8-8.....	1	2N518.....			245C	C3	7	1C6, 34, 30, 19.....	456	10-8	
		22.....	22	O.....			.01-.01.....		Buffer.....	B14								
A9870 (Chassis Z3).....	Vol. Tone	45.....	45	MR48.....	M26		8-4.....	1	2N518.....						6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4.....	456	8-9
		34.....	34	†.....		See Note A3												
A9880.....	Vol. Tone	P801.....	17	UM163-SS3	M26		P795.....	4	CM172.....			P816.....	294	C3	6	6D6, 6A7, 6K7, 75, 6F6, 84.....	175	8-10
		P828.....	22	MR39.....			G864.....	15	BB12.....									
A9891 (Ch. AM-4).....	Vol. Tone	15.....	15	O.....			.0075.....	1	WE3050.....						12	6K7, 6A8, 6H6, 6C5, 6G5, 6L6, 5W4.....	456	10-9
		44.....	44	K12.....			25.....	1	WE1250.....									
A10500, A10501 (Ch. 5Z).....	Vol.	P1515.....	18	MR53.....	M26		30.....	14	WE3050.....						5	6A7, 6D6, 75, 41, 80.....	456	10-10
							5.....	15	BB12.....									
A10510, A10511, A10512, A10513 (Ch. 8K).....	Vol. Tone	P1821.....	140	TM236-SS1	M26		P1511.....	23	RM262.....						8	6A7, 6D6, 75, 76, 74Z, 80.....	456	10-11
		P1822.....	140	UM160-SS1			P1825.....	1/13	3S584.....									
A10515, A10516, A10517, A10518 (Ch. 8T).....	Vol. Tone	P1821.....	140	TM236-SS1	M26		P1873.....	15	BB12.....						7	6A7, 6D6, 75, 76, 74Z, 25Z5, 17AJ.....	456	10-11
		P1822.....	140	UM160-SS1			20-25.....	1	2N514.....									
A10700, A10701.....	Vol.	P3961.....	18	UM161.....	M27	A96	P3971.....	1/12	FPQ409.....						5	1A7, 1N5, 1H5, 3Q5, 117Z6.....	455	
A10702.....	Vol.	P3746.....	18	UM154.....	M26	A96	P3792.....	24/13	TN129.....						5	12A8, 12SK7, 12SQ7, 50L6, 35Z5.....	455	
A10703, A10704.....	Vol.	P3346.....	18	Order from	Mfr.		P3355.....	24	2N514.....						5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455	
A10705, A10706, A10707.....	Vol.	P3746.....	18	UM154.....	M26	A96	P3355.....	24	2N514.....						5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5.....	455	
A10708, A10709, A10710.....	Vol.	P3746.....	18	UM154.....	M26	A96	P3792.....	24/13	TN129.....						5	12A8, 12SK7, 12SQ7, 50L6, 35Z5.....	455	
A10711, A10712, A10713.....	Vol.	P3930.....	18	UM154.....	M26	A96	P3935.....	1	FPD211.....						6	12SK7, 12SA7, 12SQ7, 50L6, 35Z5.....	455	
A10715, A10716, A10717.....	Vol. Tone	18.....	18	UM154.....	M26	A96	20-20.....	1	2N509.....						6	12SK7, 12SA7, 12SQ7, 35L6, 35Z5.....	455	
		22.....	22	UM154.....			A96	20.....	15	BB15.....								
A10718.....	Vol. Tone	P3335.....	18	MK401.....	M26		10-10.....	1	FPD231.....						7	6A7, 6D6, 75, 76, 74I, 80.....	455	
		P3337.....	22	MK401.....														
A10719.....	Vol. Tone	P3335.....	18	MK401.....	M26		P3419.....	1	FPD231.....						7	6A7, 6D6, 75, 76, 74I, 80.....	455	
		P3337.....	22	MK401.....														
A10720, A10721.....	Vol. Tone	P3471.....	45	MK401.....			20-15.....	25, 13	FPD234.....						11	6A8G, 6K7G, 6J5G, 6F6G, 5Z3.....	455	
		P3472.....	45	Order from	Mfr.		25.....	1	WE3050.....									

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CO	RP.—Continued																	
A10724	Vol.	P2321	18	UM154-SS3	M26			P2329	23	CM172		P1414	850	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	456	
A10725	Vol.		15	UM161	M27	A96		P3971	1	FIQ409	B14				6	1N5, 1A7, 1H5, 3Q5, 117Z6	455	
A10731, A10732	Vol.	N2876	18	UM154-SS18	M26			N2915	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	
A10733, A10734, A10735	Vol.	N2087	18	UM154-SS22	M26			N2015	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	
A10736, A10737	Vol.	N1537	6	UM129-SS18		EX206		N1850	24/15	3N534					4	12K7GT, 12J7GT, 50L6GT, 35Z5GT	456	
A10739	Vol. Tone	N2411 N2435	106 106	MR48 UM160-SS1	M26			30-30-20 N2436	1/15 1	See Note BB26	B3				6	6A8GT, 6K7GT, 6Q7GT, 25C6G, 25Z6G	456	
A10740	Vol. Tone	N2163 N2157	18 22	MR48 MR28	M26			N2206	24	2N514					6	12A8GT, 12K7GT, 12J5GT, 12Q7GT, 35L6GT, 35Z5GT	456	
A10741	Vol. Tone	N2282 N2281	17 44	MR53 UC510	M26			N2283	1	FPD225	B3				7	6A8G, 6K7G, 6Q7G, 6K6G, 6J5G, 80	456	
A10745	Vol.	N2070	18	UM154-SS18	M26			N2015	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	
A10748	Vol.	N2623	18	UM161		See Note A96		N2748	24/12	FPT304					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	456	
A10750, A10751	Vol. Tone	N2482 N2483	45 1	TM240-SS1 UC513				N2459 N2460	25 25	BB64 BB64					12	6A8GT, 6SK7, 776, 6P6G, 80	456	
A10755	Vol. Tone	N2411 N2435	106 106	MR48 UM160-SS1	M26			30-30-20 30	10/15 10	See Note BB26	B3				7	6A8GT, 6K7GT, 6Q7GT, 6U5/6J5, 25C5G, 25Z6G	456	
A10760	Vol.	N1238	18	UM154		See Note A96		N1369 008-008	24/15	TN136 Buffer	B14	N1236	264	C3	4	6A8GT, 6K7GT, 6Q7GT, 6K6GT	456	
A10765	Vol.	4839	18	MK401	M26			10625	4	BB41					6	6SA7, 6SK7, 6SQ7, 6P6G, 6U5, 5Y4G	455	
A10766	Vol.	4839	18	MK401	M26			10625	4	BB41					6	6SA7, 6SK7, 6SQ7, 6P6G, 6U5, 5Y4G	455	
A10768, A10769, A10770, A10771, A10772, A10773, A10774	Vol. Tone	11434 11435	20 1	TM251-SS22		See Note A19		11324	1	FPD234					8	6SA7, 6SK7, 6SQ7, 6K6G, 6SF5, 5Y4G, 6AB5	455	
A10775	Vol. Tone	10441 11098	15 22	MK401 Order from Mfr	M27			1693	19	BB12					5	1A7G, 1N5G, 1H5G, 1A5G	455	
A10777, A10778	Vol. Tone	4871 4872	45 22	UM154-SS22 UM133-SS22	M26			11150 1693	1 15	FPT359 BB12	B8	3698	245A	C3	6	6I8G, 687, 6L5G, 6T7G, 6G6G, 6U5	455	
A10780	Vol. Tone		20 1			See Note A19		20-20 8	1 13	FPD234 BB31	B14				12	6K8, 6SK7, 6L16, 6C5, 6SF5, 6K6G, 6A15, 5Y4G	455	
A10782, A10783	Vol. Tone	4871 10148	18 22	UM154-SS22 K12				11150 1693	1 15/19	FPT359 BB12	B8	4105	294	C3	5	6I8G, 687, 6T7G, 6G6G, 6ZY5G	455	
A10785	Vol.	4803	18	MK401	M23			1693	19	BB12	B14				4	1A7G, 1N5G, 1H5G, 1A5G	455	
A10786	Vol.	11132	18	MK401	M27			1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	
A10787	Vol.	4803	18	MK401	M23			1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	
A10788, A10790, A10792	Vol. Tone	10141 11098	45 22	MK401 Order from Mfr	M27			1693	19	BB12					6	1A7G, 1N5G, 1A5G, 1H5G	455	
A10793, A10794	Vol. Tone	4871 4872	18 44	UM154-SS22 UM133-SS22	M26			11080 1693	12 19	BB19 BB12					6	6K8, 6SK7, 6SQ7, 6J5G, 25L6G	455	
A10795	Vol.	10441	18	MK401	M27			11493 9196	1 19	FPT214 BB15					5	1A7G, 1N5G, 1H5G, 1A5G, 35Z5G	455	
A10798	Vol.	17-14536	18	UM154-SS12				17-14297	24/19	FPT328		17-14747	850	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	455	
A10799	Vol. Tone	17-14536 17-14505	18 34	UM157-SS12 UM143-SS12				17-14299 .005	24/19	FPT332 Buffer	B14	17-14747	850	C3	6	6SK7, 6A8, 6Q7G, 6V6G, 6X5G	170	
A10800, A10801, A10802	Vol.	N2087	18	UM154-SS22	M26			N2015	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	
A10803, A10804, A10805	Vol.	N2173	6	UM128-SS22	M26	EX350		N2174	24/15	3N534					4	12A8GT, 12S7GT, 50L6GT, 35Z5GT	456	
A10806, A10807	Vol.	N1537	6	UM129-SS18	M26	EX200		N1850	24/15	3N532					4	12K7GT, 12J7GT, 50L6GT, 35Z5GT	456	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CO	RP.—Continued																	
A10810	Vol.	N2223	127	MR53	M26			N2224	4	2S567					5	6A8G, 6K7G, 6Q7G, 6K6G, 80	456	
A10811	Vol.	N2070	18	UM154-SS18	M26			N1366	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	
A10812	Vol. Tone	N2163 N2157	18 22	MR48 MR28	M26			N2206	24	2N514					6	12A8GT, 12K7GT, 12J5GT, 12Q7GT, 35L6GT, 35Z5GT	456	
A10813	Vol.	N2257	18	MR48	M26			N2015	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	
A10814	Vol. Tone	N2282 N2281	17 44	MR48 UC510	M26			15-10	1	FPI225	B3				7	6A8G, 6K7G, 6Q7G, 6K6G, 6J5G, 80	456	
A10815	Vol. Tone	N2411 N2435	108 106	MR48 UM160-SS1	M26			30-30-20 N2436	10/15 10	See Note BB26	B3				6	6A8G, 6K7GT, 6Q7GT, 25C6G, 25Z6G	456	
A10818	Vol.	V-20	18	MK401	M26			C236 .01-.01	46	FPT360 Buffer	B14	F-4	246	C3	4	6A8G, 6K7, 6Q7G, 6G6G	456	
A10818A	Vol.	4839	18	MK401	M26			4841 1693 .03	24 15	2N509 BB12 Buffer		3698	245A	C3	4	6D8G, 6S7, 6T7G, 6G6G	455	
A10820, A10821	Vol. Tone	N2482 N2483	45 1	TM240-SS1 UC513				N2459 N2460	25 25	BB64 BB64					12	6A8GT, 6SK7, 76, 36F6G, 80	456	
A10822	Vol.	N1238	18	UM154		See Note A96		N1369	24/15	TN136 Buffer	B14	N1236	264	C3	4	6A8GT, 6K7GT, 6Q7GT, 6K6GT	456	
A10825	Vol. Tone	N2411 N2435	106 106	MR48 UM160-SS1	M26			.008-.008 30-30-20 N2436	10/15 10	See Note BB26	B3				7	6A8GT, 6K7GT, 6Q7GT, 6U5/6G5, 25C6G, 25Z6G	456	
A10826	Vol.	N1738	18	MK401	M27			N1367	12	BB21					4	1A7G, 1N5G, 1H5G, 1C5G	456	
A10830, A10831	Vol.		18	UM154	M26		A96	30-20	24	2N514					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	
A10832	Vol.		18	UM154	M26		A96	20-30	24	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	
A10833, A10834, A10835	Vol. Tone		18 22	UM154 UM154	M26		A96	20-20	1	2N509					6	6A7, 6D6, 75, 25L6, 25Z5	455	
A10836	Vol. Tone		18 22	UM154 UM154	M26		A96	10-10	1	FPI231					7	6A7, 6D6, 75, 76, 34I, 80	455	
A10837	Vol. Tone		18 22	UM154 UM154	M26		A96	10-10	1	FPI231					7	6A7, 6D6, 75, 76, 34I, 80	455	
A10840	Vol.	P3099	18	MR48	M26		A96	20-20	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5, 1A9B	456	
A10841, A10842	Vol.	P2935	18	MR53	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5, 1A9B	455	
A10844	Vol. Tone		18 22	UM154 UM154	M26		A96	10-10	1	FPI231					7	6A7, 6D6, 75, 76, 34I, 80	455	
A10845, A10846	Vol. Tone		45 1	UM154 UM154		See Note A96		25	25	WE3050					11	6A8G, 6K7G, 6J5G, 36F6G, 5Z3	455	
A10848	Vol.		18	UM154	M27		A96	20-15 4	25/13 12	FPI234 BB20					4	1A7G, 1N5G, 1H5G, 1Q5G	455	
A10851	Vol.	P2321	18	UM154-SS3	M26			P2329 .006	23	CM172 Buffer	B14	P1414	850	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	456	
A10852	Vol. Tone	P1371 P828	18 22	UM154-SS3 MR39	M26			P1293 .0075	23	2S567 Buffer	B14	P1414	850	C3	6	6K7, 6A8G, 6Q7G, 6K6G, 6X5G	175	
A10855	Vol.		18	UM161	M27		A96	20-30 40	1 1	2N514 BB17					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 70L7GT	455	
A10865	Vol.	4839	18	MK401	M26			10625	4	BB61					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y4G	455	
A10866, A10867, A10868	Vol. Tone	11434 11435	20 1	TM251-SS22 TM248-SS22	M26			11324	1	FPI234					8	6SA7, 6SK7, 6SQ7, 36K6G, 6SP5, 6AB5, 5Y4G	455	
A10871	Vol. Tone	4871 10148	18 22	UM154-SS22 K12				11150 1693 .02	1 15/19	FPT359 BB12 Buffer	B8 B14	4105	294	C3	5	6D8G, 6S7, 6T7G, 6C6G, 6ZY5G	455	
A10873	Vol.	10441	18	MK401	M27			11493 9196	1 1	FPI214 BB15					5	1A7G, 1N5G, 1H5G, 1A5G, 35Z5GT	455	
A10875	Vol.	4839	18	MK401	M26			10625	4	BB61					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y4G	455	
A10876	Vol.	4839	18	MK401	M26			10625	4	BB61					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y4G	455	
A10877	Vol. Tone		20 1			See Note A19		20-20 8	1 13	FPI234 BB21					11	6K8, 6SK7, 6116, 36C5, 36SP5, 36K6G, 5Y4G	455	
A10878	Vol. Tone	4871 4872	18 44	UM154-SS22 UM133-SS22				11080 1693	12 19	BB19 BB12					6	6K8, 6SK7, 6SQ7, 6J5G, 25L6G	455	
A10879, A10880	Vol.	4803	18	MK401	M23			1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CO A10882	RP.—Continued Vol.	11132	18	MK401	M27			1693	19	BB12				4	1A7G, 1N5G, 1H5G, 1A5G	455		
A10884	Vol. Tone	10441	18	MK401	M27			1693	19	BB12				5	1A7G, 1N5G, 1H5G, 1A5G	455		
A10885	Vol. Tone	10441	18	MK401	M27			11502	4	2N514	B8			5	1A7G, 1N5G, 1H5G, 1A5G, 25Z6G	455		
A10886, A10887, A10888	Vol. Tone	10441	45	MK401	M27			1693	19	BB12				6	1A7G, 1N5G, 1A5G, 1H5G	455		
A10889	Vol.	10772	18	MK401	M27			1693	19	BB12				4	1A7G, 1N5G, 1H5G, 1Q5G	455		
A10890	Vol. Tone	4871	45	UM154-SS22	M26			11150	1	FP1359	B8	3698	245A	6	6D8G, 6S7, 6L5G, 6T7G, 6G6G, 6AB5	455		
A10892, A10896	Vol.	11132	18	MK401	M27			1693	19	BB12				4	1A7G, 1N5G, 1H5G, 1A5G	455		
A10897	Vol. Tone	10441	18	MK401	M27			1693	19	BB12				5	1A7G, 1N5G, 1H5G, 1A5G	455		
A10898	Vol. Tone	10441	18	MK401	M27			11502	4	2N514	B8			5	1A7G, 1N5G, 1H5G, 1A5G, 25Z6G	455		
A10899	Vol. Tone	4871	18	UM154-SS22	M26			11508	4	FP1214	B8			6	6K8, 6SK7, 6SQ7, 6J5G, 25L6G	455		
B6-30	Vol.	4872	44	UM133-SS22	M26			1693	15	BB12				6	31, 32	455	3-3	
B10500	Vol. Tone	215	18	MR48		See Note A1		1703	23	2S567				6	6A8, 6D6, 6Q7, 6G5, 41, 80	465		
B10501	Vol. Tone	304A	34	MR48		See Note A3		1703	23	2S567				5	6A7, 6D6, 75, 41, 80	465	11-1	
B10502, B10503, B10504, B10505, B10506, B10507	Vol.	217	6			See Note A3		16-12	4	2P546				4	6D6, 6C6, 25L6, 25Z5, L49C	465	11-1	
B10508	Vol.	215	18	MR48		See Note A3		16-12	4	2P546				6	6A7, 6D6, 6G5, 25L6, 25Z5, 75	465	11-1	
B10509	Vol.	217	6			See Note A3		16-12	4	2P546				4	6D6, 6C6, 25L6, 25Z5, L49C	465	11-1	
B10510, B10511, B10512	Vol. Tone	215	45	MR48		See Note A3		16-12	27	2P546				7	6A8, 6D6, 76, 6K5, 25L6, 6G5, 25Z5	465		
B10514	Vol. Tone	304A	22	MR48		See Note A3		10	15	BB12				6	6A8, 6D6, 6Q7, 6G5, 41, 80	465		
B10515, B10516, B10517, B10518	Vol. Tone	218	17			See Note A19		12	1	ST596				9	6K7, 6A8, 6Q7, 6C5, 6C5, 6F6, 5Y3	465	11-3	
B10520, B10521	Vol.	216	18	N	7			8-8	1	2N517			See Note C8	4	1C7, 1D5, 1H6, 1G5	456	11-3	
B10522	Vol. Tone	215	18	MR48		A3		.01-.01	23	2S567	B14			6	6A8, 6D6, 6Q7, 6G5, 41, 80	465		
B10525, B10526	Vol. Tone Bass	P1989	34	Order from Mfr.				P1993	30	WE3050				16	6K7G, 6L7G, 6H16G, 6J5G, 6J7G, 6L6G, 75Z3	456	11-3	
B10527	Vol. Tone	218	20			See Note A19		P1994	30	WE1250				9	6K7, 6A8, 6Q7, 6C5, 6F6, 6G5, 5Y3	465	11-3	
B10530, B10531	Vol.	P1555	18	N	6			P1992	30	WE3035				5	6A7, 6D6, 75, 25B6G, 25Z5	456		
B10533, B10534	Vol.	P1515	18	MR53	M26			P1997	13/14	2N516				7	6A7, 6D6, 75, 41, 80	456		
B10535	Vol. Tone	P1719	80	TM227-SS1	M26			12	1	ST596				5	6A7, 6D6, 75, 41, 80	456		
B10536	Vol. Tone	P1750	80	O				18	1	ST597				7	6A7, 6D6, 76, 75, 6U5, 42, 80	456	12-4	
B10537, B10538, B10539	Vol. Tone	P1579	18	N	6			10	15	BB12				5	6A7, 6D6, 75, 41, 80	456		
B10540, B10541, B10542	Vol. Tone	P1916	140	TM240-SS1	M26			P1937	46	WE3050				11	6A8, 6K7, 6J5, 6J7, 6F6, 5Z3	456		
B10543, B10544	Vol. Tone	P1917	140	UM160-SS1	M26			P1939	46	2S567	B82			8	6A7, 6D6, 76, 75, 42, 80	456		
B10545, B10546, B10547, B10548, B10549	Vol. Tone	P1821	110	TM236-SS1	M26			P1825	46	3S584	B87			5	1A6, 1A4, 30, 1G5G, 1B1	456	12-5	
B10550	Vol. Tone	P1822	110	O				P1783	15	BB12				6	6D8G, 6S7G, 6T7G, 30, 19	456	11-4	
B10551	Vol. Tone	P1579	56	N	6			P1783	19	BB12				6	6D6, 6A7, 75, 41, 84	175	12-6	
B10552	Vol. Tone	P1642	22	L				P1591	23	2S567				7	6D6, 6A7, 6K7, 6H16, 6C5, 6V6G, 84	175		
	Vol. Tone	P1677	18	N	7			P958	1	2N518		P402	245C	C3	6D8G, 6S7G, 6T7G, 30, 19	456	11-4	
	Vol. Tone	P1764	44	L				.01-.01	4	2S567	B14			C3	6D6, 6A7, 75, 41, 84	175	12-6	
	Vol. Tone	P801	18	UM163-SS3	M26			P1293	4	2S567	B33	P816	294	C3	6D6, 6A7, 75, 41, 84	175	12-6	
	Vol. Tone	P828	22	MR39				.0075		Buffer	B14			C3	6D6, 6A7, 6K7, 6H16, 6C5, 6V6G, 84	175		
	Vol. Tone	P1371	45	UM154-SS3	M26			P1293	23	2S567	B33	P1414	850	C3	6D6, 6A7, 6K7, 6H16, 6C5, 6V6G, 84	175		
	Vol. Tone	P1371	45	Order from Mfr.				.0075		Buffer	B14			C3	6D6, 6A7, 6K7, 6H16, 6C5, 6V6G, 84	175		
	Vol. Tone	P1371	45	UM154-SS3	M26			P1293	23	2S567	B33	P1414	850	C3	6D6, 6A7, 6K7, 6H16, 6C5, 6V6G, 84	175		
	Vol. Tone	P1371	22	Order from Mfr.				.0075		Buffer	B14			C3	6D6, 6A7, 6K7, 6H16, 6C5, 6V6G, 84	175		

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CO	RP—Co	ntinued																
B10553	Vol. Tone	P1677 P1764	18 41	N L	7			P958 .01-.01	1	2N518 Buffer	B14	P402	215C	C3	6	6D8G, 6S7G, 6T7G, 30, 19	456	11-4
B10560, B10561	Vol. Tone	2775 3545	15 22	MR48 K12	M26			3718	1	2N518					7	6A7, 6D6, 76, 75, 41, 6G5, 80	465	12-7,8
B10562, B10563	Vol. Tone	2775 3545	17 22	MR48 K12	M26			3041	1	2N518					5	6A7, 6D6, 75, 41, 80	465	
B10565, B10566, B10567, B10568	Vol. Tone	4078 2199	17 44	TM251-SS16 K12	6			3718 1108	1 13	2N518 BB60					8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, 6K6G, 5Y4G	465	11-5,6 12-32, 34
B10570	Vol. Tone	2775 3545	18 22	MR48 K12	M26			3041	1	2N518					6	6A7, 6D6, 75, 6G5, 41, 80	465	
B10572	Vol. Tone	3761 2199	15 22	UM154-SS16 K12	6			3718 1693	1 15	2N518 BB12					7	6A7, 6D6, 76, 75, 41, 80, 6G5	465	12-9,10 12-32,34
B10575	Vol. Tone	3671 3545	18 22	MR48 K12				4096 1693	1 15	2N518 BB12		4105	294	C3	5	6DB8, 6S7G, 6T7G, 41, 6ZY5G	465	12-11, 12
B10577, B10578	Vol.	4144	18	MR48	M26			.02 4140	23	Buffer 2S567	B14				5	6A8G, 6K7G, 6Q7G, 6K6G, 5Y4G	465	11-7,8
B10579	Vol. Tone	4408 4409	17 22	MR48 K12	6			3718	1	2N518					6	6A7, 6D6, 75, 41, 80, 6G5	465	11-9,10
B10580, B10581, B10582	Vol.	3403	20	TM251-SS16				3167 3041 1693	46 46 20	WE3050 2N518 BB12					11	6K7, 6A8, 6J7, 6H6, 6C5, 6F6, 80	465	11-13, 14
B10585, B10586	Vol. Tone	3761 2199	15 22	UM154-SS16 K12	6			1110 3718 1693	13 1 15	BB60 2N518 BB12					7	6A7, 6D6, 76, 75, 41, 80, 6G5	465	12-9, 10, 32-34
B10588, B10589, B10590, B10591, B10592, B10593, B10595, B10596	Vol. Tone	2239	17	MR48				3150 1693	12 19	ST587 BB12					6	1C6, 34, 1F6, 30	465	11-16,17 12-32,34
B10600, B10601, B10602, B10603, B10604, B10605	Vol. Tone	3761 2199	15 22	UM154-SS16 K12	6			3060 1693 .03	1 15	2N518 BB12 Buffer	B14	3698	245A	C3	7	6D8G, 6S7G, 6N5, 19, 6L5G	465	12-13, 14 32-34
B10606, B10607, B10608, B10609, B10610, B10611	Vol.	4186	15	TM251-SS16				4188 1693 .03	1 15	2S568 BB12 Buffer	B14	3698	245A	C3	8	6S7G, 6D8G, 6L5G, 19, 6N5	465	12-15, 16
B10612, B10615, B10617	Vol. Tone	3761 2199	17 22	UM154-SS16 K12	6										6	6A7, 6D6, 75, 76, 348	465	12-17,18
B10702	Vol.	221	18	MR48	M26			16-12	27	2P546					6	6A7, 6D6, 6Q7, 25A6, 25Z5, 6U5, L49B	465	11-12
B10704, B10705	Vol. Tone	221 305	18 44	MR48	M26	See Note A5		1727	1	2N506					8	6A7, 6D6, 6Q7, 76, 343, 25Z5, 6U5	465	12-19
B10706, B10707	Vol.	221	18	MR48	M26	See Note A5		16-12	27	2P546					6	6A7, 6D6, 6Q7, 25A6, 25Z5, 6U5, L49B	465	11-12
B10708, B10709, B10710	Vol. Tone	221 305	45 34	MR48	M26	See Note A5		32 12	27 27	BB26 BB22					7	6A7, 6D6, 6K5, 76, 25A6, 25Z5, 6U5	465	12-20
B10713, B10714, B10715	Vol. Tone	221 305	45 34	MR48	M26	See Note A5		1703	23	2S567					7	6A7, 6D6, 76, 6U5, 6K5, 41, 80	465	12-21
B10750	Vol. Tone	P2271 P2093	18 ↓	Order from MK401	Mfr. M26	See Note A5		10-5	23	2S567					6	6A7, 6D6, 75, 41, 76, 80	456	11-18
B10760, B10761, B10762	Vol. Tone	P2271 P2093	18 ↓	Order from MK401	Mfr. M26	See Note A5		10-5	23	2S567					6	6A7, 6D6, 75, 41, 76, 80	456	11-18
B10770, B10771	Vol. Tone	P2271 P2093	18 ↓	Order from MK401	Mfr. M26	See Note A5		10-5	23	2S567					6	6A7, 6D6, 75, 41, 76, 80	456	11-18
B10782	Vol. Tone	P2136 P2137	18 34	Order from L	Mfr. 7			P2140 .015	1/15	3S579 Buffer	B14	P2147	850	C3	6	6I8G, 6S7G, 6T7G, 6G6G, 6L5G, 6ZY5G	456	11-19
B10784	Vol. Tone	P2136 P2137	18 34	Order from L	Mfr. 7			P2140 .015	1/15	3S579 Buffer	B14	P2147	850	C3	6	6I8G, 6S7G, 6T7G, 6G6G, 6L5G, 6ZY5G	456	11-19
B10786	Vol. Tone	P2136 P2137	18 34	Order from L	Mfr. 7			P2140 .015	1/15	3S579 Buffer	B14	P2147	850	C3	6	6I8G, 6S7G, 6T7G, 6G6G, 6L5G, 6ZY5G	456	11-19
B10790	Vol.	P2321	18	UM154-SS3	M26			P2329 .006	23	CM172 Buffer	B14	P1414	850	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	456	11-20
B10791	Vol. Tone	P1371 P828	18 22	UM154-SS3 MR39	M26			P1293 .0075	23	2S567 Buffer	B14	P1414	850	C3	6	6K7, 6A8G, 6Q7G, 6K6G, 6X5G	175	11-21
B10799	Vol. Tone	V20 V15	18 ↓	MR53 MR48	M26			C239	1/13	FPT370					7	6K8, 6K7, 6Q7G, 6J5G, 25A6G, 25Z6G	456	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CO E9830	RP.—Co Vol. Tone	continued	45	M.....				8-8	4	2S567	B33				8	47,56, 57,58, 80	177.5	3-12
E9831	Vol. Tone		45	M.....				8, 8	4	ST595	B3				10	56, 57,58,747, 80	177.5	3-13
E10700, E10701	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N512					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT		
E10704	Vol.	V20	18	MR53	M26			C237	46	FPT357					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G, K49B		456
E10705	Vol. Tone	V22 V109	45 22	TM227-SS1 MR28	M26	See Note A90		C237	46	FPT357					7	6A8G, 6J5G, 6K7, 6F6G, 25L6G, 25Z6G		456
E10706	Vol. Tone	V22 V109	45 22	TM227-SS1 MR28	M26	See Note A90		C237	46	FPT357					7	6A8G, 6K7, 6F6G, 6J5G, 25L6G, 25Z6G		456
E10707	Vol. Tone	V20 V15	18 1	MR53 MR48	M26			C239	1/13	FPT370					7	6K8, 6K7, 6Q7G, 6J5G, 25L6G, 25Z6G, BK17E1		456
E10708	Vol. Tone	V20 V15	18 1	MR53 MR48	M26			C239	1/13	FPT370					7	6K8, 6K7, 6Q7G, 6J5G, 25L6G, 25Z6G, BK17E1		456
E10709	Vol. Tone	V13 V15	18 1	MR48 MR48	M26			C241	6	FDP221	B117				7	6K8, 6K7, 6Q7G, 6J5G, 25L6G, 25Z6G, BK17E1		456
E10710	Vol. Tone	V13 V15	18 1	MR48 MR48	M26			C241	6	FDP221	B117				7	6K8, 6K7, 6Q7G, 6J5G, 25L6G, 25Z6G, BK17E1		456
E10711	Vol. Tone	V22 V111	124 22	TM227-SS1 MR48	M26			C246 C245 C247	54 54 20	RS215 See Note... BB15	B3				9	6K8, 6K7, 6H6, 6J5, 6F6, 5Y3G		456
E10712	Vol. Tone	V22 V111	124 22	TM227-SS1 MR48	M26			C246 C245 C247	54 54 20	RS215 See Note... BB15	B3				9	6K8, 6K7, 6H6, 6J5, 6F6, 5Y3G		456
E10713	Vol. Tone	N1734 N1735	17 44	UM154 SRP263	M26		A96	N1755	24/13	TN129					7	6K7, 6Q7G, 6A8G, 6J5G, 25L6G, 25Z6G		456
E10714	Vol. Tone	N1734 N1735	17 44	UM154 SRP263	M26		A96	N1755	24/13	TN129					7	6K7, 6Q7G, 6A8G, 6J5G, 25L6G, 25Z6G		456
E10715	Vol.	N1546	18	MR48	M27			N1367	12	BB21					4	1A7G, 1N5G, 1J5G, 1C5G		456
E10716	Vol.	N1504	18	UM154-SS18	M27			N1367	12	BB21					4	1A7G, 1N5G, 1H5G, 1C5G		456
E10718	Vol. Tone	V20 V15	18 1	MR53 MR48	M26			C238	1/19	FPT332					5	6K8, 6K7, 6Q7G, 25A6G, 25Z6G, K49B/165R8C		456
E10719	Vol.	V20	18	MR53	M26			C236	46	FPT360	F-4	246	C3	4	6A8G, 6K7, 6Q7G, 6G6G		456	
E10720	Vol. Tone	V20 V110	18 22	MR48 MR48	M26			C242	1	FDP225	B14	F-4	246	C3	5	6D8G, 6S7G, 6L5G, 1H4G, 1J6G		456
E10721	Vol. Tone	V20 V110	18 22	MR48 MR48	M26			C242	1	FDP225	B14	F-4	246	C3	5	6D8G, 6S7G, 6L5G, 1H4G, 1J6G		456
E10722	Vol. Tone	V22 V109	45 22	TM227-SS1 MR28	M26	See Note A90		C237	46	FPT357	B14				7	6A8, 6J5G, 6K7, 6F6G, 25L6G, 25Z6G		456
E10723	Vol. Tone	V20 V15	18 1	MR53 MR48	M26			C239	1/13	FPT370					7	6K8, 6K7, 6Q7G, 6J5G, 25L6G, 25Z6G, BK17E1		456
E10725	Vol.	N1238	18	UM154		See Note A96		N1369	24/15	TN136		N1236	264	C3	4	6A7GT, 6K7GT, 6Q7GT, 6K6GT		456
E10726	Vol. Tone	V13 V15	18 1	MR48 MR48	M26			C241	6	FDP221	B117				7	6K8, 6K7, 6Q7GT, 6J5G, 25L6G, 25Z6G, BK17E1		456
E10727	Vol. Tone	V20 V110	18 22	MR48 MR48	M26			C242	1	FDP225	B14	F-4	246	C3	6	6D8G, 6S7G, 6L5G, 1H4G, 1J6G, 6T7G		456
E10728	Vol. Tone	V22 V111	124 22	TM227-SS1 MR48	M26			C245 C246 C247	54 54 20	RS215 See Note... BB15	B3				9	6K8, 6K7, 6H6, 6J5, 6F6, 5Y3G		456
E10730	Vol.	P3099	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, 1A9B		456
E10731	Vol.	P3099	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, 1A9B		456
E10732	Vol.	P3099	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, 1A9B		456
E10733	Vol.	P2432A	18	MR48	M26		A58	25-10	1	2N512					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT		456
E10734	Vol.	P2432A	18	MR48	M26		A58	25-10	1	2N512					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT		456

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CORP.—Continued E10735	Vol.	P2432A	18	MR48	M26		A58	25-10	1	2N512					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	
E10736	Vol.	P2935	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	
E10737	Vol.	P2935	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	
E10738	Vol.	P2935	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	
E10740	Vol.	P3082	18	MR48	M26			P3086	1/15	3S581					6	6A7, 6D6, 75, 76, 41, 80	456	
E10741	Vol.	P2817	18	2 Meg.			A19	P2631	1	2S568					8	6A7, 76, 75, 6D6, 74, 80	456	
E10742	Vol.	P2817	18	2 Meg.			A19	P2631	1	2S568					8	6A7, 76, 75, 6D6, 74, 80	456	
E10743	Vol.	P2659	18	2 Meg.			A19	P2631	1	2S568					8	6A7, 6D6, 75, 76, 74, 80	456	
E10744	Vol.	P2705	20	TM251-SS1				P1939	1	2N518					11	6A8G, 6K7G, 6J5G, 6F6G, 5Z3	456	
E10745	Vol.	P2705	20	TM251-SS1				P1937	13	WE3050					11	6A8G, 6K7G, 6J5G, 6F6G, 5Z3	456	
E10746	Vol.	P2935	18	MR48	M26			P1937	13	WE3050					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	
E10747	Vol.	P2935	18	MR48	M26			20-20	1	2N509					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	
E10750	Vol.	P3099	18	MR48	M26			25-10	1	2N512					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456	
E10751	Vol.	P2321	18	UM154-SS3	M26			P2329	23	CM172		P1414	850	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	456	
E10752	Vol.	P1371	18	UM154-SS3	M26			P1293	23	2S567	B14	P1414	850	C3	6	6K7, 6A8G, 6Q7G, 6K6G, 6X5G	175	
E10765, E10765A	Vol.	P828	22	MR39				.0075		Buffer	B14				4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10766, E10766A	Vol.	4803	18	MK401	M23			1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10771, E10772	Vol.	4871	18	UM154-SS22				1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10770	Vol.	4839	18	MK401	M26			4895	4	BB26					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	455	
E10771, E10772	Vol.	4839	18	MK401	M26			10245	25	BB61					5	6A7, 6K7, 6Q7G, 41, 80	455	
E10773, E10774	Vol.	10012	18	MK401				3718	1	2N518					6	6K8, 6K7, 75, 41, 80, 6U5	455	
E10775	Vol.	10013	22	UM133-SS25				1693	15	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10775	Vol.	10441	18	MK401	M27			1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10779, E10780, E10781, E10782	Vol.	4803	18	MK401	M23			1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10783, E10784	Vol.	4871	18	UM154-SS22				1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10785, E10785A	Vol.	4803	18	MK401	M23			1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10786	Vol.	4871	18	UM154-SS22				4096	1	2N518		4105	294	C3	5	6D8G, 6S7G, 6T7G, 6D6G, 6Z5Y5G	455	
E10786	Vol.	4871	18	UM154-SS22				1693	15	BB12					5	6D8G, 6S7G, 6T7G, 6D6G, 6Z5Y5G	455	
E10786	Vol.	4871	18	UM154-SS22				.03-.03		Buffer	B14				5	6D8G, 6S7G, 6T7G, 6D6G, 6Z5Y5G	455	
E10788	Vol.	4871	18	UM154-SS22				4841	24	2N509		3698	245A	C3	6	6K8, 6K7, 6Q7G, 6C5G, 25L6G	455	
E10790	Vol.	4871	18	UM133-SS22	M26			1693	15	BB12					6	6D8G, 6S7G, 6L5G, 6T7G, 6C6G, 6N5	455	
E10790	Vol.	4872	22	UM133-SS22	M26			.03		Buffer	B14				4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10792	Vol.	4803	18	MK401	M23			1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10793	Vol.	4871	18	UM154-SS22				1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10794	Vol.	4871	18	UM154-SS22				4841	24	2N509		3698	245A	C3	6	6K8, 6K7, 6Q7G, 6C5G, 25L6G	455	
E10794	Vol.	4872	22	UM133-SS22	M26			1693	15	BB12					6	6D8G, 6S7G, 6L5G, 6T7G, 6C6G, 6N5	455	
E10795	Vol.	4839	18	MK401	M26			10245	25	BB61					5	6A7, 6K7, 6Q7G, 41, 80	455	
E10797, E10798, E10799	Vol.	10227	124	TM251-SS25				10470	3	WE3050					11	6K7, 6K8, 6Q7G, 6C5G, 25L6G, 6A8G, 6F6G, 5Z3	455	12-22-24
E10800	Vol.	V20	18	MR53	M26			10102	3	2S568					5	6A8G, 6K7G, 6Q7G, 25Z6G, 25L6G, K49B	456	
E10801, E10802	Vol.	V13	18	MR48	M26			C240	24	BB24					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	
E10803	Vol.	V20	18	MR53	M26			C230	18	BB21					5	6A8G, 6K7G, 6Q7G, 25L6G, K49B	456	
E10803	Vol.	V20	18	MR53	M26			C237	46	FPT357					5	6A8G, 6K7G, 6Q7G, 25Z6G, 25L6G, K49B	456	
E10806	Vol.	V20	18	MR53	M26			C238	1/19	FPT332					5	6K8, 6K7, 6Q7G, 25A6G, 25Z6G, K49C/168R8G	456	
E10806	Vol.	V15	18	MR48											5	6K8, 6K7, 6Q7G, 25A6G, 25Z6G, K49C/168R8G	456	

‡ Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CO E10807, E10808, E10809	RP.—Co Vol. Tone	Continued V13..... V15.....	18 †	MR48 MR48	M26			C241	6	FPD221	B117				6	6K8, 6K7, 6Q7G, 25L6G, 25Z6G, BK17E1	456	
E10810, E10811, E10812	Vol. Tone	V20..... V15.....	18 †	MR53 MR48	M26			C239	1/13	FPT370					7	6K8, 6K7, 6Q7G, 6J5G, 25A6G, 25Z6G	456	
E10813, E10814, E10815	Vol. Tone	V22..... V111.....	124 22	TM227-SS1 MR48	M26			C246 C245 C247 C237	54 54 20 46	RS215 See Note BB15 FPT357	B3				9	6K8, 6K7, 6H6, 6J5G, 6F6G, 5Y3G	456	
E10818	Vol.	V20.....	18	MR53	M26										5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G, K49B	456	
E10825, E10826, E10827, E10828, E10829, E10830	Vol. Tone	V20..... V110.....	18 22	MR53 MR48	M26			C242	1	FPD225		F-4	246	C3	6	6D8G, 6S7G, 6T7G, 6L5G, 1H4G, 1J6G	456	
E10831, E10832	Vol.	V20.....	18	MR53	M26			C236	46	FPT360	B14	F-4	246	C3	4	6A8G, 6K7, 6Q7G, 6G6G	156	
E10835, E10836	Vol.	V18.....	18	MR48	M27			C230	12	Buffer BB21	B14				4	1C7G, 1D5GP, 1F7G, 1G5G	456	
E10840, E10841, E10842	Vol.	P2392	18	MR53	M26				23	2S567	B33				5	6A7, 6D6, 75, 41, 5Y3G	456	
E10845, E10846, E10847, E10848	Vol.	P2432A	18	MR48	M26		A58	P2668	1	2N512					5	6A8, 6K7, 6Q7, 25L6, 25Z6	456	12-25
E10850, E10851	Vol. Tone	P2705..... P2706.....	20 †	TM251-SS1 UM160-SS1				P1939 P1937	1 13	2N518 WE3050					11	6A8G, 6K7G, 6J5G, 6F6G, 5Z3	456	12-26,30
E10855, E10856, E10857, E10858	Vol.	P2498	6	MR36	M26			30 10	1 1	BB26 BB22					4	6K7, 6J7, 25L6, 25Z6		11-22
E10860, E10861	Vol.	P2213	6	MR36	M26			P2216	1	2N506					4	6D6, 6C6, 25L6G, 25Z5, 155B0		12-25
E10863, E10864	Vol.	P2213	6	MR36	M26			P2216	1	2N506					4	6D6, 6C6, 25L6G, 25Z5, 155B0		
E10865, E10866, E10867, E10868	Vol.	P2450A	18	MR48	M26			P2456	23	BB61					5	6A7, 6D6, 75, 41, 80	456	11-22
E10870, E10872	Vol. Tone	P2558A P2559A	18 22	MK401 MK401	M26			P2575	25	BB62					7	6A7, 6D6, 76, 75, 41, 80, 6G5	456	
E10874, E10875, E10876, E10877	Vol.	P2659	18				A19	P2631	1	FPD231	B128				8	6A7, 6D6, 76, 75, 41, 80	456	
E10880, E10881	Vol. Tone	P1989..... P1991.....	7/45 21	Order from N.	Mfr.			25 12 4-4	30 30 13/14	WE3050 WE1250 2N518					16	6K7G, 6L7G, 6J7G, 6F6G, 6J5G, 6F8G, 6L6G, 5Z3	456	12-27-30
E10882A, E10883A, E10884A, E10885A, E10886A, E10887A	Vol. Tone	4871..... 10148.....	18 22	UM154-SS22 K12				1096 1693	1 15	2N518 BB12		4105	294	C3	5	6D8G, 6S7, 6T7G, 6G6G, 6Z5Y5G	455	12-31
E10890	Vol.	P2321	18	UM154-SS3	M26			.03-.03 P2329	23	Buffer CM172	B14	P1414	850	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	456	11-20
E10891	Vol. Tone	P1371..... P1828.....	18 22	UM154-SS3 MR39	M26			P1293 .0075	23	2S567 Buffer	B14	P1114	850	C3	6	6K7, 6A8G, 6Q7G, 6K6G, 6X5G	175	11-21
E10893	Vol.	220	6					1733	46/15	FPQ409					4	6D6, 6C6, 43, 25Z5		
E10894	Vol.	221	18	MR48	M26			1733	46/15	FPQ409					6	6A7, 6D6, 6Q7, 25A6, 25Z5, 6I5	465	
E10895	Vol.	221	18	MR48	M26			1732	1/15	FPT316					5	6A7, 6D6, 6Q7, 41, 80	456	
E10896	Vol. Tone	221..... 305.....	127 34	MR48	M26			1733	46/15	FPQ409					7	6A7, 6D6, 76, 6K5, 25A6, 25Z5, 6I5	465	
E10897, E10898, E10899	Vol. Tone	221..... 305.....	18 44	MR48	M26			1736	1	FPD217					8	6A7, 6D6, 6Q7, 76, 6U5, 743, 25Z5	465	
E10900, E10901, E10902, E10903	Vol.	10227	124	TM251-SS25				10470 10102 1693	3 3 15	WE3050 S568 BB12					11	6K7, 6K8, 6Q7G, 6C5G, 6L6, 6AF6G, 6AF6G, 5Z3	455	
E10905	Vol.	4839	18	MK401	M26			4772 1693	1 15	2N518 BB12					6	6A8G, 6K7, 6Q7G, 6K6G, 6U5, 5Y4G	455	
E10906, E10907	Vol. Tone	10057..... 10058.....	124 †	TM251-SS25 Order from	Mfr.			10036 1693	24 15	2S562 BB12		3698	245A	C3	7	6S7, 6K8, 6T7G, 6G6G, 6Z7G, 6N5	455	
E10910, E10911	Vol. Tone	4803..... 4862.....	18 22	MK401 UM133-SS25	M23			1693	19	BB12					5	1C7G, 1D5GP, 1H4G, 1E5GP, 1G5G, 4-1	455	
E10912, E10913	Vol.	4803	18	MK401	M23			1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	
E10914, E10915	Vol.	4871	18	UM154-SS22	M23			1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CO E10916, E10917	RP.—Co Vol.	continued 4803	18	MK401	M23			1693	19	BB12				4	1A7G, 1N5G, 1H5G, 1A5G	455		
E10920	Vol.	4871	18	UM154-SS22										6	6K8, 6K7, 6Q7G, 6C5G, 2516G	455		
E10925	Tone Vol.	4872 4803	22 18	UM133-SS22 MK401	M26 M23			1693	19	BB12				4	1A7G, 1N5G, 1H5G, 1A5G	455		
F9451	Vol.		18	UC512				6-12 10 .02-.02 20-4-5-5 4-4 5.5	1 15 4 6/15 4 15/19 19	2S568 BB12 Buffer See Note 2S567 BB12 BB12	B26 B14 B33		292	C3	5 5 5 5	6A7, 6D6, 6B7, 41, 84 78, 44, 77, 43, 25Z5 6A7, 42, 75, 78, 80 1A6, 19, 30, 32, 34	456 456 456	
F9501	Vol.		6	L		EX400		6-10-5-5	1/15	UR189 Buffer	B5 B14		F221	C3	5	6A7, 42, 75, 78, 84	456	5-1
F9505	Vol. Tone Vol.		15 22 9	M L Y250MP				4-4 5.5	4 15/19 19	2S567 BB12 BB12	B33				5 5 5	78, 44, 77, 43, 25Z5 6A7, 42, 75, 78, 80 1A6, 19, 30, 32, 34	456 456	5-2
F9511	Vol. Tone Vol.		22 15 22	L M L				6-10-5-5 .05-.05	1/15	UR189 Buffer	B5 B14		F221	C3	5	6A7, 42, 75, 78, 84	456	5-3
F9515	Vol. Tone Vol.		22 6 22	L G7 L				4-4	4	2S567	B33				4	42, 77, 78, 80		5-3
F9521	Vol. Tone Vol.		6 22 6	L UC510 N		EX400		20-4-5-5 8 4	6/15 5 5	UR189 ST595 BB60	B5 B14 B33				4 8	25Z5, 43, 44, 77 37, 42, 78, 80, 85	465	5-4 5-5
F9525, F9527 F9531	Vol. Vol. Tone		6 15 41	UC510 L		EX400		6-10-5-5 .05-.05	1/15	See Note Buffer	B5 B14		Order from Mfr.	C3	6	6A7, 41, 75, 78, 84	175	5-6
F9541	Vol.		15	UM154	M26	See Note	te A96	8-16 10 6-6 10-10	4 15 1 15	2S563 BB12 2N518 TN111	B26 B33				7	6A7, 37, 41, 78, 84, 85	456	5-7
F9551	Vol.		15	UM147	M26	See Note	te A96	10 6-6 10-10	15 1 15	2S563 BB12 2N518	B26 B33		292	C3	5	2A5, 57, 58, 80		5-8
F9555	Vol.		7	G			2	8 4 8.8	5 5 15	ST595 BB60 RS213	B33				8	37, 42, 78, 80, 85	456	5-5
F9591	Vol. Tone Vol.		15 41 15	N L N		6		10 8 4	5 5 15	ST595 BB60 RS213	B33				8	2A5, 56, 57, 58, 80	485	
F9610, F9612, F9613	Vol. Tone Vol.		22 45 47	G12 N F		6		8.8 10 8.8	15 1 15/17	BB12 ST595 BB12	B33				12	46, 56, 57, 58, 80	175	7-5
F9618, F9619	Suppr. Tone Vol.		21 45 22	N N K12				8-4	4	2S567	B33				7	56, 57, 58, 2A5, 80	456	
F9630, F9635	Vol. Tone Vol.		45 22 15	N K12 N				8.8	4	ST595					8	2A5, 56, 57, 58, 80	177.5	
F9640, F9645	Vol. Tone Vol.		15 22 15	N K12 M				12 8 12	4 4 4	ST596 ST595 ST596	B33				10	2A5, 55, 56, 57, 58, 80	456	
F9650, F9654	Vol. Tone Vol.		22 45 22	K12 M K12				8 4 8	4 4 4	ST596 ST595 ST596	B33				10	2A5, 56, 57, 58, 80	177.5	
F9660, F9665	Vol. Tone Vol.		45 22 45	M K12 M				8 12-8 4-4	3 3 4	WE851 2S568 2S567	B26 B33				12	5Z3, 59, 56, 57, 58	456	
F9670, F9675	Vol. Tone Vol.		45 22 15	K12 M L				5.5	15/19	BB12	B33				5	6A7, 42, 75, 78, 80	456	
F9751	Vol. Tone Vol.		15 22 41	M L N		7		8 4	26 26	ST595 BB60	B33				8	37, 78, 85, 42, 80	456	
F9761, F9767	Vol. Tone Vol.		15 41 9	N L Y250MP		6		5	19	BB12					5	1A6, 19, 30, 32, 34	456	
F9775	Vol. Tone Vol.		22 15 22	L M L		7		6-10-5-5 .05-.05	1/15	See Note Buffer	B5 B14		F221	C3	5	6A7, 78, 75, 42, 84	456	
F9777	Vol. Tone Vol.		22 15 22	L M L		7		16-12	27	2P546					4	6C6, 6D6, 12Z3, 43		6-1
G9503	Vol.		6	G12		6	EX200	8-4	4	2S567	B33				5	6A7, 6D6, 42, 75, 80	465	6-1
G9505	Vol.		7	UC501		6	EX200	8-4	23	2S567	B33				5	6A7, 6D6, 42, 75, 80	465	6-1
G9511, G9513	Vol.		18	N				6-12	1	2S563	B26		292	C3	5	6A7, 6B7, 6D6, 41, 84	456	6-2
G9515	Vol.		18	UM154		See Note	te A96	10 .02-.02 6-12	15 1 15	BB12 Buffer 2S563	B14 B26		292	C3	6	6A7, 6D6, 41, 75, 84	175	6-3
G9517	Vol.		18	UM154		See Note	te A96	10 .02-.02 8-4	15 23 4	BB12 Buffer 2S567	B14 B33				5 6	6A7, 6D6, 75, 42, 80 6A7, 6D6, 42, 75, 80	456 465	7-1 6-4
G9527	Vol.		18	N				8-4	23	2S567	B33				5	6A7, 6D6, 75, 42, 80	456	
G9533	Vol. Tone		18 22	N G12				8-8	4	2S567	B33				6	6A7, 6D6, 42, 75, 80	465	
G9545, G9547 G9549	Vol. Tone Suppr.		18 22 48	TRP606 Y Y10MP		6		3004 1948	28 28	2N518 ST595					8	6A7, 42, 76, 78, 80, 85	465	6-5
G9551	Vol. Tone		6 22	G12 L		6 7		4-4	4	2S567	B33				4	42, 77, 78, 80		6-6, 7
G9553	Vol.		17	N				8-20-5 5 5	11 15 13	UR182 BB12 BB31	B17				5	6A7, 6D6, 25Z5, 43, 75	456	6-7
G9557	Vol.		17	N				5-20-8 5	11 15	UR182 BB12	B31				5	6A7, 6D6, 25Z5, 43, 75	456	6-6
G9561, G9563 G9565, G9567	Vol. Tone		15 22	N L											5	1C6, 30, 33, 34	456	6-7
G9561, G9563 G9565, G9567 (above No. 61700)	Vol. Tone		33 22	N L											5	1C6, 19, 30, 32, 34	465	6-8

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ALLIED RADIO CO (9575 to G9605 Inc.)	RP.—Continued																	
	Vol. Tone		15	N			8-8	1	2N518						8	6D6, 6A7, 75, 76, 342, 80	456	7-2
G9599	Vol.		17	UM154		See Note A96	5	15	ST585						6	6A7, 41, 75, 78, 84	465	6-9
G9611, G9613	Vol.	1322	45	N			6-10	1	BB12	B26		Order from Mfr.			5	1A6, 30, 32, 33, 34	465	6-10
G9615	Vol. Tone	1322	18	N			5, 5	15	2S563						5	6A7, 6D6, 75, 38, 84	465	7-3,4
	Tone	1382	22	Y	6		.05-.05		BB12	B14								
G9617, 9619, 9623, 9625, 9627	Vol.	1289	45	N	7		1258	1	RS213		1381	F251	C3		5			
G9629, 31, 33, 35, 37, 39	Vol. Tone	1447	45	MR48	M27		1260	1	WE450						5			
G9643, G9645	Vol. Tone	1495	17	MR48	M26		9328	15	TN111									
	Tone	1450	22	K12			.01-.01		Buffer	B14								
G9881	Vol.		18	UM154		See Note A96	1291	12	ST595						6	1C6, 34, 30, 32, 19	465	7-5
G9882	Vol.		18	UM154		See Note A96	1291	12	ST595						9	34, 1C6, 30	465	7-9-12
H9744, H9745	Vol. Tone	P691	45	SRP275	7		1477	1	RS215						7	6D6, 6A7, 75, 76, 41, 80	465	7-6,7
H9766	Vol. Tone	P682	17	L			1476	1	RS216						5	6A7, 6B7, 6D6, 41, 84	456	6-2
	Tone	P801	22	UM163-SS3	M26		8876	15	BB11						5			
		P828	22	MR39			6-12	1	2S563	B26		292	C3		6	6A7, 6D6, 41, 75, 84	175	6-3
H9771	Vol.	1835	6	SRP263	6	EX200	10	15	BB12	B14					6			
							.02-.02	1	2S563	B26		292	C3		6			
							10	15	BB12	B14					7	1C6, 34, 30, 19	456	
H9773, H9774	Vol.	2198	18	MR48			P391	1	2N516		P402	245C	C3		7			
H9777, H9779	Vol. Tone	2331	22	K12	14		.01-.01	1	Buffer	B14					6	6D6, 6A7, 6K7, 75, 6F6, 84	175	
H9780, H9781, H9782	Vol. Tone	2198	18	UM154-SS16			P795	4	CM172		P816	294	C3		6			
H9784, H9785, H9786	Vol. Tone	2199	44	K12	6		G864	15	BB12	B14					4	6D6, 6C6, 42, 80	465	
							.0075		Buffer	B14					4			
H9787, H9791, H9792, H9795	Vol. Tone	2699	18	TM228-SS1			1258	25	RS213						11	6K7, 6L7, 6J7, 6I16, 6C5, 6F6, 5Z3	465	
	Tone	2700	22	K12	6		1260	25	RS213						11			
							8876	15	BB12						7	5Z4, 6F5, 6F6, 6I16, 6K7, 6L7, 6C5	456	
L5	Vol. Tone	P660	18	N	6		1110	13	BB21						8	6A7, 6K7, 75, 6C5, 6F5, 6F6, 80	465	
	Tone	P661	34	L			1477	25	RS215						8			
L6	Vol. Tone	P660	18	N	6		1476	25	RS216						8			
	Tone	P661	44	L			1110	13	BB60						7			
L7	Vol. Tone	P691	45	SRP275	7		3167	25	WE3050						11			
P (AC)	Vol. Tone	P682	15	L			1476	25	RS216						11			
	Tone		22	N			3170	19	BB13						6			
P (Batt.)	Vol. Tone		9	L			8876	15	BB12	B81					7			
	Tone		22	Y10MP	6		1110	13	BB60						8			
SG8	Vol.		6	Y	8	See Note A8	P474	32	WE450						7			
SG9	Vol. Tone		24	DRP119	6	See Note A9	P160	15	2S567	B81					8			
	Tone		41	N			P304	15	BB12						9			
SG10	Vol.		7	Z		A10	P474	32	WE450						7			
T (Auto.)	Vol.		17	UM154		See Note A96	P160	15	2S567	B81					10			
							P304	15	BB12						6			
U	Vol.		6	UC510		EX400	P391	1	2N516		P402	245C	C3		7			
U6	Vol. Tone		17	UM161-SS3	M26		.01-.01	4	Buffer	B14					5			
	Tone		22	MR39			4-4	19	2S567	B33					5			
V	Vol.		7	UC510	6		10	13	BB12						5			
							8	13	BB21						5			
W	Vol. Tone		15	N			10	1	BB12	B14					8			
	Tone		41	L			1.8-2.3-2.3	3	See Note	B1					8			
Z4	Vol. Tone	P680	45	SRP275	7		8, 8, 8	3	ST595						9			
	Tone	P682	44	L			2-2.5-2.5	3	See Note	B1					10			
Z5	Vol. Tone	P680	45	SRP275	7		6-10	1	2S563	B26		Order from Mfr.			6			
	Tone	P682	44	L			5, 5	15	BB12						6			
"Knight" 6820	Vol. Tone		45	N		See Note A5	.05-.05		Buffer	B14					5			
	Tone		22	L			4-20	6	2N507	B90					5			
							5, 5	15	BB12						5			
							P795	4	2S567	B33	P816	294	C3		6			
							G864	15	BB12						6			
							.0075		Buffer	B14					4			
							20-4	6	2N507	B90					4			
							5, 5	15	BB12						8			
							8	26	ST595						8			
							4	26	BB60						6			
							P391	1	2S567	B26	P402	245C	C3		6			
							.01-.01		Buffer	B14					6			
							P958	1	2N518		P402	245C	C3		6			
							.01-.01		Buffer	B14					6			
							8-4	1	2N518						6			
							.01-.01		Buffer	B14					6			

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AMERICAN BOSCH	See United American																	
AMERICAN FOUNDATION	FOR THE B.LIND																	
U.	Vol. Tone	6		SRP263	6			8-16	6	2N504	B90				5	6C6, 6D6, 43, 25Z5	175	7-1,2
	Phono.	22		K12				2-4	15	TN111								
X.	Vol. Tone	63		G12	6	EX200		4-4	4	2S567	B33				5	6D6, 6C6, 42, 80		7-1,2
	Phono.	22		K12				5	15	BB12								
30.	Vol. Tone	63		SRP263	6			8-16	6	2N504	B90				5	6C6, 6D6, 43, 25Z5	175	7-1,2
	Phono.	6		K12				2-4	15	TN111								
	Phono.	63		K12														
AMERICAN TRAN. CORP.	Vol.	15		N											3	26, 27		1-1
25A (A Unit)	Vol.	15		M				2-4-4		See Note	B4				7	27, 50, 81		1-2
250.																		
AMRAD																		
AC5.	Vol.		29				A11	S-60	3	MN272					7	216B, 12, 99		1-4
								1D-15-30		MN272								
AC6.	Vol.		14	N											6	26, 27, 71		1-6
AC7, AC7C.	Vol.		10	II12				8-8-8-8	1/14	MN277					8	26, 27, 71A, 80		1-3
DC6, DC6C.	Vol.		29	O											6	01A, 12A or 71A		1-6
	Vol.		29	S														
DC7, DC7C.	Vol.		29	S											7	01A, 71A		1-3
70 (Concerto, Nocturn, Opera, Sonata)	Vol.		1	II12						See Note	B3				8	26, 27, 10 or 50, 81		1-8
81 (Aria, Minuet, Serenata, Duet, Symphony)	Vol.		12	K12				8-8-18-18	1/22	MN278					8	24, 27, 345, 80		3-1,2
84, 84C, 84D	Vol.		15	N				9-9-18	3	MN277	B83				8	24, 27, 345, 80		1-5
171ABC.	Vol.							8-8-8-8	3/14	MN277					1	80		1-2
F516.	Vol.	W37343	6	G12	6	EX200		W41080	1	RS215					5	6D6, 76, 6B5, 80	450	7-1,2
								W41081	1	RS216								
F546.	Vol. Tone	41252	6	G7		2		W36057	1	WE4050		37216	246	C3	5	15, 6A7, 38	450	7-3,4
		32908	34			See Note	te A3	W41195	15	BB12								
F616.	Vol. Tone	W37967	18	O				.001		Buffer	B14							
		W37908	34	MR40	M26			W36055	1	WE4050					6	6A8G, 6K7G, 6116G, 6F5G, 6N6G, 5Z4MG	450	7-5,6
F626.	Vol. Tone	37907	1	DRP304				W36057	1	WE4050					6	6A8G, 6K7G, 6J7G, 6C5G, 6N6G, 5Z4MG	450	7-7,8
		37908	34	MR40	M26			W49325	1	RS208								
								W37778	15	TN111								
3500-1.	Vol.		31	A200P											4	01A		1-1
3500-2.	Vol.		14	M											4	01A		1-1
7100.	Vol.		40	II12											5	26, 27		1-7
ANDREA																		
CA5 (M1)	Vol. Tone		17	MR53				16-8	6	2N504	B90				5	6A7, 78, 6B7, 43, 25Z5	470	8-10
	Vol.		57	MR44				10	15	BB12								
DBL, D8S.	Vol. Tone	FM303	127	MR53				HC99	25	WE1650					8	6K7G, 6A8G, 6116G, 6F5G, 6V6G, 5Y4G, 6C5	470	9-4
		FM302	57	MR44				HC71	25/13	2S567								
IA5 (A5L)	Vol. Tone		17	MR53				8, 8	1	ST595					5	6A7, 78, 6B7, 42, 80	470	8-1
			57	MR44				10-10	15	TN111								
IA7 (A7L)	Vol. Tone		17	MR53				8	1	ST595					7	6D6, 6A7, 6B7, 42, 80	470	8-2
			57	MR44				4-4	13/14	2N518								
IB6 (B6L)	Vol. Tone	FM144	15	MR53				10-10	15	TN111					6	6A7, 6K7, 6116, 6F5, 42, 80	470	8-3,4
		FM145	57	MR44				HC58	1	2S568	B26							
IB8 (B8L)	Vol. Tone	FM144	15	MR53				HC59	13	Order from Mfr.								
		FM145	57	MR44				HC2	15	TN111								
IC5 (C5L)	Vol.	FM197	18	MR53				HC64	1/13	2S563	B41				8	6D6, 6A7, 6K7, 6116, 6F5, 42, 80	470	9-3
								HC63	1/13	3S384								
ID6 (D6L)	Vol.	FM271	15	MR53	M26			HC2	15	TN111					5	6A7, 78, 75, 41, 80	470	9-1,2
								HC72	4	WE1250								
ID7 (D7L)	Vol.	FM303	124	MR53				HC56	13	CS130					6	6A7, 78, 76, 77, 6V6G, 80	470	
		FM302	57	MR44				HC99	25	WE1650					7	6K7G, 6A8G, 6116G, 6F5G, 6V6G, 5Y4G	470	8-5,6
ID8 (D8L)	Vol. Tone	FM303	45	MR53				HC71	25/13	2S567					8	6K7G, 6A8G, 6116G, 6F5G, 6C5, 6V6G, 5Y4G	470	9-4
		FM302	57	MR44				HC99	25	WE1650								
ID10 (D10L)	Vol. Tone	FM352	124	MR53	M26			HC113	3	WE1250					10	6K7G, 6A8G, 6116G, 6F5G, 6C5G, 6V6G, 5Y4G, 6C5	470	8-7
		FM353	22	MR48				HC114	3	WE851								
IE6 (PE6L)	Vol. Tone	FM427	18	MR48	M26			HC115	13/14	2N518					6	6K8, 6K7, 6116, 6F5, 6V6G, 5Y4G	470	9-5
		FM428	57	MR44				HC61	15	BB13								
								HC128	25	WE4030								
								HC129	25	WE1650								
								HC130	13	ST595								
								HC131	15	BB12								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ANDREA—Continued 1E6 (PE6S)	Vol. Tone	FM427	18	MR48	M26			HC128	25	WE4050					6	6K8, 6K7, 6116, 6F5, 6V6G, 5Y4G	470	9-6
		FM428	57	MR44		HC129	25	WE1650										
1E8 (PE8L)	Vol. Tone	FM506	15	MR53				HC130	13	ST595				8	*6K7, 6K8, 6116, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10	
		FM507	57	MR44	HC145	25	WE4050											
2A5 (A5S)	Vol. Tone		17	MR53				HC148	25/13	2S563				5	6A7, 78, 6B7, 42, 80	470	8-1	
2B6 (B6S)	Vol. Tone	FM144	57	MR44				HC131	15/19	BB12								
2B8 (B8S)	Vol. Tone	FM144	15	MR53				8, 8	1	ST595				6	6A7, 6K7, 6116, 6F5, 42, 80	470	8-3,4	
		FM145	57	MR44	HC58	1	2S568											
2C5 (C5S)	Vol. Tone	FM144	15	MR53				HC59	13	Order from Mfr.				8	6D6, 6A7, *6K7, 6116, 6F5, 42, 80	470	9-3	
		FM145	57	MR44	HC2	15	TN111											
2D5 (D5)	Vol. Tone	FM399	18	MR48	M26			HC64	1/13	2S563				5	6A7, 6D6, 75, 41, 80	470	9-14	
2D6 (D6S)	Vol. Tone	FM271	15	MR53	M26			HC63	1/13	3S584								
2D7 (D7S)	Vol. Tone	FM303	124	MR53				HC2	15	TN111				7	*6K7, 6A8, 6116G, 6F5G, 6V6G, 5Y4G	470	8-5,6	
		FM302	57	MR44	HC72	4	WE1250											
2D8 (D8S)	Vol. Tone	FM303	45	MR53				HC56	13	CS130				6	6A7, 78, 76, 77, 6V6G, 80	470		
		FM302	57	MR44	HC99	25	WE1650											
2D10 (D10S)	Vol. Tone	FM352	124	MR53	M26			HC71	25/13	2S567				8	*6K7, 6A8, 6116G, 6F5G, 6V6G, 5Y4G	470	9-4	
		FM353	22	MR48	HC99	25	WE1650											
2E6 (PE6L)	Vol. Tone	FM427	18	MR48	M26			HC113	3	WE1250				10	*6K7, 6A8, 6116G, 6F5G, 6C5G, 6V6G, 5U4G, 6G5	470	8-8,9	
		FM428	57	MR44	HC114	3	WE851											
2E6 (PE6S)	Vol. Tone	FM427	18	MR48	M26			HC115	13/14	2N518				6	6K8, 6K7, 6116, 6F5, 6V6G, 5Y4G	470	9-5	
		FM428	57	MR44	HC112	15	BB13											
2E8 (PE8S)	Vol. Tone	FM506	15	MR53				HC128	25	WE4050				8	*6K7, 6A8, 6116, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10	
		FM507	57	MR44	HC129	25	WE1650											
3A7 (A7L)	Vol. Tone		17	MR53				HC130	13	ST595				7	*6D6, 6A7, 6B7, 42, 80	470	8-2	
			57	MR44	8, 8	1	ST595											
3B6 (B6L)	Vol. Tone	FM144	15	MR53				4-4	13/14	2N518				6	6A7, 6K7, 6116, 6F5, 42, 80	470	8-3,4	
		FM145	57	MR44	10-10	15	TN111											
3D5 (D5, D5E, D5S)	Vol. Tone	FM399	18	MR48	M26			HC58	1	2S568				5	6A7, 6D6, 75, 41, 80	470	9-14	
		FM303	124	MR53	HC121	1/15	3S581											
3D5 (D5L)	Vol. Tone	FM399	18	MR48	M26			HC121	1/15	3S581				5	6A7, 6D6, 75, 41, 80	470	9-14	
		FM303	124	MR53	HC99	25	WE1650											
3D7 (D7L)	Vol. Tone	FM302	124	MR44				HC71	25/13	2S567				8	*6K7, 6A8, 6116G, 6F5G, 6V6G, 5Y4G	470	8-5	
		FM303	45	MR53	HC99	25	WE1650											
3D8 (D8L)	Vol. Tone	FM303	45	MR53				HC71	25/13	2S567				8	*6K7, 6A8, 6116G, 6F5G, 6G5, 6V6G, 5Y4G	470	9-4	
		FM302	57	MR44	HC113	3	WE1250											
3D10 (D10L)	Vol. Tone	FM352	124	MR53	M26			HC114	3	WE851				10	*6K7, 6A8, 6116G, 6F5G, 6C5G, 6V6G, 5U4G, 6G5	470	8-7	
		FM353	22	MR48	HC115	13/14	2N518											
3E8 (PE8L)	Vol. Tone	FM506	15	MR53				HC61	15	BB13				8	*6K7, 6K8, 6116, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10	
		FM507	57	MR44	HC145	25	WE4050											
3E11 (PE11L)	Vol. Tone	FM506	15	MR53				HC148	25/13	2S563				11	*6K7, 6A8, 6116, 6F5, 6U5, 6C5, 6V6G, 5U4G	470	9-11,12	
		FM554	22	MR48	HC131	15/19	BB12											
4B6 (B6S)	Vol. Tone	FM144	15	MR53				HC153	30	ST596				6	6A7, 6K7, 6116, 6F5, 42, 80	470	8-3,4	
		FM145	57	MR44	HC154	30	WE1835											
4D5 (D5E)	Vol. Tone	FM399	18	MR48	M26			HC2	15	TN111				5	6A7, 6D6, 75, 41, 80	470	9-13,14	
		FM303	124	MR53	HC121	1/15	3S581											
4D7 (D7S)	Vol. Tone	FM303	124	MR53				HC99	25	WE1650				7	*6K7, 6A8, 6116G, 6F5G, 6V6G, 5Y4G	470	8-5	
		FM302	57	MR44	HC71	25/13	2S567											
4D8 (D8S)	Vol. Tone	FM303	45	MR53				HC99	25	WE1650				8	*6K7, 6A8, 6116G, 6F5G, 6V6G, 5Y4G	470	9-4	
		FM302	57	MR44	HC71	25/13	2S567											
4D10 (D10S)	Vol. Tone	FM352	124	MR53	M26			HC113	3	WE1250				10	*6K7, 6A8, 6116G, 6F5G, 6C5G, 6V6G, 6G5, 5U4G	470	8-8	
		FM353	22	MR48	HC114	3	WE851											
4E8 (PE8S)	Vol. Tone	FM506	15	MR53				HC115	13/14	2N518				8	*6K7, 6A8, 6116, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10	
		FM507	57	MR44	HC112	15	BB13											
4E11 (PE11S)	Vol. Tone	FM506	15	MR53				HC145	25	WE4050				11	*6K7, 6A8, 6116, 6F5, 6U5, 6C5, 6V6G, 5U4G	470	9-11,12	
		FM554	22	MR48	HC148	25/13	2S563											

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ANDREA—Continued																		
5A5 (A5L).....	Vol. Tone		17	MR53				8, 8	1	ST595					5	6A7, 78, 6B7, 42, 80	470	8-1
5D7 (D7L).....	Vol. Tone	FM303	124	MR44				10-10	15	TN111					7	6K7G, 6A8G, 6116G, 6F5G, 6V6G, 5Y4G	470	8-5
5D8 (D8L).....	Vol. Tone	FM302	57	MR53				HC99	25	WE1650					8	6K7G, 6A8G, 6116G, 6F5G, 6V6G, 5Y4G	470	9-4
5D10 (D10L).....	Vol. Tone	FM303	45	MR44				HC71	25/13	2S567				10	6K7G, 6A8G, 6116G, 6F5G, 6C5G, 6V6G, 5U4G, 6G5	470	8-7	
5E8 (PE8L).....	Vol. Tone	FM352	124	MR53	M26			HC113	3	WE1250				8	6K7, 6A8, 6116, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10	
5E11 (PE11L).....	Vol. Tone	FM353	22	MR48				HC114	3	WE851				11	6K7, 6A8, 6116, 6F5, 6U5, 6C5, 6V6G, 5U4G	470	9-11,12	
6A5 (A5S).....	Vol. Tone	FM506	15	MR53				HC115	13/14	2N518				5	6A7, 78, 6B7, 42, 80	470	8-1	
6D5 (PD5, PD5E).....	Vol. Tone	FM507	57	MR44				HC61	15	BB13				5	6A7, 6D6, 75, 41, 80	470	9-15,16	
6D7 (D7S).....	Vol. Tone	FM554	22	MR48				HC145	25	WE4050				7	6K7G, 6A8G, 6116G, 6F5G, 6V6G, 5Y4G	470	8-5	
6D8 (D8S).....	Vol. Tone	FM303	124	MR53				HC148	25/13	2S563	B92			8	6K7G, 6A8G, 6116G, 6F5G, 6V6G, 5Y4G	470	9-4	
6D10 (D10S).....	Vol. Tone	FM302	57	MR44				HC131	15/19	BB12				10	6K7G, 6A8G, 6116G, 6F5G, 6C5G, 6V6G, 5U4G, 6G5	470	8-7	
6E8 (PE8S).....	Vol. Tone	FM352	124	MR53	M26			HC112	15	BB13				8	6K7, 6A8, 6116, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10	
6E11 (PE11S).....	Vol. Tone	FM506	15	MR53				HC145	25	WE4050				11	6K7, 6A8, 6116, 6F5, 6U5, 6C5, 6V6G, 5U4G	470	9-11,12	
7D7 (D7L).....	Vol. Tone	FM554	22	MR48				HC153	30	ST596				7	6K7G, 6A8G, 6116G, 6F5G, 6V6G, 5Y4G	470	8-5	
7D8 (D8L).....	Vol. Tone	FM303	124	MR44				HC154	30	WE1835				8	6K7G, 6A8G, 6116G, 6F5G, 6V6G, 5Y4G	470	9-4	
7D10 (D10L).....	Vol. Tone	FM303	45	MR53				HC155	13	ST595				10	6K7G, 6A8G, 6116G, 6F5G, 6C5G, 6V6G, 5U4G, 6G5	470	8-7	
7E8 (PE8L).....	Vol. Tone	FM302	57	MR44				HC99	25	WE1650				8	6K7, 6A8, 6116, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10	
7E11 (PE11L).....	Vol. Tone	FM302	57	MR44				HC71	25/13	2S567				11	6K7, 6A8, 6116, 6F5, 6U5, 6C5, 6V6G, 5U4G	470	9-11,12	
8D5 (PD5, PD5E).....	Vol. Tone	FM352	124	MR53	M26			HC99	25	WE1650				5	6A7, 6D6, 75, 41, 80	470	9-15	
8D7 (D7S).....	Vol. Tone	FM353	22	MR48				HC71	25/13	2S567				7	6K7G, 6A8G, 6116G, 6F5G, 6V6G, 5Y4G	470	8-5	
8D8 (D8S).....	Vol. Tone	FM303	45	MR53				HC99	25	WE1650				8	6K7G, 6A8G, 6116G, 6F5G, 6V6G, 5Y4G	470	9-4	
8D10 (D10S).....	Vol. Tone	FM302	57	MR44				HC71	25/13	2S567				10	6K7G, 6A8G, 6116G, 6F5G, 6C5G, 6V6G, 5U4G, 6G5	470	8-7	
8E8 (PE8S).....	Vol. Tone	FM352	124	MR53	M26			HC113	3	WE1250				8	6K7, 6A8, 6116, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10	
8E11 (PE11S).....	Vol. Tone	FM353	22	MR48				HC114	3	WE851				11	6K7, 6A8, 6116, 6F5, 6U5, 6C5, 6V6G, 5U4G	470	9-11,12	
9D10 (D10L).....	Vol. Tone	FM506	15	MR53				HC115	13/14	2N518				10	6K7G, 6A8G, 6116G, 6F5G, 6C5G, 6V6G, 5U4G, 6G5	470	8-7	
9E8 (PE8L).....	Vol. Tone	FM507	57	MR44				HC61	15	BB13				8	6K7, 6A8, 6116, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10	
9E11 (PE11L).....	Vol. Tone	FM554	22	MR48				HC145	25	WE4050				11	6K7, 6A8, 6116, 6F5, 6U5, 6C5, 6V6G, 5U4G	470	9-11,12	
10D10 (D10S).....	Vol. Tone	FM303	124	MR44				HC148	25/13	2S563	B92			10	6K7G, 6A8G, 6116G, 6F5G, 6C5G, 6V6G, 5U4G, 6G5	470	8-7	
10E8 (PE8S).....	Vol. Tone	FM302	57	MR44				HC131	15/19	BB12				8	6K7, 6A8, 6116, 6U5, 6F5, 6V6G, 5Y4G	470	9-9,10	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ANDREA—Continued																		
10E11 (PE11S)	Vol. Tone	FM506 FM554	15 22	MR53 MR48				HC153 HC154 HC155	30 30 13	ST596 WE1835 ST595					11	6K7, 6A8, 6116, 6F5, 6U5, 6C5, 36V6G, 5U4G	470	9-11,12
11E6 (PE66L)	Vol. Tone	FM486 FM187	45 57	MR48 MR44	M26			24-24-10 HC142	1/15 13	Order from Mfr. ST595					6	6K8, 6K7, 6116, 6F5, 6V6G, 5Y4G	470	9-17
11E6 (PE66S)	Vol. Tone	FM486 FM487	45 57	MR48 MR44	M26			24-24-10 HC142	1/15 13	Order from Mfr. ST595					6	6K8, 6K7, 6116, 6F5, 6V6G, 5Y4G	470	9-18
12E6 (PE66L)	Vol. Tone	FM486 FM487	45 57	MR48 MR44	M26			24-24-10 HC142	1/15 13	Order from Mfr. ST595					6	6K8, 6K7, 6116, 6F5, 6V6G, 5Y4G	470	9-17
12E6 (PE66S)	Vol. Tone	FM486 FM487	45 57	MR48 MR44	M26			HC141 HC142	1/15 13	Order from Mfr. ST595					6	6K8, 6K7, 6116, 6F5, 6V6G, 5Y4G	470	9-18
12F5 (Ch. UF-5)	Vol. Tone	FM717	18	UM161	M26		A96	HC195	1/15	FPT311					5	12K8, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-13
14E6 (PE66L)	Vol. Tone	FM486 FM487	45 57	MR48 MR44	M26			24-24-10 HC142	1/15 13	Order from Mfr. ST595					6	6K8, 6K7, 6116, 6F5, 6V6G, 5Y4G	470	9-17
14E6 (PE66S)	Vol. Tone	FM486 FM487	45 57	MR48 MR44	M26			24-24-10 HC142	1/15 13	Order from Mfr. ST595					6	6K8, 6K7, 6116, 6F5, 6V6G, 5Y4G	470	9-18
21AF5 (Ch. UF-51)	Vol. Tone	FM678	18	UM163	M27		A96	HC190 HC189	1/15 13	Order from Mfr. HC25025					5	1A7GT, 1N5GT, 1H5GT, 1Q5GT, 25Z6GT	455	11-14
21F5 (Ch. UF-51)	Vol. Tone	FM678	18	UM163	M27		A96	HC190 HC189	1/15 13	Order from Mfr. HC25025					5	1A7GT, 1N5GT, 1H5GT, 1Q5GT, 25Z6GT	455	11-14
25G5 (Ch. UG-5S)	Vol. Tone	FM734 FM735	18 21	UM161 UM154	M26		A96	HC198	1/15	FPT311					5	12K8, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-15
33F6 (Ch. UF-6)	Vol. Tone	FM699	45	UM154	M26		A96	HC191	1/15	FPT306					6	6K8, 6SK7, 6116, 6SF5, 25L6G, 25Z6G, F6B	470	11-16
62PX (PXD5)	Vol. Tone	FM399	18	MR48	M26			HC124	6/19	3N528	B93				5	6A7, 6D6, 75, 43, 25Z6	470	9-20
62X (XD5)	Vol. Tone	FM399	18	MR48	M26			HC124	6/19	3N528	B93				5	6A7, 6D6, 75, 43, 25Z6	470	9-20
400 (B4)	Vol. Tone	FM118	6	Y			2	HC52 HC56	4 13	WE851 CS130					4	6A7, 6F7, 41, 80	470	9-21
401 (B4L)	Vol. Tone	FM133	6	Y	6		2	HC52 HC56	4 13	WE851 CS130					4	6A7, 6F7, 41, 80	470	9-21
410 (UC4)	Vol. Tone	FM252	6	Y	6		3	HC90	6/15	3N526					4	6D6, 6C6, 43, 25Z5, C4B		8-10
411 (UC4L)	Vol. Tone	FM252	6	Y	6		3	HC90	6/15	3N526					4	6D6, 6C6, 43, 25Z5, C4B		8-10
500 (UB5)	Vol. Tone	FM100	18	MR53				HC43 HC2	6/13 15	TN125 TN111	B101				5	6A7, 78, 6B7, 43, 25Z5	470	9-22
510 (UC5L) 511 (UC5S)	Vol. Tone	FM197	18	MR53				HC72 HC56	4 13	WE1250 CS130					5	6A7, 78, 75, 41, 80	470	9-1
510 (UC5S)	Vol. Tone	FM197	18	MR53				HC74 HC75	27 13	ST589 CS130					5	6A7, 78, 75, 43, 25Z5	470	9-23
511 (UC5L)	Vol. Tone	FM197	18	MR53				HC74 HC75	27 13	ST589 CS130					5	6A7, 78, 75, 43, 25Z5	470	9-23
520 (UD5S) 521 (UD5L)	Vol. Tone	FM330	18	MR48	M26			HC96	6/15	3N528	B61				5	6A7, 6D6, 75, 43, 25Z5	470	8-11
600 (UB6)	Vol. Tone	FM12	18	MR53				HC39 HC46 HC2	1 1 15	RM257 ST585 TN111					6	6A7, 78, 6B7, 43, 25Z5	470	9-24
610-613 (C6B)	Vol. Tone	FM144	17	MR53				HC77 HC79 HC78 HC2	1 15 13 15	2S569 BB12 RM257 TN111	B26	FM235	245	C3	6	6S7G, 61D8G, 6T7G, 6L5G, 6K6G	470	9-25
610-613 (C32B)	Vol. Tone	FM144	17	MR53				.015-.015 HC77 HC79 HC78 HC2	1 15 13 15	Buffer 2S569 BB12 RM257 TN111	B14 B26	FM240	See Note	C6	6	6S7G, 61D8G, 6T7G, 6L5G, 6K6G	470	9-26,27
616, 617, 618 (D6B)	Vol. Tone	FM303 FM302	124 57	MR53 MR44				HC77 HC117 HC118 HC119 .015-.015	1 13/14 13 15	2S569 2N516 CS130 TN111 Buffer	B26	FM235	245	C3	6	6S7G, 61D8G, 6T7G, 6L5G, 6V6G	470	8-13
620 (UD6S) 621 (UD6L)	Vol. Tone	FM271	17	MR53	M26			HC96 HC75 HC77	6/15 13 1	3N528 CS130 2S569	B61				5	6A7, 78, 75, 25L6, 25Z5	470	9-28
626, 627, 628 (E6B)	Vol. Tone	FM303 FM302	17 57	MR53 MR44				HC131 HC134 .015	15 13	2S569 BB40 Buffer	B26	FM477	246	C3	6	6S7G, 61D8G, 6T7G, 6L5G, 6V6G	470	9-29,30
630, 631 (PUE6L)	Vol. Tone	FM427 FM428	18 57	MR48 MR44	M26			HC132 HC133	25/19 25/13/15	3N526 3N525	B103				5	6K8, 6K7, 607G, 25L6G, 25Z6G, F6B	470	9-31
630, 631 (PUE6S)	Vol. Tone	FM427 FM428	18 57	MR48 MR44	M26			HC132 HC133	25/19 25/13/15	3N526 3N525	B103				5	6K8, 6K7, 607G, 25L6G, 25Z6G, F6B	470	9-32

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ANDREA—Continued 634 (PUE6S)	Vol. Tone	FM427	18	MR48	M26			HC132	25/19	3N526	B103				3	6Q7G, 25L6G, 25Z6G	9-33	
		FM428	57	MR44				HC133	25/13/15	3N525								HC151	25	BB26
635 (PUE6L)	Vol. Tone	FM427	18	MR48	M26			HC149	19	BB17	B103				3	6Q7G, 25L6G, 25Z6G	9-33	
		FM428	57	MR44				HC132	25/19	3N526								HC133	25/13/15	3N525	HC151	25	BB26	HC149	19	BB17
1401, 1403, 1405, 1409 (UD14L)	Vol. Tone	FM352	124	MR53	M26			HC109	1	ST589					11	*6K7G, 6A8G, 6H16G, 6F5G, 6C5G, *25L6G, *25Z6G, 6G5	470	8-12
		FM353	22	MR48				HC110	1	RS208									HC116	13	ST587	HC61	15	BB13	HC111	1	2N509
1402, 1404, 1406, 1408, 1410, (UD14S)	Vol. Tone	FM352	124	MR53	M26			HC109	1	ST589					11	*6K7G, 6A8G, 6H16G, 6F5G, 6C5G, *25L6G, *25Z6G, 6G5	470	9-34
		FM353	22	MR48				HC110	1	RS208									HC116	13	ST587	HC61	15	BB13	HC111	1	2N509
1530, 1534, 1536, 1538 (PUES)	Vol. Tone	FM506	15	MR53				HC158	22	RS208					12	*6K7, 6K8, 6H16, 6F5, 6U5, 6C5, *25L6G, *25Z6G	470	9-35,38
		FM554	22	MR48				HC159	25	RS208									HC160	22/25	2N509	HC161	13	BB31	HC162	13	2N502	HC112	15	BB13
1531, 1533, 1535, 1537 (PUEL)	Vol. Tone	FM506	15	MR53				HC158	22	RS208					12	*6K7, 6K8, 6H16, 6F5, 6U5, 6C5, *25L6G, *25Z6G	470	9-35,38
		FM554	22	MR48				HC159	25	RS208									HC160	22/25	2N509	HC161	13	BB31	HC162	13	2N502	HC112	15	BB13
ANSLEY RADIO LABS.	Vol. Tone		12	M			A27	10	19	BB12	B20				4	1A6, 1A4, 32, 33 or 1A6, 1A4, 1F4, 1B4	456	7-1
			71	O														
DC	Vol.		26	UC510				2-2-1		See Note	B4				7	*01A, 71A		2-1
		D1	Vol.					50	L									
D1 (Rev.)	Vol.				51	A3MP				10	15	BB12	B3			4	25Z5, *48, 76		6-1
		Hum	Vol.		63	M												
D1 (Rev.)	Tone				41	N				48	†	RS208				6	*6C6, *48, *25Z5		7-2
		Hum	Vol.		41	A3MP												
D1, D1A (3rd type)	Vol.				41	LL				80	12	TN129	B8			6	*6C6, *25L6, *25Z5		8-1
		Hum	Vol.		41	N												
D3, D4, D6	Vol.				6	SRP263			EX200	16-8	1	2S563				5	25Z5, 43, *77, 78	175	5-1
		Phono.	Vol.		63	SRP263												
D9, D10	Vol. Tone				17	MR53	M26			32-24-12	8	Order from	Mfr.			6	6A8G, 6K7, 6Q7G, 25A6G or 25L6, *25Z6G	456	8-2
		Hum	Vol.		57	MR48												
Dynatone	Vol. Tone				16	MR33				8, 8	3/31	WE850				13	6A8, 6K7, 6H16, *1223, *6F8, *2A3, 5Z3, 45	456	11-1
		Hum	Vol.		†	MR33												
D9A, D10A (2.20)	Vol. Tone				17	MR48	M26			10	15	WE1650				8	6A8G, 6K7, 6Q7G, 6F5G, *25L6G, *25Z6G	456	11-3
		Hum	Vol.		22	MR48												
D12	Vol. Tone				63	N				15	13	BB24	B3			6	*76, *48, *25Z5		7-2
		Hum	Vol.		41	N												
D16	Vol. Tone				63	M				48	†	RS208				6	*6C6, *48, *25Z5		7-3
		Hum	Vol.		41	N												
D16 (Rev.)	Vol. Tone				41	A3MP				80	12	TN129	B8			6	*6C6, *25L6, *25Z5		8-1
		Hum	Vol.		41	N												
D17, D18	Vol. Tone				17	MR53	M26			32-24-12	8	Order from	Mfr.			6	6A8G, 6K7, 6Q7G, 25A6G or 25L6, *25Z6G	456	8-2
		Hum	Vol.		57	MR48												
D17A, D18A (2.21)	Vol. Tone				15	MR48				15-15	1	FPD234	B3			11	(AC-DC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, *25L6, *25Z6, or	456	11-4
		Hum	Vol.		22	MR48												
D20	Vol. Tone				†	LL				80	12	TN129	B8			6	*6C6, *25L6, *25Z5	
		Hum	Vol.		41	N												
					†	Y500MP												

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ANSLEY RADIO LA D21, D22 D21A, D22A D23A (Part 2.21) D24, D25 (7152) D24A, D25A (Part 2.23) D26 D29, D30 (Part 2.21) MD1 U1 AC-DC U2 AC-DC U3 U8 U10 U10, U11 (Late)	HS—Continued																	
	Vol. Tone		18	MR53	M26			80	12	TN129	.B8				12	6A8G, 6K7, 6Q7G, 6C5, 25L6, 25Z6	456	§9-1
	Vol. Treble		21	MR48				32-24-12	1/13	Order from	Mfr.				12	(AC) 6A8, 6K7, 6Q7, 6U5, 6C5G, 2A3, 5Z3, 45, or (AC-DC) 6A8, 6K7, 6Q7, 6U5, 6C5G, 25L6, 25Z6		
	Bass		17	MR44				Tuner Part No. 22	13	BB62					14	6A8, 6K7, 6Q7, 6U5, 6C5G, 25L6, 25Z6		
			†	MR35				10	15	BB12					14	6A8, 6K7, 6Q7, 6U5, 6C5G, 25L6, 25Z6		
			†	MR33				10	15	BB12					14	6A8, 6K7, 6Q7, 6U5, 6C5G, 25L6, 25Z6		
			†					Rectifier D2 15-15-8	3	See Note	.B3				14	6A8, 6K7, 6Q7, 6U5, 6C5G, 25L6, 25Z6		
			†					8	3	See Note	.B3				14	6A8, 6K7, 6Q7, 6U5, 6C5G, 25L6, 25Z6		
			15	MR48				Rectifier D2 120-105	1	See Note	.B133				11	(AC-DC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, 25L6, 25Z6, or (AC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, 25L6, 80		
			22	MR48				32-24-12	8	Order from	Mfr.				11	(AC-DC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, 25L6, 25Z6, or (AC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, 25L6, 80		
							10-10	15	TN111					11	(AC-DC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, 25L6, 25Z6, or (AC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, 25L6, 80			
		80	MR53				32-24-12	6/12	Order from	Mfr.				15	6K7, 6L7, 6Q7, 6G5, 6C5, 25L6, 25Z5	456	8-4	
		80	MR48	M26			80	12	TN129	.B8				15	6K7, 6L7, 6Q7, 6G5, 6C5, 25L6, 25Z5	456	8-4	
		7	Order from	Mfr.			10	15	BB12					15	6K7, 6L7, 6Q7, 6G5, 6C5, 25L6, 25Z5	456	8-4	
		45	MR48				10	13	BB62					6	6K7, 6K8, 6I16, 6F5, 6U5	456	11-6	
		†	MR33				10	15	BB12					6	6K7, 6K8, 6I16, 6F5, 6U5	456	11-6	
		†	MR35				10	15	BB12					6	6K7, 6K8, 6I16, 6F5, 6U5	456	11-6	
		†	N	6			32-24-12	1/13	Order from	Mfr.				3	6C5, 25L6, 25Z6		8-1	
		15	MR48				32-24-12	1/13	Order from	Mfr.				11	(AC-DC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, 25L6, 25Z6, or (AC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, 25L6, 80			
		22	MR48				10-10	15	TN111					11	(AC-DC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, 25L6, 25Z6, or (AC) 6A8G, 6K7, 6Q7G, 6F5G, 6U5, 25L6, 80			
		12	G12				3		2N516	.B11				5	30, 32, 71A	456	11-4	
		12	Y				4-8-2	3	3S584					8	24, 27, 45, 80		2-2	
		21	M				4-8-2	3	MN275					6	36, 37, 38, 80		2-4	
		8	K				4-8-2	3	MN275					6	36, 37, 38, 80		2-4	
		22	M	6			10	15	BB12					8	37, 38, 39, 80	175	5-2	
		7	H	6	2		8-8-2	3	3S584					8	37, 38, 39, 80	175	5-2	
		41	M				4	15	BB12					8	37, 38, 39, 80	175	5-2	
		17	M	6			4-4	1	2N518					8	37, 38, 39, 80	175	5-2	
		41	M				10-10	15	TN111					8	37, 38, 39, 80	175	5-2	
		6	E	6	2		16-16-16	63	See Note	.B77				6	6A7, 6C6, 6I16, 12Z3, 43, 25Z5	456	6-2	
		50	L				10-10	15	See Note	.B77				6	6A7, 6C6, 6I16, 12Z3, 43, 25Z5	456	6-2	
		17	MR53	M26			32-24-12	8	Order from	Mfr.				6	6A8G, 6K7, 6Q7G, 25A6G or 25L6, 25Z6G	456	8-2	
		57	MR44				10-10	15	TN111					6	6A8G, 6K7, 6Q7G, 25A6G or 25L6, 25Z6G	456	8-2	
APEX—See U. S. Radio & Tel.																		
APPEL HENDERSON																		
AC	Vol. Tone		6	G7	6	4		8	3	ST595				8	24, 27, 47, 51, 80	†	2-2	
DC Comb.	Vol. Tone		22	G12				4	3	ST595				8	24, 27, 47, 51, 80	†	2-2	
4 Tube	Vol. Tone		6	H7	6	5		5-1	†	See Note	.B4			8	33, 36, 37		2-1	
5 Tube Batt.	Vol. Tone		22	G12										4	32, 33, 36		2-4	
5 Tube AC	Vol. Tone		29	T										5	32, 36, 38		2-4	
	Vol. Tone		6	G7	6	4		4-8	1	2N518				5	35, 24, 47, 80		2-3	
	Vol. Tone		22	G12										5	35, 24, 47, 80		2-3	
ARBORPHONE 45	Vol.		10	E12				2-2-2-2	1/14	See Note	.B1			8	26, 27, 71, 80		§3-1	
ARCADIA—See Wells Gardner																		
ARGUS B125	Vol.		†					8-8-8	3	MN275				7	12, 99, BH		1-1	
B195	Vol. Sen.		18	M				†	†	See Note	.B3			8	99, 10, 281		1-1,2	
ARIEL RADIO 101	Vol.		3	Y				15-5	1	MN273				7	24, 27, 45, 80		§6-2	
ARKAY—See R. K. Radio Labs.																		
ARVIN—See Noblitt Sparks																		
ATCHISON RADIO MFG. CO.																		
5AC	Vol.		6	G7		5		†	†	See Note	.B3			7	24, 27, 45, 80		1-1	
5 (DC Speaker)	Vol.		6	G7		5		†	†	See Note	.B3			7	24, 27, 45, 80		1-1	
6AC	Vol.		6	G7		5		†	†	See Note	.B3			9	24, 27, 45, 80		1-2	
ATWATER KENT 37, 37C, 37F	Vol.	9510	5	SRP239				1.5-1	2	See Note	.B1			7	26, 27, 71A, 80		1-7	
38	Vol.	9510	5	SRP239				1.5-1	2	See Note	.B1			8	26, 27, 71A, 80		1-7	

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ATWATER KENT—Continued																		
40, 40F	Vol.	13320	5	SRP239		See Note	A12	1-1.5-1	3	See Note	B1				7	26, 27, 71A, 80	1-9	
41DC	Vol.	13550	5	SRP239		See Note	A12								7	26, 27, 71A, 80	1-11	
42, 42F	Vol.	13320	5	SRP239		See Note	A12	1-1.5-1	3	See Note	B1				7	26, 27, 71A, 80	1-9	
43	Vol.	13320	5	SRP239		See Note	A12								8	26, 27, 71A, 80	3-15, 19	
44, 44F, 45	Vol.	13320	5	SRP239		See Note	A12	1-1-1.5	3	See Note	B1				8	26, 27, 71A, 80	3-15, 19	
46, 47	Vol.	13320	5	SRP239		See Note	A12								8	26, 27, 71A, 80	3-15, 19	
52	Vol.	13320	5	SRP239		See Note	A12								7	26, 27, 71A, 80	1-9	
53	Vol.	13780	5	SRP239		See Note	A12								7	26, 27, 71, 80	3-19	
55, 55C (Early)	Vol.	14250	12	SRP241		See Note	A30	2-2.3-2.3	30	See Note	B1				7	21, 22, 745, 80	3-21	
55, 55C (Late)	Vol.	14250	12	SRP241		See Note	A30	2-2.3-2.3	30	See Note	B1				7	21, 22, 745, 80	3-23	
55F, 55FC (Early)	Vol.	14250	12	SRP241		See Note	A30	1.7-4-1	30	See Note	B1				7	21, 22, 745, 80	3-24	
55F, 55FC (Late)	Vol.	14250	12	DRP301		See Note	A12	1.7-4-1	30	See Note	B1				7	21, 22, 745, 80	3-26	
56, 57	Vol.	13780	5	SRP239		See Note	A12								7	26, 27, 71A, 80	1-9	
60, 60C (Early)	Vol.	14250	12	SRP241		See Note	A30	2-2.5-2.5	30	See Note	B1				8	21, 22, 745, 80	3-29	
60, 60C (Late)	Vol.	15170	52	DRP301		See Note	A12	2-2.3-2.3	30	See Note	B1				8	21, 22, 745, 80	3-31	
60, 60C (3rd Type)	Vol.	15170	25	DRP301		See Note	A30	1-2-1	30	See Note	B1				8	21, 22, 745, 80	3-32	
61, 61C (DC)	Vol.	14890	12	SRP241		See Note	A30	4-2	2	See Note	B11				9	22, 12A, 71A	3-36	
66	Vol.	15160	52	DRP301		See Note	A30	2.1-2.3-2.3	3	See Note	B2				9	21, 22, 750, 781	3-40, 41	
67, 67C	Vol.	14630	12	L											7	22, 12A, 71A	3-43	
D1 (70, 74, 76)	Vol.	16630	25	DRP301		See Note	A12	5-4-2-1	2	See Note	B11				7	22, 12A, 71A	3-47, 49	
D2 (70, 74, 76)	Vol.	16630	25	DRP301		See Note	A12	4-2-1-5	2	See Note	B11				7	22, 12A, 71A	1-35	
F (70, 74, 76)	Vol.	16630	25	DRP301		See Note	A12	4-1-5	2	See Note	B1				8	21, 22, 745, 80	3-46	
H1, H2 (72)	Vol.	16630	53	DRP302		See Note	A12	1-2-1	3	See Note	B1				9	24, 27, 745, 80	3-57	
L1 (70, 74, 76)	Vol.	16630	25	DRP301		See Note	A12	2.25		See Note	B9				8	21, 22, 745, 80	3-52	
L2 (70, 74, 76)	Vol.	16630	25	DRP301		See Note	A12	2-1-1-5	3	See Note	B1				8	21, 22, 745, 80	3-53	
P (75)	Vol.	20840	25	DRP301		See Note	A12	2.25		See Note	B9				8	21, 22, 745, 80	1-43	
Q (70, 76)	Phono.		25	A				2-1-1-5	1	See Note	B1				8	21, 22, 745, 80	1-43	
80, 80F	Vol.	20840	8	DRP303		See Note	A12	2.25		See Note	B9				7	201A, 222, 71A	3-56	
81, 81 (2nd), 81B, 81C	Vol.	21496	54	A5MP	6			23146	4	WE850					6	24, 335, 27, 47, 80	130 3-67	
82	Vol.	20990	7	A5MP	6			22538	4	WE850					7	36, 337, 38	3-69	
82D	Vol.	23228	15	N	6			23146/22538	4	WE850					7	24, 335, 27, 47, 80	130 3-75	
82F	Vol.	20990	7	N	6			20049	12	RS216					6	36, 337, 33	130 3-71, 72	
82Q (1st Type)	Vol.	16122	15	A550P	6			22538	4	WE850					7	21, 27, 335, 47, 80	130 3-75	
82Q (2nd Type)	Vol.	16122	15	N	6			23146	4	WE850					7	30, 332, 33	130 3-77	
83, 83F	Vol.	22330	8	L	6			22538 23146	12	WE850					7	30, 332, 33	130 3-79	
				A5MP	6			22538	4	WE850					6	24, 335, 27, 47, 80	130 3-67	
								23146	4	WE850					6	24, 335, 27, 47, 80	130 3-67	
84	Vol.	19040	15	N	6			3-4	1	2S567	B21				6	21, 27, 47, 80	130 3-84	
								22538	4	WE850					6	21, 27, 47, 80	130 3-84	
84 (Late)	Vol.	20180	7	SRP254	6			23146	4	WE850					6	21, 27, 335, 47, 80	130 3-85	
								22538	4	WE850					6	21, 27, 335, 47, 80	130 3-85	
84D	Vol.	23228	15	N	6			23146	4	WE850					6	21, 27, 335, 47, 80	130 3-85	
84F	Vol.	19040	15	N	6			20049	12	RS216					6	33, 336, 337	130 3-81	
84F (Late)	Vol.	20180	7	SRP254	6			22538	4	WE850					6	21, 27, 47, 80	130 3-84	
								23149	4	WE850					6	24, 27, 335, 47, 80	130 3-85	
84Q	Vol.	19040	15	N	6			22538	12	WE850					7	30, 332, 33	130 3-87	
85, 85F (Early Late)	Vol.	20030	8	A550P		See Note	A4	22538	4	WE850					7	24, 335, 27, 47, 80	130 3-82	
	Vol.	19040	8	Y500MP		See Note	A27	3-4	4	2S567	B21				7	24, 335, 27, 47, 80	130 3-82	
85Q (1st Type)	Vol.	16122	15	L				22538	12	WE850					7	30, 332, 33	130 3-91	
85Q (2nd Type)	Vol.	16122	15	L				22538	12	WE850					7	30, 332, 33	130 3-93	
86, 86F	Vol.	23410	8	A550P				22538	4	WE850					8	21, 27, 335, 47, 80	130 3-95	
								3-4	4	2S567	B21				8	21, 27, 335, 47, 80	130 3-95	
87	Vol.	22050	8	SRP254	6			2-2.3-2.3	3	See Note	B1				9	27, 335, 347, 80	130 3-99	
								25		See Note	B9				9	27, 335, 347, 80	130 3-99	
87D	Vol.	21816	25	DRP301		See Note	A12	20049	12	RS216					8	33, 336, 37, 38	130 3-103	
89, 89F, 89P	Vol.	20389	15	N	6			2-2.3-2.3	3	See Note	B1				10	21, 27, 335, 47, 80	130 3-1-3	
								25		See Note	B9				10	21, 27, 335, 47, 80	130 3-1-3	
90, 90F	Vol.	20840	8	A5MP	6			22538	4	WE850					7	24, 27, 335, 47, 80	130 3-109	
								23146	4	WE850					7	24, 27, 335, 47, 80	130 3-109	
91, 91B, 91C	Vol.	21496	54	UC503				22472	12	BB31					9	36, 337, 338	260 3-111	
92	Vol.	23228	13	N	6			22538	4	WE850					8	24, 335, 27, 47, 80	130 3-113	
								23146	4	WE850					8	24, 335, 27, 47, 80	130 3-113	
92F	Vol.	23228	13	N	6			22538	4	WE850					8	21, 27, 335, 47, 80	130 3-115	
								23146	4	WE850					8	21, 27, 335, 47, 80	130 3-115	
93 (SW Converter)								22397	4	WE850					8	21, 27, 335, 47, 80	130 3-115	
								22538	1	CS133					1	21, 27, 80	1000 3-117	
94, 94F	Vol.	22650	7	SRP254				19728	1	WE850					7	35, 24, 27, 47, 80	130 3-119	
								19728	4	WE850					7	35, 24, 27, 47, 80	130 3-119	
96 (1st Type)	Vol.	20389	13	N	6			3-4	4	2S567	B21				7	35, 24, 27, 47, 80	130 3-119	
								19060	4	WE851					8	21, 27, 335, 47, 80	130 3-121	
								1-2-1-5	1	See Note	B1				8	21, 27, 335, 47, 80	130 3-121	
								225		See Note	B9				8	21, 27, 335, 47, 80	130 3-121	
96 (2nd Type)	Vol. Tunlgt.	20389	13	N				19060	4	WE851					8	24, 27, 335, 47, 80	130 3-123	
		22152	1	K				1-2-1-5	1	See Note	B1				8	24, 27, 335, 47, 80	130 3-123	
								225		See Note	B9				8	24, 27, 335, 47, 80	130 3-123	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ATWATER KENT—	Continued																	
96 (3rd Type)	Vol. 20389	13	N				19060	4	WE851					8	2A2, 2B7, 35, 47, 80	130	3-125	
	ToneB'm 22345	1	M10MP				1-2-1-5	1	See Note	B1								
96F	Vol. 20389	13	N	6			19060	4	WE851					8	2A2, 2B7, 35, 47, 80	130	3-127	
	Tunlgt. 22152	15	K				2-2-1-1-5	1	See Note	B1								
99 (Types 1 and 2)	Vol. 20389	15	N	6			2-2-3-2-3	1	See Note	B1				10	2A2, 2B7, 35, 47, 80	130	3-129	
	Tunlgt. 22152	15	K				25	1	See Note	B9								
99 (3rd Type), 99F	Vol. 20389	15	N	6			2-2-3-2-3	1	See Note	B1				10	2A2, 2B7, 35, 47, 80	130	3-132	
	Tunlgt. 22344	15	H				25	1	See Note	B9								
99P	Vol. 22155	15	N	8			2-2-3-2-3	1	See Note	B1				10	2A2, 2B7, 35, 47, 80	130	3-132	
	Turdgt. 22344	1	H				25	1	See Note	B9								
112	Vol. 27674	20	TR1606	6			28031	28	WE851					12	2A3, 2B7, 5Z3, 56, 58	472.5	6-1-4	
							27583	28	RS216									
							25385	12	ST585									
							25384	12	ST595									
126	Vol. 32102	17	UM157-SS12				25379	15	BB12					6	6A8, 6F6, 6K7, 6Q7, 6X5	264	7-3	
							32136	4	2S567	B33	32138	294	C3					
135Z	Vol. 27425	19	N	6			25379	15	BB12					5	6A7, 43, 75, 78, 84	264	6-7	
							.003	1	Buffer	B14								
							26995	1	2N518		28449	F297	C3					
							22538	12	WE850									
							25379	15	BB12									
136	Vol. 32102	17	UM157-SS12				.05-.05	4	Buffer	B14								
							32136	4	2S567	B33	32138	294	C3	6	6K7, 6A8, 6Q7, 6F6, 6X5	264	7-3	
							25379	15	BB12									
							.003	1	Buffer	B14								
137	Vol. 23228	18	N	6			22538	4	WE850					7	58, 55, 56, 47, 80	125	7-7	
145	Vol. 27425	18	N	6			19060	1	WE851					5	2A7, 58, 2A6, 2A5, 80	264	5-7	
							27585	1	WE851									
							10	15	BB12									
E145, E145X	Vol. 23228	18	N	6			28031	1	WE851					5	2A7, 58, 2A6, 2A5, 80	125	7-9-11	
							27585	15	WE851									
							25379	15	BB12									
155	Vol. 24293	55	N	6			24602	9	3S582	B22				5	77, 44, 85, 43, 25Z5	262.5	3-179	
							25167	15	BB12									
155 (2nd Type)	Vol. 24293	55	N	6			24602	29	CM172	B107				5	77, 44, 75, 43, 25Z5	262.5	3-179	
							24939	29	BB31	B107								
							24955	29	3S582	B51								
155 (3rd Type)	Vol. 24293	55	N	6			124955	29	3S582	B32				5	77, 44, 75, 43, 25Z5	262.5	4-1	
165	Vol. 24293	55	N	6			25168	1	WE851					5	57, 58, 2A6, 2A5, 80	262.5	4-2	
							25167	15	BB12									
165 (2nd Type)	Vol. 24293	55	N	6			25168	1	WE851					5	57, 58, 2A6, 2A5, 80	264	5-9	
							25167	15	BB12									
165Q	Vol. 25692	27	MR48	M27		A95	23472	12	BB31					5	1A6, 34, 32, 30, 19	264	4-23	
168	Vol. 23228	18	N	6			22538	3	WE850					8	58, 55, 56, 47, 80	125	7-13	
184	Vol. 27567	2	Y	1			28031	25	WE851					4	6C6, 42, 80	450	7-15	
							27583	25	RS216									
185	Vol. 24293	55	N	6			25168	1	WE851					5	57, 58, 2A6, 2A5, 80	264	5-9	
							25167	15	BB12									
185A	Vol. 24293	55	N	6			25168	1	WE851					5	2A7, 58, 2A6, 2A5, 80	264	5-11	
							23379	15	BB12									
188, 188F	Vol. 20389	13	N	6			22538	25	WE850					8	58, 57, 47, 56, 80	130	3-135	
188, 188F (2nd Type)	Vol. 23228	13	N	6			22538	25	WE850					8	56, 58, 55, 57, 47, 80	130	3-137	
	Sil. 28220	12	A20MP															
206	Vol. 27425	18	N	6			27592	1/15	3S579	B111				6	2A7, 58, 2A6, 2A5, 80	472.5	5-13	
							22538	1	WE850									
206D	Vol. 27425	18	N	6			28403	39	2N516	B11				6	78, 6A7, 85, 43	472½	7-17	
E208	Vol. 29618	18	N	6			29691	1	RS216					8	6K7, 6A8, 6R7, 6F6, 5Z4	472½	7-19	
							27583	1	RS216									
							25379	15	BB12									
215Z	Vol. 27425	19	N	6			26995	1	2N518		28449	F297	C3	5	6A7, 78, 75, 43, 84	264	6-7	
							22538	1	WE850									
							.05-.05	1	Buffer	B14								
P216	Vol. 28961	18	N	6			28031	1	WE851					6	6D16, 6A7, 75, 42, 80	472½	7-21	
							27592	1/14/15	3S579	B111								
217	Vol. 24079	55	N	6			22538/25168	1	WE850					7	58, 55, 56, 2A5, 80	264	4-4	
							25379	15	BB12									
217D	Vol. 24079	55	N	6			23981	39	2S562	B11				7	78, 75, 43, 37	264	4-5	
228	Vol. 20389	13	N	6			22538	4	WE850					8	27, 21, 35, 47, 80	130	3-139	
228D	Vol. 20389	13	N	6			20049	12	RS216					6	36, 37, 33	130	3-143	
228F	Vol. 20389	13	N	6			22538	4	WE850					8	35, 24, 27, 47, 80	130	3-141	
							22397	4	CS133									
228Q	Vol. 16122	15	L				19728	12	WE851					7	32, 30, 33	130	3-145	
							23146	12	WE851									
							22538	12	WE850									
236	Vol. 24079	18	N	6			26381	1	ST595					6	58, 56, 2A6, 2A5, 80	125	7-23	
							25379	15	BB12									
237Q	Vol. 28961	18	N	6			31552	1	2N516			294	C3	7	1C6, 34, 1B5, 30, 19	472.5	6-12	
							29529	13	ST585									
							.015-.015	1	Buffer	B14								
246	Vol. 24079	55	N	6			24099	1	RM262					6	56, 57, 58, 55, 47, 80	262.5	3-147	

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ATWATER KENT—255	Continued Vol.	32398	19	TRP608				22538 27583	25 25	WE850 RS216					5	6A8, 6K7, 75, 6F6, 80	450	7-25
260, 260F (Types 1 and 2)	Vol.	20389	15	N	6			22538	2	WE850					10	58, 56, 54, 7, 80	130	3-149
260, 260F (3rd Type)	ToneB'm Vol.	27190	18	M15MP	6			22538	2	WE850					10	57, 58, 55, 56, 54, 7, 80	130	3-153
	ToneB'm Vol.	23228	18	N														
	ToneB'm Vol.	29020	12	M20MP														
	Sil.	28220	12	A20MP														
266	Vol.	24079	18	N	6			22538	1	WE850					6	57, 58, 55, 56, 47, 80	262.5	4-6
273D	Vol.	27190	118	N	6			8-8	39	2N516	B11			3	1A6, 34	264	7-26	
275	Vol.	25798	55	N	6			26158	29	UR190	B72			5	6A7, 44, 75, 43, 25Z5	264	4-7	
285Q	Vol.	29531	45	N	13			29529	12	ST585				5	1C6, 34, 32, 33, 30	450	6-13	
286	Vol.	28961	18	N	6			28031	1	WE851				6	58, 2A7, 2A6, 2A5, 80	472.5	6-15	
305Z	Vol.	28961	18	N	6			27592	1/14/15	3S579	B111			5	6A7, 78, 75, 43, 6Z4-81	264	6-9	
								26995	1	2N518		F297	C3					
								25379	15	BB12								
								.05-.05		Buffer	B14							
310	Vol.	25798	45	N	6			22538	3	WE850				10	58, 56, 2A5, 80	130	4-8	
	Sil.	26338	7	II														
312, E312	Vol.	27321	15	N				28031	1	WE851				12	6D6, 6A7, 76, 2A3, 5Z3	472 1/2	7-29	
								27583	1	RS216								
								29961	13	ST597								
								25384	13	ST595								
								29962	14	2N518								
								25379	15	BB12								
317	Vol.	28961	45	N	6			28031	1	WE851				7	6K7, 6A8, 6116, 6F5, 6F6, 5Z4	472.5	6-17	
								27592	1/14/15	3S579	B111							
318	Vol.	27321	55	N	6			28031	1	WE851				8	58, 2A7, 55, 2A5, 80	472.5	5-7	
325	Vol.	27425	18	N	6			19060	1	WE851				5	2A7, 58, 2A6, 2A5, 80	264	5-7	
								27585	1	RS213								
								10	15	BB12								
328 (Early)	Vol.	29618	18	N	6			29691	1	RS216				8	6K7, 6A8, 6116, 6F5, 6F6, 5Z1	472.5	6-18	
								27592	1/14/15	3S579	B111							
328 (Late)	Vol.	29618	18	N	6			31702	1/14/15	3S579				8	6K7, 6A8, 6116, 6F5, 6F6, 5Z1	472.5	7-33	
								28031	1	WE851				6	6D6, 6A7, 75, 42, 80	472 1/2	7-21	
P336	Vol.		18	N	6			27592	1/14/15	3S579	B111							
								28031	1	WE851								
337	Vol.	28961	45	N	6			27592	1/14/15	3S579	B111			7	6K7, 6A8, 6116, 6F5, 6F6, 5Z1	472.5	6-17	
								28031	1	WE851								
356	Vol.	28961	18	N	6			27592	1/14/15	3S579	B111			6	58, 2A7, 2A6, 2A5, 80	472.5	6-15	
								28031	1	WE851								
376	Vol.	27425	18	N	6			27592	1/14/15	3S579	B111			6	58, 2A7, 2A6, 2A5, 80	472.5	5-13	
								22538	1	WE850								
376D	Vol.		18	N				28403	39	2N516	B11			6	78, 6A7, 85, 243	472 1/2	7-18	
385Q	Vol.	29251	27	UC513	13			22472	12	BB31				5	1C6, 34, 32, 30, 19	264	6-19	
387	Vol.	25692	12	MR48	M27			22472	12	BB31				7	34, 1A6, 32, 30	264	4-9	
E412, E412X, P412, P412X	Vol.	27321	15	N	6			29691	46	RS216				12	6K7, 6A8, 6116, 6C5, 2A3, 5Z3	472 1/2	7-35	
								27583	46	RS216								
								25384	14	ST595								
								29962	14	2N518								
								29961	15	TN111								
415Q	Vol.	29531	45	N	13			29529	12	ST585				5	1C6, 34, 32, 33, 30	450	6-13	
416	Vol.	32102	17	UM157-SS12				32136	4	2S567	B33	32138	294	6	6K7, 6A8, 6Q7, 6F6, 6X5	264	7-3	
								25379	15	BB12								
								.003		Buffer	B14							
424	Vol.	23482	55	N				25385	1	ST585			226	4	77, 44, 75, 41	264	4-11	
								24379	15	BB12								
								25384	1	ST595								
								.01-.01		Buffer	B14							
425	Vol.	24079	55	N	6			25168	1	WE851				5	57, 58, 2A6, 2A5, 80	264	4-24	
								25379	15	BB12								
								26381	1	ST595								
427	Vol.	24079	55	N	6			25168	15	WE851				7	58, 56, 55, 2A5, 80	264	4-4	
								25971	39	BB12								
427D	Vol.	24079	55	N	6			25971	39	2S562	B11			7	78, 75, 37, 43	264	4-5	
427Q	Vol.	25692	12	MR48	M27			22472	12	BB31				7	1A6, 34, 32, 30	264	4-9	
435	Vol.	29482	18	N				28031	25	WE851				5	6A8, 6K7, 75, 6F6, 80	450	6-21	
								27585	25	RS216								
								25379	15	BB12								
435 (2nd Type)	Vol.	29482	18	N	6			8	25	RS213				5	6A8, 6K7, 75, 6F6, 80	450	7-37	
								16	25	RS216								
446	Vol.	32102	17	UM157-SS12				32136	4	2S567	B33	32138	294	6	6K7, 6A8, 6Q7, 6F6, 6X5	264	7-3	
								25379	15	BB12								
								.003		Buffer	B14							
447	Vol.		55	N	6			28031	1	WE851				7	58, 2A7, 2A6, 2A5, 80	472.5	7-39, 40	
								4	13	WE450								
								10	15	BB12								
448	Vol.	23228	55	N	6			22538	3	WE850				8	58, 55, 54, 56, 80	130	4-12	
	Sil.	24711	7	E														
465Q	Vol.	27966	27	UC513	7			22472	12	BB31				5	1C6, 34, 32, 30, 19	264	6-23	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ATWATER KENT— 467Q.....	Continued Vol.	28961.....	18	N.....	6			31552 29529 .015-.015 22538	1 1 1	2N516 ST585 Buffer WE850	B14	32138.....	294	C3	7	1C6,34, 1B5, 30, 19, 6Z4.....	472.5	6-12
469.....	Vol. ToneB'm	20389..... 27190..... 23228.....	13 13 18	N..... SRP267 N.....	6 6			22538	2	WE850					9	58,56,47, 80.....	130	3-155
469 (2nd Type).....	Vol. Sil. ToneB'm	28220..... 29020..... 23228.....	12 12 18	A20MP M20MP N.....	6			23981	39	2S562	B11				8	39, 36, 37, 85,48.....	130	3-163
469D.....	Vol. Sil. ToneB'm	28220..... 20389..... 27190.....	12 13 13	A20MP N..... SRP267	6			22538	2	WE850					9	58,56,47, 80.....	130	3-155
469F.....	Vol. ToneB'm	20389..... 23228.....	13 18	N..... A20MP	6			22538	2	WE850					9	58, 56, 57, 55,47, 80.....	130	3-157
469F (2nd Type).....	Vol. Sil. ToneB'm	28220..... 29020..... 23182.....	12 12 15	A20MP M20MP N.....	6			22472 28031	12 1	BB31 WE851					9	31,32,430.....	130	3-165
469Q.....	Vol.	28961.....	18	N.....	6			27585 25379	1 15	RS213 BB12					5	2A7, 58, 2A6, 2A5, 80.....	264	6-27
475.....	Vol.	28961.....	18	N.....	6			22538	1	WE850					10	58,56,47, 80.....	472.5	3-159
480.....	Vol. ToneB'm	23376..... 27190.....	13 18	N..... SRP267	6			29529 28031	12 12	ST585 WE851					5	1C6,34, 1B5, 33.....	450- 472.5	7-41
485Q.....	Vol.	27321.....	55	N.....	6			28031	1	WE851					7	58, 2A7, 2A6, 2A5, 80.....	472½	7-43
487.....	Vol.	29144.....	64	N.....				27592 22538	1/14/15 3	3S579 WE850	B111				9	58, 2A7, 56, 55, 2A5, 80.....	472½	7-45
509.....	Vol.	25798.....	45	N.....	6			22538	3	WE850					10	58,56,2A5, 80.....	130	4-8
510.....	Vol. Sil. Vol.	26338..... 27732.....	7 55	H TRP606				22538 25185 27911	1 12 24	WE850 ST585 WE1650					11	58, 2A7, 2B7,56,2A3, 5Z3.....	472.5	6-29,31
511.....	Vol.	25798.....	45	N.....	6			25384 25379	24 15	ST595 BB12					8			
515Q.....	Vol.	26564.....	55	N.....	6			28031 29529	12 12	WE851 ST585					5	1C6,34, 1B5, 33.....	450	7-41
525.....	Vol.	26564.....	55	N.....	6			25168 25167	1 15	WE851 BB12					5	57, 58, 2A6, 2A5, 80.....	264	5-9
525Q.....	Vol.	26718.....	27	UC513.....	7	A95		26381	1	ST595					5			
534.....	Vol.	21496.....	55	N.....				22472 25385 24379	12 1 15	BB31 ST585 BB12		25595	226	C3	4	1A6, 34, 32, 30, 19, 77, 44, 75, 41.....	264 450	4-23 4-11
545.....	Vol.	29482.....	18	N.....	6			25384 25379	1 15	WE850 ST595	B14				5	6A7, 6D6, 75, 42, 80.....	472.5 08 450	6-35
555.....	Vol.	24293.....	55	N.....	6			25384	1	ST595					5	47, 55, 57, 58, 80.....	262.5	4-14
555 (2nd Type).....	Vol.	24293.....	55	N.....	6			25384 25184	1 1	ST595 ST595					5	57, 58, 55, 47, 80.....	262.5	4-15
556.....	Vol.	32102.....	17	EM157-SS12				32273 25379	1 15	2N518 BB12		32138	294	C3	6	6K7G, 6A8C, 6Q7G, 6X5G, 6P6G.....	264	7-49
557.....	Vol.	27321.....	55	N.....	6			.01-.01 22538	1 1	Buffer WE850	B14				8	58, 2A7, 55,2A5, 80.....	472.5	5-29
558.....	Vol. Sil.	23228..... 28220.....	55 12	N..... A20MP	6			25384	1	ST595					8	58, 55, 56, 57, 47, 80.....	130	3-169
558D.....	Vol. Sil.	23228..... 28220.....	55 12	N..... A20MP	6			23981	39	2S562	B11				8	39, 37, 36, 85,48.....	130	3-163
558Q.....	Vol.	23482.....	15	N.....				22472	12	BB31					9	30,32,431.....	130	3-165
559.....	Vol.	27321.....	55	N.....	6			22538	3	WE850					9	58, 55,2A5, 80.....	472.5	5-25
565Z.....	Vol.	28961.....	18	N.....	6			26995 25379	1 15	2N518 BB12		28149	F297	C3	5	6A7, 78, 75, 43, 6Z4- 81.....	264	6-9
567, 567F.....	Vol.	20840.....	8	A5MP	6			.05-.05 22538	1 4	Buffer WE850	B14				7	35, 24, 47, 27, 80.....	130	3-167
E608.....	Vol.	29618.....	18	N.....	6			29961	1	ST597					8	6D6, 6A7, 85, 42, 80.....	472½	7-51
612.....	Vol. ToneB'm	23228..... 29020..... 28220.....	55 12 12	N..... M20MP A20MP	6			22538 23498 23479	2 2 15	WE850 WE150 BB11					12	58, 56, 57, 55,46,83.....	130	3-171
625Q.....	Vol.	29251.....	27	UC513.....	13			22472	12	BB31					5	1C6, 34, 32, 30, 19.....	264	6-19
627.....	Vol.	24293.....	55	N.....	6			22538	1	WE850					7	58, 56, 55, 47, 80.....	130	3-173
636.....	Vol.	24098.....	55	N.....	6			24298	1	BB31					6	39, 36, 85,411.....	262.5	3-181
E648.....	Vol.	29618.....	18	N.....	6			29961	1	ST597					8	6D6, 6A7, 85, 42, 80.....	472½	7-51
649.....	Vol.	27321.....	17	N.....				29961 25379	1 15	WE1650 BB12					9	6K7, 6A8, 6116, 6C5, 6F6, 5Z1.....	472.5	6-37
655Q.....	Vol.	27966.....	27	UC513.....	7	A95		22472	12	BB31					5	1C6, 34, 32, 30, 19.....	264	6-23
657Q.....	Vol.	31731.....	18	MR48.....	M27			31552	24	2N516					7	1C6,34, 1B5,30.....	472.5	7-55,56
665.....	Vol.	24079.....	55	N.....	6			25168 26381	1 1	WE851 ST595					5	57, 58, 2A6, 2A5, 80.....	264	4-24
666.....	Vol.	26505.....	55	UC512.....	6			25379 26995 25379	15 1 15	BB12 SR605 BB12	B23	27005	296	C3	6	6D6, 6A7, 85, 41 6Z4-B4.....	264	5-31

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ATWATER KENT— 667.....	Continued Vol.	24079.....	55	N.....	6			22538.....	1	WE850.....					7	*58, 56, 55, 2A5, 80.....	264	4-4
667D.....	Vol.	24079.....	55	N.....	6			25379.....	15	BB12.....					7	*78, 37, 75, *43.....	264	4-5
708.....	Vol.	24079.....	55	N.....	6			23981.....	39	2S562.....	B11				8	*58, 2A6, 2A5, 80.....	472.5	4-17
710.....	Vol.	27321.....	18	N.....				22538.....	1	WE850.....					10	*6D6, 6A7, 6B7, *76, *45, 5Z3.....	472½	7-65
711.....	Vol. Sil.	25798..... 26338.....	55 7	N..... H.....	6			25167.....	15	BB12.....					11	*58, 55, *56, *2A3, 5Z3.....	472.5	4-21
725, 725X.....	Vol.	29482.....	18	N.....	6			28031.....	25	WE851.....					5	6A8, 6K7, 75, 6F6, 80.....	450	7-57
735.....	Vol.	28961.....	18	N.....	6			27585.....	25	RS213.....					5	2A7, 58, 2A6, 2A5, 80.....	264	6-27
747Q.....	Vol.	31734.....	18	MR48.....	M27			28031.....	1	WE851.....					7	1C6, *31, 1B5, *30.....	472.5	7-55, 56
P755.....	Vol.	28961.....	18	N.....	6			27585.....	1	RS213.....					5	6A7, 6D6, 75, 42, 80.....	264	7-59
756, 756B.....	Vol.	21496.....	55	MR48.....				25379.....	15	BB12.....					6	*39, 36, 85, *41.....	262.5	3-183
E765.....	Vol.	28961.....	18	N.....	6			24298.....	1	BB31.....					5	6A7, 6D6, 75, 42, 80.....	472½	7-61
768Q.....	Vol.	27965.....	18	N.....	7			28031.....	1	WE851.....					8	1C6, *31, *30, 32.....	472.5	6-38
776.....	Vol.	26505.....	55	UC512.....	6			27583.....	1	RS216.....					6	6A7, *6D6, 41, 81, 85.....	264	6-41
788.....	Vol. Sil.	25798..... 26338.....	55 7	N..... H.....	6			25379.....	15	BB12.....					8	*58, 2A6, 2A5, 80.....	472.5	5-37
808.....	Vol.	24079.....	55	N.....	6			22538.....	1	WE850.....					5	*58, 2A6, 2A5, 80.....	472.5	4-17
808A.....	Vol.	24079.....	55	N.....	6			25379.....	15	BB12.....					8	*58, 2A6, 2A5, 80.....	472.5	4-22
810.....	Vol.	31608.....	19	TRP606.....	6			22538.....	1	WE850.....					10	*6K7, 6A8, 6116, 6C5, *6F6, 5Z1.....	472.5	6-44
812.....	Vol. Sil.	23228..... 29020..... 28220.....	55 1 12	N..... M20MP..... A20MP.....	6			29964.....	15	TN111.....					12	*58, 56, 57, 55, *46, *83.....	130	3-175
816.....	Vol.	26505.....	55	UC512.....	6			22538.....	1	WE850.....					6	*39, 6A7, 85, *41.....	264	5-13, 44
825 AC-DC.....	Vol.	27731.....	55	N.....	6			26092.....	1	SR611.....	B30		226	C3	5	6A7, 41, 75, 43, 25Z5.....	264	5-47
854.....	Vol.	27567.....	2	Y.....	6			.05-.05.....	29	Buffer.....	B14				4	*57, 2A5, 80.....	450	
856.....	Vol.	28961.....	45	N.....	6			26158.....	1	UR190.....	H72				6	6A8, 6K7, 6116, 6F5, 6F6, 5Z4.....	264	6-45
P875.....	Vol.	28961.....	18	N.....	6			22538.....	1	WE850.....					5	6A7, 6D6, 75, 42, 80.....	264	7-59
926.....	Vol.	26505.....	55	UC512.....	6			27584.....	1	ST595.....					6	*39, 6A7, 85, *41.....	264	5-43
936.....	Vol.	26505.....	55	UC512.....	6			28031.....	1	WE851.....					6	*39, 6A7, 85, *41.....	264	5-43
944.....	Vol.	27567.....	2	Y.....	6			27583.....	1	RS216.....					4	*57, 2A5, 80.....	450	5-49
976.....	Vol.	28961.....	45	N.....	6			27584.....	25	WE850.....					6	6A8, 6K7, 6116, 6F5, 6F6, 5Z4.....	264	6-45
978Q.....	Vol.	27965.....	55	N.....	7			28031.....	25	WE851.....					8	1C6, *31, *30, 32.....	472.5	6-38, 39
AUBURN A5A3.....	Vol.	W30436A.....	18	UC514.....	6			27583.....	1	RS216.....					5	*78, 6F7, 6B7, 42.....	181.5	
AUDIOLA—Also see Jr.....	Fairbank s-Morse.		6	G7.....	6		A14	W32759.....	1	RS213.....		LB32037.....	217	C3	5	*21, 45, 80.....		1-7
Jr. No. 1.....	Tone		6	G12.....	6		A14	W32802.....	1/15	SR605.....	B23				6	*21, 27, 45, 80.....		2-6
Jr. No. 2, 6 Tube.....	Tone		6	G7.....	6		A14	.005.....		Buffer.....	B14				6	*21, 27, 45, 80.....		2-6
4 Tube Pent. 1931.....	Tone		6	G12.....	6		A14								6	*21, 27, 45, 80.....		2-6
4 Tube, '32.....	Tone		6	G7.....	6		A14								4	35, 21, 47, 80.....		2-2
6 Tube Pent. '31.....	Tone		6	G7.....	6		A14								4	35, 21, 47, 80.....		3-1
7 Tube Sup. Pent. '31.....	Tone		6	G12.....	6		A14								6	*35, 21, 27, 47, 80.....		1-7
8 Tube Sup. Pent. '31.....	Tone		6	G7.....	6		A14								7	*35, *21, 27, 47, 80.....	177.5	2-1
	Tone		6	M.....	6										8	*35, *27, *24, 47, 80.....	177.5	1-8

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AUDIOLA—Continued																		
9 Tube Sup. Pent. '31	Vol.		6	G7	6		A14	8-8	1	See Note	B3			9	353, 227, 224, 47, 80	177.5	2-4	
10 Tube Sup. '31	Vol.		6	G7		3		8-8	1	See Note	B3			10	324, 227, 245, 80	177.5	2-3	
B6	Vol.	V6502	41	O														
	Vol.		18	UC512				8-8	25	CM172		297	C3	6	6D6, 6A7, 75, 41, 84	177.5	5-1	
9T45	Vol.		6	G7	6	3		.02	1	Buffer	B14			9	335, 227, 224, 45, 80	177.5	2-3	
	Tone		21	O				8, 8	1	RS213				6	224, 27, 35, 47, 80	177.5	6-3	
13S6	Vol.		6	G12			A14											
	Tone		22	See Note			A5											
13S9	Vol.		6	G7		3		4-4	3	2N518	B28			9	335, 24, 227, 247, 80	177.5	2-4	
	Tone		22	M				8	3	ST595	B28							
13T5	Vol.		6	G7	6		A14	4-4	1	See Note	B3			5	335, 24, 47, 80	177.5	5-4	
	Tone		22	M														
23S7 Auto	Vol.		15	L				8-8	1	2N518		302S	C1	7	339, 36, 85-Wunderlich, 37, 79, BR	177.5	4-1	
	Vol.		20					.05	15	BB15		292	C1					
23S8 (1st Type)	Vol.		6	G7		3		8, 8	1	RS213	B43			8	335, 224, 227, 47, 80	177.5	3-2	
	Tone		22	K12				5	19	BB12								
23S8 (2nd Type)	Vol.		15	N				8, 8	4	RS213				8	358, 356, 57, 47, 80	177.5	3-2	
	Tone		22	K12														
23S8Q	Vol.		15	L	6			8, 8	1	RS213				8	335, 227, 24, Wunderlich, 47, 80	177.5	3-3	
	Tone		22	See Note			A5	5	17	BB12				10	358, 356, 57, 47, 80	177.5	3-4	
23S10	Vol.		45	M	6			8, 8	4	RS213								
	Tone		22	K12														
23S10 (2nd)	Vol.		45	M	6			12	4	RS215				10	358, 57, 356, 2A5, 80	177.5	4-3	
	Tone		22	K12				8	4	RS213								
23S12	Vol.		45	M	6			8	3	WE850				12	358, 356, 57, 246, 83	177.5	3-5	
	Tone		22	K12				8, 8	3	RS213								
23S12 (Revised)	Vol.		45	M	6			8	3	WE850				12	358, 356, 57, 259, 5Z3	177.5	5-3	
	Tone		22	K12				12	3	RS215								
			22					8	3	RS213								
23T5	Vol.		6	G7	6		A14	4-4	1	See Note	B3			5	335, 24, 47, 80	177.5	3-6	
23T5 SW	Vol.		6	G12	6	EX300		6-1	4	See Note	B3			5	335, 24, 47, 80	177.5	3-6	
30B	Vol.		12	D12				1-3-3	3	See Note	B1			7	224, 27, 145, 80	177.5	1-4	
31 Series	Vol.		6	G7			A14	8-8-8	3	See Note	B1			7	224, 27, 345, 80	177.5	1-5	
	Tone		41	O		See Note	te A4											
31 Super	Vol.		6	G7			A14	8-8-8	3	MN275				9	224, 227, 245, 80	177.5	1-6	
	Vol.		41	O		See Note	te A4											
	Tone		22	M														
32S11	Vol.		45	N				8-8-8	25	RS213	B3			11	335, 227, 24, 247, 80	177.5	6-3	
	Tone		22	K12														
33A6	Vol.		15	L			A15	8-8	1	2N518		225	C3	6	6D6, 6C6, Wunderlich, 37, 89	177.5	4-5	
	Vol.		5					.02	15	BB12								
33S5	Vol.		6	K12	6		A14	16-8	6	2N504	B90			5	6D6-78, 6C6-77, 43, 25Z5	456	4-7	
33S5 (Rev.)	Vol.		6	K12	6		A14	5	15	BB12				5	358, 57, 2A5, 80	456	5-4	
33S6	Vol.		15	L	6			8-8	4	RS213				6	339, 36, Wunderlich, 89, BR	177.5	4-6	
33S6B	Vol.		6	K12				20	15	2N518		302S	C1	6	32, 334, 30, 19	450	5-6	
33S7	Vol.		45	N						BB15		225	C4	5	358, 57, 356, 2A5, 80	456	4-7	
	Tone		22	K12	6			8-4	4	See Note	B3							
33S7 Auto	Vol.		15	L				8-8	1	2N518		302S	C1	7	6C6, 6D6, 37, 79, 85	177.5	4-4	
	Vol.		15									292	C1	8	BR-84	177.5	4-4	
33S8 32V	Vol.		15	N				8-8	1	2N518		F312	C2		339, 337, 85, 79, 84-BR	177.5	4-4	
	Tone		22	K12				.005	15	BB12								
								.01		See Note	B44							
33S10 SW	Vol.		15	M				12	4	ST596				10	358, 57, 55, 56, 2A5, 80	456	5-5	
	Tone		22	K12	6			8	4	ST595								
33T4	Vol.		6	K12	6			4-4	1	2N516				4	6D6-78, 6C6-77, 38-89, 12Z3-37	456	4-7	
34C5 (AC-DC)	Vol.		17	N	6			5	15	BB12				5	6A7, 6D6, 75, 43, 12Z3	456	5-6	
	Vol.		17	M	6			16-8	6	2N504	B90			5	2A7, 58, 2A6, 2A5, 80	456	5-7	
34S5	Vol.		17	M	6			5	15	BB12				5	2A7, 58, 2A6, 2A5, 80	456	5-7	
34S5 LW	Vol.		6	K12	6			8, 8	4	RS213				5	2A7, 58, 57, 2A5, 80	456	5-8	
51, 52	Vol.		17	N				8, 8	4	RS213				5	2A7, 58, 2A6, 2A5, 80	456	5-8	
	Tone		22	K12				5	15	BB12								
53	Vol.		18	N				8, 8	4	RS213				5	2A7, 58, 2A6, 2A5, 80	456	5-8	
	Tone		22	K12														
346	Vol.		17	UC512	6			8-8	25	2S567	B24	297	C3	6	6D6, 6A7, 75, 41, 84	177.5	5-1	
	Tone		22	K12				.02		Buffer	B14							
347	Vol.		17	N	6			8-8	25	See Note	B3	297	C3	7	6D6, 6A7, 85, 41, 84	177.5	5-2	
	Tone		44	K12				.02		Buffer	B14							
516 (2-volt bat. set)	Vol.		134	K12										5	32, 334, 30, 19	177.5	1-10	
889	Vol.		4	A				1-5-2-2-2		See Note	B1			7	26, 27, 171, 80	177.5	1-4	
7330	Vol.		12	D				1-3-3		See Note	B1			7	224, 27, 145, 80	177.5	1-4	
8430	Vol.		7	Z				1-3-3-5		See Note	B1			8	227, 245, 80	177.5	1-3	

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AUSTIN																		
A.....	Vol.		6	F7.....	6		A14	8, 8.....	1	RS213.....					5	24, 45, 80.....	6-1	
J.....	Vol.		6	E7.....	6		A14	8-8.....	1	2N518.....					6	24, 45, 80.....	6-1	
S.....	Tone		22	H12.....														
S.....	Vol.		6	F7.....	6			8, 8.....	1	RS213.....					8	24, 27, 45, 80.....	175	6-2
SP.....	Tone		149	G12.....														
SP.....	Vol.		6	F7.....	6		A14	8, 8.....	1	ST595.....					8	51, 27, 24, 47, 80.....	175	6-3
SP.....	Tone		149	G12.....														
AUTOCRAT																		
Jr. 4.....	Vol.		6	G12.....	6			8-4.....	25	2S567.....					4	57, 47, 80.....		4-2
4SA.....	Vol.		6	G12.....	6	See Note	A14	12-12.....	1	2N506.....					4	6D6, 6C6, 43, 25Z5.....		5-2
4LW.....	Vol.		6	J.....	6	EX300		10.....	15	BB12.....								
5.....	Vol.		17	UM154.....		See Note	A96	8-4-4.....	8	See Note.....	B3				1	6D6, 6C6, 43, 25Z5.....		4-3
								8-8.....	4	2S567.....	B33		292	C3	5	6A7, 6D6, 6B7, 41, 84.....	456	5-1
								10.....	15	BB12.....								
								.008-.008.....		See Note.....	B14							
5M.....	Vol.	2016.....	6	MR18.....	M26	EX450		316.....	1	TN122/BB12.....					4	6D6, 6C6, 43, 25Z5, L55B.....		9-2
5SA (55SA).....	Vol.		17	N.....	6			10-5-25.....	11	UR182.....					5	6A7, 6D6, 75, 43, 25Z5.....	456	5-1
6.....	Vol.		17	N.....	6			10.....	15	BB12.....					5	57, 58, 55, 56, 2A5, 80.....	175	4-3
6 (Revised).....	Tone		22	N.....				4-4.....	1	2N518.....					6			
6 (Revised).....	Vol.		56	N.....				7-4.....	1	2N518.....					6	2A7, 58, 56, 2B7, 2A5, 80.....	175	5-2
6D32.....	Tone		22	N.....				10.....	15	BB12.....					6			
6D32.....	Vol.		18	N.....				8-4.....	4	2S567.....		See Note		C7	5	6A7, 6D6, 75, 41, 84.....	175	5-2
6D32.....	Tone		22	K12.....														
56SW, 57SW.....	Vol.	2016B.....	6	MR18.....	M26	EX450		312.....	4	BB22.....					4	6D6, 6C6, 25L6G, 25Z5, L55B.....		9-2
								324.....	4	BB25.....								
57C.....	Vol.		6	G12.....	6	EX300		4-4.....	25	2S567.....	B24				4	58, 57, 47, 80.....		4-4
80.....	Vol.		69	G12.....		See Note	A14	4-4.....	25	2S567.....	B24				5	58, 57, 47, 80.....		4-4
90SL.....	Vol.		15	N.....				8-8.....	1	2N518.....					9	57, 58, 2B7, 56, 2A5, 80.....	175	5-3
90.....	Tone		21	N.....														
90.....	Vol.	24-130.....	18	MR53.....	M27			18-243.....	19	BB12.....					4	1A7G, 1N5G, 1H5G, 1Q5G.....	455	11-1
91.....	Vol.	24-136.....	6			See Note	A5	18-249.....	24	2N509.....					2	12B8GT, 32L7GT.....		11-3
92.....	Vol.	24-135.....	18	UM154.....	M26		A96	18-246.....	24	FPT359.....	B117	34-102.....	850	C3	5	6SA7, 6D6, 75, 41, 84.....	455	11-5
93.....	Vol.	24-130.....	18	MR53.....	M27			.005.....	19	Buffer.....	B14				4			
94.....	Vol.	24-132.....	18	MR48.....	M26			18-241.....	1	2N507.....					5	1A7G, 1N5G, 1H5G, 1Q5G.....	455	11-6
95.....	Vol.	24-132.....	18	MR48.....	M26			18-241.....	1	2N507.....					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, BK49B.....	455	11-6
96.....	Vol.	24-132.....	18	MR48.....	M26			18-241.....	1	2N507.....					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT.....	455	11-3,4
98.....	Vol.	24-138.....	18	MR53.....	M27			18-250.....	12	BB20.....					4	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, BK49B.....	455	11-6
1011, 101O, 101W.....	Vol.	24-139.....	18	MR48.....	M26			18-251.....	24	2N513.....					3	1A7GT, 1N5GT, 1H5GT, 1C5GT.....	455	11-3,4
1021, 102O, 102W.....	Vol.	24-142.....	18	MR48.....	M26			18-241.....	1	2N507.....					5	12SA7GT, 25D8GT, 70A7GT.....	455	11-3
1031, 103O, 103W.....	Vol.	24-142.....	18	MR48.....	M26			18-241.....	1	2N507.....					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L7GT, 25Z6GT, BM198.....	455	11-7
104.....	Vol.	24-117.....	6	MR36.....	M26			18-230.....	1/15	TN125.....					4	6SK7GT, 6SQ7GT, 25L6GT, BM198.....	455	11-7
106.....	Vol.	24-124.....	18	MR48.....	M26			18-236.....	24	2N514.....		34-103.....	246A	C3	4	6K7, 6P5, 25L6, 25Z6, 6D8G, 6S7G, 6T7G, 6Q6G.....	455	11-1,2
1071, 107W.....	Vol.	24-146.....	18	MR48.....	M26			.004.....		Buffer.....	B14				6	6SA7GT, 6P5GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT.....	455	11-7
109, 110.....	Vol.	24-146.....	45	MR48.....	M26			18-254.....	1	FPT227.....	B117				6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT.....	455	11-7
								18-243.....	19	BB15.....					6	6K6GT, 5W4GT.....	455	11-7
112.....	Vol.	24-145.....	45	MR48.....	M26			18-254.....	1	FPT227.....	B117				6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT.....	455	11-8,9
								18-243.....	19	BB15.....					6	6K6GT, 5W4GT.....	455	11-8,9
113.....	Vol.	24-145.....	18	MR48.....	M26			18-255.....	1	2N514.....					6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT.....	455	11-8,9
114.....	Vol.	24-144.....	45	MR48.....	M26			18-256.....	1	FPT234.....					7	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT.....	455	11-8,9
								18-243.....	19	BB15.....					7	6K6GT, 6P5GT, 5W4GT.....	455	11-8,9
115.....	Vol.	24-144.....	18	MR48.....	M26			19-261.....	1	BB27.....					8	12SA7GT, 12SK7GT, 12SQ7GT, 12E5GT, 250L6GT, 245Z5GT.....	455	11-10
116.....	Vol.	24-138.....	18	MR53.....	M27			18-250.....	12	BB20.....					4	1A7GT, 1N5GT, 1H5GT, 1C5GT.....	455	11-8,9

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
AUTOCRAT—Continued																			
118	Vol.	24-144	18	MR48	M26			18-254 18-243	1 19	FPD227 BB15	B117				6	6SA7GT, 6SK7GT, 6SQ7GT, 6P5GT, 6K6GT, 5W4GT...	455	11-10	
119	Vol.	24-144	18	MR48	M26			18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 6P5GT, 25L6GT, 25Z5GT...	455	11-10	
120	Vol.	24-138	18	MR53	M27			18-257 18-258 18-259	24 24 1	TN129 BB22 BB19	B8				5	1A7GT, 1N5GT, 1P5GT, 1A5GT, 35Z4GT	455	11-10	
121	Vol.	24-146	18	MR48	M26			18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 6P5GT, 25L6GT, 25Z6GT...	455	11-11	
123	Vol.	24-143	45			See Note	A19	18-256 18-243	1 19	FPD234 BB12					7	6SA7GT, 6P5GT, 6SK7GT, 6SQ7GT, 6K6GT, 5W4GT...	455	11-11	
125	Vol.	24-146	18	MR48	M26			18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 6P5GT, 25L6GT, 25Z6GT...	455	11-11	
130	Vol.	24-124	18	MR48	M26			18-232 18-235	6 15	RS208 BB12					5	6A7, 6D6, 75, 25L6G, 25Z5, BM498...	455	11-12	
131	Vol.	24-150	18	MR53				18-263 18-262	24 24	2N509 2S554					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-1	
142	Vol.	24-127	6			See Note	A5	18-234	1/15	3N534					4	6D6, 6F5G, 25L6G, 25Z5	455	11-12	
148, 148-2	Vol.	24-123	127	MR53	M26			18-226	1	2S568					6	6A7, 6D6, 75, 76, 6AC5G, 80	455	11-13	
168	Vol.	24-123	127	MR53	M26			18-226	1	2S568					7	6A7, 6D6, 75, 76, 6AC5G, 6G5, 80	455	11-13	
213	Vol.	26-118	22	MR48				18-241	1	2N507					2	6A7, 76	455	11-2	
359	Vol.	26-118	22	MR48				4-4 .0038	23	CM172 Buffer	B14		Order from Mfr.		5	6A7, 6D6, 6Q7G, 4I, 84	456	11-14	
401, 401V	Vol.	24-152	18	MR48	M26			18-265	24/15	3N534					4	12SA7, 12SQ7, 50L6GT, 35Z5GT...	455	12-2	
406	Vol.	24-152	7			See Note	A5	5	15	BB11					4	6D6, 6C6, 38, 12Z3	455	7-2	
411	Vol.	24-152	18	MR48	M26			18-265	24/15	3N534					4	12SA7, 12SQ7, 50L6GT, 35Z5GT...	455	12-2	
422	Vol.	24-154	18	MR53	M27			18-250	19	BB20					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	12-2	
431	Vol.	24-148	18	MR53	M27			18-250	19	BB20					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	12-1	
501, 501U	Vol.	24-153	18	UM154	M26			18-266	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT...	455	12-3	
503	Vol.	24-153	18	UM154	M26			18-266	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT...	455	12-3	
505	Vol.	505B	18	UM154	M26			505F 5 .03	1 15	2N518 BB11 Buffer		505V	294	C3	5	6A7, 6D6, 75, 41, 84	456	7-1	
518, 618	Vol.	24-153	17	UM154				4-8 4	4	2S567 BB11	B14		505V	294	C3	6	6D6, 6C6, 75, 41, 84	456	7-2
521	Vol.	24-153	18	UM154	M26			.0075 18-266	15 24	BB11 Buffer	B14				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT...	455	12-3	
531	Vol.	24-150	18	MR53				18-263 18-262	24 24	2N509 2S554					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-1	
533	Vol.	24-150	18	MR53				18-263 18-262	24 24	2N509 2S554					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-1	
601	Vol.	24-153	18	UM154	M26			18-266	22	2N513					6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT...	455	12-4	
611	Vol.	24-146	18	MR48	M26			18-267	1/15	FPT339					6	6SK7, 6SA7, 6SQ7, 6K6GT, 5W4GT...	455	12-4	
AUTOMATIC																			
A1	Vol.	AS508	17	N				AG511 .02	4	2S567 Buffer	B33 B14		AV506	503	C3	5	6A7, 6D6, 75, 41, 84	480	7-3
A5	Vol.		17	UM154		See Note	A96	4-8 .02	4	2S567 Buffer	B33 B14		AV506	503	C3	5	6A7, 6D6, 75, 41, 84	480	7-3
B10, B10P, B10LW, B15	Vol.	RV14	88	UM160-SS1	M26	EX200		CE8	24/15	4S15/BB21	B256				4	6D6, 6C6, 43, 25Z5	456	8-2	
B30 Series I	Vol.	RV18	18	N	6			CE15	1/15	2N513/TN111					5	6A7, 6D6, 75, 43, 25Z5	456	8-2	
B30 Series II	Vol.	RV18	18	M	6			CE20	23	2P549					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-3	
B37, B38	Vol.	RV18	18	M	6			CE20	23	2P549					6	6A7, 6D6, 6Q7G, 25L6G, 6E5, 25Z5	456	8-3	
B40 Series II	Vol.	RV24	18	M	6			CE16	1/15	4S15					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-4	
B70, B80, B85, B85LW	Vol.	RV24 RV17	18 21	M N	6			CE11 5	1/13 15	TN127 BB11					7	6A7, 6D6, 37, 6E5, 6C6, 25B6, 25Z5	456	8-6	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AUTOMATIC—Continued																		
B100	Vol.	RV18	18	M	6			CE21	23	2P549					6	6A7, 6D6, 76, 75, 25L6G, 25Z5	456	
C4	Vol.		7	J	6	EX300		5-20-8	24/15	UR182					3	6D6, 6C6, 25A8	7-1	
D5	Vol.	RV14	88	UM160-SS1	M26	EX200		CE8	24/15	4S715/BI32	B256				4	6D6, 6C6, 43, 25Z5	7-2	
D55	Vol.		88	MR48				16-16-8	24/13	2N506/BI32					4	6D6, 6C6, 43, 25Z5	9-1	
J50	Vol.		17	UM154			A96	4-8	4	BB12		AV506	503	C3	5	6A7, 78, 75, 41, 84	480	
J60	Tone		21	MR48				.02		2S567	B33							
J60	Vol.		17	UM154			A96	4-8	4	Buffer	B14	AV506	503	C3	6	6A7, 78, 75, 41, 6E5	480	
J80	Tone		17	MR48				.02		2S567	B33							
J80	Vol.	ARV16	17	UM161	M26		A96	1082010	1	Buffer	B14	108512	503	C3	8	78, 6A7, 75, 76, 41, 84	456	
J80	Tone	ARV15	22	MR44				.02		2N518	B14							
M10	Vol.	RV19	18	MR48	M26			CE130	40	2S568	B33	V200	294	C3	5	6A7, 6D6, 75, 41, 84	456	
M20	Vol.	RV19	18	MR48	M26			.007		Buffer	B14							
M20	Tone	RV30	21	MR48				CE130	40	2S568	B33	V200	294	C3	5	6A7, 6D6, 75, 41, 6X5	456	
M60	Vol.	RV19	17	MR48	M26			.007		Buffer	B14							
M66	Sen.	RV20	7	D				CE12	4	2S568	B33	V100	294	C3	6	6D6, 6A7, 6Q7G, 41, 81	456	
M66	Vol.		18				See Note A5	12-12	40	2S568	B14		850	C3	6	6K7GT, 6A8GT, 6Q7GT, 41, 6X5GT	456	
M70	Vol.	RV15	18	UM154	M26		A96	CE12H	23	2S568	B33	V94	294	C3	6	6D6, 6A7, 6Q7G, 41, 6X5	456	
M70	Tone	RV22	22	MR34				8	13	ST585								
M80	Vol.	RV15	18	UM154	M26		A96	.007		BB11	B14							
M80	Tone	RV22	21	MR34				CE12H	23	2S568	B33	V94	294	C3	8	6D6, 6A7, 6Q7G, 76, 6B5, 0Z4	456	
M80	Sen.	RV21	48	C100P				8	13	ST585								
P25	Vol.		12	Y250MP	6			.008	4	Buffer	B14							
P35, 34	Vol.		12	K12	6			8-8	4	See Note	B3							
P40	Vol.		18	MR51	M27			8, 8	4	ST595								
P40								200-30-25	†	See Note	B3							
P41	Vol.		18	MR51	M27			25-20-20-200	†	See Note	B3							
P43	Vol.		18	UM158	M27		A96	20	12	BB25								
P45	Vol.		18	UM158	M27		A96	20	12	BB25								
P50	Vol.		18	MR51	M27			30-25-200	†	See Note	B3							
P51	Vol.		18	MR51	M27			25-20-10-200	†	See Note	B3							
P57, P58	Vol.		18	UM158	M27		A96	10-10	24	2N506								
P61	Vol.		18	UM158	M27		A96	20	24	BB25								
P61								100	24	HC2501								
P61								10-10	24	2N506								
P61								20	24	BB25								
P61								100	24	HC2501								
P72	Vol.		18	MR51	M27			25-20-10-200	24	FPQ407	B3							
P224 (Midget Tom Thumb)	Vol.		12	Y				8, 8	4	ST595								
R6, R61, R63	Vol.		17	N				20-16-5-5	1/15	4S715								
S6	Vol.		7	F	6	2		20-8-5-5	6/15	4S715								
44, V45, V46, C45, P46	Vol.		7	A5MP				8, 8	4	ST595								
100, 101	Vol.		88	MR39	M26			20-20	24	2N509								
102	Vol.		18	MR44				20, 20	25	BB25								
105, 106	Vol.		18	MR44				20, 20	25	BB25								
110, 111	Vol.	RV-46	18	MR44				20, 20	25	BB25								
115	Vol.		18	MR44				20, 20	25	BB25								
116, 117	Vol.		18	MR44				20, 20	25	BB25								
120	Vol.		18	MR44				20, 20	25	BB25								
125	Vol.		18	MR44				20, 20	25	BB25								
130	Vol.		18	MR44				20, 20	25	BB25								
135	Vol.	RV-50	18	MR48	M26			20-20	10	FPD227								
								4	10	BB20								

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
AUTOMATIC—Continued																		
140AC.....	Vol.		18	MR48				50-30	24	FPD214					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	456 12-9	
145AC.....	Vol.		18	MR48				50-30	24	FPD214					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	456 12-10	
148AC.....	Vol.		18	†		A3		20-20-20	10	See Note	B3			5	12SA7, 12SK7, 12SQ7, 35L6, 50Y6	480 12-11		
152AC.....	Vol.	RV-46	18	MR44				20-20	24	FPD208				4	12K7, 12SQ7, 50L6, 35Z5	12-12		
155.....	Vol.	RV-46	18	MR44				20-20	24	FPD208				4	12K7, 12SQ7, 50L6, 35Z5	12-12		
158.....	Vol.	RV-46	50	MR44				20-20	24	2N509				3	12SQ7, 50L6, 35Z5	12-13		
160.....	Vol.	RV-46	50	MR44				20-20	9	2N509	B190			3	12SQ7, 50L6, 50Y6	12-13		
	Tone	RV-52	22	MR44				20	9	BB25	B190							
170.....	Vol.	RV-46	50	MR44				20-20	9	2N509	B190			3	12SQ7, 50L6, 50Y6	12-13		
	Tone	RV-52	22	MR44				20	9	BB25	B190							
175AC.....	Vol.	RV-46	18	MR44				30-20	10	2N514				6	7C6, 12SA7, 12SK7, 7B7, 35L6, 50Y6	456 12-14		
								20	10	BB25								
								10	15	BB12								
400, 401.....	Vol.		88			See Note	A3	10-20	24	2N507				4	6K7GT, 6J7GT, 25L6GT, 25Z6, BM55V	11-5		
								20	†	BB25								
402, 403, 404, 405, 406.....	Vol.		18	MR48				20, 20	25	BB25				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456 11-6		
408.....	Vol.		18	MR48				20, 20	25	BB25				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456 11-6		
420.....	Vol.		18	MR44	M26			20-20	1	2N509				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5	456 11-7		
430.....	Vol.		18	MR44	M27			20, 20	25	BB25				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5, T51	456 11-7		
432.....	Vol.		18	MR48	M26			20-20	1	2N509				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	456 11-6		
434A.....	Vol.		18	MR48	M26			20-20	1	2N509				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5	456 11-7		
436.....	Vol.		18	MR44	M26			20, 20	25	BB25				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	456 11-7		
440, 441.....	Vol.		18	MR48				20, 20	25	BB25				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456 11-6		
442, 443.....	Vol.		18	MR48				20, 20	25	BB25				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456 11-6		
444.....	Vol.		18	MR48				20, 20	25	BB25				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456 11-6		
446.....	Vol.		18	MR48				20, 20	25	BB25				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456 11-6		
448.....	Vol.		18	MR44	M26			20, 20	25	BB25				5	6K8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, BM49B	456 11-5		
450.....	Vol.		18	MR44	M26			20, 20	25	BB25				5	6K8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, BM49B	456 11-5		
452.....	Vol.		18	MR44	M26			20, 20	25	BB25				5	6K8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, BM49B	456 11-5		
454.....	Vol.		18	MR44	M26			20-20	25	BB25				5	6K8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, BM49B	456 11-5		
480.....	Vol.		18	MR48				20-20	25	BB25				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT, BM49B	480 11-6		
845.....	Vol.		18	MR39	M26			20, 20	25	BB25				5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456 9-2		
850.....	Vol.	RV18	18	M	6			CE20	23	2P549				6	6A7, 6D6, 6Q7G, 6E5, 25L6G, 25Z5	456 8-8		
855.....	Vol.	RV18	18	M	6			40-20	4	BB27/BB25				6	6A7, 6D6, 76, 6Q7G, 25L6G, 25Z5	456 9-3		
860.....	Vol.	RV18	18	M	6			5	19	BB12				6	6A7, 6D6, 76, 6Q7G, 25L6G, 25Z5	456 9-3		
								CE21	23	2P549				6	6A7, 6D6, 76, 75, 25L6G, 25Z5	456		
878.....	Vol.	RV29	18	M	6			CE22	4	BB27/BB25				8	6A7, 6D6, 76, 6U5, 6C6, 25B6G, 25Z5	456 9-4		
	Tone	RV31	22	N				5	20	BB12								
892.....	Vol.		18	M	6			CE24	24	TN129				10	6A7, 6D6, 76, 6C5, 75, 25L6G, 25Z5	456 9-5,6		
	Tone		41	N				5	15	BB12								
	Sen.		7	F		A14												
911.....	Vol.		18	MR51	M26			20-20	40	See Note	B3		850	C3	5	6A8, 6K7GT, 6SQ7GT, 6W6GT, 6X5GT	456 11-8	
								.02		Buffer	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
AUTOMATIC—Continued																		
933, 935.....	Vol.		88	MR53.....	M26			16-16.....	24	2N506.....					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT.....	9-2	
933 Series 2.....	Vol.	RV34.....	88	MR53.....	M26			8.....	13	BB21.....					4	6K7GT, 6J7GT, 25A6GT, 25Z6GT.....	9-1	
939.....	Vol.		18	MR48.....				CE36.....	6/13	FPT354.....					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, BM49B.....	480 11-3	
949.....	Vol.		18	MR48.....				5.....	15	BB12.....					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, BM49B.....	480 11-3	
950, 955.....	Vol.		18	MR53.....	M26			20, 20.....	25	BB25.....					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT.....	456 9-2	
960, 963.....	Vol.		18	MR39.....	M26			20, 20.....	25	BB25.....					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5G.....	456 9-2	
975.....	Vol.		18	MR44.....	M26			20, 20.....	25	BB25.....					6	6K8GT, 6D6, 6Q7GT, 25L6G, 25Z6GT, 6G5, BM43B.....	456 11-3	
979.....	Vol.		18	MR44.....	M26			20, 20.....	25	BB25.....					6	6K8GT, 6K7GT, 6Q7G, 25L6G, 25Z6GT, 6G5.....	456 11-3	
988.....	Vol.		18	MR44.....	M26			20, 20.....	25	BB25.....					6	6K8GT, 6D6, 6Q7GT, 25L6G, 25Z6GT, 6G5.....	456 11-3	
JR (AR224).....	Vol.		15	UM154.....			A96	E1365GL.....	1	UR189.....	B29		292	C3	6	6D6, 37, 6C6, 41, 84.....	56-3	
Tom Thumb Portable.....	Vol.		18	MR44.....	M26			.02.....		Buffer.....	BB14				4	1R4, 1T4, 1S5, 1S4.....	456 12-1	
SG4 (Tom Thumb) Tom Thumb (Steering Post).....	Vol.		31	A400P.....											4	22, 99.....	1-1	
	Vol.		7	G.....											4	78, 77, 41.....	4-1,2	
AZTEC RADIO CO. Aztec.....	Vol.		6	G12.....			A14	8-8.....	1	2N518.....					5	24, 47, 80.....	53-2	
BAIRD—See Gen. Electronics Corp.																		
BALDWIN																		
45.....	Vol.		6	II12.....				2-4.....	4	See Note.....	B33				4	221, 45, 80.....	4-1	
47.....	Vol.		6	Y.....				2-8.....	4	See Note.....	B33				4	35, 21, 47, 80.....	4-1	
54.....	Vol.		18	UM154.....			See Note	6-10.....	4	See Note.....	B33		294	C3	5	6A7, 6D6, 75, 42, 84.....	†	
							See Note	.02.....		Buffer.....	BB14				6	6D6, 6A7, 75, 42, 84.....	†	
64.....	Vol.		18	UM154.....			See Note	6-10.....	4	See Note.....	B33		294	C3	6	6D6, 6A7, 75, 42, 84.....	†	
							See Note	.02.....		Buffer.....	BB14				8	24, 27, 45, 80.....	†	
80.....	Vol. Sen.		6 7	II12 M1MP.....				2-2.....	1	See Note.....	B1				8	24, 27, 45, 80.....	†	
BALKEIT																		
A3, A5, A7.....	Vol.		11	K12.....				†.....	3	See Note.....	B1				8	27, 212A, 80.....	1-2	
B7, B9.....	Vol.		3	FI2.....				2-3-4.....	3	See Note.....	B7				9	501A, 50, 281, 10.....	1-1	
C.....	Vol. Sen.		6 7	II12 M2MP.....				2-2-2.....	3	See Note.....	B1				9	27, 45, 80.....	1-3	
D5.....	Vol.		7	K.....	6		A10	4-4.....	4	2S567.....	B33				5	50, 56, 47, 80.....	4-3	
E.....	Vol. Tone		6 22	II12 G12.....				8-4.....	3	2N518.....					6	24, 27, 45, 80.....	3-4	
F.....	Vol. Tone		6 18	II12 N.....				8-8-8.....	3	MN275.....					8	27, 24, 45, 80.....	1-4	
G16A, G19B.....	Vol. Tone		18 34	N.....			See Note	4.....	32	WE450.....					6	6A7, 6K7, 6I16, 6F5, 6F6, 80.....	456 6-2	
G20.....	Vol. Tone		44 18	N.....			See Note	8-4.....	32	2N518.....					7	6A8, 6K7, 6I16, 6A6, 6F6, 80.....	456 6-3	
G200X.....	Vol. Tone		18 44	N.....			See Note	8-4.....	32	WE450.....					7	6A8, 6K7, 6I16, 6A6, 6F6, 80.....	456 6-3	
GT16A.....	Vol. Tone		44 18	N.....				8-4.....	32	2N518.....					5	6C6, 6D6, 75, 43, 25Z5.....	456 6-1	
GT33.....	Vol.		18	UC509.....			EX300	4-8-12.....	8	TN122.....					6	6A7, 6D6, 75, 43, 25Z5.....	456 6-4	
GT156BA.....	Vol.		45	N.....	7			10-10.....	15	TN111.....					6	1C6, 34, 330, 32, 33.....	456 6-5,6	
								18-6.....	6	2N504.....					6	6A7, 6D6, 75, 43, 25Z5.....	456 6-4	
								5-5.....	15	TN111.....					6	6A7, 6D6, 75, 43, 25Z5.....	456 6-4	
								8-8.....	1	2N518.....			P402	245C	6	1C6, 34, 330, 32, 33.....	456 6-5,6	
								.01-.01.....		Buffer.....	BB14				5	24, 47, 80.....	3-5	
								8, 8.....	4	ST595.....					5	24, 47, 80.....	3-5	
KP.....	Vol. Tone		6 22	II12 O.....											7	5Z4, 6F5, 6F6, 6I16, 6K7, 6L7, 6C5.....	456	
L5.....	Vol. Tone	P660 P661	18 34	N.....	6			P474.....	32	WE450.....					7	5Z4, 6F5, 6F6, 6I16, 6K7, 6L7, 6C5.....	456	
								P160.....	32	2S567.....	BB1				8	5Z4, 6C5, 6F6, 6K7, 6L7, 6Q7.....	456	
L6.....	Vol. Tone	P660 P661	18 44	N.....	6			P304.....	15	BB12.....					8	5Z4, 6C5, 6F6, 6K7, 6L7, 6Q7.....	456	
								P474.....	32	WE450.....					8	5Z4, 6C5, 6F6, 6K7, 6L7, 6Q7.....	456	
								P160.....	32	2S567.....	BB1				8	5Z4, 6C5, 6F6, 6K7, 6L7, 6Q7.....	456	
								P304.....	15	BB12.....					8	5Z4, 6C5, 6F6, 6K7, 6L7, 6Q7.....	456	
L7 ('36).....	Vol. Tone	P691	45	SRP275.....	7			P391.....	1	2N516.....			P402	245C	7	1C6, 19, 330, 334.....	456	
								.01-.01.....		Buffer.....	BB14				7	27, 51, 24, 47, 80.....	175 3-6	
L7 ('31).....	Vol. Tone	P682	4	L.....				8, 8.....	4	RS213.....					7	27, 51, 24, 47, 80.....	175 3-6	
								O.....							21			
L8.....	Vol. Tone		7 41	II O.....	6			4-4-4.....	3	3S584.....					8	51, 27, 47, 80.....	175 4-9	

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
BALKEIT—Continued																		
M	Vol. Tone		6	H12			EX300		8-8	4	RS213				4	24, 47, 80	4-2	
ML1, ML2	Vol.		22	O					4	7	RS213				6	6A7, 6K7, 6116, 6F5, 6F6, 80	456	
SG6	Vol.		18	SRP275					8-4	7	2N518				6	24, 27, 45, 80	4-1	
Z4	Vol. Tone		6	H12					8-4	3	2N518				6	24, 27, 45, 80	4-1	
Z4	Vol. Tone		22	G12					4	3	ST595				6	24, 27, 45, 80	4-1	
Z4	Vol. Tone		45	SRP275	7				P391	1	2N516		P402	245C	C3	6	1C6, 19, 330, 32, 34	456
Z5	Vol. Tone		44	L					.01-.01		Buffer	B14			6	1C6, 19, 330, 32, 34	456	
Z5	Vol. Tone		45	SRP275	7				P958	1	2N516		P402	245C	C3	6	1C6, 19, 330, 32, 34	456
Z5	Vol. Tone		44	L					.01-.01		Buffer	B14			6	1C6, 19, 330, 32, 34	456	
38	Vol.		6	MR48	M26		EX250		8-8	24	2N502				4	6D6, 6C6, 38, 12Z3	5-1	
41A	Vol.		15	N					10	15	BB12				4	6D6, 6C6, 38, 12Z3	5-1	
41A	Vol.		6	MR48	M26		EX250		8-4	1	2N518				6	6A7, 6D6, 6116, 6F5, 6F6, 80	456	
42E, 42G	Vol.		6	G12			EX200		4-4	25	2S567	B33			4	58, 57, 47, 80	4-5	
45	Vol.		6	UC509			EX250		12-8	6	2N504	B90			4	6D6, 6C6, 43, 25Z5	5-2	
48	Vol.		6	UC509			EX250		10	15	BB12				4	6D6, 6C6, 38, 25Z5	5-2	
48	Vol.		6	UC509			EX250		16-12	1	2N506				4	6D6, 6C6, 38, 25Z5	5-2	
52-1	Vol. Tone		6	H12					10-10	15	TN111	B6			4	6D6, 6C6, 38, 25Z5	5-2	
52-1	Vol. Tone		22	O					4-4	4	2S567	B33			5	58, 57, 47, 80	4-6	
54	Vol.		18	UM154			See Note A96		6-10	4	See Note	B3		294	C3	5	6A7, 6D6, 75, 42, 84	†
55	Vol.		6	H12					.02	4	Buffer	B14			5	57, 58, 47, 80	4-7	
59	Vol.		6	G12	6		EX200		4-4	4	2S567	B33			5	6A7, 6D6, 75, 43, 25Z5	456	
60	Vol.	718	18	N	6				20-20	6	2N509				5	6A7, 6D6, 75, 42, 80	456	
64	Vol.	718	18	UM154			See Note A96		10-10	15	TN111	B33			6	6A7, 6D6, 75, 42, 80	456	
64	Vol.	718	18	UM154			See Note A96		701	23	2S567	B33			6	6A7, 6D6, 75, 42, 80	456	
69	Vol.		6	G7	6	2			6-10	4	See Note	B3		294	C3	6	6A7, 6D6, 75, 42, 84	†
69	Vol.		6	G7	6	2			.02	6	Buffer	B14			6	6A7, 6D6, 85, 443, 25Z5	456	
70	Vol.	718	18	N	6				20-20	6	2N509				6	6A7, 6D6, 85, 443, 25Z5	456	
100	Vol. Tone		17	O					3	13	BB20				5	6A7, 6D6, 75, 42, 80	456	
100	Vol. Tone		41	O					10	23	BB12				10	58, 55, 56, 45, 82	175	
100	Vol. Tone		41	O					4-4	3	See Note	B3			10	58, 55, 56, 45, 82	175	
100	Vol. Tone		41	O					20	20	BB15				10	58, 55, 56, 45, 82	175	
BARKER BROS.																		
L	Vol.		15	N	6				4	3	HS690				10	58, 57, 55, 56, 46, 82	262	
M	Vol. Tone Sil.		15	N	6				8-4	3	See Note	B3			10	57, 58, 56, 55, 59, 82	262	
M	Vol. Tone Sil.		22	UC502					8-8	1	See Note	B3			10	57, 58, 56, 55, 59, 82	262	
P(2 Types)	Vol. Tone		15	N	6		See Note A5		4	15	See Note	B3			7	57, 58, 56, 55, 59, 82	262	
P(2 Types)	Vol. Tone		22	UC502					4	1	ST595				7	57, 58, 56, 55, 59, 82	262	
Tempo Tone	Vol. Treble Bass		15	MR48					8	1	ST595				12	6SK7, 6KA7, 6SJ7, 6116, 6J5, 6U5, 6L6, 80	456	
Tempo Tone	Vol. Treble Bass		103	MR53					10	15	BB12				12	6SK7, 6KA7, 6SJ7, 6116, 6J5, 6U5, 6L6, 80	456	
Tempo Tone	Vol. Treble Bass		103	MR48					37-266	1	FPT389				12	6SK7, 6KA7, 6SJ7, 6116, 6J5, 6U5, 6L6, 80	456	
Tempo Tone	Vol. Treble Bass		103	MR48					33-266	1/13	FPT389				12	6SK7, 6KA7, 6SJ7, 6116, 6J5, 6U5, 6L6, 80	456	
BEL CANTO—See A	mrad.																	
BELL TONE—See A	arking																	
BELMONT RADIO CORP.																		
4BA2	Vol. Tone		18	MK402	M27				119-117-B	12	BB22				4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	
5DA1	Vol.		18	MK402	M26				119-92	24	FPT354	B8			5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	
8AE1	Vol. Tone		20	MK402			See Note A19		119-109	1/13	FPT390				8	6SK7, 6SA7, 6SQ7, 6J5GT, 6F6GT, 5Y3GT	455	
11AE2	Vol.		127	MK401					119-112	46	FPT383				11	6SK7, 6SA7, 6SQ7, 6J5GT, 6V6GT, 6U5, 5Y3GT	455	
40AC	Vol.		7	G		2			119-69	13	BB4				4	35, 24, 47, 80	3-7	
40A, 41A, 42A	Vol.		7	G		2			4-4	4	See Note	B3			4	58, 57, 47, 80	3-7	
40DC, 45, 46	Vol.		6	G12					8	4	ST595				4	58, 57, 47, 80	3-7	
50	Vol. Tone		7	G					4	4	ST595				4	58, 57, 47, 80	3-7	
50A, 51A, 52A, 53A, 54A	Vol.		22	G12					1	4	See Note	B7			4	36, 37, 38	3-1	
50B, 51B, 52B, 53B, 54B	Vol.		7	G			A14		6, 6	4	ST595				5	51, 24, 47, 80	3-2	
50C, 51C, 52C, 53C, 54C	Vol. Tone		6	G12					4-4	4	See Note	B3			5	35, 24, 47, 80	3-3	
50C, 51C, 52C, 53C, 54C	Vol. Tone		6	G12					6	4	ST595				5	24, 35, 47, 80	175	
50C, 51C, 52C, 53C, 54C	Vol. Tone		22	K12					4	4	ST595				5	24, 35, 47, 80	175	
50F, 55F	Vol.		7	Z			A14		8	4	ST595				5	57, 58, 47, 80	175	
50F, 55F	Vol.		7	Z			A14		4	4	ST595				5	57, 58, 47, 80	175	
50F, 55F	Vol.		7	Z			A14		25	17	BB15				5	39, 36, 38, 12Z3	5-1	
50F, 55F	Vol.		7	Z			A14		4-8	1	2N516				5	39, 36, 38, 12Z3	5-1	
50F, 55F	Vol.		7	Z			A14		5-5	15	TN111				5	39, 36, 38, 12Z3	5-1	

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replace- ment	*Note				
BELMONT—Continued																		
53.....	Vol.	V601.....	17	N.....	6			C525.....	11	UR182.....	B31				5	6A7, 6D6, 75, 43, 25Z5.....	456	
60, 61, 62, 63, 64...	Vol. Tone		6 22	G12 K12				6.....	4	ST595.....					6	24, 27, 35, 47, 80.....	175	3-5
65, 66.....	Vol. Tone		6 41	G12 N.....			A14	4.....	1	See Note.....	B11				6	36, 37, 38.....		
70.....	Vol. Tone		7 22	G..... K12				6.....	4	ST595.....					7	51, 27, 47, 80.....	175	3-6
70A, 71A, 72A, 73A, 74A.....	Vol. Tone Supp.		56 22 7	O..... K12 K.....				8..... 4..... 10.....	4 4 17	ST595..... ST595..... BB12.....					7	58, 57, 56, 55, 47, 80.....	175	5-1
71C.....	Vol. Supp. Tone		56 7 22	O..... K..... K12.....				P1047..... P1048.....	1/15 1	2N518..... WE850.....					7	58, 57, 56, 55, 2A5, 80.....	175	5-2
100, 101, 102, 103, 104	Vol. Tone Supp.		45 22 7	O..... K12..... K.....	6 6			8-4-8.....	5	See Note.....	B3				10	58, 57, 56, 55, 83.....	175	5-1
110.....	Vol. Tone		62 22	O..... L.....			A14	4-4-4.....	26	See Note.....	B3				11	35, 27, 47, 80.....	175	3-9
151.....	Vol.	101-238.....	18	MK401.....	M26			119-92.....	24	FPT354.....	B8				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT.....	455	12-1, 2
401.....	Vol.	P101-17.....	8	UC501.....		EX100		P119-10.....	1/15	3S579.....					4	58, 57, 2A5, 80.....		6-1
401 Series B.....	Vol.	P101-17.....	8	UC501.....		EX100		P119-10.....	1/15	3S579.....					4	6K7, 6J7, 6F6, 5Z4 or 5Y3.....		7-1
403A.....	Vol.	101-163.....	18	MK402.....	M27			119-35.....	19	BB15.....					4	1A7G, 1N5G, 1H5G, 1C5G.....	465	10-1
404.....	Vol. Fil.	101-26..... 101-25.....	6 29	Order from M4R.....	Mfr.....										4	1A6, 32, 33.....	465	6-3
407.....	Vol.	101-173.....	18	MK402.....	M27			119-75.....	19	BB12.....					4	1A7G, 1N5G, 1H5G, 1A5G.....	465	11-1
408 Series A.....	Vol.	101-107.....	18	UM154-SS18.....	M26			119-58..... 119-57..... .003.....	24 24/15	BB26..... 2N506..... Buffer.....		126-8.....	246	C3	4	6D8, 6S7, 6T7, 6K6.....	465	9-1
411 Ser. A.....	Vol.	101-173.....	18	MK402.....	M27			119-75.....	19	BB12.....	B14				4	1A7G, 1N5G, 1H5G, 1A5G.....	465	11-3
415 Series A.....	Vol. Tone Fil.	101-56..... 101-59..... 101-44.....	56 21 29	MR53..... MR53..... C6R.....	M27			119-28..... .005.....	1	2N516..... Buffer.....		126-4.....	246	C3	4	1A6, 1A4, 1F6, 1F4.....	465	8-1
415 Series B.....	Vol. Tone	101-56..... 101-72.....	18 22	MR53..... MR44.....	M27			119-28..... .005.....	1	2N516..... Buffer.....		126-4.....	246	C3	4	6D8G, 6S7G, 6T7G, 1F5G.....	465	8-2
418 Ser. A.....	Vol.	101-155.....	18	MK402.....	M27			119-52.....	19	BB15.....	B14				4	1A7G, 1N5G, 1H5G, 1A5G.....	456	10-3
420.....	Vol.	P101-7.....	7	Z.....	6	EX100	A10	119-1.....	1/15	2N502/TN111.....					4	6D6, 76, 38, 12Z3.....		5-3, 4
425.....	Vol.	V600.....	7	Z.....	6	EX100		C538.....	11	UR182.....	B31				4	6E7, 6D7, 43, 25Z5.....	456	4-1
430.....	Vol.	P101-7.....	7	Z.....	6	EX100		119-3.....	6/15	4S715.....					4	6D6, 76, 12A5, 12Z3.....		5-3, 4
440.....	Vol.	P101-3.....	7	Z.....	6	EX100	A10	P103-1.....	11	2N507/BB21.....	B113				4	6D6, 6C6, 43, 25Z5.....	456	5-5
444EX.....	Vol.	P101-29.....	8	UC501.....	6	EX100		P119-18.....	1	3S579.....					4	6D6, 6C6, 43, 12Z3.....		6-5
460 Ser. A.....	Vol.	101-175.....	18	MK402.....	M27			119-75.....	19	BB12.....					4	1A7G, 1P5G, 1H5G, 1C5G.....	465	11-2
460.....	Vol. Tone	101-175..... 101-119.....	18 22	MK402..... O.....	M27			119-75..... 119-28B.....	19 1	BB12..... 2N516.....		126-4.....	246	C3	4	6D8G, 6S7G, 6T7G, 6K6G.....	465	9-3
489 Series A.....	Vol.	101-91.....	18	O.....	7			119-22..... .005.....	15	BB12..... Buffer.....	B14				5	1D7, 1D5, 1H4, 1G5.....	465	9-2
501 Series A.....	Vol. Fil.	101-116..... 101-117.....	64 29	MK402..... M6R.....	M27			119-52.....	20	BB15.....					5	6D8G, 6S7G, 6T7G, 1F5G, 6N5.....	465	9-5
504 Series A.....	Vol. Tone	101-56..... 101-72.....	18 22	O..... MR44.....	7			119-28..... .005.....	1	2N516..... Buffer.....	B14	126-4.....	246	C3	5	6D8G, 6S7G, 6T7G, 6K6G, 6ZY5G.....	465	9-6
505 Series A.....	Vol.	101-91.....	18	O.....	7			119-24B..... 119-22..... .008.....	4 15	SR633..... BB12..... Buffer.....		126-6.....	294	C3	5	6D8G, 6S7G, 6T7G, 6K6G, 6ZY5G.....	465	9-6
507A.....	Vol.	101-210.....	18	UM161-SS22.....	M27			119-104.....	76	FPT304.....	B14				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT, 5459.....	465	11-5
509.....	Vol.		18				See Note A3	119-116.....	19	BB25.....					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT.....	455	12-41, 42
510, Ser. A.....	Vol.	101-196.....	18	UM154-SS22.....	M26T			119-92.....	24	FPD211.....					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT.....	465	11-6
511A.....	Vol.	101-160.....	18	MK400.....	M27			119-52.....	19	BB15.....					5	1A7G, 1N5G, 1H5G, 1C5G.....	465	11-7
513A.....	Vol.	101-210.....	18	UM161-SS22.....	M27			119-104.....	76	FPT304.....					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT, 5459.....	465	11-5
517 Series A.....	Vol. Tone	101-94..... 101-59.....	18 21	MR53..... MR53.....	M26			119-38.....	4	SR633.....					5	6A7, 6K7, 75, 41, 80.....	465	9-7
518.....	Vol.	101-196.....	18	UM154-SS22.....	M26T			119-92.....	24	FPT354.....	B8				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT.....	465	12-3, 4
519A.....	Vol.	101-164.....	18	MK402.....	M26			11982.....	24	2N514.....	B112				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT.....	465	10-4

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
BELMONT—Continued																		
520 Ser. A.....	Vol.	101-138	8	UM128	M26		A96	119-70	1/15	3N534				4	6A8, 6J7, 25L6G, 25Z6G, 62A	465	10-6	
521 Ser. A.....	Vol.	101-138	8	UM128	M26		A96	119-71	15	BB12				4	6A8, 6J7, 25L6G, 25Z6G, 62A	465	10-7,8	
522.....	Vol.	101-43	62	O	6			119-72	1/15	3N534				5	1A6, 34, 30, 32, 950	465	7-2	
523.....	Batt.	101-44	29	C6R				119-22	20	BB12				5	1A6, 1A4, 30, 950	465	9-8	
523B.....	Vol.	101-69	62	MR53	M26			119-22	20	BB12				5	1A6, 1A4, 30, 1G5G	465	9-9	
524 Series A.....	Vol.	101-111	18	MK400	M27			119-52	19	BB15				5	1C7G, 1D5G, 1F7G, 1G5G	465	9-10	
525.....	Vol.	V601	29	MR				C525	11	UR182	B31			5	6D6, 75, 43, 25Z5	456	3-8	
526.....	Vol.	101-107	18	UM154-SS18	M26			119-47D	42	SR633				5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	9-11	
527 Ser. A.....	Vol.	101-141	18	MK401	M26T			119-47E	23	2S567				5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	10-9	
529.....	Vol.	101-107	18	UM154-SS18	M26			119-47D	42	SR633				5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	10-11,12	
530.....	Vol.	V601	17	N	6			C525/C538	11	UR182	B31			5	6A7, 6D6, 75, 43, 25Z5	456	4-2	
531 Series B.....	Vol.	101-113	18	MK402	M26			11953B	1/19	2N514/BB17				5	6A8, 6K7, 6Q7, 26L6, 25Z6	470	9-12	
533 A and B.....	Vol.	101-217	18	UM154	M26		A96	119-94	46	FPT357				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	465	12-5,6	
534.....	Vol.	101-198	18	UM161-SS22	M26			119-92	24	FPT354	B8			5	12SA7, 12SK7, 12SQ7, 35Z6GT, 35Z5GT	455	12-7,8	
536.....	Vol.	101-238	18	MK401	M26			119-92	24	FPT354	B8			5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	12-1	
539 (Export Chassis)	Vol.	101-208	18	MK402	M26			10-40-20	1/15	See Note	B3			5	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G	465	11-9,10	
540.....	Vol.	101-1	17	N	6			C525/C525D	11	UR182	B31			5	6D6, 75, 43, 25Z5	156	5-7	
541.....	Vol.	P101-13	82	TRP609	6			P119-7	11	UR193	B31			5	6D6, 75, 43, 25Z5	156	6-7	
542.....	Vol.	101-208	18	MK402	M26			10-40-20	1/15	See Note	B3			5	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G	455	12-9,10	
543.....	Tone	101-237	22	K12	6		See Note	A3						5	6A7, 6D6, 6B7, 43, 12Z3	465	6-9,10	
544, 545.....	Vol.	P101-32	82	TRP609	6			P103-9	1/15	3S579				5	6A7, 6D6, 6B7, 43, 12Z3	465	6-9,10	
546.....	Vol.	P101-31	22	K12	6			119-104	76	FPT304				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT, 5459	465		
550.....	Vol.	P1008	17	N	6			P1003	4	2S567	B33			5	2A7, 58, 2A6, 2A5, 80	456	4-3,4	
551 Ser. A.....	Vol.	101-140	18	MK402	M27			119-35	19	BB12				5	1A7G, 1N5G, 1H5G, 1A5G	465	10-13,14	
551B.....	Vol.	101-140	18	MK402	M27			119-35	19	BB12				5	1A7G, 1N5G, 1H5G, 1A5G	465	11-8	
553 Ser. A.....	Vol.	101-150	18	MK402	M26			119-79	1/15	3S578		126-6	294	C3	5	6D8G, 6K7, 6T7G, 6B6G, 6ZY5G	465	10-15,16
555.....	Vol.	P101-30	82	Order from	Mfr.			103-6	4	RS213	B14			5	6A7, 6D6, 6B7, 42, 80	465	6-11,12	
556 (Export).....	Vol.	P101-30	62	Order from	Mfr.			103-6	4	RS213				5	6A7, 6D6, 6B7, 42, 80	465	7-3,4	
566.....	Vol.	101-40	18	UM154-SS17	M26			119-20	4	2S567			294	C3	5	6A8, 6K7, 75, 84, 41	465	7-5,6
567A.....	Vol.	101-41	17	UM154-SS17	M26			119-33	4	2S567	B14		294SW	C14	5	6A8, 6K7, 6Q7, 6F6, 6X5	465	
571A.....	Vol.	101-209	18	UM154-SS25	M26			119-92	24	FPT354	B8			5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z4GT	465	11-11,12	
575.....	Vol.	P101-10	6	Z12	6	EX100		P119-6	4	2S567				5	58, 57, 2A5, 80	175	5-8	
577A.....	Vol.	101-110	18	MK402	M26			119-50	40	2S567		126-7	294‡	C24	5	6A8, 6K7, 6Q7, 6K6, 6X5	465	9-13
577C.....	Vol.	101-110	18	MK402	M26			119-50	40	2S567	B14		294‡	C24	5	6SA7, 6SK7, 6Q7, 6K6, 6X5	465	10-17,18
577D.....	Vol.	101-110	18	MK402	M26			119-105	24/15	FPT339	B14		294	C24	5	6SA7, 6SK7, 6SQ7, 6K6G, 6X5G	465	11-10,13
578.....	Vol.	P101-35	56	O				P103-6	4	RS213	B14			5	6A7, 6D6, 6B7, 42, 80	456	6-13,14	
579.....	Vol.	101-110	18	MK402	M26			P103-7	4	RS213				5	6A7, 6D6, 6B7, 42, 80	465		
580.....	Vol.	P101-9	17	N	6			119-105	24/15	FPT339				5	6SA7, 6SK7, 6SQ7, 6K6G, 6X5G	465		
580 (Revised).....	Vol.	P101-9	17	N	6			P119-15	4	2S567	B14		112-4	C3	5	6D6, 6A7, 75, 42, 84	175	6-15,16
582.....	Vol.	101-100	18	MR53	M26			119-15	4	2S567	B14		112-4	C3	5	6A7, 6D6, 75, 42, 84	175	6-16,18
583 Export Series A	Vol.	101-100	18	MR53	M26			119-47	23	2S560				5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	9-15,16	
585 Series A.....	Vol.	P101-18	18	N	6			119-48	4	2S567				5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	9-14	
585 Series B and C	Vol.	P101-18	18	N	6			P119-11	1/15	3S579				5	6F7, 6D6, 75, 42, 80	370	6-19	
585 Series D.....	Vol.	P101-18	18	N	6			P103-6	4	RS213				5	6F7, 6D6, 75, 42, 80	465	6-19	
586 Series A.....	Vol.	P101-49	18	O	6			103-6	4	RS213				5	6F7, 6K7, 75, 6F6, 80	465	7-7,8	
								103-7	4	RS213				5	6A7, 78, 75, 41, 80	465	7-9	
								103-6	42	RS213				5				
								103-7	42	RS213				5				

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
BELMONT—Continued																		
587 Series A.....	Vol.	P101-49.....	18	O.....	6			103-6.....	23	RS213.....					5	6A8, 6K7, 6Q7, 6F6, 5Y3.....	465	7-11,12
588 Series A.....	Vol.	101-71.....	18	MR53.....	M26			103-7.....	23	RS213.....					5	6A8, 6K7, 6Q7, 6F6, 5Y3.....	465	8-3,4
589.....	Vol.	101-71.....	18	MR53.....	M26			119-38.....	4	SR633.....					5	6A8, 6K7, 6Q7, 6K6, 5Y3.....	465	8-5 & 9-1
590.....	Vol.	101-252.....	18	UM161.....	M27	A96		119-123.....	24	Order from Mfr.....					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT.....	455	
600.....	Vol.	V601.....	17	N.....	6			16-16-8-14-2	9/15	Order from Mfr.....					6	7B, 6A7, 6B7, 43, 25Z5.....	175	
601 Series A & B...	Vol.	P101-54.....	18	MR53.....	M26			119-25.....	11	RM257.....	B260				5	6A7, 7B, 75, 43, 25Z5.....	465	7-10
601 Series C.....	Tone	P101-55.....	22	MR53.....	M26			119-29.....	4	2P552.....	B10				5	6A7, 7B, 75, 43, 25Z5, L49B.....	465	
602.....	Tone	101-63.....	18	MR48.....	M26			119-29.....	4	2P552.....					5	6A8, 6K7, 6R7, 25L6, 25Z6.....	465	8-6
602.....	Vol.	101-55.....	22	MR53.....	M26			119-39.....	1	2N509.....					5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B.....	470	9-29
602B.....	Vol.	101-77.....	18	MR53.....	M26			119-42.....	4	2P546.....					5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B.....	470	9-29
602C.....	Vol.	101-77.....	18	MR53.....	M26			119-42.....	4	2P546.....					5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B.....	470	9-29
611 Series A.....	Vol.	101-121.....	18	MK402.....				11959.....	24	2N512.....		126-8	246	C3	6	6K8, 6S7, 6T7, 1H11, 1J6.....	465	9-17,18
612.....	Tone	101-120.....	22	MK400.....	M26			.003.....		Buffer.....	B14				6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT.....	465	12-11,12
612.....	Vol.	101-211.....	18	UM161.....	M26	A96		119-94.....	46	FPT357.....					6	6SA7, 6SK7, 6SJ7, 6SQ7, 6V6GT, 5Y3G.....	455	12-13,14
616.....	Tone	101-142.....	56	MK402.....	M26			119-114.....	1/15/13	F1Q424.....					6	7B, 6A7, 75, 43, 25Z5.....	175	4-5
616.....	Tone	101-143.....	22	MK400.....				119-67.....	13	BB61.....					6	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 5Y3G.....	465	11-14
625.....	Vol.	V601.....	17	N.....	6			C525.....	11	UR182.....	B31				6	6A8G, 6K7G, 6Q7G, 25Z6, 25L6G, L49B.....	470	9-19,20
625.....	Vol.	V601.....	17	N.....	6			C525B.....	11	UR182.....	B31				6	6A8G, 6K7G, 6Q7G, 25Z6, 25L6G, L49B.....	470	10-19,20
625.....	Vol.	V601.....	17	N.....	6			C525C.....	11	See Note.....	B38				6	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6, L49B.....	470	10-21,22
625.....	Vol.	V601.....	17	N.....	6			C525D.....	11	See Note.....	B38				6	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6, L49B.....	470	10-21,22
629A.....	Vol.	101-208.....	18	MK402.....	M26			119-102.....	1	FPT342.....	B192				6	12SA7, 12SK7, 12J5GT, 12SQ7, 35L6GT, 35Z5GT.....	465	11-15
632 Series A.....	Vol.	101-113.....	18	MK402.....	M26			119-62B.....	1/19	Order from Mfr.....					5	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT.....	465	11-16,20
633 Ser. A.....	Vol.	101-127.....	18	UM161-SS18	M26			119-53C.....	1/19	3N534.....					5	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT.....	465	11-21,22
634 Ser. A.....	Vol.	101-139.....	18	MK402.....	M26			119-53C.....	1/19	3N534.....					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6, L49B.....	470	10-21,22
635.....	Vol.	101-127.....	45	UM161-SS18	M26	A96		119-53E.....	1/15	3N534.....					6	12SA7, 12SK7, 12J5GT, 12SQ7, 35L6GT, 35Z5GT.....	465	11-15
635.....	Vol.	101-127.....	45	UM161-SS18	M26	A96		60-60-40.....	1/15	See Note.....	B12				6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT.....	465	11-16,20
636.....	Vol.	101-127.....	18	UM161-SS18	M26			119-94.....	46	FPT357.....					6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT.....	465	11-21,22
637 Ser. A.....	Vol.	101-195.....	18	MK402.....	M26			119-94.....	46	FPT357.....					6	57, 27, 58, 2A6, 2A5, 80.....	370	5-9,10
640EX.....	Vol.	101-194.....	22	MK400.....				P103-3.....	4	RS216.....					6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT.....	455	12-17
640EX.....	Vol.	P101-16.....	82	TRP609.....	6			P103-4.....	4	RS216.....					6	6D6, 6A7, 75, 43, 25Z5.....	175	5-11,12
642.....	Vol.	101-193.....	18	UM161-SS22	M26			119-94.....	46	FPT357.....					6	6D6, 6A7, 75, 43, 25Z5.....	175	4-6
650.....	Vol.	P101-4.....	17	N.....	6			C525C.....	11	See Note.....	B31				6	6K7, 6A8, 6Q7, 6N6, 81-6X5.....	465	7-13,14
650.....	Vol.	P101-4.....	17	N.....	6			C525D.....	11	UR182.....	B31				6	6K7, 6A8, 6Q7, 6F6, 6X5.....	262.5	9-23,24
660.....	Vol.	V603.....	17	N.....	6			C550.....	4	CM172.....		V660	220B	C3	6	6I96, 6A7, 75, 89, 6Z4.....	175	
661.....	Vol.	101-41.....	18	UM154-SS17				119-37.....	4	2S567.....	B33	126-1	294	C3	6	6K7, 6A8, 6Q7, 41, 6X5.....	465	8-7,8
665 Series A.....	Vol.	101-126.....	18	MK402.....	M26			.005.....	4	Buffer.....	B14				6	6K8, 6K7, 6Q7G, 6P5, 6AC5G, 5Y3.....	465	9-21,22
665 Series A.....	Vol.	101-126.....	18	MK402.....	M26			119-63B.....	4	2S563.....	B33				6	6K7, 6A8, 6Q7, 6N6, 81-6X5.....	465	7-13,14
666 "A"-"B".....	Vol.	101-42.....	18	UM133-SS17	M26			119-21.....	1	2N518.....		126-1	294	C3	6	6K7, 6A8, 6Q7, 6F6, 6X5.....	465	9-23,24
666 "A"-"B".....	Vol.	101-41.....	18	UM154-SS17	M26		A4	.01.....		Buffer.....	B14				6	6I96, 6C6, 78, 75, 42, 81.....	175	5-13,14
667.....	Vol.	101-73.....	17	UM147-SS17	M26			119-34.....	4	RM261.....		126-1	294	C3	6	6I96, 6C6, 78, 75, 42, 81.....	175	6-22-24
667.....	Tone	101-45.....	22	Order from Mfr.....				.01.....		Buffer.....	B14				6	6I96, 6C6, 78, 75, 42, 81.....	175	5-13,14
670.....	Vol.	P101-9.....	17	N.....	6			P103-2.....	4	RM262.....		142-1	299	C3	6	6I96, 6C6, 78, 75, 42, 81.....	175	5-13,14
670.....	Vol.	P101-9.....	17	N.....	6			20.....	15	BB15.....					6	6I96, 6C6, 78, 75, 42, 81.....	175	5-13,14
670A.....	Vol.	P101-9.....	17	N.....	6	A1		P119-4.....	4	CM172.....		142-1	299	C3	6	6I96, 6C6, 78, 75, 42, 81.....	175	6-22-24
670A.....	Vol.	P101-9.....	17	N.....	6	A1		.015.....		Buffer.....	B14				6	6I96, 6C6, 78, 75, 42, 81.....	175	6-22-24
671.....	Tone	101-232.....	18	MK402.....	M26			119-115.....	1	2S569.....					6	6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G.....	455	12-18
671.....	Tone	101-231.....	22	MK402.....				119-88.....	24	F1Q426.....	B168				6	57, 27, 58, 2A6, 2A5, 80.....	370	5-15
675.....	Vol.	101-11.....	18	N.....	6			P103-4.....	4	RS216.....					6	57, 27, 58, 2A6, 2A5, 80.....	370	5-15
675.....	Vol.	101-11.....	18	N.....	6			P103-3.....	4	RS216.....					6	57, 27, 58, 2A6, 2A5, 80.....	370	5-15
676 (Issue A) (5,001 up).....	Vol.	101-161.....	18	Order from Mfr.....				119-81.....	74	BB44.....		12610	294	C3	6	6K7, 6A8, 6Q7, 6K6, 6X5.....	465	9-25,26
677.....	Vol.	101-109.....	18	TM238-SS18	M26			119-51.....	4	2S568.....		126-1	294	C3	6	6K7, 6A8, 6Q7, 6V6, 0Z4-6X5.....	465	10-23
677.....	Vol.	101-109.....	18	TM238-SS18	M26			.01.....		Buffer.....	B14				6	6K7, 6A8, 6SK7, 6Q7, 6J5, 6N7.....	465	10-25,26
678.....	Vol.	101-161.....	18	Order from Mfr.....				119-78.....	24	F1Q426.....	B168	126-9	248	C3	6	6K7, 6A8, 6SK7, 6Q7, 6J5, 6N7.....	465	12-19,20
678.....	Tone	101-162.....	18	UM161-SS18				119-88.....	24	F1Q426.....	B168				6	6K7, 6A8, 6SK7, 6Q7, 6J5, 6N7.....	465	12-19,20
678.....	Tone	101-162.....	18	UM161-SS18				.0055.....		Buffer.....	B14				6	6K7, 6A8, 6SK7, 6Q7, 6J5, 6N7.....	465	12-19,20

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
BELMONT—Continued																		
679.....	Vol.	101-216	18	UM154-SS17	M26			119-120	46	FPT390		126-7	294	C24	6	6SK7, 6SA7, 6SQ7, 6K6GT, 6X5GT	455	
680.....	Vol.	101-21	56	N	6	EC256		119-75	15	BB12					6	6D6, 6A7, 6H7, 42, 84	175	6-25
681.....	Vol.	101-240	18	MK402	M26			008		Buffer	B14				6	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	12-21
685A.....	Vol.	101-241	22	MK402				P119-17	4	CM162		142-4	299	C3	6	6L7, 6C5, 6K7G, 6L7G, 6Q7G, 6F6G, 5Y3	465	7-15,16
686 "A," "B".....	Vol.	101-46	18	O	6			103-6	42	RS213					6	6L7, 6K7, 6Q7, 6F6, 6C5, 5Y3	465	7-15,16
690.....	Vol.	101-48	22	K12				103-7	42	RS213					6	6D6, 6A7, 6H7, 42, 84	175	
691.....	Vol.	101-21	18	N	6	EC256		103-6	42	RS213					6	6L7, 6K7, 6Q7, 6C5, 6F6, 5Y3	465	9-27,28
695.....	Vol.	101-93	18	MR53	M26			103-7	42	RS213					6	6D6, 6A7, 6H7, 42, 84	175	
705.....	Vol.	101-239	15	MK401	M26			119-17	4	CM172		142-4	299	C3	6	6L7, 6K7, 6Q7, 6C5, 6F6, 5Y3	465	9-27,28
706 (Export Chassis).....	Vol.	101-241	22	MK402				119-45	42	2S567	B33				6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z4GT	455	12-22
707 (Export Chassis).....	Vol.	101-205	18	MK402	M26			119-94	46	FPT357					6	6J5GT, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	12-23,24
708 (Export Chassis).....	Vol.	101-205	18	UM161	M26			119-98	1/15	FPT439		126-16	246	C3	7	6S7G, 6K8, 6I7G, 6SC7, 6L5G, 6A1B5	465	11-17,18
729.....	Vol.	101-224	18	Order from Mfr.				119-46	13	2S563					7	6SK7, 6K8, 6K7, 6SQ7, 25N6G, 6U5, 25Z6G	465	11-32
740.....	Vol.	101-223	22	MK402				119-98	1/15	FPT439	B14				7	6SK7, 6K8, 6K7, 6SQ7, 6V6G, 6U5, 5Y3G	465	11-23
746 Series A (Ex).....	Vol.	101-74	18	O	6			119-108	1	2S569					7	6SA7, 6SK7, 6SQ7, 6J5GT, 6K6GT, 5Y3G	455	12-25,26
750.....	Vol.	101-75	22	M				103-6	4	RS213					7	6A8, 6K7, 6Q7, 6C5, 6F6, 5Y3	465	8-9,10
751 Ser. A.....	Vol.	101-16	18	O	6			103-14	4	WE1835					7	6L7, 6C5, 6K7, 6Q7, 6G5, 6F6, 5Y3	465	7-17,18
755EX.....	Vol.	101-53	22	K12				103-6	23	RS213					7	58, 2A7, 55, 45, 80	175	4-7 & 5-19
761 Series A.....	Vol.	P1025	13	N				8, 8	4	WE851					7	6K8G, 6K7, 6Q7G, 6A1E6G, 6AF6G, 6G6G, 6ZY5G	465	10-29
767 Ser. A.....	Vol.	P1025	21	M				5	14	BB21					7	6D6, 6C6, 76, 61B7, 42, 80	465	6-27,28
770 "A".....	Vol.	101-153	13	UM161-SS25	M27			119-79B	1/15	3S578		1266	294	C3	7	6A8, 6K7, 6Q7, 6J5, 6F6, 5Y3	465	9-30
775.....	Vol.	101-154	22	Order from Mfr.				008		Buffer	B14				7	6K8G, 6K7, 6Q7G, 6K6G, 6J5G, 5Y3G	465	10-31,32
777 Series A.....	Vol.	P101-33	82	Order from Mfr.				P103-8	4	WE1650					7	6K7, 6J7, 6C5, 6Q7, 6F6, 5Y3-5W4	465	7-21,22
777 Series B.....	Vol.	P101-34	21	M	6			103-4	4	RS216					7	6K7, 6J7, 6Q7, 6C5, 6F6, 5Y3	465	
777 Series C.....	Vol.	101-104	13	MR53				103-6	4	RS213					7	6L7, 6K7, 6Q7, 6C5, 6F6, 5Y3	465	7-19,20
787 Series A.....	Vol.	101-105	22	MR41	M26			103-14	4	WE1835					7	6K7, 6C6, 6C5, 6B7, 42, 80	465	7-19,20
791 Ser. A.....	Vol.	101-144	18	UM161-SS25	M26			119-73	1	BB64					7	6K7, 6C6, 6C5, 6B7, 42, 80	465	7-19,20
792.....	Vol.	101-145	22	UM161-SS25				119-71	1	BB62					7	6K7, 6C6, 6C5, 6B7, 42, 80	465	7-19,20
793.....	Vol.	P101-37	56	TM236-SS1	M26			103-8	13	RS216					7	6K7, 6C6, 6C5, 6B7, 42, 80	465	7-19,20
794.....	Vol.	P101-38	21	SRP286	8			103-4	43	RS216					7	6K7, 6J7, 6C5, 6Q7, 6F6, 5Y3-5W4	465	7-21,22
796.....	Vol.	P101-6	18	N	6			103-4	4	RS216					7	6K7, 6J7, 6Q7, 6C5, 6F6, 5Y3	465	
797.....	Vol.	P101-5	21	N				103-4	4	RS213					7	6L7, 6K7, 6Q7, 6C5, 6F6, 5Y3	465	
797 Mike.....	Vol.	101-23	18	O	6			103-4	4	RS216					7	6L7, 6K7, 6Q7, 6C5, 6F6, 5Y3, 6G5	465	7-15,16
	Vol.	101-24	21	M				103-4	4	RS216					7	6L7, 6C5, 6K7, 6Q7, 6G5, 6F6, 5Y3, 6G5	465	7-15,16
	Vol.	101-23	56	O	6			103-4	4	RS216					7	6L7, 6C5, 6K7, 6Q7, 6G5, 6F6, 5Y3, 6G5	465	7-15,16
	Vol.	101-24	62	M				103-4	4	RS216					7	6L7, 6C5, 6K7, 6Q7, 6G5, 6F6, 5Y3, 6G5	465	7-15,16
	Vol.	101-23	56	O	6			103-8	4	RS216					7	6L7, 6C5, 6K7, 6Q7, 6G5, 6F6, 5Y3, 6G5	465	7-15,16
	Vol.	101-24	57	M				103-4	4	RS216					7	6L7, 6C5, 6K7, 6Q7, 6G5, 6F6, 5Y3, 6G5	465	7-15,16
	Vol.	101-47	124	TM236-SS1	M26			103-8	25	RS216					7	6L7, 6C5, 6K7, 6Q7, 6G5, 6F6, 5Y3, 6G5	465	7-15,16
	Vol.	101-38	21	SRP286	8			103-8	25	RS213					7	6L7, 6C5, 6K7, 6Q7, 6G5, 6F6, 5Y3, 6G5	465	7-15,16
	Vol.	101-47	18	TM236-SS1	M26			103-8	25	RS216					7	6L7, 6C5, 6K7, 6Q7, 6G5, 6F6, 5Y3, 6G5	465	7-15,16
	Vol.	101-38	21	SRP286	8			103-6	25	RS213					7	6L7, 6C5, 6K7, 6Q7, 6G5, 6F6, 5Y3, 6G5	465	7-15,16
	Vol.	101-46	18	O	6			103-6	42	RS213					7	6L7, 6K7, 6Q7, 6C5, 6F6, 5Y3	465	
	Vol.	101-53	22	K12				103-7	12	RS213					7	6L7, 6K7, 6Q7, 6C5, 6F6, 5Y3, 6G5	465	7-15,16
	Vol.	101-46	18	O	6			103-6	23	RS213					7	6L7, 6C5, 6K7, 6Q7, 6G5, 6F6, 5W4	465	8-11,12
	Vol.	101-53	22	K12				103-7	23	RS213					7	12A8GT, 12SK7, 12Q7GT, 35L6GT, 35Z4GT	465	11-24
	Vol.	101-195	18	MK402	M26			119-101	16	FPT357					7	12A8GT, 12SK7, 12Q7GT, 35L6GT, 135Z4GT	465	11-24
792.....	Vol.	101-159	18	MK402				119-101	16	FPT357					7	12A8GT, 12SK7, 12Q7GT, 35L6GT, 135Z4GT	465	11-25,28
793.....	Vol.	101-202	18	UM161	M26		A96	119-101	46	FPT357					7	12A8GT, 12SK7, 12Q7GT, 35L6GT, 135Z4GT	465	11-29,31
794.....	Vol.	101-195	18	MK402	M26			119-101	46	FPT357					7	12A8GT, 12SK7, 12Q7GT, 35L6GT, 135Z4GT	465	12-33
796.....	Vol.	101-215	18	MK402	M26			119-108	1	FPT234					7	6SA7, 6SK7, 6SQ7, 6J5GT, 6K6G, 5Y3G	465	12-27,28
797.....	Vol.	101-216	22	MK402				119-110	1/15	FPT338					7	6SA7, 6SK7, 6SQ7, 6J5GT, 6K6G, 5Y3G	465	12-27,28
	Vol.	101-216	22	MK402				119-67	13	BB61					7	6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G	455	12-29,30
	Vol.	101-219	127	UM163			A96											

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
BELMONT—Continued																		
800.....	Vol.	101-233.....	45	.....	.....	See Note A19	119-109.....	1/13	FPT390.....					8	26SK7, 6SA7, 6SQ7, 6J5GT, 26F6G, 5Y3G	455	12-31,32
801.....	Vol.	101-233.....	56	.....	.....	See Note A19	119-109.....	1/13	FPT390.....					8	26SK7, 6SA7, 6SQ7, 6F5GT, 26F6G, 5Y3G	455	12-34-37
804.....	Vol. Tone	101-66..... 101-67.....	18 22	MR48..... MR39.....	M27		119-32..... .005.....	1	2N516..... Buffer.....	B14	126-4.....	246	C3	8	26S7G, 6D8G, 26L5G, 6T7G, 6N5, 19.....	465	8-13,14	
822.....	Vol. Tone	101-50..... 101-51.....	62 21	MR44..... MR44.....	M27		103-11.....	12	ST585.....					8	1A6, 1A4, 330, 334, 19.....	465	8-15,16	
823 Series A (Ex).....	Vol. Tone	101-52..... 101-50..... 101-51.....	29 62 21	M2R..... MR44..... MR44.....	M27		103-11..... 119-26..... .01.....	24 24	ST585..... ST585..... Buffer.....	B14	126-4.....	246	C3	8	1A6, 1A4, 330, 334, 19.....	465	9-31,32	
840.....	Vol. Tone	101-74..... 101-75.....	18 22	MR53..... MR44.....	M26		103-6..... 103-14.....	4 4	RS213..... WE1835.....					8	6A8, 6K7, 6Q7, 6G5, 6C5, 26F6, 5Y3.....	465	8-17,18	
842 (Ex).....	Vol. Tone	101-74..... 101-75.....	18 22	MR53..... MR44.....	M26		103-6..... 103-14.....	4 4	RS213..... WE1835.....					8	6A8G, 6K7, 6Q7G, 6G5, 6C5, 26F6G, 5Y3.....	465	9-33,34	
845 Series A (Ex).....	Vol. Tone	101-46..... 101-51.....	18 44	O..... MR44.....	6		119-30.....	23	2P553.....					8	6L7, 6C5, 6K7, 6Q7, 6G5, 25A6, 25Z6.....	465	7-23,24	
848, 849 (Ex).....	Vol. Tone	101-46..... 101-51.....	18 22	O..... MR44.....	6		119-30.....	4	2P553.....					8	6L7, 6C5, 6K7, 6Q7, 6G5, 25L6, 25Z6.....	465	8-19,20	
856 Series A (Ex).....	Vol. Tone	101-47..... 101-38.....	17 21	TM236-SS1..... SRP286.....	M26 8		103-8..... 103-6.....	25 25	RS216..... RS213.....					8	26K7, 6J7, 6C5, 6Q7, 6G5, 6F6, 5Y3.....	465	8-21,22	
860 Series A.....	Vol. Tone	101-97..... 101-98.....	18 22	MR53..... MR44.....	M26		103-6..... 103-14.....	4 4	RS213..... WE1835.....					8	6A8, 6K7, 6Q7, 6C5, 26F6, 6U5, 5Y3.....	465	9-35,36	
867 Ser. A.....	Vol. Tone	101-144..... 101-145.....	18 22	UM161-SS25..... UM161-SS25.....	M26		119-73..... 119-74.....	1 1	BB64..... BB62.....					8	6K8G, 6K7, 6Q7G, 6J5G, 26K6G, 5Y3G, 6U5.....	465	10-33	
878 Series A & B.....	Vol. Tone	101-47..... 101-38.....	124 21	TM236-SS1..... SRP286.....	M26 M28	See Note A19	103-8..... 103-6.....	25 25	RS216..... RS213.....					8	26K7, 6J7, 6C5, 6Q7, 6G5, 6F6, 5Y3.....	465	8-23-25	
879 Series A.....	Vol. Tone	101-60..... 101-61.....	124 21	TM236-SS1..... UM180-SS1.....	M26 M28		103-8..... 103-6.....	25 25	RS216..... RS213.....					8	26K7, 6J7, 6C5, 6Q7, 6G5, 6F6, 5Y3.....	465	8-26	
880 (A and B).....	Vol.	P101-21.....	56	N.....	6	EC256	P119-16.....	1	2S568.....	B14	142-4.....	299	C3	8	26D6, 6A7, 85, 76, 6A6, 84.....	175	6-32	
880 Series C.....	Vol. Tone	P101-21..... P101-39.....	15 22	N..... MR39.....	6	EC256	P119-16.....	1	2S568.....	B14	142-4.....	299	C3	8	26D6, 6A7, 85, 76, 6A6, 84.....	465	6-33	
880D.....	Vol. Tone	101-21..... 101-39.....	15 22	N..... MR39.....	6	EC256	119-16.....	1	2S568.....	B14	142-4.....	299	C3	8	26D6, 6A7, 85, 76, 6A6, 84.....	465	.....
881.....	Vol. Tone	101-86..... 101-90.....	18 22	UM150-SS17..... Order from Mfr.....	M26		119-43..... .003.....	4	2S563.....	B14	126-1.....	294	C3	8	26K7, 6A8, 6H7, 6C5, 26V6, 074.....	262.5	9-39	
888, 889.....	Vol. Tone	101-65..... 101-53.....	18 22	MR48..... K12.....	M26		103-12..... 103-13.....	25 25	WE850..... RS213.....					8	26K7, 6J7, 6C5, 6Q7, 6F6, 6G5, 5Y3.....	465	9-37,38	
890 Series A (Ex).....	Vol. Tone	101-65..... 101-53.....	18 22	MR48..... K12.....	M26		103-12..... 103-13.....	25 25	WE850..... RS213.....					8	26K7, 6J7, 6C5, 6Q7, 6G5, 6F6, 5Y3.....	465	8-27,28	
902.....	Vol.	101-233.....	20	.....	.....	See Note A19	119-109.....	1/13	FPT390.....					9	26SK7, 6SA7, 6SQ7, 6J5GT, 26F6G, 6U5, 5Y3G.....	455	12-38
910 Export.....	Vol. Tone	101-114..... 101-115.....	1 22	MK402..... MK400.....	M26		11955..... 11956.....	1 13	2S569..... 2S569.....					9	26K7, 6A8, 6Q7, 6J5, 26F6, 6U5, 5Y3.....	465	9-40-42	
1050.....	Vol. Tone Supp.	P1025.....	15	N..... L.....	6		P1048..... P1038.....	26 26	WE851..... ST595/TN113.....					10	58, 2A7, 456, 345, 80.....	175	4-8	
1070 "A".....	Vol. Tone	101-36..... 101-40.....	20 22	DTM287-SS1..... SRP287.....	M26 8		103-10..... 103-8.....	1 1	WE3050..... RS216.....					10	26K7, 6L7, 26C5, 26F6, 5Z4, 6116.....	465	7-25	
1070 Series B.....	Vol. Tone	101-36..... 101-40.....	20 22	DTM287-SS1..... SRP287.....	M26 8		103-10..... 103-8.....	1 1	WE3050..... RS216.....					11	26K7, 6L7, 26C5, 6116, 26F6, 5Z4, 6G5.....	465	7-25	
1075A, B.....	Vol. Tone	101-128..... 101-129.....	20 22	TM236-SS25..... MK400.....			119-23..... 119-19..... 119-64.....	15 15 1	BB15..... 2-BB15..... 2S563.....					10	26K7, 6K8, 6Q7G, 26J5G, 26K6G, 6U5, 5Y3G.....	465	10-35-38	
1100.....	Vol.	101-234.....	17	MK401.....	M26		119-112..... 119-69.....	46 13	FPT383..... BB64.....					11	26SK7, 6SA7, 26SQ7, 6J5GT, 26V6GT, 5Y3G, 6U5.....	455	12-39,40	
1131.....	Vol. Tone	101-214..... 101-213.....	45 22	MK401..... MK402.....	M26		119-124.....	1/13	FPT383.....					11	26SK7, 6SA7, 26SQ7, 6J5GT, 26F6G, 5Y3G, 6U5.....	455	.....
1170.....	Vol. Tone	101-47..... 101-40.....	20 22	TM236-SS1..... SRP287.....	M26 8		103-10..... 103-8.....	25 25	WE3050..... RS216.....					11	26K7, 6J7, 6C5, 6116, 6G5, 6F5, 26F6, 5Z4.....	465	8-29	
1170B, 1170C.....	Vol. Tone	101-36..... 101-40.....	20 22	DTM287-SS1..... SRP287.....	M26 8		103-10..... 103-8.....	25 25	WE3050..... RS216.....					11	26K7, 6J7, 6C5, 6116, 6G5, 6F5, 26F6, 5Z3.....	465	9-43	
1171.....	Vol. Tone	101-60..... 101-62.....	20 22	TM236-SS1..... SRP287.....	M26 8		103-10..... 103-8.....	25 25	WE3050..... RS216.....					11	26K7, 6J7, 6C5, 6116, 6G5, 6F5, 26F6, 5Z4.....	465	9-45	
1172.....	Vol. Tone	101-47..... 101-40.....	20 22	TM236-SS1..... SRP287.....	M26 8		103-10..... 103-8.....	25 25	WE3050..... RS216.....					11	26K7, 6J7, 6C5, 6116, 6G5, 6F5, 26F6, 5Z4.....	465	8-29	
1174.....	Vol. Tone	101-36..... 101-40.....	20 22	DTM287-SS1..... SRP287.....	M26 8		103-5..... 103-10.....	30 30	RS213..... WE3050.....					11	26K7, 6J7, 6C5, 6F5, 6116, 6G5, 26F6, 5Z3.....	465	8-33	
1175 Series A.....	Vol. Tone	101-102..... 101-103.....	124 22	DTM287-SS1..... SRP286.....	M26 8		103-10.....	25	WE3050.....					11	26K7, 6J7, 6116, 6F5, 6J5, 26F6, 6C5, 6U5, 5U4.....	465	9-47	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference		
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note						
BLACKHAWK 6U.....	Vol. Tone		18 22	UC511..... UC502.....	6			81028..... 81021C..... .01	1 15	2S568..... TN111..... Buffer.....		2080.....	253	C3	6	‡78, 77, 75, 41, 84....	262.5	§5-3		
BOND RADIO CO. 34-33, 6TA.....	Vol.		18	N.....				8-4.....	1	See Note.....	B3				6	‡A7, 58, 2A6, ‡A5, 80	456	.....	
B. O. P.—See United	Motors	Service.																		
BOSCH —See United	American	Bosch.																		
BRANDES A1..... B10..... B11, B12..... B15, B16..... K48..... K60, K62..... K70, K72..... K80, K82..... K90, K92..... K110, K112, K120..... K114..... K130, K132..... K133, K143.....	Vol. Vol. Vol. Vol. Vol. Vol. Vol. Vol. Vol. Vol. Vol. Vol. Vol. Vol. Vol.		40 40 40 40 40 58 8 59 59 59 15 15 15 15	Y..... Y..... Y..... Y..... Y..... UC500..... E..... H12..... H12..... H12..... N..... N..... N..... N.....				2-2..... 1-5-5-5..... 2-1-1-5..... 2-1-5..... 2-4..... 2..... 8, 8, 8..... 8, 8, 8..... 8, 8, 8..... 8, 8, 8..... 7337..... 8..... 7240..... 4..... 4.....	1 1 59 59 1 13 4 4 4 4 26 12 4..... 15	See Note..... See Note..... See Note..... See Note..... See Note..... CS130..... RS213..... RS213..... RS213..... RS213..... CM175..... BB31..... CM175..... See Note..... BB12.....	B1 B1 B1 B1 B1 B39 B11				8 7 7 7 7 7 7 7 8 9 9 9 9 9 10	‡24, ‡27, ‡45, 80..... ‡27, 71A, 80..... ‡27, 71A, 80..... ‡27, 71A-85, 80..... ‡24, ‡27, 45, 80..... ‡35, ‡24, 47, 27, 80..... ‡35, ‡24, 27, 47, 80..... ‡35, ‡27, ‡24, ‡47, 80..... ‡35, ‡27, ‡24, ‡47, 80..... ‡58, ‡56, 47, 80..... ‡31, ‡30..... ‡58, ‡56, ‡47, 80..... ‡39, ‡37, ‡38.....	175 175 175 175 175 175 175 175 175 175 175 175 175			3-2 1-1 3-1 1-3
BREMER TULLY Counterphase 8..... 6-40, 6-41..... 7-70..... 8-20, 8-20A, 8-21, 8-22..... 80..... 81, 82..... S81, S82..... 83A.....	Vol. Vol. Vol. Vol. Vol. Vol. Vol. Vol. Vol.		13 1 6 29 7 12 30 8	N..... See Notes..... H12..... E12..... R..... J..... A3MP..... SRP265..... A3MP.....			3/5	..... 1-2-2..... 1-2-2..... 1..... 1-1..... 1-1..... 2-75..... 1-2..... 1..... 2-1-2.....	..... 3 3 4 2 1 1 25 3	See Note..... See Note..... See Note..... See Note..... See Note..... See Note..... See Note..... 25 Cycle..... 25 Cycle..... See Note.....	B1 B1 B1 B7 B1 B1 B9 B1 B9 B1				6 7 8 9 6 8 8 8	‡26, 27, 71A..... ‡26, 27, 71A, 80..... ‡26, ‡27, ‡71A, 80..... ‡26, ‡27, ‡10, 81..... ‡01A, ‡2A..... ‡27, ‡45, 80..... ‡24, 27, ‡45, 80, D110.....	1-3 1-4 3-1 1-3 2-2 1-6 3-6 & 1-7	
BRETING 12..... 14.....	Vol. M. Vol. Tone Meter Vol. Tone Sil.		18 7 22 83 27 7	N..... J..... UC502..... CIMP..... N..... UC502..... J.....				16..... 8..... 25..... 25..... 16..... 18..... 25.....	25 25 19 25 25 44	RS216..... RS213..... BB14..... WE1650..... WE1650..... BB14.....					12 11	‡6B7, ‡6D6, 6C6, ‡42, 5Z3..... ‡6K7, ‡6J7, 6I7, 6H6, 6B8, ‡6F6, 5Z3.....	432 432	§6-5 8-1,2		
BRONSWICK RADIO Bronswood.....	Vol.		6	D12.....				8-4.....	4	See Note.....	B3				6	‡58, 57, 47, 80.....		§4-2		
BROWNING DRAKE JR..... 20..... MB30..... 34, 36, 38..... 40..... 54..... 69..... 70, 71..... 80..... 100.....	Vol. Vol. Tone Vol. Vol. Tone Vol. Vol. Vol. Tone Tone		8 7 22 12 60 7 22 12 12 61 7 22 43 22	G..... H..... K12..... K12..... H..... G12..... Y10MP..... G12..... M..... H..... K12..... Y50MP..... K12.....	6 6 6 6 6 6 6 6 6 6 6 6 6 6	See No te A14 RS244 A21		8-8..... 8, 8..... 8-8-8..... 8-8-8..... 8, 8..... 8..... 8-8-8..... 8, 8..... 8, 8..... 8, 8..... 8, 8..... 8, 8..... 8, 8.....	4 4 3 3 4 1 14 4 4 4 4 4 4	See Note..... RS213..... MN275..... RS213..... RS213..... MN275..... RS213..... See Note..... RS213.....	B3 B3 B3 B3 B3				4 6 9 8 7 9 9 9 7 5	35, 24, 47, 80..... ‡4, 47, 80..... ‡24, ‡27, ‡45, 80..... ‡26, 27, 71A, 80..... ‡35, ‡24, 47, 80..... ‡24, ‡27, ‡45, 80..... ‡24, ‡27, ‡45, 80.....	175 175 175	3-4 3-1 1-1 3-2 3-4 1-2 1-3 3-3 3-4		
BRUNSWICK - MER A1020..... T1580 (Ch. RC-482) 1669, 1689..... 1680.....	SMAN Vol. Vol. Vol. Tone Vol.		124 18 18 21 18 MR44..... MR18..... M26 6	See No te A19 See No te A5 See No te A5		20-15-40..... 30-30..... 17-14249..... 50-50.....	1/19 24 1/19 24	FPT338..... 2N513..... 3S581..... FPD214.....					10 5 6 6	‡6SK7, 6SA7, 6H6, ‡6SF5, ‡6F6G, 6U5, 5U4G..... 12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT..... 6A8, 6U5, 6K7, 6Q7G, 6V6G, 5Y3G..... 12SA7, 12SK7, 12SQ7, 12SJ7, 35L6GT, 35Z5GT.....	455 455 455 455	11-1,2,4 11-3 9-1,3 11-5		

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
BRUNSWICK - MER 1700.....	SMAN— Vol.	Continued	124	†		See Note	A19	10-10-10-20.	1/13/15	FPQ424				7	6SA7, 6SK7, 6SQ7, 6SF5, 6F6G, 5Y4G	455	11-7,8	
A2020.....	Vol.		124	†		See Note	A19	20-15-40.....	1/19	FPT338				10	6SK7, 6SA7, 6I16, 6SF5, 6F6G, 6U5, 5U4G	455	11-1,2	
T2580 (Ch. RC-482)	Vol.		18	MR44	M26			30-30.....	24	2N513				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-3	
A2600.....	Vol.		18	†		See Note	A19	50-50.....	24	FPD214				6	12SA7, 12SK7, 12SQ7, 12SJ7, 35L6GT, 35Z5GT	455	11-5	
2660.....	Vol.		18	†		See Note	A19	50-50.....	24	FPD214				6	12SA7, 12SK7, 12SQ7, 12SJ7, 35L6GT, 35Z5GT	455	11-5	
2669, 2689 (Ch. M27).....	Vol. Tone Vol.	17-16008 17-16009	18 21 18	MR48 L	6			17-14249	1/19	3S581				6	6A8, 6U5, 6K7, 6Q7G, 6V6G, 5Y3G	455	9-1,3	
2689.....	Vol.		18	†		See Note	A19	50-50.....	24	FPD214				6	12SA7, 12SK7, 12SQ7, 12SJ7, 35L6GT, 35Z5GT	455	11-5	
A2700.....	Vol.		124	†		See Note	A19	10-10-20.....	1/15	FPT332				7	6SA7, 6SK7, 6SQ7, 6SF5, 6F6G, 5Y4G	455	11-7,8	
3580 (Ch. RC-482)	Vol.		18	MR44	M26			30-30.....	24	2N513				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-3	
3689.....	Vol.		18	†		See Note	A19	50-50.....	24	FPD214				6	12SA7, 12SK7, 12SQ7, 12SJ7, 35L6GT, 35Z5GT	455	11-5	
3689 (M27).....	Vol. Tone Vol.	17-16008 17-16009	18 21 124	MR48 L	6			17-14249	1/19	3S581				6	6A8, 6U5, 6K7, 6Q7G, 6V6G, 5Y3G	455	9-1,3	
A3720.....	Vol.		124	†		See Note	A19	10-10-10-20.	1/13/15	FPQ424				7	6SA7, 6SK7, 6SQ7, 6SF5, 6F6G, 5Y4G	455	11-7,8	
4580 (Ch. RC-482)	Vol.		18	MR44	M26			30-30.....	24	2N513				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-3	
4689.....	Vol. Tone	17-16008 17-16009	18 21	MR48 L	6			17-14249	1/19	3S581				6	6A8, 6U5, 6K7, 6Q7G, 6V6G, 5Y3G	455	9-1,3	
P5580 (Ch. RC-482A).....	Vol.		18	MR44	M26			30-30.....	24	2N513				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-3	
5689.....	Vol. Tone	17-6008 17-6009	18 21	MR48 L	6			17-14249	1/19	3S581				6	6A8, 6U5, 6K7, 6Q7G, 6V6G, 5Y3G	455	9-1	
8109.....	Vol. Tone	17-13795B 17-13796B	18 44	TM227-SS1 L				17-14001 17-14124 17-14126	1 14 13	ST595 ST595 ST593				8	6K8, 6K7, 6Q7G, 6V6G, 6U5, 5Y3G	455	9-2	
BRUNSWICK RADIO CORP.																		
B17 (For PR17-8 2nd Type).....	Vol.		1	SRP145				4-4 3.5-3.5	4 1	See Note See Note	B1 B1			7	426, 27, 71, 80 80, 71A		1-22 1-26	
PR6.....	Vol.		1	SRP144				1-1	2	See Note	B1			7	426, 27, 71A, 80		1-27	
R1.....	Vol.		1	SRP144				1-1	2	See Note	B1			7	426, 27, 71, 80		1-14	
3KR0, 3KR6.....	Phono. Vol.		† 1	V SRP144				1-1	2	See Note	B1			4	426, 27		1-10	
3KR8.....	Phono. Vol.		† 1	V SRP144				1-1	2	See Note	B1			4	426, 27		1-10	
3NW8.....	Vol. Sen.		59 1	SRP141 D12				4-4	4	See Note	B7			11	427, 50, 81	180	3-4,6	
5KR, 5KR0, 5KR6, 2KR0.....	Vol. Phono.		1 63	SRP144 V				1-1	2	See Note	B1			7	426, 27, 71, 80		1-12	
5NC8.....	Vol.		†	SRP138				2-2	2	See Note	B1			9	427, 71A, 80	180	1-17	
5N0.....	Vol.		†	SRP138				2-2	2	See Note	B1			9	427, 71A, 80	180	1-15	
10.....	Vol.		8	A5MP	6	1		1-4 .055 2	25	See Note See Note See Note	B1 B9 B9			5	451, 24, 47, 80		2-1	
11, 12, 16, 33, "D" Chassis Below No. 25000.....	Vol.	6647	7	SRP255				7 6	1 1	ST595 ST595				7	451, 24, 47, 80		2-3	
11A, 12A, 16A, 18, 33A, "D" Chassis, Above No. 25000.....	Vol.	6653	15	SRP273				7 6	1 1	ST595 ST595				7	451, 24, 27, 47, 80	175	2-5	
14, 21, 31 DC.....	Vol.		11	A5MP	6			6	†	See Note	B7			9	401A, 71A		2-7	
S14, S21, S31, S81, S82C.....	Vol.		12	A3MP	6			1-1-1 .275	3	See Note See Note	B1 B9			8	424, 27, 45, 80		1-29	
S14, S21, S81, S82 (25 Cycle).....	Vol. Hum Tone		12 30 22	A3MP SRP265 K12				2-1-2 1	3	See Note See Note	B1 B9			8	424, 27, 45, 80		1-32	
15B.....	Tone		22	K12				2-2	1	See Note	B1			7	432, 30, 31		2-9	
15, 22, 32, 42 (AC) Phono.....	Tone Phono.		22 63	E12 See Note				4 .14 .25		See Note See Note See Note	B12 B9 B12			7	424, 45, 80		1-34	

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
BRUNSWICK RADIO 15DC, 22DC, 32DC, 42DC 17, 24, 25, AC.....	O CORP. Tone Phono. Vol.	—Continued	22 63 9	K12. See Note SRP273.			A5	4.5-6.	4	See Note.	B1				9	32, 30, 471A.	2-11	
BUCKINGHAM 80.....	Vol.		3	C12.				2-1-3.	3	See Note.	B1				8	26, 27, 71A, 80.	§1-2	
BUICK 4036 (B. O. P.).....	Vol. Tone	1207607. 1207798.	17 44	UC512. N.	7			1207830. .015.	1	CS133. Buffer.	B14	1207758.	221	C3	7	36, 39, 85, 89, 84.	262 4-1,4	
544245 (Buick- Pontiac).....	Vol. Tone	1209078. 1209078. 1207798.	15 127 44	UM154-SS3 UM154-SS3 N.	EB247 EB247			1209047. 1209144.	1/15 1/15	SR622. 48718.		5037400. 5037400.	273C 273C		4 6	6F7, 6A7, 6B7, 42. 78, 6A7, 6F7, 85, 341.	262 6-23,26 262 8-16	
980455 (B. O. P.).....	Vol.	1208157.	17	UM154-SS3	M26			1207995.	1/15	CM162/TN111		5035120.	222		5	78, 6F7, 75, 41.	262 6-37,38	
980459 (B. O. P.).....	Vol. Tone	1208157. 1207798.	18 44	UM154-SS3 N.	M26			1208241.	1	CM172.		5035120.	222		6	78, 6F7, 85, 341.	262 6-39,40	
980507-B.....	Vol. Tone	1210846. 1210846.	17 22	TM241-SS12 O.				1210537.	1/15	48718.		5041376.	273D		6	6D6, 6A7, 85, 76, 6A6	252 9-67	
980509.....	Vol. Tone	1210846. 1562122.	17 22	TM241-SS12 N.				1210885.	1/15	CM172/TN113		5041376.	273D		5	6D6, 6A7, 75, 42.	262 9-67,68	
980525.....	Vol.	1211175.	20	TM239-SS12				1211167.	1	CM172.		5041376.	273D		6	6D6, 6A7, 85, 76, 6A6	260 9-69,70	
980526.....	Vol.	1211218.	20	TM241-SS12				1211166. 1211167.	15 1	TN111. CM172.		5041376.	273D		5	6D6, 6A7, 75, 42.	262 9-70,72	
980529.....	Vol.	1211218.	20	TM241-SS12				1211215. 1211167.	15 1	BB12. CM172.		5041376.	273D		5	6D6, 6A7, 85, 76, 6A6	260 9-69	
980534-5.....	Vol. Tone	1211774. 1211773.	20 22	SM301. Order from	Mfr.			1211215. 1211570. 1211572. .01-.01.	15 1 15	BB12. 2N518. TN111. Buffer.		5050498.	514	C3	6	6K7, 6A7, 6D6, 85, 76, 6A6.	262 9-72,75	
980620.....	Vol. & Tone	7238538.	20/22	Order from	Mfr.			7238552. 7238553. .015-.015.	1 15	FPT231. FPT351. Buffer.		7235951. 7238525.	716 716	C3 C3	6	6SK7, 6A8, 6R7G, 6V6G.	260 12-3,4	
980650.....	Vol. & Tone	7240366.	1/39	Order from	Mfr.			7240612. 7238553. .015-.015.	24 15	FPT234. FPT351. Buffer.		7235951. 7238525.	716 716	C3 C3	6	6K7, 6SA7, 6SK7, 6SR7, 6V6GT.	260	
1291344.....	Vol. Tone	1209078. 1207798.	127 44	UM154-SS3 N.				1209144.	1/15	48718.		5037400.	273C		6	78, 6A7, 6F7, 85, 341.	262 8-15,16	
1291345.....	Vol.	1209078.	15	UM154-SS3				1209047.	1/15	SR622.		5037400.	273C		4	6F7, 6A7, 6B7, 42.	262 6-23,26	
1304873.....	Vol. & Tone	7233109.	22/17	SMD502.				8-8. 10-10. .01-.01.	1 15	2N518. TN111. Buffer.		7232741.	514	C3	6	6K7G, 6A8G, 6R7G, 6J5G, 6N7G.	262 9-76	
1308221.....	Vol. & Tone	7235952.	17/22	SMD505.				7232952. 7235996. .015-.015.	1 15	2N518. TN111/BB12. Buffer.		5050498.	716	C3	6	6K7G, 6A8G, 6R7G, 6V6G.	260 12-1,2	
1314523.....	Vol. & Tone	7238538.	20/22	Order from	Mfr.			7238552. 7238553. .015-.015.	1 15	FPT231. FPT351. Buffer.		7235951. 7238525.	716 716	C3 C3	6	6SK7, 6A8, 6R7G, 6V6G.	260 12-3,4	
BULOVA WATCH M501.....	Vol.		8	A5MP.				1-4-2. .055.	28	See Note.	B1				5	51, 24, 47, 80.	2-1	
600, 601, 605, 610.....	Vol.		8	A5MP.		2		1-2-1. .06/.25. .03.	3	See Note. See Note. See Note.	B1 B9 B9				6	51, 24, 47, 80.	175 5-1	
M701.....	Vol. Tone		7 22	G. K12.	6			2-2-2.5. .055.	28	See Note. See Note.	B1 B9				7	51, 24, 27, 47, 80.	175 2-3	
C751.....	Vol. Tone		58 22	F. K12.				8, 8.	34	RS213.					7	35, 27, 24, 47, 80.	175 2-5	
G781.....	Vol. Tone		7 22	G. K12.	6			2-2-2.5. .055.	28	See Note. See Note.	B1 B9				7	51, 24, 47, 27, 80.	175 2-3	
BUSH AND LANE 10.....	Vol.		26	A10MP.		See Note	A18	8-8-8.	3	3S584.					8	27, 345, 80.	1-1	
12.....	Vol.		12	A10MP.		See Note	A18	8-8-8.	3	3S584.					8	27, 324, 345, 80.	1-2	
C R C 24-27.....	Vol.		6	G7.	6			4-4.	1	See Note.	B3				4	24, 45, 27.	4-1	
24-45.....	Vol.		6	G7.				4-4.	1	See Note.	B3				4	35, 24, 45, 80.	4-1	
24-47.....	Vol.		6	G7.				4-4.	23	See Note.	B3				4	35, 24, 47, 80.	4-2	
58-47.....	Vol.		6	H7.				4-4.	23	See Note.	B3				4	58, 57, 47, 80.	4-2	
CABLE-NELSON —See Howard.																		

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CADILLAC C8 (1433970).....	Vol.	1434977.....	15	Order from	Mfr.....			30-20.....	46	FPD228.....		1434660.....	954	C3	8	*6SK7, 6K8, 6H6, 6J5, 6V6G, 6N7G.....	456	10-1-4
06W.....	Vol. Tone	91061..... 91013.....	18 44	UM154..... UC502.....	M26.....		A96	P80939..... P80965.....	2 14	2S562..... BB31.....	B14	P1765.....	210	C5	6	*78, 77, 85, 341.....	262	5-1-4
5X.....	Vol. Tone		56 22	Order from MR53.....	Mfr.....			8-8..... .0055.....	1	2N518..... Buffer.....	B14		248	C3	5	*6K7, 6J7, 6B7, 6B5.....	175	8-1
6KB.....	Vol. Tone		56 22	Order from MR53.....	Mfr.....			8-8-12..... .0055.....	1/15	3S579..... Buffer.....	B14		248	C3	6	*6K7, 6J7, 6B7, 4I, 6A6.....	175	8-3
6Q.....	Vol. Tone	P36X214..... P40X210.....	56 34	UC52..... UC502.....			A96	P45X208.....	4	3S579..... CM172.....	B14			C3	6	*6D6, 6C6, 6H7, 4I, 6A6.....	175	7-1,3
6R.....	Vol. Tone		17 34	UC514..... UC502.....				4-5-8..... .0075.....	4/15	3S579..... Buffer.....	B14		294	C3	6	*6D6, 6C6, 75, 4I, 84.....	175	8-5,6
6S.....	Vol. Tone	36X200..... 40X201.....	17 22	UC511..... M.....	6.....			45X204..... 45X203.....	1 15	2N518..... TN111.....	B14	2080.....	253	C3	6	*6D6, 6C6, 75, 4I, 84.....	175	8-7,8
6T.....	Vol. Tone		17 44	↑ L.....		See Note	te A3								6	*6D6, 6C6, 6B7, 342.....	262.5	8-9,10
6U2.....	Vol. Tone		18 22	UC511..... UC502.....	6.....			10-10..... .01.....	1	2S568..... Buffer.....	B14		294	C3	6	*78, 77, 75, 4I, 84.....	262.5	8-4
77.....	Vol. Tone		15	↑		See Note	te A19	10-15-20..... .01-.01.....	24/15	FPT333..... Buffer.....	B14		852	C3	7	*7A7, 7B8, 7E7, 7F7, 7C5, 0Z4.....	260	11-1-4
2029, 2029A, 2030, 2721 (072).....	Vol. Tone		18 44	G..... N.....				P80902.....	13/15	See Note.....	B45		205	C3	7	*36, 37, 347.....	262	5-5
2722 (072A).....	Vol. Tone		18 44	N..... UC502.....				P80902D.....	15/13	See Note.....	B45		210	C3	7	*39, 37, 36, 341.....	262	5-8,10
56V1.....	Vol. Tone		17 44	N..... UC502.....		See Note	te A3	4-4-5.....	13/15	See Note.....	B46		221	C3	6	*78, 77, 6B7, 341.....	262	5-12
1425470, 1425471.....	Vol. Tone		142 22	TM246-SS1..... MR57.....				45X230..... 4.....	1/15 14	3S581..... BB60.....	B14	19A31.....	248	C3	6	*6U7G, 6J7G, 6B8G, 6K6G, 6N7G.....	175	9-1,2
1433970 (C-8).....	Vol.	1434977.....	15	Order from	Mfr.....			.0055..... 30-20.....	46	FPD228.....	B14	1434660.....	954	C3	8	*6SK7, 6K8, 6H6, 6J5, 6V6G, 6N7G.....	456	10-1-4
7232502.....	Vol. Tone		45 22	TM239..... MR48.....	M26.....		A96	8-8..... 12.....	2 15	2N518..... B12.....	B14	7232741.....	514	C3	5	6K7, 6A8G, 6B8G, 6F8G, 6N7G.....	262	9-3,4
7238399.....	Vol.		18	↑		See Note	te A5	.01-.01..... 8-8.....	24/13	Buffer..... 2N518.....	B14		852	C3	7	*7A7, 7B8, 7E6, 7C5, 0Z4.....	455	11-5-10
7240371.....	Vol.	7240851.....	15	↑		See Note	te A19	.01-.01..... 7240724.....	24/15	Buffer..... FPT339.....	B14	7238829.....	868	C3	7	*7A7, 7B8, 7E7, 7F7, 7C5, 0Z4.....	260	12-1,2,3
7240427.....	Vol.	7239816.....	18	↑		See Note	te A3	.006..... 7240724.....	24/15	Buffer..... FPT339.....	B14	7238829.....	868	C3	7	*7A7, 7B8, 7E6, 7C5, 0Z4.....	455	12-4,5,6
CALVERT A50A..... A51A, A52A.....	Vol. Vol.	627..... 627.....	2 8	G12..... UC501.....		EX 400		8-8..... 658.....	1 1	2N518..... 2N518.....					5 5	*24, 47, 80..... *35, 24, 47, 80, or *58, 57, 47, 80.....		6-1 6-2
CAPEHART CK.....	Vol. Tone Phono. Sil.		13 41 87 8	L..... L..... M..... UC501.....				8, 8, 8.....	28	RS213.....	B3				11	*58, 57, 56, 347, 80.....	175	
E-1.....	Vol. Tone		15 41	O..... N.....				8..... 16.....	1/14 1	WE850..... WE1830.....					12	*6K7, 6L7, 6H6, 6C5, 6C5, 5Z4, *6F5, *6L6, 5Z3.....	465	10-1-3
103, 104 (Cosmopolitan) Chassis Z.....	Vol. Tone		33 22	See Note..... See Note.....		A5 A5		8-8-6..... 8-8.....	3 14	See Note..... See Note.....	B3 B3				11	*78, 6A7, 75, 77, *37, *2A5, 80.....	175	5-1
110G Panamuse.....	Vol. Treble Bass		146 146	MR48..... MR48.....				8, 8..... 16.....	30 30	WE850..... WE1650.....					11	*6K7, 6A8, 6H6, 6C5, 6N7, 6C5, *6V6G, 5Z3.....	465	10-4,6
202.....	Vol. Tone		15 41	N..... N.....				8-8..... 1.....	1 13/14	2N518..... BB61.....					9	*6K7, 6A8, 6H6, 6C5, *6F6, 5Z4.....	465	7-1
203 Tuner.....	Vol. Tone		17 44	N..... N.....				1..... 5.....	13 13	BB61..... BB11.....					5	*6K7, 6A8, 6H6.....	465	7-3
203 (Amplifier) 400A.....	Vol. Tone		15 41	M..... O.....				8-8-4-2..... 8-8-4-2-2.....	3/11 37	See Note..... See Note.....	B4 B3				14	*6F5, *6F6, 5Z3..... *58, *56, 57, 55, 47, *80.....	180	7-2 4-1
400B.....	Vol. Tone		33 41	M..... M.....				40..... 8-8-4-2-2.....	15 3	BB17..... See Note.....	B3				17	*58, *56, 57, 55, *2A5, *5Z3.....	180	4-2
400, 401, 402.....	Vol. Supp.		8, 87 41	UC501..... See Note.....		A5 A5		40.....	15	BB17.....					13	*51, *27, *47, *80.....	180	1-1
400B, 402B, 404B, Tuner.....	Vol. Tone Supp.		33 44 8	M..... M..... UC501.....				8-8-4-2-2..... 40.....	3 15	See Note..... BB17.....	B3				17	*58, 2A7, *57, 55, *56, *2A5, *5Z3.....	180	5-2

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CAPEHART—Continued 400B, 402B, 404B, All-Wave..... 400D Tuner..... 400D Treb. Amp..... 400D Bass Amp..... 400G..... Standard Amp.....	Vol. Tone		15	M.				8-8-4-2-2	3	See Note	B3				17	58, 57, 56, 2A7, 2A5, 5Z3, 55.	465	5-4
	Supp. Vol.		8	UC501		See Note	A5	40.	15	BB17								
	B. Tone		146	M.				8-8	13	2N518					9	6K7, 6L7, 6C5, 6116.	465	7-4
	T. Tone		146	M.				25.	15	BB15								
	Sen.		9	k														
	Vol. Treble	2289	146	NN				8-8	1	See Note	B4				4	6F5, 6F6, 5Z3		7-6
	Bass	2287	146	MR4B				8-8-4-2-2	3	See Note	B4				8	6F5, 6F6, 5Z3		7-5
	Sen.	2287	146	MR4B				1119.	3	FD231					23	6K7, 6L7, 6G5, 6J5, 6116, 6F6G, 6V6G, 6N7, 6C5G, 5Z3.	465	10-12-24
		2288	8	Order from	Mfr.			1170.	3	HS693								
								1105.	3	RS216								
CASE—Also see U. S. 601 (Chassis 16SM) 701 (Chassis 16SME) 710, 713, 714, 715, 716, 718, 719..... 801-802 (Chassis 27SME)..... 1001 (Chassis 19RSME)..... 1017 Chassis 110..... 1050..... 1101, 1102 (Chassis 110RSME)..... 1250.....	Radio & Tel.																	
	Vol. Tone	A15113	18	N	6			A15313	25	RS216					6	6D6, 6A7, 6K7, 75, 6F6, 80.	262.5	7-1,3
	Vol. Tone	A15116	34	UC502	6			A15237-2	25	WE850					7	6D6, 6A7, 6K7, 75, 6G5, 6F6, 80.	262.5	7-4,6
	Vol. Tone	A15113	18	N	6			A15313	25	RS216								
	Vol. Tone	A15116	34	UC502	6			A15237-2	25	WE850								
	Vol. Tone	A15113	18	N	6			15078	4	WE1650					7	6K7, 6L7, 6D6, 6B7, 42, 76, 80.	262.5	10-2
	Vol. Tone	A15116	34	UC502	6			15079	4	WE1830								
	Vol. Tone	A15368	18	M	6			A15313	25	RS216					8	6K7, 6L7, 76, 6D6, 75, 6G5, 42, 80.	262.5	7-7,9
	Vol. Tone	A15116	34	UC502	6			A15427	25	RS216	B12							
	Vol. Tone	A15116	34	UC502	6			A15237-2	25	WE850								
CAVALCADE 54..... 64..... 357..... 359..... 3511.....	Vol.		18	UM154		See Note	A96	6-10.	4	See Note	B3		294	C3	5	6A7, 6D6, 75, 42, 84.		
	Vol.		18	UM154		See Note	A96	.02	4	See Note	B14		294	C3	6	6D6, 6A7, 75, 42, 84.		
	Vol.		18	N	6			.02	4	See Note	B3		294	C3	5	6A7, 6D6, 75, 42, 80.	456	6-1
	Vol.		18	UM154		See Note	A96	6-10.	4	See Note	B3		294	C3	6	6D6, 6A7, 75, 42, 84.	456	6-2
	Vol.		45	N	6			.02	1	Buffer	B14				6	1C6, 34, 32, 33, 30.	456	6-3
	CENTURY 4-47..... 4-78..... 5-38..... 5-47..... 7-38 Auto Radio..... "Ace" "Queen".....	Vol.		6	G12	6	EX200	A5	8, 8.	1	ST595				4	35, 24, 47, 80.		3-1
		Vol.		6	See Note			A5	8, 8.	1	ST595				4	58, 57, 47, 80.		3-2
		Vol.		6	See Note			A5							5	36, 338, 339.		3-3
		Vol.		6	G12	6	EX200	A5		1	See Note	B3			5	24, 47, 80.		3-4
		Vol.		64	N		See Note	A5							7	37, 338, 339.		3-5
Vol. Tone			18	N		See Note	A5	16.	3	ST597				10	58, 56, 46, 47, 80.	175	3-6	
Supp. Vol.			34	K12				8.	3	ST595								
Vol. Tone			7	G	2													
Vol. Tone			6	Y	6	EX200		8-4.	1	2N518					6	57, 58, 47, 80.	175	3-7
Vol. Tone			34	K12		See Note	A4	10.	17	BB12								
CHAMPION 4T AC-DC..... 5T (3 band)..... 6T (3 band)..... 30..... 40R, 40RM, 40DW, 40DWM.....	Vol.		6	H12				16-12	23	2P516					4	6D6, 6C6, 43, 25Z5.		7-3
	Vol.		18	N				8-4.	23	2S567					5	2A7, 78, 2A6, 2A5, 80, or 6A7, 6D6, 75, 42, 80.	465	7-1
	Vol. Tone		45	N				8-4.	23	2S567					6	6A8, 6K7, 6116, 6F5, 6F6, 5Z4.	465	7-2
	Vol.		22			See Note	A3	8-14-10-10.	1/15	4S715				3	6D6, 6C6, 12A7.		9-1	
	Vol.		6			See Note	A3											
	Vol.		6	H12				8-4.	23	2S567					4	6D6, 6C6, 42, 80, or 6K7, 6J7, 6F6, 5Z4.		7-5

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CHAMPION—Continued																		
42	Vol.		6	II12			A14	4-4	1	2N518				4	6D6, 6C6, 42, 80 or 58, 57, 2A5, 80		7-3	
52 (Early)	Vol.		6	II12			A14	4-4	15	BB11				5	58, 57, 47, 80 or 6D6, 6C6, 42, 80	456	7-4	
52 (Late)	Vol.		6	II12			A14	4-4	17	BB11				5	6A7, 6D6, 6C6, 42, 80	456	7-5	
52DWG	Vol.		18	N				16-12	27	2P546				5	6A7, 6D6, 75, 43, 25Z5	465	7-4	
54, 55	Vol.		6	MR21			A14	16-16	1	2N506				4	6K7, 6J7, 25L6 or 25A6, 25Z6, K55		9-2	
307	Vol.		6	†				10	15	BB12				3	6D6, 6C6, 12A7, K86C		9-1	
317	Vol.		6	†				10-10-10-10	1/15	2N502/TN111				3	6D6, 6C6, 25A7, K86C		9-1	
500	Vol.		18	†				8-8	1	2N518				5	6A7, 6D6, 6B7, 41, 84 or 6A7, 6D6, 75, 41, 84	456	7-6	
								10	15	BB12								
								.02-.02		Buffer	B14							
501	Vol.		18	UM154			A96	8-8	4	2N518			294	C3	5	6A7, 6D6, 75, 41, 0Z4	456	
								.01-.01		Buffer	B14							
558	Vol.		6	II12			A14	4-4	1	2N518				5	57, 58, 47, 80	456	7-7	
								5	17	BB11								
600	Vol.		18	UM154			A96	6-12	1	2S568			294	C3	6	6D6, 6A7, 75, 41, 84	175	7-8
								10	15	BB12								
								.01-.01		Buffer	B14							
601	Vol. & Tone		18	UM154			A96	8-8	4	2S567			294	C3	6	6K7, 6A8, 6Q7, 6F6, 0Z4	175	7-9
			22	G12				.01		Buffer	B14							
CHEVROLET																		
364441	Vol. & Tone	1207759	17	O	7	FS253		1207695	1	CM172		1207758	221	C3	7	36, 39, 85, 389, 84	262	6-20,22
		1207798	44	N				1207901	15	TN111	B169							
								.015		Buffer	B14							
600153	Vol.	1208075	17	Order from UC512	Mfr.	See Note A27		1207995	1/15	CM162/TN111		5035120	222		5	78, 6F7, 75, 41	262	7-45,46
600249	Vol. & Tone	1208075	17	Order from N	Mfr.	See Note A4		1208241	1	CM172		1208152	222		6	78, 6F7, 85, 341	262	4-1,4-7
		1207798	44	N				1208241	1	CM172		5035120	222		5	78, 6F7, 85, 341	262	9-61,62
600565	Vol.	1208589	17	N	7			1207995	1/15	CM162/TN111		5037916	222		5	78, 6F7, 75, 41	262	6-27,28
600566	Vol.	1208491	17	Order from N	Mfr.	7		1208584	1	CM172		5039661	273C		6	78, 6A7, 6F7, 85, 341	175	6-29,32
601038	Vol. & Tone	1208589	18	N	7			1208693	14	N								
		1208693	44	N				1209144	1/15	4S718		5039661	273C		6	78, 6A7, 6F7, 85, 341	262	8-27,28
601176	Vol.	1209078	17	UM154-SS3				1209047	1/15	SR622		5037400	273C		4	6F7, 6A7, 6B7, 42	262	9-63,66
601177	Vol.	1209078	15	UM154-SS3				1209144	1/15	4S718		5039661	273C		6	78, 6A7, 6F7, 85, 341	262	10-1,2
601525	Vol.	1209364	17	Order from Mfr.				1209531	1/15	CM175		5039661	273C		4	6F7, 6A7, 6B7, 41	175	6-33,36
601574	Vol. & Tone	1209540	15	UM162-SS12				1209047	1/15	SR622		5037400	273C		4	6F7, 6A7, 6B7, 42	262	10-3-4
		1209539	4	MR48				1209285	1/15	3S579		5039661	273C		4	6F7, 6A7, 6B7, 42	262	7-1,3
601586	Vol.	1209368	15	UM157-SS3				1210065	1/15	CM172/TN113		5039661	273C		6	6D6, 6A7, 6F7, 85, 341	262	8-22
601662	Vol. & Tone	1209296	15	UM162-SS12				1210512	1/15	3S579		5040000	294	C3	6	6D6, 6A7, 75, 42, 84	262	8-41
		1209628	21	MR48				.0022		Buffer	B14							
601814	Vol. & Tone	1210104	20	Order from N	Mfr.			W38363	4	2S563		5040000	294	C3	6	6D6, 6A7, 6B7, 76, 42, 84	262	10-5,6
		1207798	44	N				.01		Buffer	B14							
985100	Vol. & Tone	1210512	17	UM157-SS12				6-6	1	2N518		5050673	852	C3	6	6K7G, 6A8G, 6Q7G, 6F6G, 6X5G	262	9-85,86
		1210719	128	MR48				8-8	1	2N518		294C	C3	6	6K7G, 6A8G, 6Q7G, 6N6G, 6X5G	262	9-87,88	
985200	Vol. & Tone	1210664	20	UM162-SS12				8-8	1	2N518		5050673	852	C3	6	6U7G, 6A8G, 6Q7G, 6F6G, 6X5G	262	10-7,8
		1210664	128	MR48				8-8-4-12	1/13/15	3S584/BB12		5050673	294C	C3	7	6K7G, 6A8G, 6R7G, 36N6G, 6X5G	262	9-89,90
985252	Vol. & Tone	7230162	18	UM150-SS12				1212314	1/15	3S579		5050673	294C	C3	7	6U7G, 6A8G, 6R7G, 36V6G, 0Z4	262.5	9-91,92, 10-9,10
								1212313	15	BB11								
								.01-.01		Buffer	B14							
985284	Vol. & Tone	7232981	18	TM215-SS12				7233092	1	2N518		5050673	294C	C3	7	6K7G, 6J7, 6R7G, 6J5G, 6N7G, 0Z4G	262	9-93
		1563950	21	Order from Mfr.				7231831	15	BB12								
								.01-.01		Buffer	B14							
985285	Vol. & Tone	1212542	17	TM224-SS3				1212441	1/13	3S584		5050673	852	C3	6	6U7G, 6A8G, 6Q7G, 6F6G, 0Z4G	262	9-94
		1210719	22	MR48				.005		Buffer	B14							
985300	Vol. & Tone	1210846	17	TM239-SS12				1210857	1/15	2N518/TN111		5041376	273D		6	6D6, 6A7, 85, 76, 6A6	262	8-40,43
		1210719	4	MR48						Buffer	B14							
985255	Vol. & Tone	1211647	17	TM239-SS12				1211167	1	CM172		5041376	273D		6	6D6, 6A7, 85, 76, 6A6	262	8-45,46
		1211647	17	MR48				1211166	15	TN111								
985301	Vol. & Tone	121175	20	TM239-SS12				1209285	1/15	3S579		5041245	273C		6	6D6, 6A7, 85, 341	262	8-44, 10-19
		1211285	119	MR44						Buffer	B14							
985400	Vol. & Tone	1210954	20	Order from Mfr.						Buffer	B14							
										Buffer	B14							
985424	Vol. & Tone	1212903	20/39	Order from Mfr.				1212902	1/15	FPT332		5050673	294C	C3	7	6K7, 6A8, 6R7, 36V6G, 0Z4	262.5	10-11-14
								1212313	15	BB12								
								.01-.01		Buffer	B14							
985425	Vol.	1212967	18	UM161-SS24	M26			5-5-20	24/15	FPT332		1212966	869	C3	5	6A8G, 6K7G, 6Q7G, 6K6G, 6X5G	455	10-15,18
								.0065		Buffer	B14							
985426	Vol. & Tone	7236369	18/21	SMD511		See Note A5		8-8	74	2S567		5050673	852	C3	6	6K7, 6A8, 6Q7, 6K6G, 0Z4G	260	10-17,18
								.01-.01		Buffer	B14							

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CHEVROLET—Continued																		
985536	Vol.	1213639	124	SM309				1213652	46	FPT389		7239439	839	C3	8	6K7GT, 6A8GT, 6R7GT, 6V6GT, 0Z4	262.5	11-1-4
985537	Vol.	7239120	18	SM312				1213653	15	TN125	B14	1213881	869	C3	6	6K7GT, 6A8GT, 6Q7GT, 6V6GT, 0Z4	260	11-5-6
985538	Vol.	1213863	18	ORDER FROM MFR				1213868	24/15	FPT328	B14	1213655	869	C3	5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 6X5GT	455	11-7-8
985651	Vol.	1213745	18	MK402	M27			40-20-200	24/19	FPT304					5	1A7GT, 1N5GT, 1A5GT, 1115GT, 35Z5GT, 5459	465	11-9,10
985694	Vol.	1214928	124	SM310				20-10-5	24/13	FPT369		7239439	839	C3	8	6K7GT, 6A8GT, 6R7GT, 6V6GT, 0Z4	262.5	12-1,2,3
985695	Vol.	7241165	18	SM313				20-4	15	2N507	B14				6	6SK7GT, 6A8GT, 6SQ7GT, 6V6GT, 0Z4	260	12-5,6
985696	Vol.	1214864	18	ORDER FROM MFR				20-20-20	24/15	FPT339	B14	7239124	869	C3	6	6SK7GT, 6A8GT, 6SQ7GT, 6V6GT, 0Z4	455	12-7,8
985697	Vol.	1215180	17	SM311				10-15-20	24/15	FPT328	B14	1212966	869	C3	5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 0Z4	455	12-9,14
985775 (Portable)	Vol.		18	UM154			A96	20-5-20	46/15	FPT328		1215198	839	C3	9	6K7, 6SA7, 6SK7, 6SR7, 6I16, 6V6GT, 0Z4	455	12-4
								20-20	46/15	FPT329	B14				4	1R5, 1T4, 1S5, 1S4		
								008		Buffer								
								10	12	BB22								
CLAGO																		
Radiochron "B"	Vol. Tone		6	G12	6		A14	1-2	1	See Note	B1				6	24, 45, 80		\$4-9
531 "Heritage"	Vol. Tone		22	G12			A14	1-2-2-1-1	1	See Note	B1				5	24, 45, 80		\$9-3
	Vol. Tone		6	G7														
	Vol. Tone		22	G12														
CLARION—Also see 11A (52.3)	Transmer Corp.	24-105	18	MR48				18-102	1/15	2N518/BB12					6	6A7, 6D6, 75, 6G5, 41, 80	456	
29, 35 (537)	Vol. Tone	26-106	21	MR48	M26			16-100	19	BB12					4	1D7G, 1D5G, 1H16G, 1G5G, NB1	456	
31, 37 (453)	Vol. Tone	24-111	18	MR48	M27										5	6D8G, 6S7G, 6T7G, 6N5, 1F5G	456	
55A, 57A (645)	Vol. Tone	24-106	18	MR53	M26			1845	1	2N516	B14	3407	246	C3	5	6A7, 6D6, 75, 6G5, 41, 80	456	
58B (735)	Vol. Tone	24-105	18	MR48	M26			18-102	1/15	2N518/BB12					6	6A7, 6D6, 75, 6G5, 41, 80	456	
60, 61 series (646)	Vol. Tone	26-106	21	MR48	M26			18-202	25	RS215					7	6A7, 76, 6D6, 6Q7G, 6G5, 6V6G, 80	456	
70, 71 Series (746)	Vol. Tone	24-103	18	MR48	M26		A96	18-201	25	WE1835					6	6A7, 6D6, 6I16G, 6G5, 6Y7G, 6V6G, 80	456	
	Vol. Tone	26-103	21	MR18	M26			18-203	74/19	3S584	B119	30-100	294	C3	6	6K7, 6A8, 6D6, 75, 41, 84	262	
	Vol. Tone	24-103	18	MR48	M26		A96	18-204	24/15	3S579	B14	30-100	294	C3	7	6K7, 6A8, 6K7G, 6Q7G, 6J5G, 6N7G, 0Z4	262	
	Vol. Tone		22	Order from Mfr				008		Buffer	B14				6	6A7, 6D6, 6Q7G, 6G5, 25B5, 25Z5, L42B	456	
70X (715A)	Vol. Tone	24-106	17	MR53	M26			18-211	1	2N512	B66				8	6K7, 6A8, 6K7G, 6Q7G, 6J5G, 6N7G, 0Z4	262	
80, 81 (846)	Vol. Tone	24-103	18	UM157			A96	18-204	24/15	3S579	B14	30-100	294	C3	8	6A7, 6D6, 6I16G, 6G5, 6Y7G, 6V6G, 80	456	
	Vol. Tone		22	Order from Mfr				008		Buffer	B14				8	6A7, 6D6, 6I16G, 6G5, 6Y7G, 6V6G, 80	456	
88X, 89X	Vol. Tone	24-113	148	†				18-202	1	RS215					8	6A7, 6D6, 6I16G, 6G5, 6Y7G, 6V6G, 80	456	
	Vol. Tone	26-110	41	†				18-201	1	WE1835					8	6A7, 6D6, 6I16G, 6G5, 6Y7G, 6V6G, 80	456	
93 (885)	Vol. Tone	24-113	148	†				18-202	1	RS215					8	6A7, 6D6, 6I16G, 6G5, 6Y7G, 6V6G, 80	456	
	Vol. Tone	26-110	41	†				18-201	1	WE1835					8	6A7, 6D6, 6I16G, 6G5, 6Y7G, 6V6G, 80	456	
Chassis 562	Vol. Tone	24-105	18	MR48				1845	1	2N516		3407	246	C3	5	1C6, 1A4, 6T7G, 6N5, 41	456	
700, 701 (710)	Vol. Tone	26-107	21	†				01-01		Buffer	B14				6	6A7, 6D6, 6Q7G, 6G5, 25B5, 25Z5, L42B	456	
	Vol. Tone	24-106	17	MR53	M26			18-211	1	2N512	B66				6	6A7, 6D6, 6Q7G, 6G5, 25B5, 25Z5, L42B	456	
Chassis 1102	Vol. Tone	24-115	148	†				18-214	1	RS216					11	6C5G, 6A8G, 6K7G, 6I16G, 6G5, 6J7G, 6V6G, 80	456	
	Vol. Tone	26-112	44	Order from Mfr				18-215	1	RS215					11	6C5G, 6A8G, 6K7G, 6I16G, 6G5, 6J7G, 6V6G, 80	456	
Chassis 1105	Vol. Tone	24-115	148	†				18-216	13	ST585					11	6C5G, 6A8G, 6K7G, 6I16G, 6G5, 6J7G, 6V6G, 80	456	
	Vol. Tone	26-112	44	Order from Mfr				18-214	1	RS216					11	6C5G, 6A8G, 6K7G, 6I16G, 6G5, 6J7G, 6V6G, 80	456	
	Vol. Tone							18-215	1	RS215					11	6C5G, 6A8G, 6K7G, 6I16G, 6G5, 6J7G, 6V6G, 80	456	
	Vol. Tone							18-216	13	ST585					11	6C5G, 6A8G, 6K7G, 6I16G, 6G5, 6J7G, 6V6G, 80	456	
CLEARTONE																		
110 (Compact)	Vol. Clr'ty		16	N				3-3-2	3	See Note	B1				6	6Kellog, 80		1-3
112	Vol.		26	K											7	26, 27, 50, 81		1-3
	Vol.		14	N														
CLIMAX																		
4 tube AC-DC	Vol.	1050	6	G12	6	EX300		2031	1/15	TN125					4	6D6, 6C6, 43, 12Z3		7-2
4 tube Battery	Vol.		135	Y10MP	6			2037	12	BB33					4	34, 32, 33		7-1
5 tube AC-DC	Vol.	1050	6	G12	6	EX300		2027	11/15	2N504/2N502	B120				5	6D6, 6C6, 43, 37, 12Z3		7-2
6 tube Battery	Vol.	1057	45	N				2037	12	BB33					6	1C6, 34, 30, 33	456	7-1

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CLIMAX—Continued																		
AA, AAX	Vol.	1050	6	G12	6	EX300	2027	11/15	2N504/2N502	B120				4	6K7, 6J7, 43, 25Z5		7-3	
AB, ABX	Vol.	1059	6	G12		EX300	2027	11/15	2N504/2N502	B120				5	6A8, 6K7, 6J7, 43MG, 25Z5MG	456	7-4	
ABX (late)	Vol.	2007	17	N	6		306	11/15	2N512/2N502	B122				5	6A8, 6K7, 6H6, 43MG, 25Z5MG	456	7-5	
AC 60	Vol.	2009	45	N	6		317	4	RS213					7	6A7, 6D6, 76, 6G5, 6F5G, 42, 80	456	8-15	
AC 61	Vol.	2009B	45	N	6		317	4	RS213					6	6A7, 6D6, 76, 6F5G, 42, 80	456	8-15	
AC 64, AC 64B	Vol.	2009B	45	N	6		317	4	RS213					7	6A7, 6D6, 76, 6G5, 6F5G, 42, 80	456	8-15	
AC 65	Vol.	2009B	45	N	6		317	4	RS213					6	6A7, 6D6, 76, 6F5G, 42, 80	456	8-15	
AD	Vol.	2009B	18	N	6		317	4	RS213					5	6A7, 6D6, 75, 42, 80	456	8-2	
AD6	Vol.	2009B	45	N	6		317	4	RS213					7	6A7, 6D6, 76, 6F5G, 6G5, 42, 80	456	9-2	
AH	Vol.	2009B	18	N	6		311	27	ST589					5	6A7, 6D6, 75, 43, 25Z5, L49C	456	8-2	
AHE	Vol.	2009B	18	N	6		314	27	ST585					6	6A7, 6D6, 75, 6G5, 43, 25Z5, L42C	456	8-2	
AJ	Vol.	2009C	18	N	7		324	1	ST585		2501	See Note	C8	5	1C6, 1A4, 1B5, 30, 19	†	8-4	
AKE	Vol.	2009B	18	N	6		304	15	BB12					5	6A7, 6S7G, 6T7G, 6G5, 41	456	8-5	
AL	Vol.	2016B	6	MR18	M26	EX400	324	4	BB25					4	6D6, 6C6, 26L6, 25Z5, L55B		9-1	
AR	Vol.	2022	6	MR29	M26	EX300	312	4	BB22		B14			4	6K7, 6J7, 25L6, 25Z6		9-2	
ASE	Vol. Tone	2009B	45	N	6		311	4	ST589					7	6A7, 6D6, 76, 6G5, 25L6, 25Z5, L80B	†	9-1	
ATE	Vol. Tone	2009B	45	N	6		314	4	ST585					7	6A7, 6D6, 76, 6G5, 25L6, 25Z5, L73B, L80B	456	9-1	
AX	Vol. Tone	2009B	45	N	6		317	4	RS213					6	6A7, 6D6, 76, 6F5G, 42, 80	†	7-6	
A4	Vol.	1050	6	G12	6	EX300	2004	1	2N507					4	39-44, 77, 43, 12Z3			
Diamond Duke	Vol.	2015	6	G12	6	EX500	2005	15	TN111					4	6D6, 6C6, 43, 25Z5			
	Vol.	2006	6	G12	6	EX300	5-10-25	40/15	UR182		B3			1	6D6, 6C6, 43, 25Z5, L55B		8-5	
E	Vol.	2006	6	G12	6	EX275	316	8	TN122/TN111					4	6D6, 6C6, 43, 25Z5		8-7	
E02	Vol.	2006A	6	G12	6	EX300	316	†	TN122/TN111					1	6D6, 6C6, 43, 25Z5		9-1	
F	Vol.	2006	6	G12	6	EX275	311	23	ST589					4	6D6, 6C6, 43, 25Z5		8-7	
FBT	Vol.	2006	6	G12	6	EX300	314	23	ST585					4	6D6, 6C6, 43, 25Z5, L55C		\$10-3	
G	Vol.	2013	6	G12	6	EX275	311	27	ST589					4	6A7, 6F7, 43, 25Z5	456	8-8	
HE	Vol.	2009B	18	N	6		314	27	ST585					6	6A7, 6D6, 6Q7G, 25B5, 25Z5, 6G5	456	8-9	
JE	Vol.	2009B	18	N	6		311	27	ST589					6	6A7, 6D6, 6Q7G, 25B5, 25Z5, 6G5	456	8-9	
JEBT	Vol.	2009B	18	N	6		314	27	ST585					6	6A7, 6D6, 6Q7G, 6G5, 25B5, 25Z5	456	8-13	
JL	Vol. Tone	2011	83	N			317	1	RS213					11	6A7, 6D6, 76, 6G5, 6F5G, 42, 80	456	8-10	
KSW4	Vol.	1050	6	Z12	6	EX300	304	15	BB12					4	58, 57, 47, 80		7-7	
LEE SW5	Vol.	1050	6	G12	6	EX300	8-4	4	2S567		B33			3	58, 57, 47, 80		7-7	
M (early)	Vol.	1057	18	N	6		2016	1/15	3S579					5	6A7, 6D6, 75, 42, 80	456	7-9	
M and ME (late)	Vol. Tone	2011	45	N			317	1	RS213					8	6A7, 76, 6D6, 6F5G, 6G5, 42, 80	456	8-11	
MEBT	Vol. Tone	2012	34	Z12	6		304	15	BB12					8	6A7, 76, 6D6, 6G5, 6F5G, 42, 80	456	8-11	
MP	Vol.	1050	6	G12	6	EX300	2006	21/15	2N502/TN111					4	39/44, 36, 38, 37		7-6	
OPAL	Vol.	2006	6	G12	6	EX300	322	21/15	3N525					1	6D6, 6C6, 38, 76		8-1	
Q69	Vol.	2016	6	MR18	M26	EX400	316	†	TN122/TN111					4	6D6, 6C6, 43, 25Z5, L55B		8-14	
R	Vol.	2006	6	G12	6	EX275	316	8	TN122/TN111					4	6D6, 6C6, 43, 25Z5		8-8	
RBT	Vol.	2006	6	G12	6	EX250	316	†	TN122/TN111					4	6D6, 6C6, 43, 25Z5		8-12	
SBT	Vol. Tone	2007A	45	N	6		311	27	ST589					7	6A7, 76, 6D6, 6H6G, 6Q7G, 25B5, 25Z5	456	8-13	
T	Vol. Tone	2008A	22	Z12	6		314	27	ST585					4	6D6, 6C6, 43, 25Z5		8-12	
U Series, UE	Vol.	2006	6	G12	6	EX275	320	40/15	2P514/BB12					4	6A7, 6D6, 75, 6G5, 43, 25Z5, L42C or 6A7, 6D6, 75, 43, 25Z5, L49C	456	9-2	
Z55	Vol.	2016	6	MR18	M26	EX400	316	†	TN122/TN111					4	6D6, 6C6, 43, 25Z5, L55B		8-14	
7	Vol.	2010	6	G12	6	EX300	313	15	4S715					4	6D6, 6C6, 38, 76		7-8	
7B	Vol.	2010	6	G12	6	EX300	313	15	4S715					4	6D6, 6C6, 38, 76		7-9	
10, 12, 14, 19	Vol.	2006	6	G12	6	EX300	309	6/15	4S715					4	6D6, 6C6, 43, 25Z5		7-10	
30, 34	Vol.	2006A	6	G12	6	EX300	308	6/15	2N507/TN111					4	6D6, 6C6, 43, 25Z5		7-11	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CLIMAX—Continued																		
35.....	Vol.	2009B.....	17	N.....	6			311.....	23	ST589.....					6	6A7, 6D6, 75, 43, 6G5, 25Z5.....	456	7-12
50, 56, 59.....	Vol.	2007.....	17	N.....	6		10.....	23	RB22.....						5	6A7, 6D6, 75, 43, 25Z5, L55S2.....	456	7-13
66.....	Vol.	1049.....	17	UM154.....		A96	2031.....	1/15	38579.....	B14	801.....	294	C3	6	6A7, 6D6, 76, 75, 41, 81.....	456	7-15	
90, 91, 93.....	Vol. Tone	2007.....	45	N.....	6		.01.....	1/15	38579.....					7	6A7, 6D6, 76, 75, 6E5, 42, 80.....	456	7-14	
90B, 96B, 99B.....	Vol. Tone	2008.....	34	Z12.....			302.....	1/15	38579.....					7	6A7, 6D6, 76, 75, 42, 80, 6G5.....	456	7-15	
424.....	Vol.	2007A.....	45	N.....	6		302.....	1/15	38579.....					1	21, 47, 80.....	\$5-4	7-16	
457.....	Vol.	2008A.....	34	Z12.....			4, 4.....	1	ST595.....					1	58, 57, 47, 80.....	7-16	7-16	
557.....	Vol.	1050.....	6	G12.....	6	EX200	2000.....	4	28567.....					5	58, 57, 47, 80.....	7-16	7-16	
	Vol.	1050.....	6	G12.....	6	EX300	2000.....	4	28567.....					5	58, 57, 47, 80.....	7-16	7-16	
CLINTON																		
6V6.....	Vol. Tone	V14.....	45	MR48.....	M27		C220.....	1	2N516.....	B14	F-7.....	245	C3	6	6D8G, 1E5G, 1H4G, 6T7G, 1J6G.....	456		
19B (194, 195).....	Vol.	V106.....	44	MR39.....			.005.....		Buffer.....					4	6D6, 6C6, 43, 25Z5.....			
51.....	Vol.	V6.....	6	SRP263.....	6		8-20-8.....	8	UR182.....					4	6D6, 6C6, 43, 25Z5, L55B.....			
56P.....	Vol.		6	UM128-SS1.....	M26	EX200	C212.....	8/15	UR182/BB12.....					4	6D6, 6C6, 43, 25Z5, L55B.....			
57PG, 58PG, 59PG, C62SQ.....	Vol. Tone	V6.....	6	SRP263.....	6		8-20-8.....	6	UR182.....					4	6D6, 6C6, 43, 25Z5, L55B.....			
	Vol.		18	UM128-SS1.....	M26	EX200	C212.....	8/15	UR182/BB12.....					4	6D6, 6C6, 43, 25Z5.....			
	Vol.		18	MR48.....	M26		C214.....	27	UR192.....					5	6A7, 6D6, 75, 43, 25Z5.....			
C71XF.....	Vol. Tone	V13.....	18	MR48.....	M26		C221.....	4	RM262.....					7	6A7, 6D6, 76, 75, 42, 6G5, 80.....	456		
C83.....	Vol. Tone	V105.....	21	MR48.....			C216.....	3	WE851.....					8	6D6, 6C6, 43, 25Z5, 6U5.....	456		
	Vol. Tone	V15.....	45	MR48.....			C213.....	3	ST595.....					8	6D6, 6C6, 43, 25Z5, 6U5.....	456		
C93.....	Vol. Tone	V106.....	106	MR48.....			C213.....	3	ST595.....					9	6D6, 6C6, 43, 25Z5, 6U5.....	456		
	Vol. Tone	V15.....	106	MR48.....			8.....	1	WE851.....					9	6D6, 6C6, 43, 25Z5, 6U5.....	456		
	Vol. Tone	V107.....	106	MR39.....			8.....	1	ST595.....					9	6D6, 6C6, 43, 25Z5, 6U5.....	456		
	Vol. Tone	V107.....	106	MR39.....			10.....	15	BB12.....					11	6D6, 6C6, 43, 25Z5, 6U5.....	456		
	Vol. Tone	V15.....	106	MR48.....			C216.....	1	WE851.....					11	6D6, 6C6, 43, 25Z5, 6U5.....	456		
	Vol. Tone	V15.....	106	MR48.....			C205.....	1	ST595.....					12	6D6, 6C6, 43, 25Z5, 6U5.....	456		
	Vol. Tone	V107.....	106	MR39.....			C216.....	1	WE851.....					12	6D6, 6C6, 43, 25Z5, 6U5.....	456		
152, 153.....	Vol.		6	SRP263.....	6		8-8.....	15	2N518.....					4	6D6, 6C6, 43, 25Z5.....			
300.....	Vol. Tone		17	MR48.....	M26		10.....	8	BB12.....					4	6D6, 6C6, 43, 25Z5.....			
	Vol. Tone		21	MR44.....			40-12-10.....	6/15	UR182.....					5	6A7, 6D6, 6Q7G, 25B5, 25Z5.....	465		
440 AC-DC Chassis 32.....	Vol.		6	SRP263.....			12-8-6.....	‡	TN122.....					4	6K7, 6J7, 25L6, 25Z6G.....			
610SP, 611SP.....	Vol.	V2.....	7	MR19.....	M26		C219.....	8/15	UR182/BB12.....					5	6A7, 6D6, 75, 43, 25Z5, 65R4.....	456		
612SP.....	Vol.	X13.....	18	MR48.....	M26		C227.....	8/15	TN125/BB12.....					5	6A7, 6D6, 75, 43, 25Z5, L49B.....	456		
615SQ.....	Vol. Tone	V13.....	18	MR48.....	M26		C214.....	27	UR192.....					5	6A7, 6D6, 75, 43, 25Z5.....	456		
620XP.....	Vol.	V105.....	‡	MR48.....			C224.....	‡	2S563.....					5	6A7, 6D6, 76, 43, 25Z5.....	456		
622XF.....	Vol. Tone	V13.....	62	MR48.....	M26		C221.....	4	2S567.....					7	6A7, 6D6, 76, 6A86G, 6G5, 80.....	456		
630P.....	Vol.	V105.....	22	L.....			8.....	13	BB61.....					4	6D6, 6C6, 43, 25Z5, L80B.....			
716SQ.....	Vol.	V6.....	6	MR28.....	M26	EX200	C219.....	8	UR182.....					6	6A7, 6D6, 75, 43, 6U5, 25Z5, 140R8.....	456		
717SF.....	Vol.	V13.....	18	MR48.....	M26		5.....	15	BB12.....					6	6A7, 6D6, 75, 43, 6U5, 25Z5, 140R8.....	456		
	Vol.	V13.....	18	MR48.....	M26		6-20-8.....	8	UR182.....					6	6A7, 6D6, 75, 43, 6U5, 25Z5, 140R8.....	456		
	Vol.	V13.....	18	MR48.....	M26		5.....	15	BB12.....					6	6A7, 6D6, 75, 43, 6U5, 25Z5, 140R8.....	456		
	Vol.	V13.....	18	MR48.....	M26		20.....	8	ST589.....					6	6A7, 6D6, 75, 43, 6U5, 25Z5, 140R8.....	456		
	Vol.	V13.....	18	MR48.....	M26		12.....	8	BB22.....					6	6A7, 6D6, 75, 43, 6U5, 25Z5, 140R8.....	456		
	Vol.	V13.....	18	MR48.....	M26		8.....	8	ST585.....					6	6A7, 6D6, 75, 43, 6U5, 25Z5, 140R8.....	456		
	Vol.	V13.....	18	MR48.....	M26		5.....	15	BB12.....					7	6A7, 6D6, 76, 6A86G, 6G5, 80.....	456		
723XF.....	Vol. Tone	V13.....	62	MR48.....	M26		C221.....	4	2S567.....					7	6A7, 6D6, 76, 6A86G, 6G5, 80.....	456		
803, (1935, 1936).....	Vol.	V105.....	22	L.....			8.....	13	BB61.....					6	6D6, 6A7, 75, 42, 84.....	456		
	Vol.		18	UM151-SS14.....			4-4.....	4	CM172.....	B14	294	C3		6	6A7, 6D6, 75, 42, 84.....	456		
818SF.....	Vol. Tone	V13.....	45	MR48.....	M26		.01.....		Buffer.....					7	6A7, 6D6, 76, 6Q7G, 25B5, 25Z5, 6G5.....	456		
	Vol. Tone	V105.....	22	L.....			C226.....	6	BB27.....					7	6A7, 6D6, 76, 6Q7G, 25B5, 25Z5, 6G5.....	456		
824XF.....	Vol. Tone	V13.....	18	MR48.....	M26		C200.....	6	BB24.....					7	6A7, 6D6, 75, 76, 42, 80, 6U5.....	456		
	Vol. Tone	V106.....	106	MR39.....			C204.....	13	BB21.....					7	6A7, 6D6, 75, 76, 42, 80, 6U5.....	456		
831SP.....	Vol.	V13.....	18	MR48.....	M26		C221.....	4	2S567.....					7	6A7, 6D6, 75, 76, 42, 80, 6U5.....	456		
	Vol.	V13.....	18	MR48.....	M26		10.....	15	BB12.....					6	6A7, 6D6, 75, 43, 25Z5, 6U5, L80B.....	456		
1501.....	Vol. Tone		15	MR48.....			8.....	13	CS133.....					6	6A7, 6D6, 75, 43, 25Z5, 6U5, L80B.....	456		
	Vol. Tone		‡	Y500MP.....			C227.....	8/15	TN125/BB12.....					15	6L7, 6K7, 6C5, 6H16, 6V6, 5V4, 6G5.....	456		
	Vol.		‡	NN.....			8.....	3	RS213.....	B7				7	37, 42, 82.....	\$3-3		
COAST TO COAST A14.....	Vol.		‡	NN.....			8, 8.....	3	See Note.....	B7				7	37, 42, 82.....	\$3-3		
	Vol.		‡	NN.....			8, 8.....	3	RS213.....	B7				7	37, 42, 82.....	\$3-3		

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
COAST TO COAST—83.....	Continued Vol.		15	N				8, 8, 8, 10, 4-4-4, 2-2-4	1, 15, 14, 3	RS213, BB12, See Note, B3, B7				6	56, 83, 46		§3-4	
56-2'59-2'81.....	Vol. Tone		15	N				8-8-8	3	3S584				7	59, 50, 81, 56		§3-4	
525.....	Vol. Tone		7	M				8-8-8	3	3S584				9	35, 21, 22, 47, 80		4-1	
D3008.....	Vol. Tone		41	L				16-4, 4, 4-4, 5	24, 13, 1, 15	See Note, B3, B3, B3, BB12				7	37, 2A3, 2E2-83		4-2	
D3031.....	Vol. Tone		16	N				12-12, 8-4, 5	9, 14, 15	2S562, 2N516, BB11	B11, B3			5	37, 43, 2S5Z5		4-3	
4978.....	Vol. Tone		15	M				2-2-2	3	See Note, B7				6	24, 45, 50, 81		4-4	
COLONIAL—Also See Sears Roebuck.																		
31AC.....	Hum Fil.		37	C30P				8-8-8	3	MN275				7	26, 27, 71A, 80		1-10	
31DC.....	Vol.		1	M20R										7	26, 71A		1-8,9	
32AC.....	Vol.	4473P	24	GK				1445P	3	MN275				8	24, 27, 45, 80		1-14	
Cavalier, Picadilly, Moderne 32 DC.....	Vol.	4473P	24	GK				8-8	1	MN272				7	24, 27, 45, 80		1-11-14	
33, 34, 35.....	Hum		66	SRP266				D4758P	1	RS213				6	24, 45, 80		1-15	
36.....	Hum		66	SRP266				D4758P	1	RS213				6	24, 45, 80		1-19	
36P.....								R5734A	4	RS216				7	35, 21, 45, 80		1-19	
37.....								R5734A	4	RS216				7	35, 21, 45, 80		2-7	
37P.....	Hum	R5390	66	SRP266				D4758P	1	RS213				6	24, 45, 80		2-9,10	
38.....								4758P	4	RS213				5	24, 45, 80		2-11	
39.....								R5734A	4	RS216				6	35, 24, 45, 80		1-18	
41, 42.....								R5734A	1	RS216				6	35, 24, 45, 80		1-18	
41P.....	Vol.	R6025A	6	H7		1	A14	4758P	4	RS213				6	24, 35, 17, 27, 80	175	2-21,22	
44.....	Vol.	R6172	7	H7				R6122	1	2N518				4	35, 24, 47, 80		2-23	
46 (Midget).....	Vol.	R6025A	6	H7		1		D4758P	4	RS213				8	35, 24, 27, 47, 80	175	2-26	
47, 48.....	Vol.	R6025A	6	H7		1		4758P	4	RS213				5	35, 24, 47, 80		2-30	
49 (Midget).....	Vol.	R6242	7	H				D4758P	4	RS213				10	35, 27, 24, 47, 80	175	2-32	
50 (AVC).....	Vol. Tone		21	N				D4758P	25	RS213				8	35, 24, 27, 47, 80	175	3-1	
51.....	Vol. Tone		6	H		1		D4758P	4	RS213				7	35, 27, 24, 47, 80	175	3-2	
52.....	Vol. Tone		21	N				R6645	1	ST595				4	24, 27, 35, 80	1000	3-6	
55.....	Vol. Tone		15	N				8	12	CS133				7	32, 30, 33	175	3-8,9	
56.....	Vol. Tone		57	N				5	17	BB12				7	57, 58, 56, 24, 47, 80	175	3-10	
62.....	Vol. Tone		57	H7		6		8	25	RS213				7	57, 58, 56, 24, 47, 80	175	3-10	
65.....	Vol. Tone		29	U		6		4	13	See Note, B3				4	34-32, 32, 33, Bal.		3-15	
69.....	Vol. Tone		22	N				8	12	BB31				7	32, 30, 33, Bal.	175	3-17	
71.....	Supp. Tone		7	W		6		D4758P	2	RS213				12	58, 57, 56, 46, 83	175	3-19,22	
73.....	Vol. Tone		34	N				D4758P	23	RS213				6	57, 58, 24, 47, 80	175	3-23	
76.....	Vol. Tone		6	H7		1		14	4	WE1650				9	57, 58, 56, 46, 80	175	3-25	
106B.....	Vol. Tone		17	N				D4758P	4	RS213				4	34-32, 32, 33, Bal.		3-15	
114.....	Hum		66	SRP266				16	13	BB44				7	32, 30, 33, Bal.	175	3-17	
117.....	Hum		66	SRP266				UE115	1	CS133		221	C3	7	36, 39, 85, 41, 84	175	4-7,8	
125.....	Vol.	9151	6	H12		6		R7917	17	BB15, BB15, RS213				6	35, 24, 45, 80		1-19	
136.....	Vol.	R9721	18	N		6		.02	1	Buffer, RS213	B14			6	35, 24, 45, 80		2-11	
150.....	Vol.	R9721	18	N		6		8	1	RS213				6	24, 45, 80		1-18	
164.....	Vol. Tone		17	SRP252		6		D4758P	4	RS213				5	24, 45, 80		4-13	
164B.....	Vol. Tone	R9710	18	SRP252		6		R9150	29	CM175	B47			4	78, 77, 43, 25Z5		4-13	
182.....	Vol. Tone	R9711	22	N				5	15	BB12				4	6A7, 78, 75, 41	480	4-15,18	
250.....	Vol. Tone	R8059	68	D12		6		R8837	1	2N518		271	C3	4	6A7, 78, 75, 41	480	4-15,18	
250AC.....	Vol.	R8059	68	D12		6		R9114	15	BB12		220B	C3	6	78, 6A7, 6B7, 41, 84	175	5-3	
250AC (Ex. Range).....	Vol.	R8747	18	N		6		R9743	1	2N518				6	78, 6A7, 6B7, 41, 84	175	5-3	
250-300 AC-DC.....	Vol.	R8564	18	N		6		R9114	15	BB12				5	78, 6A7, 6B7, 41, 84	175	5-3,7	
279 (A).....	Vol.	R8059	68	D12		6		.01-.01	1	Buffer, 2N518	B14	R9723	296	C3	5	78, 6A7, 6B7, 41, 84	175	5-3,7
279AC.....	Vol.	R8059	68	D12		6		R9743	1	BB12				5	78, 6A7, 6F7, 6B7, 41	175	5-10	
								.01-.01	4	Buffer, 2S567	B14			6	78, 6A7, 6F7, 6B7, 41	175	5-10	
								R9780	4	BB12				5	6A7, 6B7, 77, 43, 25Z5	175	4-22	
								R8053	9	CM175	B49			5	6A7, 6B7, 77, 41, 84	175	4-27	
								R8058	15	BB12				5	6A7, 6B7, 77, 41, 84	175	4-31	
								R8247	23	2S567				5	6A7, 78, 75, 41, 84	175	4-31	
								R8749	23	CS133				5	6A7, 78, 75, 43, 25Z5	175	4-29	
								R8748	23	BB31				5	6A7, 6B7, 77, 43, 25Z5	175	4-22	
								R8053	29	CM175	B123			5	6A7, 6B7, 77, 43, 25Z5	175	4-22	
								R8053	9	CM175	B49			5	6A7, 6B7, 77, 43, 25Z5	175	4-22	
								R8058	15	BB12				5	6A7, 6B7, 77, 41, 84	175	4-27	
								R8247	23	2S567	B33			5	6A7, 6B7, 77, 41, 84	175	4-27	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
COLONIAL—Continued																		
279 (B)	Vol.	R8059	68	D12	6			R8053	29	CM175	B123				5	6A7, 6B7, 77, 43, 25Z5	175	4-23
300 (A)	Vol.	R8059	68	D12	6			R8058	15	BB12					5	6A7, 6B7, 77, 43, 25Z5	175	4-22
300 (B)	Vol.	R8059	68	D12	6			R8053	9	CM175	B19				5	6A7, 6B7, 77, 43, 25Z5	175	4-23
300AC, 301AC	Vol.	R8059	68	D12	6			R8058	15	BB12					5	6A7, 6B7, 77, 43, 25Z5	175	4-23
300 (Ex. Range)	Vol.	R8747	18	N	6			R8247	23	2S567					5	6A7, 6B7, 77, 41, 84	175	4-27
301 (A)	Vol.	R8059	68	D12	6			R8749	23	CS133					5	6A7, 78, 75, 41, 84	175	4-31
301 (B)	Vol.	R8059	68	D12	6			R8748	23	BB31					5	6A7, 6B7, 77, 43, 25Z5	175	4-22
T345, C399	Vol.		6	H12				R8053	9	CM175	B19				5	6A7, 6B7, 77, 43, 25Z5	175	4-23
T397	Tone		57	N				R8058	15	BB12					5	6A7, 6B7, 77, 43, 25Z5	175	4-23
400	Vol.	R6762	6	H12		A14		D4758P	23	RS213					6	58, 24A, 47, 80	175	3-31
C495	Vol.	R6454	21	N				R8624	23	RS213					6	78, 6A7, 85, 41, 84	175	4-36
500 (A)	Vol.	R6762	6	H12		A14		D4758P	23	RS213					6	58, 24A, 47, 80	175	3-31
500 (B)	Vol.	R8059	68	D12	6			R8053	9	CM175	B19				5	6A7, 6B7, 77, 43, 25Z5	175	4-22
501	Vol.	R9234	18	N	6			R8058	15	BB12					5	6A7, 6B7, 77, 43, 25Z5	175	4-23
501AC	Vol.	R9235	21	N	6			R8053	29	CM175	B123				5	6A7, 78, 75, 43, 25Z5	175	4-43
C595	Vol.	R9277	18	N	6			R8058	15	BB12					5	6A7, 78, 75, 43, 25Z5	175	4-45
600, 600A	Vol.	R9235	57	N				R8053	29	CM175	B123				8	58, 56, 27, 47, 80	175	3-36
601	Vol.	R9236	18	C503	6			R9344	23	ST595					6	78, 6A7, 85, 41, 80	175	4-49
602	Vol.	R6571	22	N	6			R9344	23	ST585					10	78, 6A7, 37, 75, 445, 83	175	4-53
603	Vol.	R7240	7	H				R8624	23	RS213					12	6A7, 78, 6B7, 37, 2A3, 83, 56	175	5-15
604	Vol.	R10648	107	N				R7236	23	WE1650					6	78, 41, 75, 42, 80	480	5-19
605	Vol.	R10740	107	C				R7236	23	WE1650					8	78, 6A7, 75, 47, 80, 37	415	5-21
650	Vol.	R6571	18	N	6			R8488	23	RS213					7	78, 41, 37, 75, 47, 80	175	6-1
651	Vol.	R9865	107	N	6			R9237	13	BB40					5	6A7, 78, 75, 41, 80	175	5-25
652	Vol.		18	N	6			8, 8	23	RS213					5	6A7, 78, 75, 41, 84	480	5-27, 28
653	Vol.		6	D7				R8748	23	BB31					5	6A7, 78, 75, 42, 80	480	5-29
654	Vol.	R8059	7	D	6			R8624	23	RS213					5	6A7, 78, 37, 41, 80	480	5-31
655	Vol.		18	N	6			D4758P	23	RS213					5	6A7, 78, 37, 38, 1V	480	5-33
656	Vol.	R10742	18	N	6			8, 8	24	2N502					6	78, 41, 75, 81	480	5-35
657	Vol.	R10648	107	N	6			D4758P	23	RS213					6	78, 41, 75, 42, 80	175	5-37
658	Vol.		18	N	6			R10601	29	UR190	B53				5	6A7, 78, 75, 43, 25Z5	480	5-40, 41
659	Vol.		107	N	6			D4758P	23	RS213					6	78, 41, 75, 80	480	5-43
662	Vol.	R10604	18	N	6			8	23	WE850					6	951, 30, 32, 33	480	5-45, 46
C695	Vol.		15	C				R10673	13/19	2N516/1B15					5	6A7, 78, 75, 41, 84	480	6-2
700, 701, 702	Vol.	R8996	18	N	6			R9204	23	RS213					10	58, 56, 27, 47, 80	175	3-37
700AC, 701AC, 702AC	Vol.	R9396	18	N		A88		R8748	23	BB31					5	6A7, 78, 75, 43, 25Z5	175	4-57
C995	Tone		22	N				D4758P	23	RS213					12	58, 24, 57, 46, 82	175	3-41
1580	Vol.		6	H7				8, 8	7	RS213					7	57, 58, 56, 24, 47, 80	175	
	Vol.		57	N				4	13	CS131								
COLUMBIA PHONO CO.																		
C1, C2, C3, C4	Vol.		14	L				2-2-2	3	See Note	B1				7	26, 27, 71A, 80		1-1, 2
C5 (205)	Vol.		14	L				3-2-2	3	See Note	B1				9	26, 27, 50, 81		1-3
C5 (310)	Vol.		14	L				3-4-4	3	See Note	B1				9	26, 27, 10, 81		1-3
C6, C7	Vol.		14	L				4	4	See Note	B1				6	01A, 71A		1-4
31, 33	Vol.		8	A5MP	6	1		1-4-2	25	See Note	B1				5	51, 24, 47, 80		2-1, 2
								.055		See Note	B9							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
COLUMBIA PHONO C33, C34	Conti-nued Vol.		7	G				2-2 8 .08	25 25	See Note. RS213 See Note.	B1 B9				7	51, 24, 27, 47, 80		2-3
C80A	Vol. Tone		15	M				8-8-10	25/15	3S579					8	58S, 56, 4-S, 47, 82	175	3-2
C80B	Vol. Tone		15	M	6			8-8-10	25/15	3S579					8	58S, 56, 4-S, 47, 82	175	3-3
C90, A, B	Vol. Tone Supp. Tone		15 12 22	M Y M	6			7489 7278 7402 7784 8-8-8	2 13/14 15 15 3	CS136 CM162 BB12 BB15 MN275	B54 B54 B54			11	58S, 56, 57S, 47, 82, 4S	175	3-7.9	
CI00	Vol.		15	M											8	24, 27, 45, 80		3-10
I20B	Vol.		43	GG											6	30, 32, 33		3-11
C800	Vol. Tone		15 22	M K12				8-8-10	25/15	3S579					8	58S, 56, 4-S, 47, 82	175	3-4
900, 901	Vol.		87	↓		See Note	A5	3-4	1	See Note.	B7			4	26, 10, 81, 876		1-4	
902	Vol.		63	↓		See Note	A5	3-4	1	See Note.	B7			6	27, 50, 81		1-5	
930-300	Vol.		63	↓		See Note	A5	3-4	1	See Note.	B7			4	26, 10, 81		1-7	
931	Vol.		63	↓		See Note	A5	3-2	1	See Note.	B7			3	26, 50, 81		1-7	
940	Vol.		40	Y				2-1-5	3	See Note.	B1			8	27, 45, 80		2-4	
950, 961	Vol.		40	G12				3-2-2	3	See Note.	B7			7	26, 27, 50, 81		1-8.9	
980	Phono. Vol. Phono.		63 14 63	↓ L ↓		See Note	A5	1-1-1 3-4	3 1	See Note. See Note.	B1 B7			12	26, 27, 80, 50, 81		1-10	
COLUMBIA RADIO CORP.																		
SG5 (30)	Vol.	848	7	Z				2-1	1	See Note.	B1			5	24, 45, 80		3-1	
SG8	Vol.		69	F7	8		A8	2-2-2	3	See Note.	B1			8	24, 27, 45, 80		1-2	
SG9	Vol. Tone		25 41	G12 N	6		A20	8-8-8	3	See Note.	B3			9	24, 27, 45, 80		3-3	
SG10	Vol.		7	Z		See Note	A10	2-2.5-2.5	3	See Note.	B1			10	24, 27, 45, 80		3-4	
COMET—See Air King																		
COMMONWEALTH 150	Vol.		17	N	6			5-18-7	11	UR182	B31			5	6A7, 6D6, 75, 43, 25Z5	456	§5-5	
CONSOMELLO 8 in line	Vol.		10	D7				↓	3	See Note.	B3			8	26, 27, 71A, 80		§6-4	
CONTINENTAL (Stagle) 9 (71A)								2-4-2	3	See Note.	B1			10	27, 71A, 80		1-1	
(Stagle) 10, A, B, (71A)								2-4-2	3	See Note.	B1			11	27, 71A, 80		1-2	
29A, 29B								2-4-2	3	See Note.	B7			12	27, 50, 81		1-4	
(Stagle) 29C (71)	Phono.		63	Y50MP				2-4-2	3	See Note.	B7			11	27, 71A, 80		1-3	
29C, 29B (50) "Star Tunder" R20, R30, R40	Phono.		63	Y50MP				2-4-2	3	See Note.	B7			12	27, 50, 81		1-3.5	
A2	Vol. Tone	P934	18	N	6			2-4-1.2 8-4	37 1	See Note. 2N518	B7			11	484, 585, 81, VR 6A8, 6K7, 6Q7, 6P6, 5W1		1-6	
A3	Vol. Tone	P943	34	L				8-4	32	2N518				6	6A7, 6D6, 76, 75, 42, 80	456		
A4	Vol.	P943	34	L				4	32	BB60				4	1A7, 1N5, 1H5, 3Q5, 1A7GT, 1P5GT, 1N5GT, 1H5GT, 1Q5GT	455	11-3	
A5	Vol.	P2600	18	MK401	M27			P2602	19	BB15				5	12SK7, 12SA7, 12SQ7, 50L6, 35Z5	455	12-1.2	
A6	Vol.	P3720	18	MK402	M27			P3024	12	BB20				6	6A7, 6D6, 76, 75, 42, 80	455	11-15	
A7	Vol. Tone	P3930	18	MK401	M26			P3935	1	FPI211				7	6SK7, 6SA7, 6SQ7, 6K6G, 5Y3G	455	12-12	
A11	Vol. Tone	P4089 P4193 P4349	64 22 124	TM231-SS22 Order from Mfr. Order from Mfr.	M26 Mfr. Mfr.			P4130 P1992 P4372	1/15 25 25/13	FPT339 WE3050 2S569	B33			12	6AB7, 6SA7, 6SK7, 6SQ7, 6J5GT, 6P6G, 6AF6, 5U4G	455	12-15-17	
A11-PH	Vol.	P4349	124	Order from Mfr.	Mfr.			P4371 P4372	25 25/13	WE3050 2S569				12	6AB7, 6SA7, 6SK7, 6SQ7, 6J5GT, 6P6G, 6AF6, 5U4G	455	12-15-17	
A31	Vol.		18	N				8-4	23	2S567	B33			5	6A7, 6D6, 75, 42, 80	456	7-1	
A77	Vol. Tone	P4089 P4193	64 22	TM231-SS22 Order from Mfr.	M26 Mfr.			P1264	1/15	FPT383				7	6SK7, 6SA7, 6SQ7, 6K6G, 5Y3G	455	12-22	
AM3	Vol. Tone		17 22	UM154 UM161				8-4 8-4 4 5	3 3 13 15	WE850 2S567 BB20 BB12				8	6K7, 6A8, 6Q7, 6L6, 6C5, 5W4	456		
AM4	Vol. Tone	P1158 P1166 P1159 P1167	15 15 44 44	TM236-SS1 TM240-SS1 K12	M26 M26			P1156 P1155 P1154	1 1 13	WE3050 WE1830 WE4030				12	6A8, 6K7, 6H6, 6C5, 6L6, 6C5, 5W4	456	11-8	
AM6	Vol. Tone		17 22	UM154 UM161				8-4 8-4 4 5	3 3 13 15	WE850 2S567 BB20 BB12				10	6K7, 6A8, 6Q7, 6L6, 6C5, 5W4	456		

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CONTINENTAL—Continued																		
AM7.....	Vol. P1158.....	15	TM236-SS1	M26			P1156	1	WE3050						11	6K7, 6A7, 6116, 6C5, 6F6, 5Z3, 6C5	456	11-20
	Tone P1159.....	44	K12				P1155	1	WE1830									
	Vol. P1166.....	15	TM240-SS1	M26		A4	P1154	13	WE4030									
AM8.....	Vol. P1167.....	44	K12			A4	5	15	BB12									
	Vol. P1158.....	15	TM236-SS1	M26			P1154	14	WE4030						19	6K7, 6A8, 6116, 6C5, 5W4, 6F5, 85, 61D6, 42, 445, 83V, 80	456	11-22
	Vol. P1166.....	15	TM240-SS1	M26		A1	P1155	3	WE1830									
	Tone P1159.....	22	K12				P1043	13	BB60									
	Tone P1167.....	22	K12			A4	P1156	2,3	WE3050									
	Bass Tone P1211.....	1	MR48				P304	15	BB12									
AW11.....							P950	13	2N518									
B1.....	Vol. P912.....	18	MR48	M26			P2821	24	2N509							6A7, 25Z5		10-19
B3.....	Vol. P405.....	18	N	7			P160	1	2N518		P1101	245			5	6A7, 61D6, 75, 42, 80	456	11-1
B4.....	Vol. P2600.....	18	MK401	M27			P958	1	2N518						4	1C6, 34, 11S5, 1F4	456	
B5.....	Vol. P3746.....	18	MK401	M26			P2602	19	BB15						4	1A7, 1N5, 11I5, 3Q5	455	11-3
							P3792	46	TN129						5	12A8, 12SK7, 12SQ7, 50L6, 35Z5	455	11-10
B7.....	Vol. P4089.....	64	TM231-SS22	M26			P4264	1/15	FPT383						7	6SK7, 6SA7, 6SQ7, 6K6GT, 5Y3G	455	12-13
	Tone P4531.....	22	MK401															
B11.....	Vol. P4349.....	124	Order from Mfr.				P4372	25/13	2S569						12	6AB7, 6SA7, 6SK7, 6SQ7, 6J5GT, 6F6GT, 6SR7, 6U5, 5U4G	455	12-17-20
	Mike P4350.....	15	UM140-SS25	M28			P4371	25	WE3050									
C5.....	Vol. P3746.....	18	MK401	M26			P3355	24	2N514						5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	11-3
CW13.....	Vol. P3584.....	63	MK402	M26			P3585	24	3N534						2	12AB7, 70L7GT	1575	11-9
D4.....	Vol. P4309.....	18	MK402	M27			P3024	12	BB21						4	1A7, 1N5, 11I5, 1A5	455	12-3
D5, XD5.....	Vol. P3746.....	18	MK401	M26			P3355	24	2N514						5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-4
E4.....	Vol. P4916.....	18	UM154	M27		A96	P2602	19	BB15					4	1A7, 1N5, 11I5, 3Q5	455		
E6.....	Vol. P4231.....	18	UM154	M26		A96	P4224	1/15	FPT360		P4221	246A	C3	6	61B0, 687G, 6T7G, 6J6G, 6L5G, 6N5GT	455	12-9	
F4.....	Vol. P4916.....	18	UM154	M27		A96	P2602	19	BB15					4	1A7, 1N5, 11I5, 3Q5	455		
F5.....	Vol. P3961.....	18	UM161-SS18	M27			P3971	1	FPQ409					5	1A7, 1N5, 11I5, 3Q5, 117Z6	455	11-10	
G4.....	Vol. P4612.....	13	UM161	M27		A96	P4667	12	BB22					4	1R5, 1F4, 1S5, 1S4	455		
G5.....	Vol. P4612.....	13	UM161	M27		A96	P4589	29/1	Order from Mfr.					5	11S5, 11F4, 1S5, 3S4, 35Z5G1	455		
G6.....	Vol. P3961.....	18	UM161-SS18	M27			P3971	1	FPQ409					6	1N5, 1A7, 11I5, 3Q5, 117Z6	455	11-15	
H5.....	Vol. P3961.....	18	UM161-SS18	M27			P3971	1	FPQ409					5	1A7, 1N5, 11I5, 3Q5, 117Z6	455	12-5	
J5, XJ5.....	Vol. P4060.....	18	UM154	M26		A96	P4212	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-6	
J6, XJ6.....	Vol. P4060.....	18	UM154	M26		A96	P3531	1/15	3N528					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5, BT1000	455	12-10	
J55, XJ55, XJ55P11	Vol. P4060.....	18	UM154	M26		A96	P4212	1	2N513					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-21	
K5.....	Vol. P4089.....	18	TM231-SS22	M26			P4130	1/15	FPT339					5	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	12-7,8	
K6.....	Vol. P4089.....	18	TM231-SS22	M26			P4130	1/15	FPT339					6	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	12-11	
K7.....	Vol. P4089.....	18	TM231-SS22	M26			P4130	1/15	FPT339					6	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	12-14	
K63.....	Vol. P4089.....	18	TM231-SS22	M26			P4130	1/15	FPT339					6	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455		
L2.....	Vol. 18		SRP275				4	32	WE450					6	6A7, 6K7, 6116, 6F5, 6F6, 80	456	6-2	
	Tone 34		O	6			8-4	32	2S567		B81			7	6A8, 6K7, 6116, 6A6, 6F6, 80	456	6-1	
L4, ML4.....	Vol. 18		SRP275				4	7	WE450									
	Tone 44		L	6			8-4	7	2N518									
"Admiral" L5.....	Vol. P660.....	18	N	6			5	15	BB12									
	Tone P661.....	34	L	6			P474	32	WE450						7	5Z4, 6F5, 6F6, 6116, 6K7, 6L7, 6C5	456	7-3,4
"Admiral" L6.....	Vol. P660.....	18	N	6			P160	32	2S567		B81							
	Tone P661.....	44	L	6			P304	15	BB12									
"Admiral" L7.....	Vol. P691.....	45	SRP275	7			P474	32	WE450		B81			8	5Z4, 6C5, 6F6, 6K7, 6L7, 6Q7	456	7-5,6	
	Tone P682.....	1	L	6			P160	32	2S567									
	Vol. P660.....	18	N	6			P304	15	BB12									
M1.....	Vol. P661.....	34	L	6			P391	1	2N516		P402	245C	C3	7	1C6, 19, 330, 334	456	7-7	
	Tone P1142.....	18	MR48	M27			.01-.01		Buffer		B14							
M5.....	Vol. P1058.....	22	MR53				P160	1	2S567		B26			6	6A8, 6K7, 6Q7, 6F6, 5Y3	456	7-9	
M5, M5-P11 (1941 Issue A).....	Vol. P4060.....	18	UM154	M26		A96	8-8	1	2N518		P402	245C	C3	7	1C6, 334, 330, 19	456	11-12	
							.01-.01		Buffer		B14							
ML156, ML266.....	Vol. 18		SRP275				4	32	WE450					6	6A7, 6K7, 6116, 6F5, 6F6, 80	456	6-2	
	Tone 34		O	6			8-4	32	2S567		B81							
N6.....	Vol. P4089.....	18	TM231-SS22	M26			P4130	1/15	FPT339					6	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455		
	Vol. P4531.....	139	MK401															
	Vol. P4820.....	18	UM154	M27		A96	P4831	1	HC2501					5	1A7, 1N5, 11I5, 3Q5, 117Z6	155		
P5, XP5.....	Vol. P4820.....	18	UM154	M27		A96	P4860	1	FPT309									

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
CONTINENTAL—Continued P6, XP6.....	Vol.	P4820.....	18	UM161.....	M27		A96	P4860.....	1	FPT309.....					6	1N5, 1A7, 1H5, 3Q5, 117Z6.....	455	
"Admiral" U6.....	Vol. Tone	P801..... P828.....	17 22	UM163-SS3 MR39.....	M26			P795..... P864.....	4 15	CM172..... BB12.....		P816.....	294	C3	6	6D6, 6A7, 6K7, 75, 6F6, 8A.....	456	7-11
X8.....	Vol.	P630.....	18	N.....	6			P160.....	1	2S567.....	B26				5	6A7, 6D6, 75, 42, 80, 6A7, 6D6, 75, 343, 25Z5.....	456	6-4
X541.....	Vol.		18	N.....				18-6..... 5..... 8-8..... .01-.01.....	6 15 1	2N507..... BB12..... 2N516..... Buffer.....		P402.....	245C	C3	6	1C6, 34, 3Q0, 32, 33.....	456	7-2
X641, X741.....	Vol.		45	N.....				P3935.....	1	FPD211.....	B14				6	12SK7, 12SA7, 12SQ7, 50L6, 35Z5.....	455	11-15
XA6.....	Vol.	P3930.....	18	MK401.....	M26			P3792.....	46	TN129.....					5	12A8, 12SK7, 12SQ7, 50L6, 35Z5.....	455	11-10
XB5.....	Vol.	P3746.....	18	MK401.....	M26			P3355.....	24	2N514.....					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5.....	455	11-3
XC5.....	Vol.	P3746.....	18	MK401.....	M26			P3971.....	1	FPQ409.....					5	1A7, 1N5, 1H5, 3Q5, 117Z6.....	455	11-10
XF5.....	Vol.	P3961.....	18	UM161-SS18	M27			P3971.....	1	FPQ409.....					6	1N5, 1A7, 1H5, 3Q5, 117Z6.....	455	11-15
XG6.....	Vol.	P3961.....	15	UM161-SS18	M27			P160.....	1	2S567.....	B26				6	6A7, 6D6, 6H6, 6F5, 42, 80.....	456	7-13
Z2.....	Vol. Tone	P630..... P633.....	45 34	N..... L.....	6			8-4.....	1	2S567.....	B26				6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4.....	456	7-15
Z3.....	Vol. Tone	P934..... P995.....	45 34	N..... L.....	6			P391.....	1	2N516.....		P402.....	245C	C3	6	1C6, 34, 3Q0, 32, 19 or 33.....	456	8-3
"Admiral" Z4.....	Vol. Tone	P680..... P682.....	45 34	SRP275..... L.....	7			P958.....	1	2N518.....	B14	P402.....	245C	C3	6	1C6, 19, 3Q0, 32, 34.....	456	
"Admiral" Z5.....	Vol. Tone	P691..... P692.....	45 44	SRP275..... L.....	7			.01-.01..... P2602.....	1 19	Buffer..... BB15.....	B14				4	1A7G, 1N5G, 1H5G, 1C5G.....	456	10-1
4A.....	Vol.	P2600.....	18	MK401.....	M27			P2602.....	19	BB15.....					4	1A7G, 1N5G, 1H5G, 1C5G.....	456	
4B.....	Vol.	P2610.....	18	MR48.....	M27			P2602.....	19	BB15.....					4	1A7G, 1N5G, 1H5G, 1C5G.....	456	11-4
4C.....	Vol.	P3161.....	18	Order from	Mfr.			P3024.....	12	BB21.....					4	1A7G, 1N5G, 1H5G, 1C5G.....	455	10-3
4D (Early & Late).....	Vol.	P3015.....	18	MK401.....	M27			P3024.....	12	BB21.....					4	1A7G, 1N5G, 1H5G, 1C5G or 1Q5G.....	455	10-3
4D-PH.....	Vol.	P3015.....	18	MK401.....	M27			P3024.....	12	BB21.....					4	1A7G, 1N5G, 1H5G, 1C5G.....	455	11-7
4F.....	Vol.	P3317.....	18	MK401.....	M27			P3024.....	12	BB21.....					4	1A7G, 1N5G, 1H5G, 1Q5G.....	455	10-3
4H.....	Vol.	P2498.....	6	MR36.....	M26			P2431..... P2500.....	1 1	BB26..... BB22.....					4	6K7, 6J7, 25L6, 25Z6	455	10-3
4J.....	Vol.	P3317.....	18	MK401.....	M27			P3024.....	12	BB21.....					4	1A7G, 1N5G, 1H5G, 1Q5G.....	455	11-4
4Z.....	Vol.	P3317.....	18	MK401.....	M27			P3024.....	12	BB21.....					4	1A7G, 1N5G, 1H5G, 1Q5G.....	455	11-9
5A.....	Vol.	P2392.....	18	MR53.....	M26			P2397.....	23	2S567.....	B33				5	6A7, 6D6, 75, 41, 5Y3G.....	456	9-1
5AZ.....	Vol.		18	MR53.....	M26			5-5.....	23	RM262.....					5	6A7, 6D6, 75, 41, 80, 25Z5, L55GB.....	456	9-2
5B.....	Vol.	P3082.....	18	MR48.....	M26			P3086.....	1/15	3S579.....					5	6A7, 6D6, 75, 41, 80, 6D6, 6C6, 25L6G, 25Z5, L55GB.....	456	10-5
5C.....	Vol.	P2213.....	6	MR36.....	M26			P2216.....	1	2N506.....					4	6D6, 6C6, 25L6G, 25Z5, L55GB.....	456	9-3
5C-PH.....	Vol. Phono.	P2213..... P2442.....	6 63	MR36..... Order from	M26 Mfr.			P2216.....	1	2N506.....					4	6D6, 6C6, 25L6G, 25Z5, L55GB.....	456	10-5
5CU.....	Vol.	P2213.....	6	MR36.....	M26			16-16.....	1	2N506.....					4	6D6, 6C6, 25L6G, 25Z5, L55GB.....	456	10-5
5D, 5DL.....	Vol.	P3099.....	18	MR48.....	M26			P2936.....	1	2N509.....					5	6A7, 6D6, 75, 25L6, 25Z5, L49B.....	456	10-4
5E.....	Vol.	P2432A.....	18	MR48.....	M26		A58	P2434..... P2427.....	25 25	BB26..... BB22.....					5	6A8, 6K7, 6Q7, 25L6, 25Z6.....	456	9-4
5EA.....	Vol.	P2432A.....	18	MR48.....	M26		A58	P2668.....	1	2N512.....					5	6A8, 6K7, 6Q7, 25L6, 25Z6.....	456	10-4
5F.....	Vol.	P2450A.....	18	MR48.....	M26			P2456.....	23	BB61.....					5	6A7, 6D6, 75, 41, 80, 6D6, 76, 6C6, 41, 80, 6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT.....	456	9-5
5G.....	Vol.	P2450.....	6	MR33.....	M26			P2456.....	25	BB61.....					5	6A7, 6D6, 75, 41, 80, 6D6, 76, 6C6, 41, 80, 6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT.....	456	9-6
5J.....	Vol.	P2432A.....	18	MR48.....	M26		A58	25-10.....	1	2N512.....					5	6A7, 6D6, 75, 25L6, 25Z5, L49B.....	455	10-1
5L, 5LL, 5LL (Phono.).....	Vol.	P2935.....	18	MR48.....	M26			P2936.....	1	2N509.....					5	6A7, 6D6, 75, 25L6, 25Z5, L49B.....	455	10-7
5LS.....	Vol.	P2935.....	18	MR48.....	M26			25-25-5.....	1/13	TN127.....					5	6A7, 6D6, 75, 25L6G, 25Z6GT.....	456	11-11
5M.....	Vol.	P1579.....	18	N.....	6			P1591.....	23	2S567.....					5	6A7, 6D6, 75, 41, 80, 1A7GT, 1N5GT, 1H5GT, 3Q5GT, 70L7GT.....	456	8-1
5N, 5NL.....	Vol.	P3560.....	18	UM161-SS22	M27			P3563..... P3562.....	1 19/3	2N514..... BB17.....					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455	11-13
5Q, 5QL.....	Vol.	P3346.....	18	Order from	Mfr.			P3355.....	24	2N514.....					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455	11-7
5R, 5RL.....	Vol.	P3346.....	18	Order from	Mfr.			P3355.....	24	2N514.....					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455	11-14

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CONTINENTAL—Continued	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-14
5VU	Vol.	P1579	18	N	6			4-8	23	2S567	B33				5	6A7, 6D6, 75, 41, 80	456	9-7
5X	Vol.	P1579	18	N	6			8-4	23	2S567	B33				5	6A7, 6D6, 75, 41, 80	456	8-2
5Z	Vol.	P1515	18	MR53	M26			P1511	23	RM262					5	6A7, 6D6, 75, 41, 80	456	8-3
6A	Vol.	P2136	18	Order from	Mfr.			P2140	1/15	3S579		P1414	850	C3	6	6D8G, 6S7G, 6T7G, 6L5G, 6G6G, 6Z5G	456	10-8
	Tone	P2137	34	L	7			.015		Buffer	B14				6	6A7, 6D6, 75, 76, 41, 80	456	10-9
6B	Vol.	P2271	18	Order from	Mfr.			10-5	23	2S567					6	6A7, 6D6, 75, 76, 41, 80	456	10-9
	Tone	P2093	1	MK401	M26										6	6A8G, 6J5G, 6U7G, 6Q7G, 6G6G, 6Z5G	456	9-7
6D	Vol.	P2271	18	Order from	Mfr.			P2251	1	2N516		P1414	850	C3	6	6A7, 6D6, 75, 25B6G, 25Z5	456	9-9
	Tone	P2271	18	L	7			.015		Buffer	B14				5	6A7, 6D6, 75, 25B6G, 25Z5	455	11-16
6G	Vol.	P2558	18	MR48	M26			P2575	25	BB62					6	6A7, 6D6, 76, 75, 41, 80	456	9-7
	Tone	P2559	22	MR48											5	6A7, 6D6, 75, 25B6G, 25Z5	456	9-9
6H	Vol.	P1555	18	N	6			‡	23	See Note	B3				6	6A7, 6D6, 75, 25L6, 25Z5	455	11-16
	Tone	P1555	18	N	6										6	6A7, 76, 6D6, 75, 41, 80	456	10-13
6J, 6JL	Vol.	P3099	18	MR48	M26			P2936	1	BB25					6	6A7, 6D6, 75, 25B6G, 25Z5	456	9-10
	Tone	P3279	22	MR48											6	6A7, 6D6, 75, 25L6, 25Z5	455	11-16
6K	Vol.	P3082	18	MR48	M26			P3086	1/15	3S578					6	6A7, 76, 6D6, 75, 41, 80	456	10-13
6L	Vol.	P1555	18	N	6			P1561	4	2P549					5	6A7, 6D6, 75, 25B6G, 25Z5	456	9-10
6M, 6ML	Vol.	P3099	18	MR48	M26		A96	20-20-20	1/15	3N534					6	12SK7, 12SA7, 12SQ7, 35L6, 35Z5	455	11-16
	Tone	P3279	22	MR48			A96								6	6D8G, 6S7G, 6T7G, 30, 19	456	8-5
6P	Vol.	P1677	18	N	7			P958	1	2N518		P402	245C	C3	6	6D8G, 6S7G, 6T7G, 30, 19	456	9-11
	Tone	P1764	44	L	7			.01-.01		Buffer	B14				6	6D8G, 6S7G, 6T7G, 30, 19	456	9-11
6PU	Vol.	P1677	18	MR48	M27			P958	1	2N518		P402	245C	C3	6	6D8G, 6S7G, 6T7G, 30, 19	456	9-11
	Tone	P1764	44	MR39				.01-.01		Buffer	B14				5	1A6, 1A4, 30, 1G5G, 1B1	456	8-4
6Q	Vol.	P1579	62	N	6			10	19	BB12					6	6A7, 6D6, 75, 6H5, 41, 80	456	8-7
	Tone	P1642	22	L	6			P1591	23	2S567					5	6A7, 6D6, 75, 25B6G, 25Z5, 149BJ	456	8-8
6W	Vol.	P1579	18	N	6			P1591	23	2S567					6	6A7, 6D6, 75, 6H5, 41, 80	456	8-7
	Tone	P1642	22	L	6			P1591	23	2S567					5	6A7, 6D6, 75, 25B6G, 25Z5, 149BJ	456	8-8
6Y	Vol.	P1555	18	N	6			P1561	27	2P549					7	6D8G, 6L5G, 6S7G, 6T7G, 6G6G, 6Z5G, 6AB5	456	9-12
	Tone	P1555	18	N	6			P1561	27	2P549					7	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G, 6P5G	455	.....
7A	Vol.	P2136	18	Order from	Mfr.			P2140	1/15	3S579		P2147	850	C3	7	6A8G, 6K7G, 6P5G, 6Q7G, 25L6G, 25Z6G	455	.....
	Tone	P2137	34	L	7			.015		Buffer	B14				7	6A7, 6D6, 75, 76, 341, 80	455	11-17
7B	Vol.	P3099	18	MR48	M26			P2936	1	2N509					7	6A7, 6D6, 76, 75, 341, 80	455	11-18
	Tone	P3279	22	MR48											7	6A7, 76, 6D6, 75, 41, 6G5, 80	456	9-13
7BS	Vol.	P3099	18	MR48	M26			25-25-5	46	TN127					7	6A7, 6D6, 75, 76, 341, 80	455	11-17
	Tone	P3279	22	MR48											7	6A7, 6D6, 75, 76, 341, 80	455	11-19
7C	Vol.	P3335	18	MK401	M26			10-10	1	FPD231					7	6A7, 6D6, 75, 76, 341, 80	455	11-17
	Tone	P3337	22	MK401											7	6A7, 6D6, 76, 75, 341, 80	455	11-18
7C-PH	Vol.	P3335	18	MK401	M26			10-10	1	FPD231					7	6A7, 6D6, 76, 75, 341, 80	455	11-18
	Tone	P3337	22	MK401											7	6A7, 76, 6D6, 75, 41, 6G5, 80	456	9-13
7G	Vol.	P2558A	18	MK401	M26			P2575	25	BB62					7	6A7, 76, 6D6, 75, 41, 6G5, 80	456	9-13
	Tone	P2559A	22	MK401											7	6A7, 6D6, 75, 76, 341, 80	455	11-17
7H	Vol.	P3335	18	MK401	M26			P3419	1	FPD231					7	6A7, 6D6, 75, 76, 341, 80	455	11-19
	Tone	P3337	22	MK401											7	6A7, 6D6, 75, 76, 341, 80	455	11-19
7H-PH	Vol.	P3335	18	MK401	M26			P3419	1	FPD231					7	6A7, 6D6, 75, 76, 341, 80	455	11-19
	Tone	P3337	22	MK401											7	6A7, 6D6, 75, 76, 341, 80	455	11-19
7J	Vol.	P1677	18	N	7			P958	1	2N518		P402	245C	C3	7	6K8G, 6S7G, 6AB5, 6T7G, 30, 19	456	8-9
	Tone	P1764	34	L	7			.01-.01		Buffer	B14				7	6A8G, 6K7G, 6P5G, 6Q7G, 25L6G, 25Z6G	455	.....
7K	Vol.	P3099	18	MR48	M26			20-20	1	2N509					7	6A8G, 6K7G, 6P5G, 6Q7G, 25L6G, 25Z6G	455	.....
	Tone	P3099	18	MR48				20	15	BB15					7	6A8G, 6K7G, 6P5G, 6Q7G, 25L6G, 25Z6G	455	.....
7KS	Vol.	P3099	18	MR48	M26			25-25-20	1/15	3N534					7	6A7, 6D6, 76, 75, 6U5, 42, 80	456	8-10
	Tone	P3279	22	MR48											7	6A7, 6D6, 76, 75, 6U5, 42, 80	456	8-11
7M	Vol.	P1749	139	TM227-SS1	M26			4-16	23	2S563	B33				7	6A7, 6D6, 76, 75, 6U5, 42, 80	456	8-10
	Tone	P1750	139	UM160-SS1				10	19	BB12					7	6A7, 6D6, 76, 75, 6U5, 42, 80	456	8-11
7MU	Vol.	P1749	139	TM227-SS1	M26			16-4	23	2S563	B33				7	6A7, 6D6, 76, 75, 6U5, 42, 80	456	8-11
	Tone	P1750	139	UM160-SS1				10	19	BB13					8	6A7, 76, 6D6, 75, 341, 80	456	10-15, 16
8A	Vol.	P2817	18	‡		See Note	A19	P2631	1	2S568					8	6A7, 76, 6D6, 75, 341, 80	456	10-15, 16
8C	Vol.		18	UM154	M26		A96	10-10	1	FPD231					8	6A7, 6D6, 75, 76, 341, 80, 6U5	455	11-23
	Tone		22	UM154			A96								8	6A7, 6D6, 75, 76, 341, 80, 6U5	455	11-23
8K	Vol.	P1821	140	TM236-SS1	M26			P1825	1/13	3S584					8	6A7, 6D6, 75, 76, 342, 80	456	8-13
	Tone	P1822	140	UM160-SS1				P1873	15	BB12					8	6A7, 6D6, 76, 75, 342, 80	456	8-15
8KU	Vol.	P1821	140	TM236-SS1	M26			6-6-2	46	3S584					8	6A7, 6D6, 76, 75, 342, 80	456	8-15
	Tone	P1822	140	UM160-SS1				10	15	BB12					7	6A7, 6D6, 75, 76, 343, 25Z5, 17AJ	456	9-14
8T	Vol.	P1821	140	TM236-SS1	M26			20-25	1	2N513					7	6A7, 6D6, 75, 76, 343, 25Z5, 17AJ	456	9-14
	Tone	P1822	140	UM160-SS1				10	15	BB12					7	6A7, 6D6, 75, 76, 343, 25Z5, 17AJ	456	9-15
8TU	Vol.	P1821	140	TM236-SS1	M26			20-25	1	2N513					7	6A7, 6D6, 75, 76, 343, 25Z5, 17AJ	456	9-15
	Tone	P1822	140	UM160-SS1				10	15	BB12					9	6A7, 6D6, 76, 75, 342, 80	456	9-16
9G	Vol.	P1916	140	TM240-SS1	M26			P1971	1	2S563					9	6A7, 6D6, 76, 75, 342, 80	456	9-16
	Tone	P1917	140	UM160-SS1				P1983	15	BB12								

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CONTINENTAL—Continued																		
11A	Vol. Tone	P2705	20	TM251-SS1				P1939	1	2N518					11	6A8G, 6K7G, 6J5G, 6F6G, 5Z3	456	10-17, 18
11B, 11B-PH	Vol. Tone	P2706	1	UM160-SS1				P1937	13	WE3050					11	6A8G, 6K7G, 6J5G, 6F6G, 5Z3	455	11-24
11S	Vol. Tone	P3472	45	MK401	Mfr.			P1993	25	WE3050					11	6A8, 6K7, 6J7, 6J5, 6F6, 5Z3	456	8-17, 18
16R	Vol. Tone	P1916	140	Order from	M26			P3478	25/14	FPI235				16	6K7G, 6L7G, 6H6G, 6J5G, 6J7G, 6L6G, 5Z3	456	9-17, 20	
16S	Vol. Bass	P1917	140	TM240-SS1				P1937	1	WE3050				16	6K7G, 6L7G, 6H6G, 6J5G, 6J7G, 6L6G, 5Z3	456	10-20	
	Vol. Bass	P1989	18/15	Order from	Mfr.			P1939	1/13	2N518				5	1R5, 1T4, 1S5, 384, 35Z5	455		
	Vol. Bass	P1990	41	M				P1993	30	WE3050				5	1R5, 1T4, 1S5, 384, 35Z5	455		
	Vol. Bass	P1991	15	N				P1992	30	WE1250				5	1R5, 1T4, 1S5, 384, 35Z5	455		
	Vol. Bass	P1997	45/15	Order from	Mfr.			P1997	13/14	2N518				5	1R5, 1T4, 1S5, 384, 35Z5	455		
	Vol. Bass	P1997	7	N				25	30	WE3050				5	1R5, 1T4, 1S5, 384, 35Z5	455		
28G5	Vol.	P4706	18	UM161-SS18				12	30	WE1250				5	1R5, 1T4, 1S5, 384, 35Z5	455		
29G5	Vol.	P4706	18	UM161-SS18				25	30	WE4030				5	1R5, 1T4, 1S5, 384, 35Z5	455		
55	Vol.	P2321	18	UM154-SS3	M26			4-4	13/14	2N518				5	1R5, 1T4, 1S5, 384, 35Z5	455		
61	Vol.	P2321	18	UM154-SS3	M26			P4589	24/1	Order from	Mfr.			5	1R5, 1T4, 1S5, 384, 35Z5	455		
62	Vol.	P2321	18	UM154-SS3	M26			P2329	23	CM172		P1414	850	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	456	9-21
62B7	Vol. Tone	P4089	18	N				.006		Buffer	B11			5	6A7, 6D6, 75, 42, 80	456	12-2	
66	Vol. Tone	P4531	22	TM231-SS22	M26			8-4	23	2S567	B33			7	6SK7, 6SA7, 6SQ7, 6K6G, 5Y3G	455	13, 16	
69	Vol. Tone	P801	17	UM163-SS3	M26			P4264	1/15	FPT383				7	6SK7, 6SA7, 6SQ7, 6K6G, 5Y3G	455	9-22	
77	Vol. Tone	P828	22	MR39				P1293	4	2S567	B33	P1414	850	C3	6	6D6, 6A7, 75, 41, 84	175	9-22
78	Vol. Tone	P1371	18	UM154-SS3	M26			P1312	15	BB11				6	6K7, 6A8G, 6Q7G, 6K6G, 6X5G	175	9-23	
88	Vol. Tone	P1371	22	MR39				.0075	23	2S567	B14	P1414	850	C3	7	6D6, 6A7, 6K7, 6I16, 6C5, 6V6G, 84	175	8-20
319-4Z	Vol. Tone	P1371	45	UM154-SS3	M26			P1293	23	2S567	B33	P1414	850	C3	7	6D6, 6A7, 6K7, 6I16, 6C5, 6V6G, 84	175	8-20
382-7H1-PH	Vol. Tone	P1388	22	Order from	Mfr.			.0075	23	2S567	B14	P1414	850	C3	7	6D6, 6A7, 6K7, 6I16, 6C5, 6V6G, 84	175	8-20
440	Vol. Tone	P1371	45	UM154-SS3	M26			P1293	23	2S567	B33	P1414	850	C3	7	6D6, 6A7, 6K7, 6I16, 6C5, 6V6G, 84	175	8-20
660	Vol. Tone	P1388	22	Order from	Mfr.			.0075	23	2S567	B14	P1414	850	C3	7	6D6, 6A7, 6K7, 6I16, 6C5, 6V6G, 84	175	8-20
770	Vol. Tone	P1371	45	UM154-SS3	M26			6-8	1	2N518			294	C3	8	6D6, 6A7, 6K7, 6I17, 6C5, 6V6G, 0Z4	175	9-24
780	Vol. Tone	P1371	45	UM154-SS3	M26			.0075	1	Buffer	B14			4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-9	
880	Vol. Tone	P1408	17	UM161-SS12	M26			P3024	12	BB21				7	6A7, 6D6, 75, 76, 41, 80	455	11-19	
ML156, ML266	Vol. Tone	P3335	18	MK401	M26			P3419	1	FPI231				4	6K7, 6J7, 25L6, 25Z6G	455		
137X, 150X, 171X	Vol. Tone	P3337	22	MK401	M26			233	8	UR193	B124			6	6A7, 6D6, 75, 41, 84	175	9-22	
	Vol. Tone	P801	17	UM163-SS3	M26			P1293	4	2S567		P1414	850	C3	6	6D6, 6A7, 75, 41, 84	175	9-22
	Vol. Tone	P828	22	MR39				P1312	15	BB11				7	6D6, 6A7, 6K7, 6I16, 6C5, 6V6G, 84	175	8-20	
	Vol. Tone	P1371	45	UM154-SS3	M26			.0075	23	2S567	B14	P1414	850	C3	7	6D6, 6A7, 6K7, 6I16, 6C5, 6V6G, 84	175	8-20
	Vol. Tone	P1388	22	Order from	Mfr.			P1293	23	2S567	B14	P1414	850	C3	7	6D6, 6A7, 6K7, 6I16, 6C5, 6V6G, 84	175	8-20
	Vol. Tone	P1371	45	UM154-SS3	M26			P1293	23	2S567	B33	P1414	850	C3	7	6D6, 6A7, 6K7, 6I16, 6C5, 6V6G, 84	175	8-20
	Vol. Tone	P1388	22	Order from	Mfr.			.0075	23	2S567	B14	P1414	850	C3	7	6D6, 6A7, 6K7, 6I16, 6C5, 6V6G, 84	175	8-20
	Vol. Tone	P1408	17	UM161-SS12	M26			6-8	1	2N518			294	C3	8	6D6, 6A7, 6K7, 6I17, 6C5, 6V6G, 0Z4	175	9-24
	Vol. Tone	P1388	22	Order from	Mfr.			.0075	1	Buffer	B14			6	6A7, 6K7, 6I16, 6F5, 6F6, 80	456	6-2	
	Vol. Tone	P3317	18	MK401	M27			8-4	32	WE450				6	6A7, 6D6, 75, 42, 80	456	6-3	
	Vol. Tone	P3317	18	MK401	M27			8-4	32	2S567	B81			6	6A7, 6D6, 75, 42, 80	456	6-3	
	Vol. Tone	P3317	18	MK401	M27			8-4	23	2S567	B33			6	6A7, 6D6, 75, 42, 80	456	6-3	
	Vol. Tone	P3317	18	MK401	M27			8-4	23	2S567	B33			6	6A7, 6D6, 75, 42, 80	456	6-3	
CORD																		
A255	Vol.	38425	15	UM162-SS12				W38473A	1	2N518		5011245	273C		5	6D6, 6A7, 6B7, 76, 6B5	262	
A455	Vol.	38425	126	UM162-SS12				38473A	1	2N518		5011245	273C		5	6D6, 6A7, 6B7, 6B5	262	
CORONA																		
108	Vol. Tone		18	MR48				16-16	27	2P546				5	6A7, 6D6, 75, 43, 25Z5	456	9-1	
110	Vol. Tone		34	K12				12-4	23	2S563				5	6A7, 6D6, 75, 42, 80	456	7-1	
203	Vol. Tone		18	M										4	6D6, 6C6, 43, 25Z5, K55C		9-2	
209	Vol. Tone		6	K12					1/15	4S715				6	6A7, 6D6, 76, 6F5, 42, 80	456	9-3	
210	Vol. Tone		138											7	6A7, 6D6, 76, 6F5, 42, 80, 6G5	456	9-4	
212	Vol. Tone		138											6	6A7, 6D6, 76, 6F5, 42, 80, 6G5	456	9-4	
214	Vol. Tone	2417	45	MR48	M26			8-8	1	2N518		5113	246	C3	6	1C6, 1A4, 30, 1B4, 19		8-1
406	Vol. Tone		98	MR48	M26			8-8	1	2N518		5113	246	C3	7	1C6, 1A4, 30, 1B4, 19		8-1
	Vol. Tone													4	6D6, 6C6, 38, 12Z3		8-2	
	Vol. Tone													4	6D6, 6C6, 38, 12Z3		7-2	
	Vol. Tone													8	58, 56, 57, 47, 80	177.5	5-6	
CORONADO—See Gable-Skogmo																		
"CRANE" (American Radio Co.)																		
23T8 LW	Vol. Tone		15	N				8, 8	4	5T595				8	58, 56, 57, 47, 80	177.5	5-6	
	Vol. Tone		22	K12														

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY																		
Buddy, Chum.	Vol.		7	A400P.				W4943.	24	MN272				6	24, 271A, 80, 27.		1-17	
AC7, AC7C.	Vol.		29	A550P.				15-15-5.	3	MN275				6	499, 12A, B11		1-18	
A150.	Vol.	51660.	18	MR53.	M26			W51139.	24/15	FPT332		G15-38000.	Order from Mfr.	5	6A8GT, 6SK7, 6SQ7, 6K6GT, 0Z4.	455	12-33,34	
A155.	Vol.	W30436A.	45	UC514.	6			.0065		Buffer	B14	LB32037.	247	C3	5	78, 6F7, 6B7, 42.	181.5	
A156.	Vol.	W37256.	56	UM162-SS5				W32759.	1	RS213.	B130			5				
A157.	Vol.	W50042.	18	MR53.	M26			W32802.	1/15	2S567		G3-38000	850	C3	5	6A7, 6B7, 6D6, 42, 84	262.5	
A158.	Vol.	50526.	18	MR53.	M26			.005	4	CM172	B14			5				
A160.	Vol.	51712.	18	Order from Mfr.				.005	23	Buffer	B14	G10-38000.	850	C3	5	6A8G, 6U7G, 6Q7G, 6K6G, 6X5G	455	
A166.	Vol.	38425.	17	UM162-SS5				W50160.	23	2S567		G10-38000.	850	C3	5	6A8G, 6U7G, 6Q7G, 6K6G, 6X5G	455	
A167.	Vol.	W38989.	45	TM222-SS3				.01	23	2S567	B14	G18-38000.	850	C3	6	6SK7, 6A8GT, 6SQ7, 6V6GT, 0Z4	155	
A168.	Vol.	50526.	18	MR53.	M26			W51782.	24/15	FPT328.	B14	G7-38000.	273C		6	6D6, 6A7, 6B7, 76, 341	262	
A169.	Vol.	W51117.	18	Order from Mfr.				W38427.	1/15	3S579		G6-38000.	853	C3	6	6K7G, 6A8G, 6B8G, 6N6G, 6X5G	262	
A177.	Vol.	W50056.	17	TM252-SS12				W32904.	1	BB15		G10-38000.	850	C3	6	6A8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 6X5G	455	
A250.	Vol.	51711.	18	UM154.	M26	A96		W38430.	15	BB12	B14	G10-38000.	853	C3	7	6K7G, 6A8G, 6R7G, 6V6G, 6W5G	262	
A255.	Vol.	38425.	17	UM162-SS5				.006	15	Buffer	B14	G15-38000.	Order from Mfr.	5	6A8GT, 6SK7, 6SQ7, 6K6GT, 0Z4.	455	12-37,38	
A258.	Vol.	50526.	18	MR53.	M26			.0065	1	2N518.		G7-38000.	273C		5	6D6, 6A7, 6B7, 76, 6B5.	450	
A259.	Vol.	51198.	18	MR53.	M26			W50528.	23	2S567	B14	G10-38000.	850	C3	5	6A8G, 6U7G, 6Q7G, 6K6G, 6X5G	455	
A266.	Vol.	38785.	15	UM147-SS14				.0065	24/15	FPT332	B14	G10-38000.	850	C3	5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	
A267.	Vol.	50056.	124	TM252-SS12				.0065	4	2S567	B14	G6-38000.	850	C3	6	6D6, 6A7, 6B7, 42, 84	262	
A268.	Vol.	50526.	18	MR53.	M26			.005	23	2S567	B14	G10-38000.	850	C3	6	6K7G, 6A8G, 6Q7G, 6K6G, 0Z4.	262	
A350.	Vol.	51198.	18	MR53.	M26			.01-.01	24	FPT231	B14	G10-38000.	850	C3	6	6A8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 6X5G	455	
A355.	Vol.	38425.	17	UM162-SS5				W50674.	24	Buffer	B14	G15-38000.	Order from Mfr.	5	6A8GT, 6SK7, 6SQ7, 6K6GT, 0Z4.	455	12-33,34	
A358.	Vol.	50526.	18	MR53.	M26			.0065	24/15	FPT332	B14	G10-38000.	850	C3	5	6A8G, 6U7G, 6Q7G, 6K6G, 6X5G	155	
A366.	Vol. Tone	38840.	20	TM242-SS14				W38473.	1	2N518.		G7-38000.	273C		5	6D6, 6A7, 6B7, 76, 6B5.	262.5	
A450.	Vol.	50526.	18	MR53.	M26			.0065	15	BB12	B14	G10-38000.	850	C3	6	6D6, 6A7, 6B7, 76, 341	262.5	
A455, A555.	Vol.	38425.	127	UM162-SS5				W51139.	24/15	FPT332	B14	G15-38000.	Order from Mfr.	5	6A8GT, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	12-33,34	
A459.	Vol.	51313.	18	MR53.	M26			.0065	1	2N518.	B14	G7-38000.	273C		5	6D6, 6A7, 6B7, 6B5.	450	
A559 (Roamio)	Vol.	50526.	18	MR53.	M26			W51139.	24/15	FPT332	B14	G16-38000.	850	C3	5	6A8, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	
B36BS.	Vol.	130990.	18	MR53.	M27			51278.	24/15	FPT332	B14	G15-38000.	Order from Mfr.	5	6A8GT, 6SK7, 6SQ7, 6Y6GT, 6X5	455		
J11.	Vol.	49774.	18	MR53.	M26			W45783.	12	BB24.				4	1A7GT, 1N5GT, 1H5GT, 1F5GT	455		
J12.	Vol. Tone	49774.	18	MR53.	M26			49664.	1	2N506.				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5.	135	12-3	
J13.	Vol.	49779.	21	MR48.				49664.	1	2N506.				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5.	455	12-4	
J14.	Vol.	49774.	18	MR53.	M26			49664.	1	2N506.				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5.	455	12-5,6	
J15.	Vol.	49774.	18	MR53.	M26			49664.	1	2N506.				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5.	455	12-5,6	
J16.	Vol. Tone	49774.	18	MR53.	M26			49664.	1	2N509.				5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773	455	12-7	
J18.	Vol.	49779.	21	MR48.				49664.	1	2N506.				5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773	455	12-8	
J30BC.	Vol. Tone	47783-A.	140	TM238-SS1	M26			49773.	46	FPT390				7	6A8GT, 6SK7, 6SQ7, 6J5GT, 6K6GT, 5Y3GT	455	12-9,10	
J35.	Vol.	49774.	18	MR53.	M26			49664.	1	2N506.				5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773	455	12-28	
J539.	Vol.	46124.	18	MR53.	M26			47702.	25	BB26.				5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5.	455	12-31	
								45783.	25	BB24.				5				

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY — Continued																		
J739	Vol. Tone	47858 48181	45 1	MR53 MR48	M26			47702 48596	9 9	BB26 FPD211					7	6A8GT, 6SK7, 6I5, 6SF5, 25L6, 25Z6, 48669	455	11-35 11-38
J819 (5Y3G Rect.)	Vol.	48242	18				A19	47809 46128 46398	1/13 1 1	FPT357 BB34 2N506					8	6K8, 6SK7, 6SQ7, 25L6, 5Y3	455	40-41
J5519	Vol.	48217	18	MR53	M26			46398	1	2N506					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5	455	11-41, 42
J5529	Vol.	48217	18	MR53	M26			46398	1	2N506					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5	455	11-41, 42
J5539	Vol.	46124	18	MR53	M26			47702 45783 48596	25 25 9	BB26 BB24 FPD211					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5	455	
J7739	Vol. Tone	48019 48020	18 1				A19	47702 W34701A W32759	9 24/15 1	BB26 3N526 RS213					7	6A8GT, 6SK7, 6I5, 6SF5, 25L6, 25Z6	455	11-35 6-1
2C1 (Sampler)	Vol.	34698B	6	MR48	6		A14	W34701A W32759	24/15 1	3N526 RS213	B130	LB32037	247	C3	4	6F7, 12A7	456	5-17
4A1	Vol.	32712B	18	UC514	6			W30419A .005	13/15	2N518 Buffer	B14				4	6F7, 6B7, 6D6, 42	456	5-17
4B1 Batt. (Forty)	Vol.	33922A	70	Y10MP	13		A13	W31631B W30419A	1 1/15	ST596 2N518		L31629	223	C3	4	1A6, 34, 33	456	6-2
5A1	Vol.	W30436	73	UC514	6			W31631B W30419A .01	1 1/15	ST596 2N518 Buffer	B14				5	78, 6B7, 41	181.5	5-47
5A3 (Roamio)	Vol.	W30436A	45	UC514	6			W32759 W32802 .005	1 1/15	RS213 2S567 See Note	B130 B14	LB32037	247	C3	5	78, 6F7, 6B7, 42	181.5	6-3
5B3 (Batt. Fiver)	Vol.	W32649	70	Y10MP	13	EX2M		W29150B	1/15	SR615					5	1A6, 34, 33	456	6-5
5M3 (Fiver Jr.)	Vol.	W26573B	6	E7	6	2		W29150B	1/15	SR615					5	6D6, 76, 42, 80	456	5-20
5V1 (Deluxe Fiver)	Vol.	32441A	17	O	6			W30059C	4/14	SR616					5	6A7, 6D6, 6B7, 42, 80	181.5	5-21
5V2 (Fiver Deluxe)	Vol.	33556	17	O	6			W30059C	4/14	SR616					5	6A7, 6D6, 6B7, 42, 80	181.5	6-6
6B1 (Batt. Six)	Vol. Tone	W32062 W32063	45 22	O Z	6		A63	W34898 W34899 W34896 .005	1 13 1/13	RS213 RS213 RM257 Buffer		L33345	247	C3	6	15, 6A7, 30, 38	456	6-7
6H2 (61, 61LB)	Vol. Tone	W28552 W25594B	17 22	UC504 Z	6		A63	W26194B W29097C	4 4/14	WE1250 SR615					6	6A7, 6D6, 6B7, 76, 42, 80	456	5-34
6H3	Vol. Tone	28552 25594B	17 22	UC504 Z	6		A63	W26194B W27097D	4 4/14	WE1250 SR615					6	6D6, 6A7, 6B7, 76, 42, 80	456	6-18
6V2 (Dual Sixty)	Vol. Tone	W30610 W30836	56 22	O Z	6		A63	B30059B	4/13	SR616					6	58, 2A7, 55, 2A5, 80	181.5	5-29, 31
7 (Converter)	Vol. Tone	W32062 W32063	56 22	O Z	6		A63	W23701 W29097C	1 4/13	RS213 SR615					4	24, 27, 80	456	2-1 5-38
7H2 (72, 72LB)	Vol. Tone	W32062 W32063	56 34	O Z	6		A63	W26194B W26194B	4 4	WE1250 WE1250					7	6D6, 6A7, 6B7, 6F7, 42, 80	456	5-41
7H3 (72, 72LB)	Vol. Tone	W32062 W32063	56 34	O Z	6		A63	W26194B W29097C	4 4/14	WE1250 SR615					7	58, 56, 2A5, 80	181.5	
7V2 (Dual Seventy)	Vol. Tone	W25666B W25594B	17 22	UC504 Z	6		A63	W29150B W33990	15/24 12/13	SR615 RM262					8	34, 1C6, 30, 31, 19	456	6-10
8B3	Vol. Tone	W34095 W33993A	45 22	O Z	14			W26194B W29097C	1 3	WE1250 SR615					8	6D6, 6A7, 6B7, 6F7, 42, 80	456	5-46
8H1 (80, 80LB)	Vol. Tone	W33378 W32063	56 149	O Z	6		A63	W27676 49664	1 1	2N502 2N506					3	77, 37	456	4-1
10	Vol.	48320	6	MR33	M26		A14	49664	1	2N506					4	6SK7GT, 6J7GT, 25L6GT, 25Z6GT, W46416		12-1, 2
11	Vol.	49774	18	MR53	M26			49664	1	2N506					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-3
12	Vol. Tone	49774 49779	18 21	MR53 MR48	M26			49664	1	2N506					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-4
13, 14	Vol.	49774	18	MR53	M26			49664	1	2N506					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-5, 6
15	Vol.	49774	18	MR53	M26			49664	1	2N506					5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773	455	12-7
16	Vol. Tone	49774 49779	18 21	MR53 MR48	M26			49664	1	2N506					5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773	455	12-8
18	Vol.	49774	18	MR53	M26			48664	1	2N506					5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773	455	12-9, 10
20, 21, 22 (Batt.)	Vol.	W6251	6	T			See Note	A22							6	22, 201A, 71A		1-19
20	Vol.	130041	18	TM238-SS1	M26			49794	1/15	FPT339					5	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G	455	12-11, 12
21	Vol. Tone	130262 130263	140 140	TM238-SS1 MR57	M26			49794	1/15	FPT339					5	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G	455	12-11, 12
22AS (1940)	Vol.	130262	18	TM238-SS1	M26			130577	1/15	FPT339					5	6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G	455	12-13, 14
23	Vol. Tone	130262 130263	140 140	TM238-SS1 MR57	M26			49794	1/15	FPT339					5	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G	455	12-11, 12
24	Vol. Tone	47783A 130207	140 140	TM238-SS1 MR57	M26			49773	1/13	FPT390					7	6A8GT, 6SK7, 6SQ7, 6J5, 6K6G, 5Y3G	455	12-15, 16
25	Vol. Tone	47783A 130207	140 140	TM238-SS1 MR57	M26			49773	1/13	FPT390					7	6A8GT, 6SK7, 6SQ7, 6J5, 6K6G, 5Y3G	455	12-17, 18
26 (Batt.)	Vol.	20114	12	L			A19	130246	1/13	FPT390					8	6SK7, 6SQ7, 6J5, 6F6, 5Y3G	455	12-19, 21
26 (1940)	Vol. Tone	130192 130207	140 140	MR57											8	6SK7, 6SQ7, 6J5, 6F6, 5Y3G	455	12-19, 21

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
CROSLEY — Continued																		
26 (Revised).....	Vol. Tone	130192..... 130207.....	140 140	MR57.....			A19	130246.....	1/13	FPT390.....					8	6K7GT, 6A8GT, 6SK7, 6SQ7, 6J5, 6F6, 5Y3.....	455	12-20,21
27BD, 27BE.....	Vol.	49974.....	18	Order from	Mfr.....			49995..... 130404.....	24 1	2N515..... HC25025.....					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT.....	455	12-22
27, 28 (Batt.).....	Vol.	24642.....	4	Y25MP.....											6	32, 31.....	455	12-22 2-4
28 (1940).....	Vol. Tone Mike	47783..... 130741..... 130602.....	124 1 1	TM238-SS1 MR57.....	M26			49773.....	1/13	FPT390.....					8	6A8GT, 6SK7, 6SQ7, 6J5GT, 6K6GT, 5Y3G.....	455	12-23,24
29.....	Vol. Tone	130192..... 130741.....	140 140	Order from MR57.....	Mfr.....			130246.....	1/13	FPT390.....					8	6K7GT, 6A8GT, 6SK7, 6SQ7, 6J5GT, 6F6G, 5Y3G.....	455	12-25
30S, 31S, 33S, 34S.....	Vol.	7022.....	7	SRP188.....				W5253.....	3	MN275.....					7	24, 27, 345, 80.....	455	12-20
31, 31BF (1940).....	Vol. Tone Mike	130412..... 130411..... 130794.....	17 15 1 15	Order from MR48..... MR53.....	Mfr.....			130358..... 130900..... 16.....	1 15 1	FPT429..... BB15..... BB24.....				10	6K7GT, 6A8GT, 6SK7, 6SQ7, 6J5, 6V6G, 5U4G, 6E5.....	455	12-27,28	
33BG.....	Vol. Tone Mike	130262..... 130749..... 130579.....	140 140 15	TM238-SS1 MR57..... MR53.....	M26			130577..... 48122.....	1/15 13	FPT339..... BB34.....				6	6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G.....	455	12-28,29	
34BH.....	Vol. Tone Mike	47783..... 130741..... 130602.....	140 140 15	TM238-SS1 MR57..... MR57.....	M26			130246.....	1/13	FPT390.....				10	6K7GT, 6A8GT, 6SK7, 6SQ7, 6J5GT, 6K6GT, 5Y3G, 6E5.....	455	12-30	
35AK.....	Vol.	49774.....	18	MR53.....	M26			49664.....	1	2N506.....				5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773.....	455	12-31	
36AM.....	Vol.	48709.....	18	MR53.....	M27			45783.....	12	BB24.....				4	1A7GT, 1N5GT, 1H5GT, 1A5GT.....	455	12-32	
38BM.....	Vol.	49774.....	18	MR53.....	M26			49664.....	1	2N506.....				5	6SA7, 6SK7, 6SQ7, 25L6, 25Z6, W46773.....	455	12-31	
38 (Field Supply).....	Vol.	W6596B.....	89	DRP305.....	1st type			W29806A.....	1	2S562.....				2	25Z5.....			
40S, 41S, 42S.....	Vol.	W6596B.....	90	DRP305.....	2nd type			W5253.....	3	MN275.....				8	24, 27, 345, 80.....		1-21	
41, 41A, 42.....	Vol.	W7022B.....	91	SRP188.....	3rd type			W4943.....	1	MN272.....				8	26, 27, 371, 80.....		1-22	
43BT.....	Vol.	6352.....	3	SRP185.....				49995..... 130404.....	24 1	2N515..... HC25025.....				5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT.....	455		
48.....	Vol.	W22198.....	6	SRP263.....				W21459.....	1	RS213.....				5	24, 45, 80.....		3-4	
50, 50LB (51H).....	Vol.	W25666.....	18	UC504.....				W26194B.....	4	WF1250.....				5	6A7, 6F7, 6B7, 42, 80.....	456	5-25	
51 (5C2).....	Vol.	W25594.....	22	Z.....	6		A63	W29097C.....	4/14	SR615.....				5	78, 6F7, 6B7, 43, 25Z5.....	181.5	5-28	
53, 54.....	Vol.	W32242.....	56	MR48.....	M26†		A58	W31992.....	11/15	Order from	Mfr.....			5	78, 6F7, 6B7, 43, 25Z5.....	181.5	5-28	
55.....	Vol.	20558.....	6	SRP263.....				W4943.....	1	MN272.....				5	24, 45, 80.....		1-24	
56.....	Vol.	20558.....	2	SRP263.....				W20156.....	39	2S562.....	B11			5	32, 12A, 71A.....		1-25	
57, 58.....	Vol.	20558.....	6	SRP263.....				W21292.....	15	BB15.....				5	32, 12A, 71A.....		1-25	
59AC.....	Vol.	W23117.....	6	E7.....		2		W21292.....	15	BB15.....				5	32, 12A, 71A.....		1-25	
60S, 61S, 62S, 63S.....	Vol.	W23117.....	6	E7.....		2		W4943.....	1	MN272.....				5	24, 45, 80.....		1-24,28	
76.....	Vol.	W2264.....	12	SRP188.....				W23705.....	4	RS215.....				5	35, 24, 47, 80.....		2-6	
77-1.....	Vol.	20304.....	15	Y250MP.....				W23701.....	4	RS213.....				8	22, 212A, 71A.....		1-28	
77A, 77B, 77L.....	Vol.	W21675.....	6	SRP263.....				W5253.....	3	MN275.....				6	24, 371A.....		1-29	
82S.....	Vol.	W20156.....	39	SRP263.....				W20156.....	3	2S562.....	B11			8	24, 371A.....		1-29	
84.....	Vol.	W21292.....	15	BB15.....				W21292A.....	1	BB15.....				7	24, 27, 345, 80.....		1-30,31	
90 (Roamio).....	Vol.	W20304.....	15	Y250MP.....				W20341A.....	3	MN277.....	B60			7	24, 27, 345, 80.....		1-30,31	
91 (Roamio).....	Vol.	W6596B.....	89	DRP305.....	1st type			W20341A.....	3	MN277.....	B60			7	24, 27, 345, 80.....		1-30,31	
92 (Roamio).....	Vol.	W6596B.....	90	DRP305.....	2nd type			W5253.....	3	MN275.....				8	24, 27, 345, 80.....		1-21	
95 (Roamio).....	Vol.	W7022B.....	91	SRP188.....	3rd type			W20341.....	3	MN277.....	B60			8	24, 27, 345, 80.....		1-33	
96 (Roamio).....	Vol.	W20185.....	15	Y250MP.....				W21292A.....	16	BB15.....				5	24, 12A.....		3-5	
98.....	Vol. Supp.	W7877..... 28482.....	26 7	K12..... Y25MP.....				W21292B.....	19	BB15.....				6	36, 37, 71A.....		3-6	
99.....	Vol. Supp. Tone	W21334..... 28482..... 28131A.....	15 56 44	Y250MP..... Y250MP..... Z.....				W25857B.....	12/15	UR180.....				6	36, 39, 37, 41.....	181.5	3-6	
102.....	Vol.	W25781A.....	15	UC504.....	7			W25857B.....	12/15	UR180.....				6	36, 39, 85, 89.....	181.5	3-7	
103.....	Vol.	W25781.....	17	UC504.....	7			W28068.....	1	CS136.....		LB28064	223	C3	5	78, 77, 75, 89.....	181.5	4-2
104, 104R, 105, 105R, 106 (Pwr. Packs).....	Vol. Supp. Tone	28003..... 28482..... 28131A.....	17 56 44	UM165-SS12 Y25MP..... Z.....	M26			W25857B.....	12/15	UR180.....		LB28064	223	C3	6	77, 78, 79, 89, 85.....	181.5	4-3
	Vol.	W29312A.....	1	UM156-SS12	M26			W28406.....	15	BB12.....				5	78, 6B7, 41.....	181.5	4-4	
	Vol.	30436.....	73	UC514.....	6			W26870A.....	15	BB12.....				5	78, 6B7, 41.....	181.5	5-2	
	Vol.	W29808.....	1	Buffer.....				W26870A.....	15	BB12.....				5	78, 6B7, 41.....	181.5	5-2	
	Vol.	W29809.....	12/15	Buffer.....				W26870A.....	15	BB12.....				5	78, 6B7, 41.....	181.5	5-2	
	Vol.	W29808.....	1	Buffer.....				W26870A.....	15	BB12.....				5	78, 6B7, 41.....	181.5	5-2	
	Vol.	W30419.....	1/15	Buffer.....				W26870A.....	15	BB12.....				5	78, 6B7, 41.....	181.5	5-2	
	Vol.	10-10-10.....	3	Buffer.....				W26870A.....	15	BB12.....				5	78, 6B7, 41.....	181.5	5-2	
	Vol.	10-10-10.....	3	Buffer.....				10-10-10.....	3	MN275.....				80			1-7	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
CROSLEY — Continued																		
117 Power Pack.....								W44217.....	1	RS216		W44145	W246	C3				
							W44131.....	1	RS207									
							.01	Buffer	B14									
119.....	Vol. Tone	W25666B... W25594B...	15 22	UC504 Z.....	6			W28978B.....	1	ST587		L28949	F223	C3	6	78, 6B7, 75, 37, 43	181.5 5-5	
							W30568A.....	13/15	3S578									
							.01	Buffer	B14									
							W20341A.....	3	MN277	B60								
120.....	Vol. Tone	W22242..... W20185B...	6 22	G7..... M.....	6			W23701.....	1	RS213								
121 Series "A".....	Vol. Tone	23259..... 22243.....	8 44	SRP264..... M.....				W23705.....	1	RS215								
121 Series "B".....	Vol. Tone	W22934A... W22243A...	15 41	M..... M.....	6			W23701.....	3	RS213								
122.....	Vol. Tone	22597..... 22823.....	6 22	D7..... K12.....	6			W23705.....	3	RS215								
								W22363.....	4	ST595								
								W21459.....	4	RS213								
123.....	Vol. Tone	W23112..... W22823.....	6 34	SRP264..... K12.....	6			W23701.....	1	RS213								
124.....	Vol. Tone	W23618..... W23619.....	6 34	E7..... K12.....	6	2		W23801.....	1	CM172								
124-1.....	Vol. Tone	W25179A... W25594.....	6 44	E7..... Z.....		2		W24342.....	1	RS213								
								W23701.....	1	RS213								
125.....	Vol. Tone	W23618A... W23619.....	6 22	E7..... K12.....	6	2		W23801.....	1	CM172								
								W20156.....	1	2S562	B11							
								W21292B...	1	BB15								
126.....	Vol. Tone	W23637..... W22823.....	92 44	SRP264..... K12.....	6			W20156.....	1	2S562	B11							
126-1.....	Vol. Tone	W24271..... W24416.....	92 34	SRP264..... M.....	8			W24282.....	1	BB15								
								W23701.....	3	RS213								
127.....	Vol. Tone	W24416..... W24444.....	15 41	M..... M.....				W23705.....	3	RS215								
127-1.....	Vol. Tone	W24416..... W25100.....	15 44	M..... Z.....	6			W23701.....	3	RS213								
								W23705.....	3	RS215								
128.....	Vol. Tone	W24405A... W24416.....	71 44	SRP262..... M.....	14	5		W24282.....	19	BB15								
								W25542.....	1	CM172								
129.....	Vol. Tone	W25179A... W25100.....	6 44	E7..... Z.....		2		W24779.....	13	CS133								
								W26118.....	1	CM172								
129-1.....	Vol. Tone	W26121..... W25100.....	6 44	SRP262..... Z.....		2		W26119.....	13	UR180								
								W25162.....	1	ST595								
130.....	Vol. Tone	W25367..... W25400.....	23 44	DRP232..... Z.....				W26119.....	24	UR180								
								8-8.....	1	2S567								
130-1.....	Vol. Tone	W25400..... W25284A...	44 6	DRP232..... SRP262.....	6			W26119.....	13	UR180								
								W24342.....	1	RS213								
131.....	Vol. Tone	W25284A... W25367.....	44 23	Z..... DRP232.....	6	2		W23701.....	1	RS213								
								W25303.....	16	BB12								
132-1.....	Vol. Tone Sil.	W25367..... W25100..... W26877.....	23 44 3	DRP232..... Z..... Y500MP.....				W26194B...	3	WE1250								
								W26118.....	3	CM172								
133.....	Vol. Tone	W25179A... W25539.....	6 72	E7..... N.....		2		W26119.....	24	UR180								
								W25542.....	1	CM172								
134.....	Vol. Tone	W25666..... W25539.....	15 72	UC504..... N.....	6			W25503.....	19	BB12								
134-1.....	Vol. Tone	W25666..... W25539.....	15 72	UC504..... N.....	6			W25542.....	1	CM172								
								W25857.....	15/24	UR180								
135.....	Vol. Tone	W25573..... W25539.....	6 72	E7..... N.....		3		W23701.....	1	RS213								
								W25676.....	2/16	3S584								
136-1.....	Vol. Tone	W25573..... W25367.....	6 23	E7..... DRP232.....				W25542.....	1	CM172								
								W26118.....	16	BB12								
137.....	Vol. Tone	W25400..... W25964A...	44 6	DRP232..... SRP262.....	6	2		W26119A...	2	UR180								
								W25542.....	1	CM172								
141.....	Vol.	W26573.....	6	E7.....	6	2		W25303.....	16	BB12								
								W25542A...	16	CM172								
143.....	Vol. Tone	W28766A... W25666A...	9 57	Y10MP..... UC504.....	14			W25303.....	16	BB12								
								W24779.....	13	CS133								
146.....	Vol. Tone	W25666..... W25100.....	15 67	UC504..... Z.....				W28869.....	2	BB60								
								W26194.....	2	WE1250								
146-1.....	Sen. Vol.	W26877..... W25666A...	7 17	Y500MP..... UC504.....	6			W26896.....	2/15	2S563								
								W26194.....	2	WE1250								
								W25542.....	1	CM172								
147.....	Sen. Vol.	W25594..... W27694.....	67 6	Z..... E7.....	6	3		W25857B...	15	UR180								
								W27676.....	1	2N502								
148.....	Vol.	W26573.....	6	E7.....	6	2		W27677A...	15	TN111								
								W23701.....	1	RS213								
150.....	Vol. Tone	W26877..... W25594.....	15 34	Y500MP..... Z.....	6			W27488.....	1/15	UR180								
								W25542A...	1	CM172								
154.....	Vol.	W28517.....	2	G12.....	6		A63	W26870A...	15	BB12								
								W23701.....	1	RS213								
155.....	Vol.	W27755.....	6	E7.....	8	3		W25857B...	15	UR180								
								W27789.....	1	CS133								
156.....	Vol.	W27939.....	9	Y10MP.....	13	EX1500		W26870A...	15	BB12								
157.....	Vol. Tone	W25666..... W25594.....	15 67	UC504..... Z.....	6		A63	W26118A...	1	CM172								
								W25857.....	14/15	UR180								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY — Continued	158. Vol. Tone	W25666A...	15	UC504				W25542	1	CM172				7	58, 57, 56, 42, 80	181.5	3-31	
	159. Vol.	W25594A... W26573B...	67 6	Z... E7...	6 6		A63	W25857 W28978 W28976 W26870A W29012	14/15 1 1 15 Order	UR180 ST587 CS133 BB12 Buffer from Mfr.		L2894D	F223 C3	5	78, 77, 43	456	4-8	
160. Vol. Tone	W25666	17	UC504				W28468	1	2S563				12	58, 56, 59, 80	181.5	3-32		
163. Vol. QAVC	W25594A...	67	Z12	6			W25857B	14/15	UR180									
	W28287A... W28594A...	8 6	A5MP E12	6 6	EX200		W28340 W28068 W25857B W26870A	1 6 6/15 15	2S563 CS136 UR180 BB12				5	78, 77, 38, 12Z3	456	3-33		
164. Vol. Tone	W25666A	45	UC504				W23705	3	RS215				9	58, 57, 56, 2A5, 80	456	4-11		
166. Vol. Tone	W25594	44	Z...	6		A63	W29097C	3/11	SR615				4	78, 6F7, 38, 12Z3	456	4-12		
167. Vol.	W28594A... W26573B...	6 6	E12 E7	6 6	EX200		W29264A W23701B W27488 W29150A	6/15 1 1/15 1/15	SR617 RS213 UR180 SR615				5	58, 57, 42, 80	456	4-9, 10		
167 Series 2	Vol. Tone	W26573B...	6	E7	6	2	W2150A	1	SR615				5	58, 2A5, 80	456	4-10		
168. Vol. Tone	W25666	17	UC504				W23701B	1	RS213				7	58, 2A5, 2A6, 56, 80	181.5	4-13		
169. Vol. Tone	W25594A... W25964	34 6	Z... SRP262	6 6		A63	W27677A W23701	15 1	TN111 RS213				4	58, 2B7, 42, 80	456	4-14		
169 (Revised)	Vol.	W26573B...	6	E7	6	2	W25857B	1/15	UR180				4	58, 6F7, 2A5, 80	456	5-3, 4		
170. Vol. Tone	W25666A...	15	UC504			A63	W29150A	1/15	SR615				10	56, 58, 2A5, 80	181.5	4-15		
171. Vol. Tone	W25594	44	Z...	6		A63	W23705A	3	RS215				12	58, 56, 2B7, 2A5, 80	181.5	4-16		
172. Vol. Supp.	W25666	15	UC504			A63	W29097A	3/11	SR615				4	78, 6F7, 38, 12Z3	456	4-12		
173. Vol.	W25594	44	Z...	6		A63	W23705A	3	RS215				6	78, 6B7, 43, 25Z5	456	4-17		
173-5	Vol. Supp.	W29657	98	A5MP	6	EX200	W29264A	6/15	SR617				4	78, 6F7, 38, 12Z3	456	4-12		
174. Vol.	W28594A...	6	E12	6	EX200		W30124	8	RM259	B67			6	78, 6B7, 43, 25Z5	456	4-17		
175. Vol. Supp.	W30056	15	UC504		EX200		W27677A	15	TN111				4	78, 6F7, 43, 25Z5	456	4-18		
176. Vol. Supp. Tone	W30057	58	A5MP	6	EX200		W29804A	11	RM259	B68			4	78, 6F7, 43, 25Z5	456	4-18		
176. Vol.	W30058B... W28594A...	1 6	E12	6	EX200	See Note A19	W26194B B30059	28 28/13	WE1250 SR616				14	58, 55, 56, 45, 5Z3	181.5	4-19		
178. Vol.	W28594	6	E12	6	EX200		W28068	1	CS136				5	78, 36, 38, 12Z3	456	4-11		
179. Vol. Tone	W30056	15	UC504		EX2M		W25857B	1/15	UR180				5	34, 1A6, 33, 32	456	5-6		
180. Vol. Tone	W25666	15	UC504			A63	W26870A	15	BB12				7	58, 56, 2A5, 80	181.5	5-8		
181. Vol. Tone	W25594B...	44	Z...	6		A63	W26194B	1	WE1250				10	58, 56, 2A5, 80	181.5	5-10		
182. Vol. Tone	W30610	45	O...	6		A63	W29150A	15/24	SR615				6	2A7, 58, 56, 2A5, 80	456	5-12		
184. Vol.	W30836	34	Z...	6		A63	B30059A	28/13	SR616				5	6A7, 78, 6B7, 43, 25Z5	456	5-14		
416. Vol.	W31204	56	N...	6		A63	W30962	11	2N512				4	58, 6F7, 2A5, 80	456	5-16		
417 (Chattabox)	Vol.	W26573	6	E7	6	2	W30963	11	ST587				4	1A6, 34, 33	450	7-9		
418 (Vanity)	Vol.	W33922A...	54	Y10MP	13		W26870A	15	BB12				4	6A7, 215, 38	450	8-7, 8		
425. Vol.	41754	6	E7	6	3		W34896	1/15	3S578		W37216	246	C3					
428 (Vanity Deluxe)	Vol.	44612	1	E12	6		.001	1	Buffer	B14			3	6J7G, 25A6G, 25A7G, W43357				
429. Vol.	45786	6	MR33	M26	EX300	A101	W43280	1	RS207				3	61G6, 6C6, 25A7G, W43788		9-11		
435. Vol.	36793	6	E7	6	2		W44434	15	RS200				4	78, 6F7, 43, 25Z5	450	7-11		
438-M (438-486)	Vol.	45784	6	MR33	M26	EX300	W45783	4	BB24				4	61G6, 6C6, 25L6G, 25Z6G		9-13		
439. Vol.	W47667	17	MR53	M27			W46128	12	BB34				4	1A7G, 1N5G, 1115G, 1C5G	455	11-4		
448 (Comb.)	Vol.	37187	6	E7	6	3	W34896	1/15	3S578		W37216	246	C3	4	6A7, 215, 38	450	7-13	
449. Vol.	41624	18	MR53	M26			.001	4	BB44	B14			4	6U7G, 6Q7G, 6V6G, 5Y3G		9-15		
458 (Batt. Vanity)	Vol.	W48709	18	MR53	M27		W45783	12	BB24				4	1A7GT, 1N5GT, 1115GT, 1A5GT	455	11-7		
459. Vol.	W48709	18	MR53	M27			W45783	1	BB24				4	61G6, 6C6, 26L6G, 25Z6G		9-28		
468. Vol.	W48327	17	MR53	M27			W48122	12	BB34				4	1A7GT, 1N5GT, 1115GT, 1C5GT	455	11-5, 6		
505. Vol.	46435	17	MR53	M27			W45783	12	BB24				4	1A7G, 1N5G, 1115G, 1C5G	455	10-1, 2		
506 (C-516)	Vol.	W48155	17	MR53	M27		W48122	12	BB34				4	1A7GT, 1N5GT, 1115GT, 1C5GT	455	10-3, 4		
507 (Refrigerator Radio)	Vol.	W46435	17	MR53	M27		W45783	12	BB24				4	1A7G, 1N5G, 1115G, 1C5G	455	11-8, 9		
	Vol.	W36227	17	UC504	6		W35750	1/15	RM265				5	6A7, 61G6, 75, 41, 80	450	6-13		
	Vol.	43340	18	O...			W43280	4	RS207				4	6A7, 75, 43, 25Z5	450	8-11		
	Vol.	45162	18	MR53	M26		W44012	23	RS216				5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3	455	10-5, 6		

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLLEY—Continued 515 (Fiver) 516	Vol.	W37343	6	G12	6	EX200		W36719	1	RM262					5	6D6, 6B5, 76, 80	450	6-11
	Vol.	W37343	6	G12	6	EX200		W41080	1	RS215					5	6D6, 76, 6B5, 80	450	7-58 6-13, 14
517	Vol.	43449	18	O	6			W41081	1	RS216					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3	455	8-13
518 (Foreign)	Vol.	W45864	18	MR53	M26			W44012	23	RS216					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3G	455	11-10
519	Vol.	W48217	18	MR53	M26			W46822	23	RS207	B12				5			
								W45968	23	ST587					5			
								W46398	1	2N506					5	12A8GT, 12SK7GT, 12SQ7GT		
525	Vol.	W36227	17	UC504				W37550	1/15	RM265					5	50L6GT, 35Z5GT	455	11-11, 12
526	Vol.	41027	1	DRP304			A87	W36055	1	WE4050					5	6A7, 6D6, 75, 41, 80	450	
	Vol.	41028	44	MR40	M26			W36057	1	WE4050					5	6A8G, 6K7G, 6J7G, 6N6G, 5ZAMG	450	7-16
527	Vol.	43854	18	Order from	Mfr.			41081	12	RS216					5	1C7, 1D5, 1H6, 1H4, 1J5	455	9-19
529	Vol.	W48217	18	MR53	M26			W46398	1	2N506					5	12A8GT, 12SK7GT, 12SQ7GT		
															5	50L6GT, 35Z5GT	455	11-11, 12
534	Vol.	35013	18	O	6			B30059C	4/14	SR616					5	6A7, 6D6, 75, 42, 80	456	6-15
535	Vol.	37409	6	Order from	Mfr.										5	31, 1A6, 1B5, 33	450	7-17
536	Vol.	41002	6	E7	6	2		W29804A	11	RM259	B68				5	6K7G, 6J7G, 25A6G, 25Z6G	450	7-19
537	Vol.	43733	18	MR53	M26			W41081	23	RS216					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3	455	8-15
539	Vol.	46124	18	MR53	M26			W43450	23	RS216					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5	455	
								47702	25	BB26					5	6I7G, 6B7, 43, 25Z5	450	7-21
								45783	25	BB24					5	6A7, 1B5, 38	450	7-24
545	Vol.	36265	6	E7	6	2		W31992	11/15	Order from	Mfr.				5			
546	Vol.	41252	6	G7	6	2		W36057	1	WE4050		37216	246	C3	5			
	Tone	32908	34	†		2	See Note A5	W41195	15	BB12	B14				5			
								.001		Buffer					5			
547	Vol.	43449	18	O	6			W41081	4	RS216					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3	455	9-17
548	Vol.	45996A	18	MR53	M27			W43450	4	RS216					5	1C7G, 1D5G, 1H6G, 1H4G, 1G5G	455	9-38
549	Vol.		18	Order from	Mfr.			W45968	12	ST587					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 117Z6GT	455	11-13, 14
								W46128	24	BB34					5			
								W46398	24	2N506					5			
								W48562	24	HC2501					5			
								W45783	24	BB24					5			
555	Vol.	37395	1	DRP304	6		A87	W36055	1	WE4050					5	6A8, 6K7, 6J7, 6F6, 5Z4	450	7-25
								W36057	1	WE4050					5			
								W36931	15	BB12					5			
556	Vol.	41069	54	Order from	Mfr.			W44012	13	RS216		W44145	W246	C3	5	1A6, 34, 1B5, 33	450	7-27
557	Vol.	43854	18	Order from	Mfr.			W44217	1	RS216					5	1C7G, 1D5G, 1F7G, 1H4G, 1F5G	455	9-21, 24
								W44131	1	RS207					5			
								.01		Buffer	B14				5			
558	Vol.	W46057	18	MR53	M27			W45968	13	ST587					5	1C7G, 1D5G, 1H6G, 1H4G, 1J6G	455	11-15
566	Vol.	41792	1	Order from	Mfr.			W41081	13	RS216					5	1A6, 34, 1B5, 30, 950	450	8-17
567	Vol.	W43449	18	O	6			W44012	23	RS216					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3	455	9-25-27
568 (Troupier)	Vol.	46411	6	MR33	M26	EX300		W44013	23	RS216					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT, W46416		10-7, 8
577	Vol.	W43449	18	O	6			W43280	4	RS207					5	6A8G, 6U7G, 6Q7G, 25A6G, 25Z6G	455	9-29
579	Vol.	48328	17	MR53	M27			48122	12	BB34					5	1B7G, 1P5G, 1N5G, 1H5G, 1Q5G	455	
586 (B637)	Vol.	W41609	18	Order from	Mfr.										5	31, 1A6, 1B5 or 25S, 950	262	8-19
587	Vol.	43854A	18	Order from	Mfr.			W44769A	23	2S560	B33	W45110	850	C3	5	6A8G, 6U7G, 6Q7G, 6K6G, 6X5G	455	10-9, 10
								.01		Buffer	B14				5			
588 (Super Vanity Fiver)	Vol.	46633	18	MR53	M26			W46398	1	2N506					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-11
589	Vol.	48328	15	MR53	M27			48122	24	BB34					5	1B7G, 1P5G, 1N5G, 1H5G, 1Q5G	455	
596 (C526)	Vol.	W42446	18	N	6			W42439	4	RS207					5	6A8G, 6K7G, 6Q7G, 25A6G, 25Z6G	450	8-21
597	Vol.	44920A	18	MR53	M26			W41958	15	RS200					5	6A8, 6K7, 6Q7, 25A6, 25Z6	455	10-13, 14
598 (Vanity)	Vol.	45786	6	MR33	M26	EX300	A101	46398	1	2N506					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT, W46416		10-12
599	Vol.	W48320	6	MR33	M26		A14	W46398	1	2N506					4	6SK7, 6J7GT, 25L6GT, 25Z6GT, W46416		11-16
602 (Band Box)	Vol.	4247F	4	SRP185			A4	10-10-10	3	MN275					7	26, 27, 71A, 80		1-7
605	Vol.	37110A	33	MR53											6	33A, 1A6, 1B5, 30, 19	450	7-30
	Sen.	37109A	54	Order from	Mfr.										6			

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLLEY — Continued																		
608 (Gembox)	Vol.	W5170	3	SRP185				W4943	1	MN272					6	*26, 27, 71A, 80	1-8	
609 (Gemchest), 610 (Gembox)	Vol.	W5908	3	SRP185				W4943	1	MN272					7	*26, 27, 71A, 80	1-9	
614	Vol.	28552	17	UC504				W26194B	4	WE1250					6	6D6, 6A7, 6B7, 76, 42, 80	456 6-18	
	Tone	25594	22	Z	6			W27097D	4/14	SR165				6	6A7, *6D6, 6B7, 43, 25Z5	450 7-32		
615	Vol.	36052	56	N	6			W31992	11/15	Order from Mfr.				6	6A8G, 6K7G, 6I16G, 6F5G, 6N6G, 5Z4MG	450 7-33		
616	Vol.	W37967	18	O				W36055	1	WE4050				6	6A8G, 6U7G, 6Q7G, *6K6G, 5Y3G	455 9-31		
	Tone	W37908	34	MR40	M26			W36057	1	WE4050				6	6A8G, 6U7G, 6Q7G, 6P5G, 6N6G, 5Z4MG	450 7-33		
617	Vol.	44467	18	O				W44438	1	RS208				6	6A8G, 6U7G, 6Q7G, *6K6G, 5Y3G	455 9-31		
	Tone	44024B	44	MR40	M26			W44012	1	RS216				6	6A8G, 6U7G, 6Q7G, 6P5G, 6N6G, 5Z4MG	450 7-36		
626	Vol.	37907	†	DRP304				W36055	1	WE4050				6	6A8G, 6U7G, 6P5G, 6F5G, 6K6G, 2W3	455 9-42		
	Tone	37908	34	MR40	M26			W36057	1	WE4050				6	6A8, 6K7, 6Q7, 6P5, 6AC5, 5Y3	455		
628	Vol.	45864	46	MR53	M26			W40325	13	RS208				6	6A8G, 6U7G, 6P5G, 6F5G, 6K6G, 2W3	455 9-42		
629	Vol.	47783-A	18	TM238-SS1	M26			W37778	15	TN111				6	6A8, 6K7, 6Q7, 6P5, 6AC5, 5Y3	455		
634 (656)	Vol.	41027	15/15	DRP304		See Note A87		W36055	1	WE4050				6	6A8, 6K7, 6I16, 6F5, 6N6, 5Z4MG	450 8-23		
	Tone	41028A	34	MR40	M26			W36057	1	WE4050				6	6A7, *6D6, 76, 42, 80	450 6-19		
635 (Buccaneer)	Vol.	35938	45	O	6			B30059C	4/13	SH616		W37216	246	C3	6	6A7, 6B7, *15, 19	450 7-38	
636	Vol.	37967	18	O				W36057	1	WE4050				6	6A8G, 6U7G, 6Q7G, 6P5G, 6N6G, 5Z4MG	455 9-35		
	Tone	41627	41	Z	6	A63		W37778	15	TN111				6	6A8G, 6U7G, 6Q7G, *6K6G, 5Y3G	455 9-35		
637	Vol.	43449	18	O	6			W36057	23	WE4050	B14			6	6A8G, 6U7G, 6Q7G, 6P5G, 6N6G, 5Z4MG	455 9-42		
638	Vol.	46314	46	MR53	M26			W41081	23	RS216				6	6A8G, 6U7G, 6P5G, 6F5G, 6K6G, 2W3	455 9-42		
639	Vol.	W47783-A	18	TM238-SS1	M26			W44012	23	RS216				6	6A8G, 6K7G, 6Q7G, 6P5G, 6AC5G, 5Y3G	455 11-17-19		
644 (5666)	Vol.	37395	†	DRP304	6	See Note A87		W45968	23	ST587				6	6A7, 6D6, 76, 75, 6B5, 5Y3	450 8-25		
645	Vol.	36686A	17	UC504	6			W36057	1	WE4050				6	*6D6, 6A7, 85, *48	450 7-39		
646	Sen.	36687	6	E7										6	1C6, *34, 1B5, 30, 19	450 7-41, 42		
646	Vol.	37967	18	O				W37628	12	RS207				6	6A8G, 6U7G, 6Q7G, 25A6G, 25Z6G	455 9-39-41		
647	Tone	41368	34	Order from Mfr.				W40325	29	RS208				6	6A8G, 6U7G, 6Q7G, 25A6G, 25Z6G	455 9-39-41		
	Vol.	43449	18	O	6			W36057	29	WE4050				6	6A8G, 6U7G, 6Q7G, 25A6G, 25Z6G	455 9-39-41		
648 (Super Sextette)	Vol.	46847	18	MR53	M26			W41081	13	RS216				5	6A8G, 6U7G, 6Q7G, 251.6G, 25Z6G, W46773	455 10-15, 16		
649	Vol.	W46847	18	MR53	M26			46398	1	2N506				5	6A8GT, 6U7G, 6Q7G, 251.6G, 25Z6G, W46773	455 11-21, 22		
649 (5656)	Vol.	41027	†	DRP304		A87		W49222	1	2N513	B12			6	6A8, 6K7, 6I16, 6F5, 6N6, 5Z4MG	450 11-21, 22		
	Tone	41028A	34	MR40	M26			W45783	1	BB24	B12			6	6A8, 6K7, 6I16, 6F5, 6N6, 5Z4MG	450 11-21, 22		
655	Vol.	35938	18	O	6			W36055	1	WE4050				6	6A8, *6K7, 6I16, 6F6, 5Z4	450 7-43		
666	Vol.	37395	15 15	DRP304	6	A87		W36057	1	WE4050				6	6A7, 6D6, 76, 75, 6B5, 5Y3	450 8-25, 26		
667	Vol.	44081	18	MR53				W4012	24	RS216		W44962A	850	C3	6	6A8G, *6S7G, 6T7G, 6K6G, 6X5G	455 10-18-20	
	Tone	44946	34	MR39	M26			W44990	21	RS207				6	6A8G, 6U7G, 6P5G, 6F5G, 6V6G, 5Y3G	455 11-20		
668	Vol.	W46124	45	MR53	M26			.006 (60 Cy)		Buffer	B14			6	6A8G, 6U7G, 6P5G, 6F5G, 6V6G, 5Y3G	455 11-20		
								.003 (25 Cy)		Buffer	B14			6	6K8GT, 6K7GT, 6SQ7GT, 6P5GT, 6AC5GT, 2W3GT	455		
669	Vol.	48019	18	†		A19		W46128	23	BB34				6	6A8G, 6Q7G, 25A6G, 25Z6G, 6K7G	450 8-27, 28		
	Tone	48020-B	57	MR48				W45968	23	ST587				6	6A8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, W46773	455 11-23, 24		
676 (C629)	Vol.	42522	18	MR48	M26			49171	46	FPT389				5	6A8G, 6Q7G, 25A6G, 25Z6G, 6K7G	450 8-27, 28		
689	Vol.	W46847	18	MR53	M26			W40325	29	RS208				5	6A8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, W46773	455 11-23, 24		
704 (Showbox)	Vol.	W4247F	3	SRP185		A23		W36057	29	WE4050				7	*26, 27, 71A, 80	1-10		
704A (Jewelbox)	Vol.	W4247	3	SRP185		A23		W41081	13	RS216				7	*26, 27, 71A, 80	1-11		
704B	Vol.	W4247F	3	SRP185		A23		W49326	1/15	FPT354				7	*26, 27, 71A, 80	1-12		
705 (Showbox DC)	Vol.	W4955	1	SRP185		A23		W4929	1	MN272				8	*01A, *71A	1-13		
706 (Showbox)	Vol.	W4955	3	SRP185		A23		W4943	1	MN272				8	*26, 27, 71A, 80	1-14		
714	Vol.	32062	18	O				W26194B	4	WE1250				7	*6D6, 6A7, 6B7, 6F7, 42, 80	456 6-21		
	Tone	32063	34	Z	6	A63		W29097D	4/13	SR165				7	6D6, 6A7, 6B7, *76, 42, 80	450 6-22		
715 (Corsair)	Vol.	36060	15	O				W36055	4	WE4050				7	6J8G, 6U7G, 6P5G, 6F5G, 6V6G, 5Y3G, 6U5	455 9-46, 10-21, 22		
	Tone	36062	22	Z	6	A63		W36056	4/24	SR165				7	6J8G, 6U7G, 6P5G, 6F5G, 6V6G, 5Y3G, 6U5	455 9-46, 10-21, 22		
718	Vol.	45973	46	TM238-SS1	M26			W44012	23	RS216				7	6J8G, 6U7G, 6P5G, 6F5G, 6V6G, 5Y3G, 6U5	455 9-46, 10-21, 22		
								W46822	23	RS207	B12			7	6J8G, 6U7G, 6P5G, 6F5G, 6V6G, 5Y3G, 6U5	455 9-46, 10-21, 22		
								W45968	23	ST587				7	6J8G, 6U7G, 6P5G, 6F5G, 6V6G, 5Y3G, 6U5	455 9-46, 10-21, 22		

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	Use	CONTROLS						CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
		Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY—Continued																		
719.....	Vol.	47858.....	45	MR53.....	M26			W47702.....	9	BB26.....					7	6A8GT, 6SK7GT, 6P5GT, 6SF5GT, 25L6GT, *25Z6.....	455	11-25,26
								W47892.....	9	FPD211.....								
725.....	Vol.	36066.....	15	O.....				W36056.....	1/24	SR615.....					7	6D6, 6A7, 6B7, *76, 42, 80.....	450	7-45
	Vol.	36539A.....	22	TM257-SS1.....			A4	W36055.....	1	WE4050.....								
	Tone	W47858.....	45	Z.....	6		A63											
729.....	Vol.			MR53.....	M26			W47702A.....	9	BB26.....					7	6A8GT, 6SK7, 6P5, 6SF5, 25L6, *25Z6.....	455	11-27-29
								W47892.....	9	FPD211.....								
739 (With Mech. P.B.).....	Vol.	48170.....	45	MR53.....	M26			47702.....	9	BB26.....					7	6A8GT, 6SK7, 6P5, 6SF5, 25L6, *25Z6.....	455	11-30
	Tone	48181B.....	21	MR48.....				47892.....	9	FPD211.....								
739 (Magnetune).....	Vol.	48170.....	45	MR53.....	M26			W47702.....	9	BB26.....					7	6K8, 6SK7, 6P5, 6SF5, 25L6, *25Z6.....	455	.....
	Tone	48181B.....	21	MR48.....				W47809.....	9/13	FPT357.....								
739 (Mech. P.B. and Loop).....	Vol.	48170.....	45	MR53.....	M26			49047.....	10	BB25.....					7	6A8GT, 6SK7, 6P5, 6SF5, 25L6, *25Z6.....	455	.....
	Tone	48181.....	21	MR48.....				49014.....	10/15	FPT319.....								
744, 745 (716).....	Vol.	37967.....	18	O.....				W36055.....	1	WE4050.....					7	6A8, 6C5, 6K7, 6H6, 6F5, 6N6, 5Z4MG.....	450	8-29
	Tone	37908.....	34	MR40.....	M26			W36057.....	1	WE4050.....								
759 (736).....	Vol.	37967.....	45	O.....				W36055.....	1	WE4050.....					7	6A8, *6K7, 6H6, 6C5, 6N6, 5Z4.....	450	8-33
	Tone	37908.....	34	MR40.....	M26			W36057.....	1	WE4050.....								
769 (726).....	Vol.	42501.....	20	TM257-SS1.....				W36057.....	1	WE4050.....					7	*6K7, 6A8, 6H6, 6F5, 6N6, 5Z4MG.....	450	8-31,33
								W41081.....	13	RS216.....								
804 (Jewel Box).....	Vol.	W5659.....	7	A10MP.....			RS244	W5684.....	3	MN277.....					8	*27, *71A, 80.....		1-15
	Vol.	W33378.....	17	O.....				W26194B.....	3	WE1250.....								
	Tone	W32063.....	149	Z.....	6		A63	W29097D.....	3	SR615.....					7	6A7, 6D6, 6F7, 6B7, *42, 80.....	456	6-25
815.....	Vol.	32062.....	45	O.....				W32258.....	14	RS213.....								
	Tone	36458.....	22	MR39.....	M24			W33990.....	24	RM262.....					8	*30, *34, 1C6, 19.....	450	7-47
816.....	Vol.	W41301.....	19	TM257-SS1.....				W36055.....	1	WE4050.....					7	6A8G, *6K7G, 6R7G, *6N6, 5Z4MG.....	450	7-49,50
	Tone	W37966.....	34	Z.....	6		A63	W41080.....	1	RS215.....								
								W41081.....	24	RS216.....								
								W41598.....	15	RS200.....								
817.....	Vol.	44081.....	18	MR53.....				W44054.....	23	WE4050.....					8	6A8G, *6K6G, *6U7G, 6Q7G, 5Y3G.....	456	9-44
	Tone	44024.....	44	MR40.....	M26			W36057.....	23	WE4050.....								
818.....	Vol.	44081.....	18	MR53.....				W36057.....	23	WE4050.....					8	6A8G, *6K6G, *6U7G, 6Q7G, 5Y3G.....	455	10-24-26
	Tone	44024B.....	44	MR40.....	M26			W44054.....	23	WE4050.....								
819 (25Z6 Rect.).....	Vol.	48242.....	18	†.....			A19	47809.....	9/13	FPT357.....					8	6K8, *6SK7, 6SQ7, *25L6, *25Z6.....	455	11-36-40
								47702.....	9	BB26.....								
819 (5Y3G Rect.).....	Vol.	48242.....	18	†.....			A19	47809.....	1/13	FPT357.....					8	6K8, *6SK7, 6SQ7, *25L6, *25Y3G.....	455	11-37-40
								46128.....	1	BB34.....								
828.....	Vol.	44773.....	18	TM238-SS1.....				W44054.....	23	WE4050.....					8	6J5G, 6J8G, 6U7G, 6Q7G, 6J5G, *6K6G, 5Y3G.....	455	10-27-29
	Tone	44024B.....	44	MR40.....	M26			W36057.....	23	RS208.....								
855.....	Vol.	36060.....	17	O.....				W36055.....	4	WE4050.....					8	*6K7, 6A8, *6H6, 6C5, 6F6, 5Z4.....	450	7-51
	Tone	36062.....	22	Z.....	6		A63	W36056.....	24	SR615.....								
865.....	Vol.	36066.....	17	O.....				W36055.....	4	WE4050.....					8	*6K7, 6A8, *6H6, 6C5, 6F6, 5Z4.....	450	7-53
	Tone	36539A.....	22	Z.....	6		A63	W36056.....	24	SR615.....								
915.....	Vol.	32062.....	18	O.....				W36055.....	35	WE4050.....					9	6D6, 6A7, 6B7, *76, *42, 5Z3.....	450	7-55
	Tone	32063.....	44	Z.....	6			W36057.....	35	WE4050.....								
								W36548.....	15	BB15.....								
916.....	Vol.	41417.....	93	DRP304.....				W36055.....	1	WE4050.....					8	*6K7, 6A8, 6R7, 6C5, *6N6, 5Z4MG.....	450	7-59
	Tone	37966.....	44	Z.....	6		A63	W36057.....	1	WE4050.....								
								W37778.....	15	TN111.....								
955.....	Vol.	37907.....	93	DRP304.....				W36055.....	1	WE4050.....					9	*6K7, *6C5, 6L7, 6Q7, *6F6, 5Z4.....	450	7-61
	Tone	37966.....	34	Z.....	6		A63	W36057.....	14	WE4050.....								
								W37778.....	15	TN111.....								
989 (926).....	Vol.	41301.....	20	TM257-SS1.....				W36055.....	1	WE4050.....					8	*6K7, 6A8, 6H6, 6C5, *6N6, 5Z4MG.....	450	8-35
								W41080.....	1	RS215.....								
								W41081.....	14	RS216.....								
								W41598.....	15	RS200.....								
1014 (Centurion).....	Vol.	W28552.....	17	UC504.....				W26194B.....	7	WE1250.....					10	*D6, 6A7, 6F7, *76, *42, 80.....	456	6-26
	Tone	W25591B.....	44	Z.....	6		A63	W34596.....	7/24	RM265.....								
1016.....	Vol.	41417.....	93	DRP304.....				W36055.....	1	WE4050.....					9	*6K7, *6C5, 6A8, 6R7, *6N6, 5Z4MG.....	450	7-63
	Tone	37966.....	44	Z.....	6		A63	W36057.....	1	WE4050.....								
								W37778.....	15	TN111.....								
1018.....	Vol.	44081.....	45	MR53.....				W44054.....	23	WE4050.....					10	*6K6G, 6A8G, *6U7G, *6C5G, 6K5G, 5Y3G.....	455	10-30-32
	Tone	44024B.....	44	MR40.....	M26			W36057B.....	23	WE4050.....								
1019.....	Vol.	48242.....	18	†.....			A19	47809.....	1/13	FPT357.....					8	6K8, *6SK7, 6SQ7, *25L6, *25Y3.....	455	11-37-40
								46128.....	1	BB34.....								
1026.....	Vol.	41417.....	93	DRP304.....				W36055.....	1	WE4050.....					9	*6K7, 6A8, *6C5, 6R7, *6N6, 5Z4.....	450	8-37
	Tone	37966.....	34	Z.....	6		A63	W36057.....	1/13	WE4050.....								
								W37778.....	15	TN111.....								
1055.....	Vol.	32062.....	18	O.....				W36055.....	30	WE4050.....					10	*6K7, 6A8, *6C5, *6F6, 6H6, 5Z4.....	450	7-67
	Tone	32063.....	44	Z.....	6		A63	W36057.....	30	WE4050.....								
								W36548.....	15	BB15.....								
1117.....	Vol.	44081.....	45	MR53.....				W44054.....	23	WE4050.....					11	6A8G, *6U7G, *6C5G, *6K6G, 5Y3G, 6C5G, 6K5G.....	455	9-48
	Tone	44024.....	44	MR40.....	M26			W36057.....	23	WE4050.....								
1118.....	Vol.	44702.....	20	TM238-SS1.....				W44054.....	23	WE4050.....					11	*6K6G, 6A8G, *6U7G, *6C5G, 6K5G, 5Y3G.....	455	10-33-36
	Tone	44024B.....	34	MR40.....	M26			W36057.....	23	WE4050.....								
								W41598.....	15	RS200.....								

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY — Continued																		
1127.....	Vol. Tone	44674..... 44024.....	15 34	TM238-SS1 MR40.....	M26			W44054..... W36057..... W41598.....	23 23 15	WE4050..... WE4050..... RS200.....					11	6A8G, 6U7G, 6C5G, 6K5G, 6K6G, 5Y3G, 6T5.....	455	9-51-54
1128.....	Vol. Tone	44702..... 44024B.....	20 34	TM238-SS1 MR40.....	M26			W44054..... W36057..... W41598.....	23 23 15	WE4050..... WE4050..... RS200.....					11	6K6G, 6A8G, 6U7G, 6C5G, 6K5G, 5Y3G.....	455	
1137.....	Vol. Tone	44702..... 44024.....	45 34	TM238-SS1 MR40.....	M26			W44054..... W36057..... W41598.....	23 23 15	WE4050..... WE4050..... RS200.....					11	6A8G, 6U7G, 6C5G, 6K5G, 6K6G, 5Y3G.....	455	9-55-57
1155.....	Vol. Tone	37907..... 37966.....	93 44	DRP304..... Z.....	6	A63		W36055..... W36057..... 37632.....	1 1 15	WE4050..... WE4050..... 2N512.....					11	6K7, 6L7, 6C5, 6I16, 6Q7, 6F6, 5Z4.....	450	7-69
1199 (1126).....	Vol.	41301.....	20	TM257-SS1				W36055..... W42386..... W41598.....	1 1/14 15	WE4050..... WE3035..... RS200.....					9	6K7, 6A8, 6J7, 6I16, 6R7, 6N6, 5Z4.....	450	8-41-44
1211 (1216).....	Vol.	41375.....	†	Order from Mfr.....				W36055..... W42386..... W37778.....	1 1/14 15	WE4050..... WE3035..... TN111.....					10	6K7, 6A8, 6J7, 6I16, 6R7, 6C5, 6N6, 5Z4.....	450	8-45-48
1217.....	Vol. Tone	44773..... 44704A.....	18 †	TM238-SS1 MR53.....	M26			W44672..... W44054..... W36057B.....	13 23 23	RS208..... WE4050..... WE4050.....					12	6U7G, 6A8G, 6K6G, 6Q7G, 5Y3G.....	455	10-37-40
1227.....	Vol. Tone	44773..... 44704A.....	18 †	TM238-SS1 MR53.....	M26			W44672..... W44054..... W41438A.....	13 23 23	RS208..... WE4050..... RS208.....					12	6U7G, 6A8G, 6K6G, 6Q7G, 5Y3G.....	455	10-37-40
1313 (1336).....	Vol.	41375B.....	†	Order from Mfr.....				W36055..... W36057..... W41598.....	1 1/14 15	WE4050..... WE4050..... RS200.....					11	6K7, 6A8, 6J7, 6I16, 6I17, 6C5, 6N6, 5Z4MG.....	450	8-49-52
1316.....	Vol. Fidelity	41375B..... 41300.....	93 †	Order from Mfr..... TM257-SS1		A67		W36055..... W36057..... W36057..... W37632.....	1 1 13 15	WE4050..... WE4050..... WE4050..... 2N512.....					12	6K7, 6A8, 6R7, 6J7, 6I16, 6C5, 6N6, 5Z4MG.....	450	7-73
1516.....	Vol.	41375.....	†	Order from Mfr.....				W36055..... W36057..... W41598.....	1 1/13 15	WE4050..... WE4050..... RS200.....					13	6K7, 6A8, 6J7, 6I16, 6R7, 6C5, 6N6, 5Z4.....	450	8-53-56
5515 (Fiver).....	Vol.	37343.....	6	G12	6	EX200		W36719.....	1	RM262					5	6D6, 76, 6B5, 80.....	450	6-11-12
5516.....	Vol.	37343.....	6	G12	6	EX200		W41080..... W41081..... W44012.....	1 1 23	RS215..... RS216..... RS216.....					5	6D6, 76, 6B5, 80.....	450	7-58
5517.....	Vol.	43449A.....	18	O.....	6			W43450..... 46398.....	23 1	RS216..... 2N506.....					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3G.....	455	9-17
5519.....	Vol.	48217.....	18	MR53	M26			W36055.....	1	WE4050.....					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5.....	455	11-41-42
5526.....	Vol. Tone	41027..... 41028.....	† 44	DRP304..... MR40.....	M26	A87		W36057..... 46398.....	1 1	WE4050..... 2N506.....					5	6A8G, 6K7G, 6J7G, 6N6G, 5Z4MG.....	450	7-15
5529.....	Vol.	48217.....	18	MR53	M26			46398.....	1	2N506.....					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5.....	455	11-41-42
5536.....	Vol.	41002.....	6	E7	6	2		W29804A.....	11	RM259.....	B68				5	6K7G, 6J7G, 25A6G, 25Z6G.....	450	7-19-20
5539.....	Vol.	46124.....	18	MR53	M26			47702..... 45783.....	25 25	BB26..... BB24.....					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5.....	455	
5548.....	Vol.	46057A.....	18	MR53	M27			W45968.....	13	ST587.....					5	1C7G, 1D5G, 1H6G, 1H4G, 1G5G.....	455	9-38
5549.....	Vol.	48694.....	18	Order from Mfr.....				46398..... 46128..... 48562..... 45783.....	1/24 24 † †	2N506..... BB34..... 11C2501..... BB24.....					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 117Z6GT.....	455	
5555.....	Vol.	37395.....	†	DRP304.....	6	A87		W36055..... W36057..... W36931..... 48122.....	1 1 15 12	WE4050..... WE4050..... BB12..... BB34.....					5	6A8, 6K7, 6J7, 6F6, 5Z4.....	450	7-25
5579.....	Vol.	48336.....	15	MR53	M27			48122.....	12	BB34.....					5	1B7G, 1P5G, 1N5G, 1H5G, 1Q5G.....	455	
5587.....	Vol.	43854A.....	18	Order from Mfr.....				W44868A..... 48122.....	23 24	RM262..... Buffer.....	B14	W45110.....	850	C3	5	6A8G, 6U7G, 6Q7G, 6K6G, 6X5G.....	455	10-9,10
5589.....	Vol. Tone	49336..... 49337.....	15 †	MR53..... MR48.....	M27			48122.....	24	BB34.....					5	1B7G, 1P5G, 1N5G, 1H5G, 1Q5G.....	455	
5597.....	Vol.	44920A.....	18	MR53	M26			44935.....	4	RS207.....					5	6A8, 6K7, 6Q7, 25A6, 25Z6.....	455	10-13,14
5628.....	Vol.	45864.....	46	MR53	M26			W44012..... W45968.....	23 23	RS216..... ST587.....					6	6A8G, 6U7G, 6P5G, 6F5G, 6K6G, 2W3.....	455	10-17
5648.....	Vol.	W46847.....	18	MR53	M26			W46398..... W49222..... W45783.....	1 1 1	2N506..... 2N513..... BB24.....					5	6A8GT, 6U7G, 6Q7G, 25L6G, 25Z6G, W46773.....	455	11-21,22
6516.....	Vol.	37343.....	6	G12	6	EX200		W41080..... W41081.....	1 1	RS215..... RS216.....					5	6D6, 76, 6B5, 80.....	450	7-58
6518 (Foreign).....	Vol.	W46314.....	18	MR53	M26			W44012..... W46822..... W45968.....	23 23 23	RS216..... RS207..... ST587.....					5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3G.....	455	11-9,10
6519.....	Vol.	46124.....	18	MR53	M26			46389.....	1	2N506.....					5	12A8GT, 12SK7, 12SQ7, 50L6, 35Z5.....	455	11-41-42
6579.....	Vol.	48328.....	17	MR53	M27			48122.....	12	BB34.....					5	1B7G, 1P5G, 1N5G, 1H5G, 1Q5G.....	455	
6615.....	Vol. Tone	36060..... 36062.....	17 34	O..... Z.....	6	A63		W36057..... W34896..... 001.....	1 1/24 1	WE4050..... RM257..... Buffer.....	B80 B14	W37216.....	246	C3	6	15, 6A7, 6B7, 31, 38.....	450	7-75

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
CROSLEY—Continued	Vol. Tone	37907	1	DRP304	M26			W36055	1	WE4050				6	6A7, 6D6, 6C6, 76, 6B5, 80.	450	7-77,78	
		37908	34	MR40				W36057	1	WE4050								
6669	Vol. Tone	48019	18	DRP304				W40325	13	RS208				6	6K8GT, 6K7GT, 6SQ7GT, 6P5GT, 6AC5GT, 2W3GT.	455		
		48020B	57	MR48				W37778	15	TN111								
6679	Vol. Tone	48019	18	DRP304			A19	49171	46	FPT389				6	6K8GT, 6K7GT, 6SQ7GT, 6P5GT, 6AC5GT, 2W3GT.	455		
		48020B	57	MR48				49171	46	FPT389								
7669	Vol. Tone	48019	18	DRP304			A19	49171	46	FPT389				6	6K8GT, 6K7GT, 6SQ7GT, 6P5GT, 6AC5GT, 2W3GT.	455		
		48020B	57	MR48				49171	46	FPT389								
7739 (Mech. P.B.)	Vol. Tone	48019	18	UM154			A19	W48122	9	BB34				7	6A8GT, 6SK7, 6P5, 6SF5, 25L6, 25Z5.	455	11-31-34	
		48020	57	UM154				W47702	9	BB26								
7739 (Magnetune)	Vol. Tone	48019	18	DRP304			A19	W47892	9	FPT211				7	6K8, 6SK7, 6P5, 6SF5, 25L6, 25Z5.	455		
		48020B	57	MR48				W47702	9	BB26								
7739 (Mech P.B. and Loop)	Vol. Tone	49338	45	DRP304			A19	49047	10	BB25				7	6A8GT, 6SK7, 6P5, 6SF5, 25L6, 25Z5.	455		
		49337	45	MR48				49014	10/15	FPT319								
								46128	10	BB34								
CROYDON—See Airking.																		
DELCO																		
HA-B, RB-B	Vol. Tone	1203490	9	Y50MP	6										7	32, 30, 31.		3-1
		1203455	41	O														
HA3, RB3	Vol. Tone	1204176	7	K	6										6	36, 38.		3-3
		1204748	22	L														
RB1, RC1	Vol. Tone	1204176	6	K	6			4-4	7	See Note.	B3			7	24, 27, 35, 47, 80.	175	3-4	
		1204748	22	L				8	7	See Note.	B3							
A1, B1	Vol. Tone	1204748	22	L				8, 8	1	RS213.				9	58, 57, 56, 55, 47, 80.			
	Sen.		7	F														
			7	F														
A3, B3	Vol. Tone		45	N				2	1	See Note.	B11			7	39, 36, 37, 38.	175		
			149	N														
66	Vol. Tone	10003	17	M	6			9979	4	CM172			220B	C3	6	6E7, 6A7S, 6C7, 89, 6Y5.	175	8-1
		10004	22	K12				10067	15	BB12								
								.008-.008		Buffer	B14							
626	Vol. Tone	1209330	18	UC512				1209285	22/15	3S579		5039661	273C	5	6D6, 6A7, 6B7, 42.	262	6-1,4	
		1209628	21	MR48				4	15	BB12								
627	Vol. Tone	1209296	15	UM162-SS12				1209285	22/15	3S579		5039661	273C	5	6D6, 6A7, 6B7, 6P6.	262	7-4,6	
628	Vol. Tone	1209296	18	UM162-SS12				1209283	1	RS215		5039661	273C	6	6D6, 6A7, 85, 6A6.	262	7-7,9	
		1209320	44	L				1209284	1/15	RS213/TN111								
629 (Below No. 40100)	Vol. Tone	1209296	18	UM162-SS12				1209285	1/15	3S579		5039661	273C	4	6F7, 6B7, 6D6, 42.	450	8-17,18	
629 (Above No. 40100)	Vol. Tone	1209296	18	UM162-SS12				1209285	1/15	3S579		5039661	273C	4	6F7, 6A7, 6B7, 42.	262	8-19,21	
630 (500)	Vol. Tone	1209809	62	UM161-SS12				1209806	4	CM172		5040000	294	C3	5	6A7, 6B7, 6D6, 42, 84.	262	7-10,12
								.01		Buffer	B14							
631	Vol. Tone	1210214	73	UM162-SS12				1210556	1	CM172		5040000	294	C3	5	6A7, 6B7, 6D6, 6B5, 84.	262	8-3,4
								.005		Buffer	B14							
631A	Vol. Tone	1211253	73	UM150-SS12				1211247	4	SR638		5040000	294	C3	6	6D6, 6A7, 6B7, 42, 84.	262	8-5,6
								.005		Buffer	B14							
632	Vol. Tone	1210214	126	UM162-SS12				1210215	1	2N518		5040000	294	C3	6	6D6, 6A7, 6B7, 6B5, 84.	262	8-7,8
		1210225	21	MR53				.005		Buffer	B14							
633	Vol. Tone	1210214	126	UM162-SS12				1210215	1	2N518		5040000	294	C3	6	6D6, 6A7, 6B7, 6B5, 84.	262	8-9,10
		1210249	21	MR53				.005		Buffer	B14							
634	Vol. Tone	1210932	15	UM162-SS12				1210926	1/15	3S581		5041245	273C	6	6D6, 6A7, 85, 41.	262	8-11,12	
		1210928	21	MR44				1209324	15	BB12								
635	Vol. Tone	1210933	20	TM242-SS12				1210926	1/15	3S581		5041245	273C	6	6D6, 6A7, 85, 41.	262	8-13,14	
R640	Vol. Tone	7231170	18	UM150-SS12				7230164	4	RM262		5050673	852	C3	6	6K7G, 6A8G, 6Q7G, 6P6G, 6X5G.	262	9-1,4
								.005		Buffer	B14							
R641	Vol. Tone	7231170	18	UM150-SS12				7231521	4	2S567		5050673	852	C3	6	6K7G, 6A8G, 6Q7G, 6P6G, 6X5G.	262	9-5,6
								.005		Buffer	B14							
R642	Vol. Tone	1212036	18	TM224-SS12				1212038	4	RM262		5050673	852	C3	6	6K7, 6J7, 6Q7, 6P6, 6X5.	262	9-2,4
								1212044	15	BB12								
								.008		Buffer	B14							
R643	Vol. Tone	7231170	18	UM150-SS12				7231521	4	2S567		5050673	852	C3	6	6K7G, 6A8G, 6Q7G, 6V6G, 6X5G.	262	9-7,8
								.005		Buffer	B14							
R644	Vol. Tone	7231556	20	TM241-SS3				7231605	1	2S563		5050673	852	C3	8	6K7G, 6A8G, 6R7G, 6V6G, 0Z4.	262	9-9,10
								.005		Buffer	B14							
R663	Vol. Tone	7234557	18	MR44	M26			7234667	74	2S567		5050673	852	C3	6	6K7G, 6A8G, 6Q7G, 6K6G, 6X5G.	262	10-1,2
								.015		Buffer	B14							
R664	Vol. Tone	7234118	18	UM150-SS12				7234117	74/13	3S584		5050673	852	C3	6	6K7G, 6A8G, 6Q7G, 6P6G, 6X5G.	262	10-3,5
								.005		Buffer	B14							
R665	Vol. Tone	7234180	18	TM223-SS12				7234179	74/13	3S584		5050673	852	C3	6	6K7G, 6A8G, 6Q7G, 6P6G, 6X5G.	262	10-5,6
								.01-.01		Buffer	B14							
R666, R667	Vol. Tone	7234180	18	TM223-SS12				7234679	74/13	3S584		5050673	852	C3	6	6K7G, 6A8G, 6Q7G, 6V6G, 0Z4G.	262	10-7,10
								.01-.01		Buffer	B14							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DELCO—Continued R668, R669	Vol.	7234620	18	TM224-SS12				7234619 7234635	40 14	2S563 BB31		5050673	852	C3	7	6K7G, 6A8G, 6R7G, 6J5G, 6N7G, 0Z4G	262	10-11,12
R673	Vol.	7234620	18	TM224-SS12				.01-.01 7234619 7234886		Buffer 2S563 BB31	B14	5050673	852	C3	7	6K7G, 6J8G, 6H7G, 6J5G, 6N7G, 0Z4G	262.5	10-13-15
R675	Vol.	7237746	18	Order from Mfr.				.01-.01 7237818 .015-.015	74	FPS112 Buffer	B14	7237663	860	C3	5	6SA7, 6SK7, 6SQ7, 6K6G, 0Z4G	455	12-1-4
R676	Vol.	7234118	18	UM150-SS12				7237541 .0075	74	2S568 Buffer	B14	7237663	860	C3	6	6K7, 6A8G, 6Q7G, 6K6G, 6X5G	262	12-5-6
R677	Vol. & Tone	7237802	18/21	Order from Mfr.				7237818 7237819 .015-.015	74 14	FPS142 BB40 Buffer	B14	7237663	860	C3	6	6SK7, 6AS7, 6SQ7, 6V6G, 0Z4G	455	12-7-8
R678	Vol. & Tone	7237802	76	Order from Mfr.				7237820 7233092 .01-.01	74 74/14	BB62 2N518 Buffer	B14	7237663	860	C3	6	6SK7, 6SA7, 6SQ7, 6V6G, 0Z4G	455	12-10-12
R685	Vol.	7237971	18	UM147-SS2	M26			10, 10 .015-.015	74	FPS142 Buffer	B14	7238829	868	C3	5	6SA7, 6SK7, 6SQ7, 6K6G, 0Z4	455	12-13-15
R686	Vol.	7234118	18	UM150-SS12				7239831 .0075	24	2N518 Buffer	B14	7238829	868	C3	6	6SK7, 6SA7, 6SQ7, 6K6G, 6X5G	262	12-16,17
R687	Vol. & Tone	7239770	106	Order from Mfr.				10-10-20 4. .01-.01	24/15 13	FPT332 BB20 Buffer	B14	7238829	868	C3	6	6SK7, 6SA7, 6SQ7, 6V6G, 0Z4	455	12-18-20
R688	Vol.	7239816	106	SMD512				8-8 10 .01-.01	74/13 74	2N518 BB62 Buffer	B14	7238829	868	C3	6	6SK7, 6SA7, 6SQ7, 6V6G, 0Z4	455	12-21-23
R695	Vol.	7234118	18	UM150-SS12				.01-.01 7239831 .0075	24	2N518 Buffer	B14	7238829	868	C3	6	6SK7, 6SA7, 6SQ7, 6K6G, 6X5G	455	12-23,24
R696	Vol.	7234118	18	UM150-SS12				7239831 .0075	24	2N518 Buffer	B14	7238829	868	C3	6	6SK7, 6SA7, 6SQ7, 6K6G, 6X5G	260	12-27-29
R697	Vol.	7239770	106	Order from Mfr.				7238830 7237819 .01-.01	24/15 13	FPT332 BB40 Buffer	B14	7238829	868	C3	6	6SK7, 6SA7, 6SQ7, 6V6G, 0Z4	455	12-29-32
1101	Vol.	1208812	56	MR48	M26			1208786	11/15	FPO415	B117				5	6E7, 78, 6B7, 43, 25Z5	181.5	6-5-6
1102, 1103	Vol. & Tone	1208928 1208872	15 22	O Z				1208317 1208316	4 4/14	RS215 3S584					6	6D6, 6A7, 6B7, 76, 42, 80	456	6-7,10
1104	Vol. & Tone	1208928 1208872	45 34	O Z				1208317 1208316	4 4/14	RS215 3S584					7	6D6, 6A7, 6B7, 6F7, 42, 80	456	6-11,12
1105	Vol.	1210411	6	E12	6	EX200		8-6	1	SR642					5	6D6, 76, 6B5, 80	450	7-13,15
1106	Vol. & Tone	1210410 1210411	18 22	MR48 SRP263	M26			12 16	25 25	RS215 RS216					5	6D6, 6A7, 75, 42, 80	465	7-16,18
1107	Vol.	1210304A	15	O	6			8-8-8	4/14	3S584					6	6D6, 6A7, 76, 42, 80	450	7-19,21
1108	Vol.	1210617	18	TRP604	6			12 18 10 12	4 4 13 15	RS215 RS216 RS205 BB12					6	6D6, 6A7, 75, 42, 80, or 6A7, 6K7, 75, 6F6, 80	465/490	7-22,24
1109	Vol.	1210567	20	TM234-SS1				12, 12 18 10 12	46 46 13 15	RS215 RS216 RS205 BB12					8	6D6, 6A7, 6C5, 6F6, 80	455	7-25,27
1110	Vol.		15	TM234-SS1				12, 12 18 12, 12	31 31 15	RS215 RS216 BB12					10	6D6, 6A7, 6K7, 6C5, 6F6, 445, 5Z3, 6F5	455	7-28,30
R1115 (Below 100,000)	Vol.		7	E	6	3		4-8 10	1 15	2N518 BB12					5	6A7, 6D6, 76, 41, 80	465	9-11-14
R1115 (Above 100,000)	Vol.	1211864	6	Y25MP	6			8 8	25 25	RS213 RS213					5	6K7G, 6C5G, 6F6G, 6X5G	456	9-11,13
R1116	Vol. & Tone	1211396 1211398	45 57	TRP623 N	6			16 16	25 25	RS216 RS216					6	6A8G, 6K7G, 6I16, 6F5G, 6F6, 5Z4	456	9-15,16
R1117	Vol. & Tone	1211396 1211398	45 57	TRP623 N	6			16 16	25 25	RS216 RS216					7	6A8G, 6K7G, 6I16, 6F5G, 6F6, 6G5, 5Z4	456	9-15,16
R1118	Vol. & Tone	1211396 1211398	45 41	TRP623 N	6			16, 16 8 10 12, 12	25 13 19 15	RS216 RS213 BB13 BB12					10	6K7, 6A8, 6I16, 6C5, 6C5, 6F6, 5V4G	456	9-17,18
R1119	Vol.	1211397	15	TRP608	6			16, 16 4 8 10	54 54 13 19	RS216 BB60 RS213 BB13					12	6K7, 6A8, 6I16, 6J7, 6C5, 6G5, 6L6, 5V4G	456	9-19,20
R1120	Vol.	1210410	18	MR48	M26			4-8 10	1 15	2N518 BB13					5	6A8G, 6K7G, 6Q7G, 6K6G, 5Y4G	465	9-21,22
R1125	Vol.	1212174	18	MR53	M26			5-5	23	2S567					5	6A7, 78, 75, 41, 80	465	9-23
R1126	Vol.	1212115	17	MR48	M26			8-8	1	2N518					6	6A7, 6D6, 75, 41, 6G5, 80	465	9-24

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
DELCO—Continued R1127	Vol.	1212241	18	MR53	M26			30 8-8	25 25	WE3050 2N518					6	6A8G, 6U7G, 6Q7G, 6K6G, 6U5, 5W4G	465	9-25,26
R1128, R1129	Vol.		18	MR53	M26			10 8, 8	19 23	BB13 RS213					7	6L7G, 6C5G, 6K7G, 6Q7G, 6G5, 5F5G, 5Y3G	465	9-27,28
R1130	Vol.	1212362	45	TM227-SS1	M26			30 8	25 25	WE3050 RS213					8	6L7G, 6K7, 6H6, 6F5, 6C5G, 6U5, 6V6G, 5W4G	465	9-29,30
R1131	Vol.	1212522	20	TM240-SS1	M26			30 16	25 25	WE3050 RS216					9	*6K7, 6L7, 6C5, 6H6, 6F5, 6L6, 6U5, 5Y3G	465	9-31,32
R1132	Vol.	1212642	20	TM240-SS1				30 8	30 30	WE3050 RS213					12	*6K7, 6L7, 6J7, *6C5, 6H6, *6V6, 6U5, 5U4G	465	9-33,38
R1134, R1135	Vol.	1213157	18	MK402	M26			10-10 4, 4 30-30-40	15 13 1/19	BB12 TN111 CS131 3N534					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G, L49B	465	10-16
R1139	Vol.	1213157	18	MK402	M26			30-30-40	1/19	3N534					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G, L49B	465	10-16
R1140	Vol. Tone	1213131	18	MK402	M26			16, 16	4	BB64					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	10-18,19
R1141	Vol. Tone	1213102	18	MK402	M26			12-8	4	2S568					6	6K8G, 6K7, 6Q7G, 6A8G, 6K6G, 5Y3G	465	10-20,22
R1142	Vol. Tone	1213100	18	TM236-SS25 MK402	M26†			12-8	4	2S568					7	6K8G, 6K7, 6Q7G, 6A8G, 6U5, 6F6G, 5Y3G	465	10-22-24
R1143	Vol. Tone	1213075	18	TM236-SS25 MK400				12 8	4 4	BB63 BB61					7	6K8G, 6K7, 6Q7G, 6A8G, 6U5, 6F6G, 5Y3G	465	10-25,26
R1144	Vol. Tone	1213025	124	TM236-SS25 MK400				10-10 12	1 13	2S568 BB41					10	*6K7, 6K8, 6Q7G, *6J5G, *6K6G, 6U5, 5Y3G	465	10-27,29
R1145	Vol.	1213540	18	MK402				12, 12	1	BB63					6	6K8G, 6SK7, 6Q7G, 6P5G, 6AC5G, 5Y3G	465	10-29-32
R1150	Vol.	1214076	18	UM154-SS22	M26†			40-20	24	FPT221					5	12SA7, 12SK7, 12Q7GT, 35L6GT, 35Z5GT	465	11-1-3
R1153	Vol.	1214098	18	UM161-SS22	M26			40-20	24	FPT221					5	12SA7, 12SK7, 12Q7GT, 35L6GT, 35Z5GT	465	11-5-6
R1154, R1155	Vol.	1214054	18	UM161-SS22	M26			40-20-20	46	FPT357					6	*12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	465	11-7,8
R1156	Vol.	1214031	18	MK402	M26			40-20-20	46	FPT357					6	*12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	465	11-9-11
R1157	Vol. Tone	1213989	18	UM161-SS22	M26			20-15-5	1/19	FPT333	B107				6	*6SK7, 6SA7, 6SQ7, 6K6G, 5Y3G	465	11-15,16
R1160	Vol. Tone	1213540	45	Order from Mfr. MK402				1214207	1/16	2S569/BB19					9	*6SK7, 6K8, *6, 6SF5, *6F6G, 5Y3G	465	11-13,14
R1170	Vol.	1214212	22	Order from Mfr.				1214626	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-33,34
R1171, R1172, R1173	Vol.	1214582	18	MR48	M26†	A106		1214627	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-35,36
R1174	Vol.	1214608	18	MR48	M26†	A106		1214627	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-36,38
R1175	Vol.	1214608	18	MR48	M26†	A106		1214758	77	2N515					6	*12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-39,40
R1176	Vol.	1214632	18	MR44	M26			1214628	77	2N515					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-41,42
R1177	Vol.	1214654	124	TM249-SS1	M26			1214657	1/15	FPT332					6	*6SK7, 6SA7, 6SQ7, 6F6G, 5Y3G	455	12-43,44
R1178	Vol.	1214667	18	TM220-SS1	M26			1214676	1/15	FPT332					6	*6SK7, 6SA7, 6SQ7, 6K6GT, 5Y3G	455	12-45-48
R1179	Vol.	1214689	124	TM249-SS1	M26	A59		1214676	1/15	FPT332					9	*6SK7, 6SA7, 6H6, *6SF5, *6F6G, 5Y3G	455	12-49-51
R1180	Vol.	1214689	124	TM249-SS1	M26	A59		1214696	1/13,15	FPT429					12	*6SK7, 6SA7, 6H6, *6SF5, *6K6GT, 6U5, 5U4G	455	12-52-54
R1181	Vol.	1214632	18	MR44	M26			1214628	77	2N515					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-41,42
R1185	Vol.	1214712	18	MR48		A106		1214628	77	2N515					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-55,56
R1186, R1188	Vol.	1214654	20	TM249-SS1	M26			1214741	1/19	FPT382					7	6SA7, 6SK7, 6SQ7, 6SF5, *6K6GT, 5Y3G	455	12-57-59
R1400	Vol.	1213613	18	MK402	M27			25	19	BB15					4	1A7G, 1N5G, 1H5G, 1C5G	465	11-17,18

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DELCO—Continued																		
R1401, R1402	Vol.	1213615	18	UM161-SS22	M27			10	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	465	11-19,20
R1405	Vol.		18	UM161			A96	20-20-200	76	FPT304					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 3Z5GT	455	12-62,63
2017, 2018	Vol.	1202259	25	DRP309				1202264	4	RS215					6	24A, 45, 80	262	3-1,2
2035 (Revised)	Tone	1202261	22	G12			A45	1201400	4	RS213					6	36, 39, 85, 89	262	3-1,2
	Vol.	1207607	17	UC512	7			1207584	1	2N518		1207849	221	C3				
	Tone	1207601	44	K12				1207616	15	BB11								
								.015		Buffer	B14							
R2050	Vol.	1210424	18	MR48											4	1C6, 34, 1F6, 33, 5E1	465	9-39,40
R2055	Vol.	1210424	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	9-40,42
3002	Vol.		26	UC513	6										5	24, 27, 12A		1-1
3026	Vol.		48												8	36, 37, 47	175	4-1-8
3201, 3202 (Below 800,000)	Vol.	1208998	17	N	6										6	6D6, 6A7, 85, 48	262.5	6-13,14
3201, 3202 (Above 800,000)	Vol.	1208998	17	N	6										6	6D6, 6A7, 85, 48	456	6-15,16
3203, 3204	Vol.	1208928	15	N				1208892	1	RS205/BB13		1208920	F247	C3	6	6D6, 6A7, 6B7, 6F7, 343	456	6-17,19
	Tone	1208872	44	Z	6T			1208891	1/14	3S584/BB12					6	6D6, 6A7, 85, 48	450	7-31,33
								1208890	14	RS203	B14							
								.01		Buffer					6	6D6, 6A7, 85, 48	450	7-34,36
3205	Vol.	1210271	17	UC504	6										9	6D6, 6A7, 85, 76, 48	450	7-34,36
Sen.		1210272	6	E7														
	Vol.	1210308	18	O														
3206, 3207	Tone	1210309	34	Z	6										9	6D6, 6A7, 85, 76, 48	450	7-34,36
Sen.			2	G12														
	Vol.		18	O														
R3208, R3209	Tone		34	Z	6										9	6D6, 6A7, 85, 76, 48	450	9-43,44
Sen.			1	G12														
	Vol.	1212129	17	UM154-SS16												6	6D6, 6A7, 75, 76, 48	465	9-14
R3210	Tone	1211374	22	MR33	M26										6	6D6, 6A7, 75, 76, 48	465	9-45-47
R3212	Vol.	1212151	17	UM154-SS16											9	6D6, 6A7, 75, 76, 48	465	9-45-47
Tone		1212152	44	MR33														
	Vol.	1213408	124	UM154-SS22														
R3215	Tone	1213407	22	UM133-SS22	M26										6	6K8, 6K7, 6Q7G, 6C5G, 325L6G	455	10-33,34
4037	Vol.	1207994	17	N	6			1207995	1/15	CM162/TN111		5035120	222		5	78, 6F7, 75, 41	262	4-5,6
	Vol.	1208157	17	UC512	6										6	78, 6F7, 85, 441	262	4-7,8
4038	Vol.	1208157	17	UC512	6			1208241	1	CM172		5035120	222		6	78, 6F7, 85, 441	262	4-7,8
	Tone	1207948	44	N														
4048	Vol.	1207932	6	Y				4-12-4	11	UR182	B31				5	6F7, 78, 75, 43, 25Z5	455	4-9
	Vol.	1208126	15	UC504	6			W29978	1	BB33			F223	C3	6	78, 6B7, 37, 75, 43	181.5	4-10
4049, 4050	Tone	1208127	22	Z	6			8-8-8	24/15	3S579								
								12-2-5		Order from Mfr.	B14							
								.01		Buffer								
4051 (32 volt)	Vol.	1208297	6	E7	6	2		12	1	BB63			F223	C3	5	78, 77, 43	181.5	7-37
								8	1	BB61								
								6	15	BB12								
								12-2-5		Order from Mfr.								
4052 (AC-DC)	Vol.	1208350	17	UC504	6		A58	8-25-16	11	UR182	B31				5	6A7, 78, 6B7, 43, 25Z5	456	7-38
4053, 4053A	Vol.	1208126	15	UC504				6	15	BB12					10	56, 58, 22A5, 80	181.5	
	Tone	1208127	44	Z	6			W23705A	3	RS215								
4054	Vol.	1208755	17	N	6			W29097A	3/14	SR615								
	Vol.	1210423	18	MR48	M27			8-20	1	UR193		5041125	245A	C3	4	6A7, 6D6, 85, 48	262	5-1,2
6010	Vol.	1210423	18	MR48	M27			5	15	BB11					4	1C6, 34, 1B3, 38	450	7-39,41
	Tone	1210424	57	MR48				.03		Buffer	B14							
R6011	Vol.	1210424	45	MR48				8-8	15	2N518		5050651	245A	C3	6	6A7, 715, 776, 19	465	9-48,50
	Tone	1211374	22	MR33	M26			10	1	BB12								
R6012	Vol.	1211351	45	TM234-SS16				.01		Buffer	B14							
	Tone	1211350	44	MR33	M26			8-8	1	2N518		5050651	245A	C3	7	715, 6A7, 776, 19	465	9-51,53
R6015	Vol.	1212129	17	UM154-SS16				5	15	BB11								
	Tone	1211374	22	MR33	M26			.01		Buffer	B14							
								8-8	1	2N518		5050651	245A	C3	6	6D8G, 68S7G, 6L5G, 19	465	9-55,56
								10	15	BB12								
								.03		Buffer	B14							
DETROLA																		
4 Tube TRF '32	Vol.		6	Y				941	1	2S567	B33				1	35, 24, 47, 80		5-1
"Road Chief"	Vol.		6	G12			A1	10	15	BB12					5	39, 36, 37, 41		5-3
"Road Master"	Vol.		56	N				10	15	BB12					5	36, 39, 85, 41	175	5-2
"Warwick"	Vol.		15	L	6			8-4	4	See Note	B3				5	57, 58, 55, 47, 80	175	6-1
4C	Tone		21	N				10	17	BB12								
	Vol.		6	G12				EX250	11	UR193					4	77, 78, 43, 25Z5		6-1
4D	Vol.		6	G12				EX250	1	2N518					4	78, 77, 42, 80		5-1
								10	15	BB12								
4F	Vol.		6	G12	6			EX250	11	UR182	B31				4	77, 78, 43, 25Z5		6-2
4H	Vol.		6	G12	6			EX250	40	2S560					4	36, 37, 38, 39		6-1
4J	Vol.		6	G12	6			EX250	1	2N518					1	77, 78, 42, 80		6-2
								10	15	BB12								
4W	Vol.		6	G12	6			EX250	11	UR182	B31				4	6D6, 6C6, 43, 25Z5		6-2
4Y	Vol.		6	K12	6			EX250	11	UR182	B31				4	6D6, 6C6, 43, 25Z5		6-2

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
DETROLA—Continued																		
5B.....	Vol. Tone	1084. 1083.	17 22	O. M.				1398. 578.	1 15	2N518. 6B12.				5	6A7, 78, 75, 42, 80...	370	6-3	
5D.....	Vol. Tone	919. 921.	17 22	O. M.	6			1014. 595.	1 19	RM262. 6B12.				5	78, 6F7, 75, 42, 80...	455	6-5,6	
5L.....	Vol.		6	G12	6	EX250		1460. 16-8.	11 11	UR182. 2S563.	B31			5	77, 76, 78, 43, 25Z5		6-2	
5T (Super Midget)...	Vol.		6	K12				1624. 10.	1 14	CM172. 6B12.				5	78, 44, 77, 43, 25Z5	459	5-3	
5W.....	Vol. Tone	1572. 1573.	17 34	O. M.	6			1624. 4-20-8.	1 11	CM172. UR182.				5	6A7, 78, 75, 43, 25Z5	370	7-9	
5WG.....	Vol.		18	MR53				1624. 578.	1 14	CM172. 6B12.				5	6A7, 78, 75, 42, 80...	370	6-8	
5X.....	Vol. Tone	1572. 1573.	17 34	O. M.	6			1460. 8-8.	11 1	UR182. See Note.	B31 B3		220B	5	61D6, 76, 43, 25Z5		6-1	
5Y.....	Vol.		6	SRP263		See Note	te A14	8-8.	1	See Note.				5	78, 6F7, 75, 42, 84...	262	6-10	
6A.....	Vol.		17	UC512		See Note	te A25	10. .02.	15	6B12. Buffer.	B31 B14			6	6D6, 6A7, 75, 42, 84...		6-11	
6M, 6R.....	Vol. Tone	1881.	17 22	UC512. L.		See Note	te A25	1882. 5-5.	1 15	2S563. TN111	B14	1238.	294	6	6D6, 6A7, 75, 42, 84...	262	6-11	
6W.....	Vol. Tone	1572. 1573.	17 34	O. M.	6			.0075. 1624A.	1	Buffer. CM172.	B14			6	6A7, 78, 75, 42, 80...	370	6-13	
6X.....	Vol. Tone	1675. 1676.	17 31	O. M.	6			578. 1678.	14 1/15	6B12. UR189.				6	6A7, 78, 75, 43, 25Z5	370	6-14	
6ZM.....	Vol. Tone	..... .....	17 34	O. L.				8-8. 10.	1 15/19	2N518. 6B13.				6	6K7, 6A8G, 75, 6F6G, 5Y3.	370	7-2
7A.....	Vol. Tone	1081. 1083.	17 22	O. M.	6			1014. 1085.	28 28	RM262. RS213.				7	78, 37, 75, 42, 80...	262	6-15,16	
7ZM.....	Vol. Tone	..... .....	15 34	O. L.				8-8. 10.	1 15/19	2N518. 6B13.				7	6K7, 6A8, 6116, 6F5, 6F6, 5Y3.	370	7-3
10ZM.....	Vol. Tone	..... .....	15 44	O. L.				12-12. 10.	1 15/19	2S568. 6B13.				10	6K7, 6A8, 6116, 6F5, 6C5, 6F6, 5Y3.	456	7-4
14-112S.....	Vol. Tone	3038. 3031.	18 22	UM157-SS3 MR36.				2994. 578.	1 15	2-CS133. 6B12.	B85 B14	3000.	294	6	78, 6A7, 75, 42, 84...	262		
14-127ES.....	Vol. Tone	3035. 2726.	7 18	C1MP. N.				.0075. 3375.	15 23	Buffer. RS216.	B14			8	6A7, 6D6, 75, 76, 742, 6G5, 80.	456		
14-129.....	Vol. Tone	2737. 3118.	147 18	MR55. N.	7			3351. 3575.	23 1	WE1830. CS133.		3421.	245	7	6D8G, 6S7G, 6T7G, 333, 11H1G, 6L5G.	456		
14-136EA.....	Vol.		18	MR48				3574. .01.	13	2S563. Buffer.	B14			6	6A7, 6D6, 75, 6G5, 41, 1V.	456		
14-142ES.....	Vol. Tone	2726. 2737.	18 147	N. MR55.	6			8. 3375.	25 25	WE825. RS216.				7	78, 6A7, 6D6, 75, 6G5, 42, 80.	456		
14-152ES.....	Vol.		18	MR48				3351. 16.	25 25	WE850. RS216.				6	6A7, 6D6, 75, 6G5, 41, 1V.	456		
48.....	Vol.		6	G12	6	EX250		8. 781.	25 24	WE825. 2P542.				4	37, 38, 77, 78...		6-1	
100.....	Vol.	2602.	45	N.	6			2591. 2594.	23 23	BB24. RS207.				6	6A7, 6D6, 76, 6C6, 43, 25Z5.	456	7-6	
101, 101A.....	Vol.	2574.	6	H.	6			2591. 2594.	4 4	BB24. RS207.				4	6A7, 6F7, 43, 25Z5...	456	7-7	
102.....	Vol. Tone	2726. 2737.	18 147	N. MR55.	6			2732. 8.	29 29	2S560. 6B13.				7	6A7, 6D6, 76, 6C6, 43, 25Z5.	456	7-8	
103.....	Vol.	2699.	136	N.	7			2594. 2698.	4 12	RS207. RS216.				4	1C6, 1A4, 1A6, 950, 1B1.	480	7-9	
104.....	Vol.	2574.	7	H.	6			3229.	23	2P544.				4	6D6, 6C6, 43, 25Z5...		7-1	
106, 106E.....	Vol. Tone	3361.	18 147	N. P.	6			2767. 2766.	23 23	RS213. WE1835.				6	6A7, 6D6, 75, 41, 1V, 6G5.	456	7-10	
107.....	Vol. Tone	2726. 2737.	18 147	N. MR55.	6			3375. 3351.	23 23	RS216. WE850.				7	6A7, 6D6, 75, 76, 742, 80.	456		
108.....	Vol. Tone	3361. 2769.	18 147	N. P.	6			2767. 2766.	23 23	RS213. WE1835.				6	6D6, 6A7, 75, 41, 84...	456	7-10	
109.....	Vol.	2769.	18	MR48	M26			16. 8.	25 25	RS216. ST585.				5	6A7, 6D6, 75, 43, 1V.	456	7-11	
110.....	Vol. Tone	2726. 2737.	18 147	N. MR55.	6			2879.	25	RS216.				7	6A7, 6D6, 75, 76, 743, 25Z5.	456		
111.....	Vol. Tone	3038. 3031.	18 22	UM157-SS3 MR36.				2994. .0075.	1	2-CS133. Buffer.	B85 B14	3000.	294	6	78, 6A7, 75, 6B5, 0Z4	262	8-1	
112.....	Vol. Tone	3035. 3038.	7 18	C1MP. UM157-SS3				578. 2994.	15 1	6B12. 2-CS133.	B14 B85	3000.	294	6	78, 6A7, 75, 42, 84...	262		
114.....	Vol. Tone	3031. 2726.	22 18	MR36. N.				.0075. 2698.	15 71	Buffer. RS216.	B14			6	6A7, 6D6, 76, 6C6, 43, 25Z5.	456	7-12	
116.....	Vol.	2737.	147	MR55	6			2594. 16-24.	71 27	RS207. 2P553.				5	6A7, 6D6, 75, 43, 25Z5.	456	7-11	
116X.....	Vol.	2978.	18	N.	6			2591. 2594.	4 4	BB24. RS207.				5	6A7, 6D6, 75, 25B6G, 25Z5.	456		
117, 117B.....	Vol.	2699.	131	N.	7			2698.	12	RS216.				4	1C6, 1A4, 1B5, 1F4, 1B1.	480	8-2	
120.....	Vol.		7	H.	6			16. 8.	23 23	RS216. ST585.				4	6D6, 6C6, 43, 25Z5...		7-1	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DETROLA—Continued																		
121.....	Vol.	3067.....	7	H.....	6		2698.....	23	RS216.....					5	6D6, 6C6, 43, 25Z5.....		7-1	
125.....	Vol.	2726.....	18	N.....	6		2594.....	23	RS207.....					7	6A7, 6D6, 75, 76, 43, 25Z5.....	456		
127.....	Vol. Tone	2737.....	147	MR55.....	6		3285.....	3	RS216.....					7	6A7, 6D6, 75, 76, 42, 80.....	456		
130.....	Vol. Tone	2726.....	18	N.....	6		4234.....	3	CM172.....					7	6A7, 6D6, 75, 76, 42, 80.....	456		
130.....	Vol.	2737.....	147	MR55.....	6		3375.....	23	RS216.....					7	6A7, 6D6, 75, 76, 42, 80.....	456		
130.....	Vol.	3612.....	7	H.....	6		3351.....	23	WE850.....					4	6D6, 6C6, 43, 25Z5, BK55B.....		8-3	
134A, 134AZ, 134AB, 134X	Vol.		58	H.....	6		3229.....	23	2P544.....					4	6A7, 6C6, 43, 25Z5.....	456	8-3,4	
135, 135E.....	Vol.	2602.....	18	N.....	6		2698.....	23	RS216.....					6	6A7, 6D6, 75, 43, 25Z5, 6G5.....	456	8-4	
136, 136T.....	Vol.	3361.....	18	N.....	6		2594.....	23	RS207.....					5	6A7, 6D6, 75, 41, 1V.....	456	8-5	
137.....	Vol.	2767.....	18	N.....	6		3351.....	25	RS216.....					5	6A7, 6D6, 75, 41, 1V.....	456		
137.....	Vol.	2602.....	18	N.....	6		2698.....	23	RS216.....					5	6A7, 6D6, 75, 43, 25Z5.....	456	8-6	
139.....	Vol.	3361.....	18	N.....	6		2594.....	23	RS207.....					5	6A7, 6D6, 75, 41, 1V.....	456	8-7	
139.....	Vol. Tone	2767.....	147	P.....	6		2766.....	23	WE1835.....					5	6A7, 6D6, 75, 41, 1V.....	456		
140.....	Vol. Tone	2726.....	18	N.....	6		2698.....	71	RS216.....					6	6A7, 6D6, 76, 6C6, 43, 25Z5.....	456	8-8	
140.....	Vol. Tone	2737.....	147	MR55.....	6		2594.....	71	RS207.....					6	6A7, 6D6, 76, 6C6, 43, 25Z5.....	456	8-3	
141, 141A.....	Vol.	3400.....	6	H12.....	6		3397.....	24/15	UR189.....	B189				4	6D6, 6C6, 38, 76.....			
142.....	Vol. Tone	2726.....	18	N.....	6		16.....	25	WE1650.....					4	78, 6A7, 6D6, 75, 42, 80.....	456		
144, 144B, 144C.....	Vol. Tone	3418.....	147	MR55.....	7		8.....	25	WE825.....					5	6D8G, 6S7G, 6T7G, 80.....	456		
144, 144B, 144C.....	Vol. Tone	3571.....	147	P.....	7		3417.....	1	CS133.....		3421	245	C3	5	6D8G, 6S7G, 6T7G, 80.....	456	8-9	
145B, 145CR.....	Vol. Tone	3418.....	18	N.....	7		2594.....	13	RS207.....	B14				7	6D8G, 6S7G, 6T7G, 33, 11F4G, 6L5G.....	456	8-10	
145B, 145CR.....	Vol. Tone	3571.....	147	P.....	7		.015.....	1	Buffer.....	B14	3421	245	C3	7	6D8G, 6S7G, 6T7G, 33, 11F4G, 6L5G.....	456	8-10	
147, 147E, 147ECR	Vol. Tone	2726.....	18	N.....	6		8.....	13	ST585.....					7	6A7, 6D6, 75, 76, 42, 80.....	456	8-12	
148.....	Vol. Tone	2737.....	147	MR55.....	6		.01.....	13	ST587.....					7	6A7, 6D6, 75, 76, 42, 80.....	456	8-13	
148.....	Vol. Tone	3351.....	45	MR48.....	M26		3375.....	23	CS133.....	B14				7	6A7, 6D6, 75, 76, 42, 80.....	456	8-12	
148.....	Vol. Tone	3351.....	147	MR55.....	M26		3375.....	23	Buffer.....	B14				7	6A7, 6D6, 75, 76, 42, 80.....	456	8-13	
149, 149E.....	Vol.	3361.....	18	N.....	6		8-8.....	29	RS216.....					5	6A7, 6D6, 75, 41, 1V.....	456	8-5	
150.....	Vol. Tone	2726.....	18	N.....	6		8-8.....	29	WE850.....					7	6A7, 6D6, 75, 76, 43, 25Z5.....	456	8-14	
150.....	Vol. Tone	2737.....	147	MR55.....	6		8-8.....	29	RS216.....					7	6A7, 6D6, 75, 76, 43, 25Z5.....	456	8-14	
151.....	Vol.	3640.....	18	N.....	6		24.....	29	CM162.....					5	6A7, 6D6, 75, 43, 25Z5.....	456		
152.....	Vol.	3361.....	18	N.....	6		2767.....	25	ST585.....					5	6A7, 6D6, 75, 41, 1V.....	456		
153.....	Vol.	2574.....	7	H.....	6		3351.....	25	RS207.....					5	6A7, 6D6, 75, 41, 1V.....	456		
154E.....	Vol.	3361.....	18	N.....	6		3229.....	23	WE850.....					4	6D6, 6C6, 25B6G, 25Z5, BK55B.....			
155, 155X.....	Vol. Tone Sen.	3800.....	124	DTM298-SS1.....			3877.....	23	2N518.....					6	6A7, 6D6, 75, 6G5, 41, 84.....	456	8-15	
155, 155X.....	Vol. Tone Sen.	3799.....	147	UM181-SS1.....	M28		3111.....	72	HD683.....					11	6K7, 6A7, 6I16, 6G5, 6C5, 76, 42, 80.....	456	8-16	
155, 155X.....	Vol. Tone Sen.	3801.....	48	A2MP.....			3112.....	72	RS216.....					11	6K7, 6A7, 6I16, 6G5, 6C5, 76, 42, 80.....	456	8-16	
157A.....	Vol.		7	H.....			3113.....	72	WE1835.....					4	6D6, 6C6, 43, 25Z5.....		8-3	
159.....	Vol.	3040.....	18	N.....	6		3136.....	72	BB15.....					5	6A7, 6D6, 75, 43, 25Z5.....	456	8-19	
161.....	Vol.		7	MR22.....	M26		16-6.....	23	2P544.....					4	6C6, 6D6, 43, 25Z5.....		8-11	
162.....	Vol.	3067.....	7	H.....	6		3638.....	23	2S567.....					4	6D6, 6C6, 43, 25Z5.....		8-11	
163.....	Vol. Tone Sen.	3800.....	124	DTM298-SS1.....					BB21.....					15	6K7, 6A7, 6I16, 6G5, 6C5, 76, 42, 80.....	456	8-18	
163.....	Vol. Tone Sen.	3799.....	147	UM181-SS1.....	M28		3079.....	72	WE1050.....					15	6K7, 6A7, 6I16, 6G5, 6C5, 76, 42, 80.....	456	8-18	
163.....	Vol. Tone Sen.	3801.....	48	A2MP.....			4071.....	72/15	BB21.....					15	6K7, 6A7, 6I16, 6G5, 6C5, 76, 42, 80.....	456	8-18	
164, 165.....	Vol. Tone Sen.	3800.....	124	DTM298-SS1.....			3111.....	72	BB14.....					10	6D6, 6A7, 75, 76, 6G5, 42, 80.....	456	8-21,22	
164, 165.....	Vol. Tone Sen.	3799.....	147	UM181-SS1.....	M28		3112.....	72	HD683.....					10	6D6, 6A7, 75, 76, 6G5, 42, 80.....	456	8-21,22	
164, 165.....	Vol. Tone Sen.	3801.....	105	A2MP.....			3113.....	72	RS216.....					10	6D6, 6A7, 75, 76, 6G5, 42, 80.....	456	8-21,22	
166.....	Vol.		18	UM157-SS17.....			3136.....	72	WE1835.....					6	6D6, 78, 75, 42, 84, 76.....	456	8-20	
167.....	Vol.	DR4255.....	18	N.....	6		4165.....	1/15	BB15.....		3000	294	C3	6	6D6, 78, 75, 42, 84, 76.....	456	8-20	
168.....	Vol.	4266.....	7	H.....	6		.007.....		3S579.....	B14				5	6A7, 6D6, 75, 43, 25Z5.....	456	8-23	
169.....	Vol. Tone	2726.....	18	N.....	6		2698.....	23	RS216.....					4	6D6, 6C6, 25B6G, 25Z5, BK55B.....		8-19	
172.....	Vol.	2737.....	147	MR55.....	6		2594.....	23	RS207.....					8	6A7, 6D6, 6O7G, 6G5, 76, 43, 25Z5.....	456	8-24	
173.....	Vol.	3067.....	58	H.....	6		3229.....	23	2P544.....					7	6A7, 6C6, 43, 25Z5.....	456	8-19	
173.....	Vol.	2726.....	18	N.....	6		3375.....	23	RS216.....					7	6A7, 6D6, 75, 76, 42, 80.....	456		
173.....	Vol. Tone	2737.....	147	MR55.....	6		3351.....	23	WE850.....					8	6A7, 6D6, 6O7G, 6G5, 76, 43, 25Z5.....	456	8-24	
174.....	Vol. Tone	2726.....	18	N.....	6		4297.....	73	RS207.....					8	6A7, 6D6, 6O7G, 6G5, 76, 43, 25Z5.....	456	8-24	
174.....	Vol. Tone	2737.....	147	MR55.....	6		4298.....	73/15	3N532.....					8	6A7, 6D6, 75, 6G5, 76, 42, 80.....	456	8-24	
175.....	Vol. Tone	2726.....	18	N.....	6		3229.....	23	2P544.....					8	6A7, 6D6, 75, 6G5, 76, 42, 80.....	456	9-1	
175.....	Vol. Tone	2737.....	147	MR55.....	6		3375.....	23	RS216.....					8	6A7, 6D6, 75, 6G5, 76, 42, 80.....	456	9-1	
176.....	Vol.		8	MR22.....	M26		16-6.....	23	WE850.....					4	6D6, 6C6, 25B6G, 25Z5, BK55B.....	456	9-2	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
DETROLA—Continued																		
177.....	Vol.	2602.....	18	N.....	6		2698.....	23	RS216.....					5	6A7, 6D6, 75, 43, 25Z5.....	456	8-6	
178.....	Vol.	.....	18	MR48.....			2594.....	23	RS207.....					5	6A7, 6D6, 75, 41, 84, 25Z5.....	456	9-3
179.....	Vol.	3067.....	58	H.....	6		8-8.....	23	2S567.....					4	6A7, 6C6, 43, 25Z5.....	456		
180.....	Vol.	3418.....	18	N.....	7		3229.....	23	2P544.....					4	6D8G, 6S7G, 6T7G, 1D5G.....	456		
182.....	Vol.	3067.....	58	H.....	6		4459.....	24	2N512.....			245	C3	4	6A7, 6C6, 43, 25Z5.....	456		
183.....	Vol. Tone	..... .....	18 147	N..... P.....	6 6		.03.....	23	Buffer.....	B14				4	6A7, 6D6, 6Q7G, 76, 42, 80, 6G5.....	456	9-4
184.....	Vol.	3418.....	18	N.....	7		3229.....	23	2P544.....					4	6A7, 6D6, 6Q7G, 6G5, 76, 42, 80.....	456	9-4	
185.....	Vol. Tone	2726..... 2737.....	18 147	N..... MR55.....	6		3375.....	23	RS216.....					8	6A7, 6D6, 75, 6G5, 76, 42, 80.....	456		
190, 193 (T2, T3)...	Vol. Tone	2726..... 2737.....	18 147	N..... MR55.....	6		3375.....	23	RS216.....					8	6A7, 6D6, 75, 6G5, 76, 42, 80.....	456	9-1	
191.....	Vol. Tone	..... .....	18 147	MR48..... MR55.....	M26		3375.....	23	RS216.....					11	6A7, 6D6, 6Q7G, 6G5, 76, 42, 80.....	456	9-4
192.....	Vol. Tone	3800..... 2737.....	20 147	DTM298-SS1..... MR55.....			4528.....	13	WE4050.....					14	6D6, 6A7, 6I16G, 6G5, 76, 42, 80.....	456	9-6	
193.....	Vol. Tone	2726..... 2737.....	18 147	N..... MR55.....	6		1459.....	24	2N512.....					9	6A7, 6D6, 6Q7G, 6G5, 76, 42, 80.....	456	9-1	
195 (C4).....	Vol. Tone	2726..... 2737.....	18 147	N..... MR55.....	6		.03.....	23	Buffer.....	B14				8	6A7, 6D6, 75, 6G5, 76, 42, 80.....	456	9-1	
197.....	Vol.	4798.....	8	MR21.....	M26		3375.....	23	WE850.....					8	6A7, 6D6, 75, 6G5, 76, 42, 80.....	456	9-1	
204.....	Vol. Tone	2726..... 2737.....	18 106	N..... MR55.....	6		16-6.....	23	2P544.....					9	6K7, 6J7, 25L6, 25Z6, 6A7, 6D6, 6Q7G, 76, 42, 80, 6G5.....	456	9-3	
205.....	Vol.	4982.....	18	MR48.....	M26		3375.....	23	RS216.....					4	6A7, 6D6, 6Q7G, 76, 42, 80, 6G5.....	456	9-8	
206.....	Vol.	.....	45	MR48.....			5006.....	1	WE850.....					5	6A7, 6D6, 6Q7G, 41, 80.....	456	
207.....	Vol.	.....	8	MR22.....	M26		10-6.....	1	2S508.....					6	6A7, 6D6, 76, 6AC5G, 41, 80.....	456	9-9
208A, 208AP.....	Phono.	.....	63	MR39.....			6-16.....	4	2P544.....					3	6C5, 6L7.....	456	9-2
209.....	Vol. Tone	5100..... 5099.....	18 107	MR48..... MR55.....	M26		16-6.....	23	2P544.....					4	6D6, 6C6, 25L6G, 25Z5, BK55BG.....	456	9-9	
210.....	Vol. Tone	5100..... 5099.....	45 107	MR48..... MR55.....	M26		3285.....	1	WE1650.....					8	6A7, 6D6, 6Q7G, 76, 41, 80, 6G5.....	456		
211.....	Vol.	.....	18	MR48.....	M26		5101.....	1	WE1835.....					9	6A7, 6D6, 76, 6G5, 6K5G, 6V6G, 80.....	456	
212.....	Vol.	.....	18	MR48.....	M26		16-8.....	4	2P544.....					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, BK49BG.....	456	9-9
214.....	Vol.	.....	18	MR48.....	M26		16-8.....	4	2N504.....					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, BK49BG.....	456	9-10
215.....	Vol. Tone	5100.....	15 147	MR48..... MR55.....			16.....	1	WE1650.....					7	6A7, 6D6, 6Q7G, 76, 41, 80.....	456		
216.....	Vol.	5252.....	8	MR22.....	M26		16-6.....	23	2P544.....					4	6K7, 6J7, 25L6, 25Z6, 2P544.....	456	9-10	
218.....	Vol.	4798.....	8	MR21.....	M26		16-6.....	23	2P544.....					4	6K7, 6F5, 25L6, 25Z6, 2P549.....	456	9-11	
219.....	Vol.	.....	18	MR48.....	M26		20-10.....	4	2P549.....					5	6A8, 6K7, 6Q7, 25L6, 25Z6.....	456	9-11
220.....	Vol.	.....	45	MR48.....			16-8.....	1	2N504.....					6	6A7, 6D6, 76, 6K5G, 25L6G, 25Z5.....	456	9-10
221.....	Vol.	.....	18	MR48.....			16-8.....	4	2P544.....					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, BK49BG.....	456	9-11
222.....	Vol.	.....	45	MR48.....			16-8.....	4	2P544.....					6	6A7, 6D6, 76, 6K5, 25L6G, 25Z5, BK42BG.....	456	9-12
223.....	Vol.	5332.....	18	MR48.....			5389.....	1	2S562.....					7	6A7, 6D6, 6Q7G, 76, 43, 25Z5.....	456	9-13	
225.....	Vol.	5332.....	18	MR48.....			5272.....	29	BI331.....					7	6A7, 6D6, 6Q7G, 76, 43, 25Z5.....	456	9-14	
226, 227.....	Vol.	.....	18	MR48.....	M26		5420.....	29	BI331.....					7	6A7, 6D6, 6Q7G, 76, 43, 25Z5.....	456	9-14
228.....	Vol.	5332.....	18	MR48.....			5419.....	29	2N516.....					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5 (No. 227 uses BK49BG)	456	9-12	
231.....	Vol. Tone	5512..... 5511.....	46 44	MR48..... MR39.....			16-8.....	1	2N504.....					7	6A7, 6D6, 6Q7G, 76, 43, 25Z5.....	456	9-12	
233.....	Vol.	5332.....	18	MR48.....	M26		5272.....	29	BI331.....					7	6A7, 6D6, 6Q7G, 76, 43, 25Z5.....	456	9-14	
235.....	Vol.	.....	8	MR22.....	M26	A14	5507.....	1	RS216.....					9	6A7, 6D6, 76, 6K5G, 26V6G, 80, 6G5.....	456	9-15
248.....	Vol.	.....	45	MR48.....	M26		5101.....	1	WE1835.....					7	6A7, 6D6, 6Q7G, 43, 25Z5, 76.....	456	10-1
							8-8.....	1	2N516.....					4	6D6, 6C6, 25L6G, 25Z5, BK55BG.....	456	9-12	
							16-6.....	23	2P544.....					6	6A7, 6D6, 76, 6K5G, 25L6G, 25Z5.....	456	10-2	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

M. MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DETROLA—Continued																		
249	Vol.		18	MR48	M26			16-8	4	2P544					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, BK49DG	456 10-2	
250	Vol.		45	MR48	M26			16-8	4	2P544					6	6A7, 6D6, 76, 6K5G, 25L6G, 25Z5, BK49DG	456 10-2	
251	Vol.	5332	18	MR48	M26			5420 5419 5272	29 29 29	BB31 2N516 BB31					7	6A7, 6D6, 6Q7G, 743, 76, 25Z5	456 10-3	
253	Vol.		45	MR48	M26			16-8	1	2N504					6	6A7, 6D6, 76, 6K5G, 25L6G, 25Z5	456 10-2	
254	Vol.		18	MR48	M26			16-8	4	2P544					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456 10-2	
256	Vol.	5332	18	MR48	M26			5420 5419 5272	29 29 29	BB31 2N516 BB31					7	6A7, 6D6, 6Q7G, 743, 76, 25Z5	456 10-3	
257	Vol.		7	H7	6	2		20-8	4	2P549					5	6A7, 6D6, 75, 25L6G, 25Z5, BK49DG	456 10-2	
258	Vol. Tone	5100	18	MR48	6			3375	1	RS216					8	76, 6A7, 6D6, 6K5G, 6V6G, 80, 6U5	456 10-5	
259	Vol. Tone	5100	18	MR48	6			3375	1	RS216					9	76, 6A7, 6D6, 6K5G, 6V6G, 80	456 10-5	
260	Vol.	5511	22	L	6			3113	1	WE1835					4	6D6, 6C6, 25L6G, 25Z5, BK55BG	456 10-4	
266	Vol.		8	H	6	2		16-16	4	2P546					5	6D6, 76, 25L6G, 25Z5, BK49DG	456 10-4	
267	Vol.	5690	18	MR48	M26			15 5273	15 40	BB15 2P546			See Note C6		6	6D8G, 6S7G, 6T7G, 1G5G, 6N5, 6ZY5G	456 10-7	
268	Vol.		6	H7	6	2		.03 16-16	4	Buffer 2P546	B14				6	6D6, 76, 25L6G, 25Z5	456 10-4	
270	Vol. Tone		106	MR48					1	See Note	B3				7	6A7, 6D6, 75, 76, 741, 80	455 10-8	
272	Vol.		8	MR55 H7	M26 6			16-6	4	2P544					4	6K7, 6F5, 25L6, 25Z6	455 10-4	
274	Vol.		18	MR48	M26			20-12	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455 10-9	
276U	Vol.		18	MR48	M26			20-12	4	2P549					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455 10-9	
280 (Jr. PeeWee)	Vol.		8	H	6	2		20-8	23	2P549					4	12K7GT, 12F5GT, 35L6GT, 35Z4GT	455 10-10	
281	Vol.		18	MR48	M26			20-12	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455 11-1	
282	Vol.		18	MR48	M27			8	12	BB21					4	1A7, 1N5, 1H5, 1C5	455 10-8	
283	Vol.		18	MR48	M26			16-12	1	2N506					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5G	455 10-10	
284 (Super PeeWee)	Vol.		18	MR48	M26			20-12	4	2P549					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455 10-10	
286	Vol.		18	MR48	M27				12	BB21					5	1N5, 1A7, 1H5, 1C5	455 10-8	
288	Vol.		18	MR48	M27			8	12	BB21					4	1A7, 1N5, 1H5, 1C5	455 10-8	
293	Vol.	6593	18	MR48	M27			40-40	25	2-BB27					4	1A7, 1N5, 1H5, 1C5	455 11-1	
295-1	Vol.		18	MR48	M27			16 6714	78 24	BB15 2N518		6735	248	C3	5	1A7, 1N5, 1H5, 1Q5, 25Z6GT	455 11-2	
297	Vol.	6687	18	MR48	M26			.005 40-40	25	Buffer 2-BB27	B14				4	6K8GT, 6K7GT, 6S0GT, 6K6GT, 1A7GT, 3ABGT	455 11-3	
299	Vol.		18	MR48	M27			16 16-12	78 4	BB15 2P546					5	1T5GT, 25Z6GT, 12SA7GT, 12K7GT, 12Q7GT, 12L6GT, 35Z4GT	455 11-2	
301	Vol.		18	MR48	M26			20-12	1	2N509					5	12A8GT, 12L7GT, 35Q7GT, 35L6GT, 35Z4GT	455 11-1	
302	Vol.		18	MR48	M26			8 16-12	12 1	BB21 2N506					4	1A7, 1N5, 1H5, 1T5	455 11-2	
303	Vol.		18	MR48	M27				4	2P549					7	6A7, 6K7, 6Q7G, 25L6G, 25Z5	455 11-1	
304	Vol.		18	MR48	M26			20-20 4	4 13	2P549 BB20					6	6K8, 6K7GT, 6Q7GT, 6J5GT, 325L6GT, 25Z6GT	455 10-6/ 11-3	
305	Vol.		18	MR48	M26			20-12	4	2P549					6	6K8, 6K7GT, 6Q7GT, 6AE5GT, 25AC5GT, 25Z6GT	455 J-6/ 11-4	
310	Vol.		18	MR48	M26			7113	1	BB64					8	6K8G, 6K7G, 6Q7G, 76, 76N6G, 80, 6U5	455 10-6/ 11-5	
314	Vol. Tone	5100 5099	106 106	MR48 MR55	M26			16-16	1	BB64					11	6K8G, 6K7G, 76, 6F5, 76AC5G, 80, 6G5	455 10-6/ 11-6	
315	Vol. Tone	5100 5099	45 106	MR48 MR55	M26			7113	1	BB64					11	6K8G, 6K7G, 76, 6F5, 76AC5G, 80, 6G5	455 10-6/ 11-6	

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DETROLA—Continued																		
318	Vol. Tone		106	MR48	M26			8	23	RS213					5	6A7, 6D6, 75, 41, 1V.	455	10-6/ 11-5
			106	MR55				10	23	WE1830					5	12A8GT, 12K7GT,		
319	Vol.		18	MR48	M26			20-10	1/15	BB22					5	12Q7GT, 35L6GT,	455	11-1
								12	1	2N507								
320	Vol.		124	MR48	M26			20-20-20	1/15	FPT306					5	12A8GT, 12K7GT,	455	11-4/ 10-6
321	Vol.		18	MR48	M26			40	4	BB27				5	6K8G, 6K7G, 6Q7G,	455	11-7	
								20	4	BB25								
322	Vol.		18	MR48	M26			16	4	BB24				6	6A7, 6D6, 6Q7G,	456	11-7	
								8	4	BB21								
324	Vol.		18	MR48	M26			40	4	BB27				5	6K8G, 6K7G, 6Q7G,	455	11-7	
								20	4	BB25								
325	Vol. Tone		45	MR48				16, 16	1	BB64				11	6K8G, 6K7G, 476,	455	11-6,7	
			147	MR55														
326	Vol.		17	†			A19	7400	25	BB64				11	6K7G, 6K8G, 6Q7G,	455	11-8-10	
327	Vol.	6625	18	MR48	M26			5780	3	BB25				7	6K8GT, 6K7GT,	455	12-1	
328	Vol.	6625	18	MR48	M26			5780	1	BB25				6	6K8GT, 6K7GT,	455	12-2	
329	Vol.		45	MR48	M26			16, 16	1	BB24				6	6A7, 6D6, 6J5GT,	455	11-11	
333	Vol.		18	MR48	M26			20, 20, 20	3	BB25				7	6K8GT, 6K7GT,	455	11-10,11	
335A	Vol. Tone	2726	18	MR48	M26			5779	9	BB21				7	6K8GT, 6K7GT,	455	12-3	
		2737	106	MR55				7892	9	RS203								
								7894	9	RS216								
								4	13	BB20								
339	Vol.	7952	18	MR48	M27			8010	1/78	FPT304	B117			6	1P5GT, 1A7GT,	455	12-4	
340, 340-1	Vol.	7952	18	MR48	M27			5780	4	BB25				6	1A7GT, 1N5GT,	455	12-4	
								8102	4/78	BB27/HC2501								
341, 341-1, 341-2	Vol.	7952	18	MR48	M27			20	4	BB25				5	1A7GT, 1N5GT,	455	12-4	
								40-100	4/78	BB27/HC2501								
342	Vol.		18	MR48	M26			20-20	1	2N509				5	12SA7, 12SK7, 12SQ7,	455	11-11	
343	Vol.		18	MR48	M26			20-20	1	2N509				6	12SA7, 12SK7,	455	11-12	
346	Vol.	6687	18	MR48	M26			8211	24/15	FPT332		3000	294	C3	5	6K8GT, 6K7GT,	455	12-5
								005		Buffer	B14							
349	Vol.	8314	18	MR48	M26			5101	1	WE1835				5	6K8GT, 6K7GT,	455	12-2,6	
								3285	1	WE1650								
360, 360-1, 360-2	Vol.	7952	18	MR48	M27			20	4	BB25				6	1A7GT, 1N5GT,	455	12-4	
								40-100	4/78	BB27/HC2501								
372	Vol.		18	†			A5	10	12	BB22				4	11R5, 1T4, 1S5, 1S4	455	12-6	
503	Vol. Tone		6	K				8-4	1	2N518				5	58, 57, 47, 80	456	5-4	
			22	K12				10	17	BB12								
1000	Vol.		7	K				4-4-21	11	UR182	B31			4	6D7, 6E7, 43, 25Z5			
1200	Vol. Tone Supp.		15	TRP623	6			50-8-8-10	64	2-UR182	B226			12	6D6, 37, 85, 43, 25Z5	175	5-5	
			44	K12														
1900	Vol. Tone		20	J			See Note A19	16	1	ST597				7	58, 2A7, 55, 53, 56, 80	175	9-16	
			22	MR33				8	1	ST595								
								10	15	BB12								
2741	Vol.		18	MR48	M26			20-12	1	2N509				5	12A8GT, 12K7GT,	455	10-10	
2742	Vol.		18	MR48	M26			20-12	1	2N509				5	12A8GT, 12K7GT,	455	10-9	
2811	Vol.		18	MR48	M26			20-12	1	2N509				5	12A8GT, 12K7GT,	455	11-1	
3041	Vol.		18	MR48	M26			16-12	1	2N506				5	6A7, 6K7, 6Q7G,	455	11-1	

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DETROLA—Continued																		
3051.....	Vol.		18	MR48.....	M26.....			20-20.....	4	2P549.....					7	6K8, 6K7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT.....	455	10-6/ 11-3
3101.....	Vol.		18	MR48.....	M26.....			20-12.....	4	2P549.....					6	6K8, 6K7GT, 6Q7GT, 6AE5GT, 25AC5GT, 25Z6GT.....	455	11-4/ 10-6
3201, 3202.....	Vol.		106	MR48.....	M26.....			20-20-20.....	1/15	F1PT306.....					5	12A8G, 12K7G, 12Q7G, 35L6G, 35Z5.....	455	11-4/ 10-6
3231.....	Vol.	2726.....	106	MR48.....	M26.....			7113.....	25	BB64.....					7	6K8G, 6K7G, 6Q7G, 6C5G, 46F6G, 80.....	455	11-10-12
3271.....	Vol.	2737.....	106	MR55.....				5780.....	3	BB25.....					7	6K8GT, 6K7GT, 6Q7GT, 25L6GT, 6J5GT, 25Z6GT.....	455	12-1
3271.....	Vol.	6625.....	18	MR48.....	M26.....										7	6K8GT, 6K7GT, 6Q7GT, 25L6GT, 6J5GT, 25Z6GT.....	455	12-1
3281.....	Vol.		18	MR48.....	M26.....			20-20.....	1	2N509.....					6	6K8GT, 6K7GT, 6Q7GT, 6AE5GT, 25AC5GT, 25Z6GT.....	455	11-4, 10,12
3331.....	Vol.	6625.....	18	MR48.....	M26.....			5780.....	3	BB25.....					7	6K8GT, 6K7GT, 6Q7GT, 25L6GT, 6J5GT, 25Z6GT.....	455	12-1
3332.....	Vol.	6625.....	18	MR48.....	M26.....			5780.....	3	BB25.....					7	6K8GT, 6K7GT, 6Q7GT, 25L6GT, 6J5GT, 25Z6GT.....	455	12-1
3422.....	Vol.		18	MR48.....	M26.....			20-20.....	1	2N509.....					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT.....	455	12-6
DEWALD																		
AC-LW15-6.....	Vol.	8190.....	6	E7.....	6	3		2062.....	4	CS133.....					6	35, 24, 27, 47, 80.....		
B-A-C.....	Vol.		6	F7.....	6	5		2095.....	4	RM261.....					4	58, 57, 47, 82.....		3-8
B-A-G.....	Vol.	8214.....	6	F7.....	6	EX700		2062.....	4	CS133.....					6	24, 27, 35, 47, 80.....	175	3-9
B-A-II.....	Vol.		6	F7.....	6	4		2063.....	4	CS131.....					8	58, 56, 35, 57, 47, 82.....	175	3-10
B-A-II-9.....	Vol.		6	F7.....	6	4		2062.....	4	CS133.....					9	58, 35, 56, 57, 47, 82.....	175	5-19
B-A-M.....	Vol.		15	K12.....				2062.....	4	CS133.....					9	58, 35, 56, 57, 47, 82.....	175	5-19
B-A-M.....	Vol.		44	Y.....				2063.....	4	CS131.....					12	58, 35, 27, 46, 57, 82.....	465	5-20
B. L. G.....	Vol.		6	F7.....		4		4-8.....	4	2S567.....					7	58, 56, 57, 47, 82.....	115	4-16
K. A. D.....	Vol.		6	H12.....	6	EX700									4	39, 36, 201A, 71A.....		3-10
K. A. F.....	Vol.		6	H12.....	6	EX800									6	36, 39, 37, 33.....	175	3-11
K. R. E.....	Vol.		6	H12.....	6	EX700									5	39, 37, 33.....		5-21
AC14-45.....	Vol.		7	E12.....	6	EX700		3-3-1.5.....	2	See Note.....	B1				7	24, 27, 45, 80.....		2-2
AC24-45.....	Vol.		6	E12.....	6	EX700		1.5-3-1.5.....	2	See Note.....	B1				8	24, 27, 45, 80.....		2-2
40.....	Vol.		6	F7.....	6	EX700		4-1.....	4	CM172.....					4	58, 57, 47, 82.....		3-5
41.....	Vol.		6	G7.....	6	5		8-5.....	1	2N518.....					4	78, 77, 38, 25Z5.....		4-1
42, 42R.....	Vol.		6	F7.....	6	5		10-10.....	15	TN111.....					4	78, 36, 38, 12Z3.....		5-1
50.....	Vol.		6	F7.....	6	5		2103.....	4	RM261.....	B86				5	24, 58, 57, 47, 82.....	175	4-2
51.....	Vol.		6	F7.....	6	EX800		8-4.....	4	2S567.....					5	24, 58, 57, 47, 82.....	175	3-12
52.....	Vol.		15	N.....				10.....	15	See Note.....	B3		221	C3	5	36, 85, 37, 89.....	175	4-3
53.....	Vol.		6	H12.....	6	EX800									5	36, 33.....		3-12
54.....	Vol.		7	UC501.....	6	EX200		2128B.....	1	2N518.....					5	36, 37, 38, 39.....		3-6
55.....	Vol.		6	G7.....		2		2129A.....	15	TN111.....					5	78, 44, 77, 43, 25Z5.....	456	3-7
55R, 55X.....	Vol.		6	G7.....	6	2		2134B.....	27	CM175.....	B88				5	78, 44, 77, 43, 25Z5.....	456	3-7
56.....	Vol.		6	G7.....		2		5.....	15	BB12.....					5	78, 77, 43, 12Z3.....	456	4-4
58.....	Vol.		6					2171.....	6	2S562.....					5	78, 77, 43, 12Z3.....	456	4-4
58L, 59.....	Vol.		6	J.....	6	2		10, 10.....	15	BB12.....					5	6A7, 44, 77, 43, 25Z5.....	456	4-5
60.....	Vol.		6	G7.....		1		2134.....	4	2P544.....					5	6A7, 44, 77, 43, 25Z5.....	456	4-5
60EX.....	Vol.		6	J.....				5.....	15	BB12.....					5	61Y6, 6C6, 43, 12Z3.....	455	5-3
61.....	Vol.	8308.....	56	UM154.....	M26	See Note A96		2242.....	1	2N504.....					5	61Y6, 6C6, 43, 12Z3.....	455	5-3
62 Batt.....	Vol.		54	O.....				4, 4.....	15	BB12.....					5	6A7, 6D6, 6C6, 43, 12Z3.....	456	5-4
80.....	Vol.		15	N.....				12-12.....	27	2P544.....					5	6A7, 6D6, 6C6, 43, 12Z3.....	456	5-4
								4, 4.....	15	BB12.....					6	39, 37, 43, 25Z5.....		4-6
								2170.....	4	2P544.....					6	78, 77, 37, 43, 25Z5.....		Early, 455
								5.....	15	BB12.....					6	78, 77, 37, 43, 25Z5.....		Late, 175
								2170.....	4	2P544.....					6	6A7, 78, 85, 37, 41, 84.....	456	4-7 4-8-12
								10, 10.....	15	BB12.....					6	1A6, 34, 32, 30, 49.....	175	4-13
								2147.....	1	CS133.....		8304.....	292	C3	6	6A7, 78, 85, 37, 41, 84.....	456	4-7 4-8-12
								2133.....	15	BB27.....					6	1A6, 34, 32, 30, 49.....	175	4-13
								.025.....		Buffer.....	B14				6	6A7, 78, 37, 42, 80.....	456	4-14
								8, 8.....	1	ST595.....					8	6A7, 78, 37, 42, 80.....	456	4-14
								10, 10.....	15	BB12.....								

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DEWALD—Continued																		
81	Vol. TunLgt.		15	N	6			8, 8	1	ST595					8	6A7, 78, 37, 342, 80	456	5-5
81R	Vol. TunLgt.		15	N	6			10, 10	15	BB12					8	6A7, 6D6, 37, 42, 80	456	5-6
	Vol. Tone		22	†				10, 10	15	ST595								
90	Vol.		†	†		See Note	te A5	2179	†	CM172					9	58, 256, 55, 245, 80	262.5	
								2180	†	CS130								
								2181	†	BB21								
100	Vol.		15	N				8, 8	1	ST595					10	6A7, 78, 37, 342, 80	456	4-15
								10, 10	15	BB12								
AC145	Vol.		10	G12				2-1-2	37	See Note	B1				7	326, 227, 45, 80		2-1
AC171-2	Vol.		10	G12				1-3-1	5	See Note	B1				8	426, 27, 371A, 80		2-3
DC173-4	Vol.		10	G12				2-1	2/12	See Note	B1				7	312A, 371A		2-3
AC245	Vol.		10	G12				2-2-2	3	See Note	B1				8	326, 227, 45, 80		2-1
DC273	Vol.		10	G12				2-1	2	See Note	B1				7	312A, 371A		2-3
400	Vol.		6	J		See Note	te A14	10-10	1	2N506					4	6D6, 6C6, 25B5, 25Z5		8-3
								5	15	BB12								
402	Vol.		6	Y		EX500		10-10	6	2N506					4	6D6, 6C6, 43, 25Z5		6-1
								5-5	15	TN111								
403-4	Vol.	8499	6	G7				2283	1/15	4S715					4	6D6, 6C6, 43, 12Z3		6-3
403-4 Type 2	Vol.	8499	6	G7				2283	24/15	4S715					4	6D6, 6C6, 38, 1V		6-2
405	Vol.		6	J		See Note	te A14	10-10	1	2N506					4	6D6, 6C6, 25B5, 25Z5		8-3
								5	15	BB12								
406, 406LW	Vol.	3446	6	SRP263		EX300		2448	24	2N514					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT		9-1
406R	Vol.		6	MR29	M26			16, 16	24	BB24					4	12K7GT, 12F5GT, 50L6GT, 45Z5GT		10-1
408R	Vol.	3461B	18	MR53	M27			8	12	BB21					4	1A7G, 1N5G, 1H5G, 1C5G	455	10-1
409	Vol.		18	UM161	M27		A96	8	13	BB21					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-1
410, 410A, 410R	Vol.	3315	45	MR53	M27			10	12	BB22					4	1R5, 1T4, 1S5, 1S4	455	12-2
411	Vol.	3466	63	MR48	M26			16, 16	24	BB24					2	12BBGT, 32L7GT		10-2
412	Vol.		6	UM129		See Note	te A96	16, 16	24	BB24					4	12K7GT, 12F5GT, 59L6GT, 45Z5GT		10-1
414	Vol.		6	UM129	M26		A96	16-16	24	BB24					4	12K7GT, 12F5GT, 50L6GT, 45Z5GT		11-2
415, R415	Vol.		18	UM161	M27		A96	8	12	BB21					4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	11-2
425R	Vol.		6	SRP263				10-12-4-4	6	4S715					4	6D6, 6C6, 43, 12Z3		5-7
430	Vol.		6	Y			A14	4-8	24	2N502					4	6D6, 6C6, 38, 12Z3		7-1
								4	15	BB12								
440	Vol.		6	SRP263				10-12-4-4	6	4S715					4	6D6, 6C6, 43, 12Z3		5-7
AC447M	Vol.		7	J	6	EX250		2-2	4	See Note	B1			4	35, 24, 47, 80		2-5	
500A	Vol.		6	G7	6	4		2242	6	2N506					5	6A7, 6D6, 6C6, 43, 12Z3		5-8
								4-4	15	TN111								
501	Vol.		6	G7	6	4		8-8	6	2N502					5	6A7, 6D6, 6C6, 43, 12Z3		5-9
								4-4	15	BB12								
501A	Vol.		18	MR48	M26			24-16	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-1
503-4	Vol. Tone		6	†		See Note	te A5	2187	1	2N518					5	2A7, 58, 57, 2A5, 80	456	5-10
			22	K12				5	15	BB12								
505	Vol.		6	Y		See Note	te A14	8-8	6	2N502					5	6A7, 6D6, 75, 43, 25Z5		456
								5	15	BB12								
505F	Vol.		6	SRP263		EX800		12-20	27	21F49					5	6A7, 6D6, 75, 43, 25Z5		456
								5	15	BB12								
505R	Vol.	8474	6	SRP263		EX800		2272	6/15	UR189					5	6A7, 6D6, 75, 43, 25Z5		456
								10-10	1	2N502								
506	Vol.		7	UC512		See Note	te A14	5, 5, 5	15	BB12					5	6D6, 76, 43, 12Z3		6-6
506R	Vol.	8487	6	SRP263		See Note	te A14	2279	27/15	UR189		B94			4	6D6, 6C6, 43, 25Z5, 1R5-Bul		6-7
510	Vol.	8553	6	†	6	See Note	te A5	2292	4	CM172					5	6A7, 6D6, 6C6, 42, 80	456	6-4
515	Vol.		6	Y				10-10	1	2N506					4	6D6, 6C6, 43, 25Z5, 155B		7-1
								4	15	BB12								
517	Vol. Tone	8609, 3356	17, 22	N, MR36	6			8-8	1	2N518		8608	294	C3	5	6A7, 6D6, 75, 41, 0Z4	456	7-2
								5	15	BB12								
517R	Vol. Tone	8609, 3356	17, 22	N, MR36	6			8-8	1	2N518		8608	294	C3	5	6A7, 6D6, 75, 41, 84	456	7-2
								5	15	BB12								
518	Vol.		6	Y				.01	1	Buffer	B14							
								10-10	1	2N506								
								4	15	BB12								
520	Vol.		6	E12				8-8	4	2S567								
522	Vol.		18	MR48				8	4	RS213								
AC524	Vol.	3068	40	G12				8	23	2S567					5	1A6, 1A4, 1H5, 30, 33	456	8-4
527	Vol.		18	MR48	M26			8-8	23	2S567		8608	294	C3	5	324, 45, 80	456	2-4
527	Vol. Tone		22	Z12				.01	1	Buffer	B14				5	6A7, 6D6, 75, 41, 84	456	8-5
528, 528LW	Vol.		6	†		See Note	te A5	10-10	1	2N506					4	6D6, 6C6, 25L6G, 25Z5, M55F		8-6
								5	15	BB12								
529, 529LW	Vol.		18	N				5-5	23	2S567					5	6A7, 6D6, 75, 41, 84	456	8-7

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DEWALD — Continued																		
530, 530LW, 531, 531LW	Vol.		6	↓		See Note	te A3	16-10	1	2N506					4	6D6, 6C6, 25L6G, 25Z5, M55F	9-2	
532, 532LW	Vol. Phono.	3420A	6	SRP263	6			5	15	BB12					6	6D6, 6C6, 25L6G, 25Z5, M55F, 8853	10-3	
532-3	Vol. Tone		63	UM154		See Note	te A96	2423	1	2N506					5	*36, *33	2-5	
533, 533LW	Vol.		6	E7	6			25-2	1	BB12					5			
533	Vol. Tone		21	O						See Note	B7							
533, 533LW	Vol.	3431	8	MR14	M26			16-10	1	2N506					4	6A7, 6C6, 25L6G, 25Z5, L55F	456 9-2	
534	Vol.		6			See Note	te A3	5	15	BB11					4	6D6, 6C6, 25L6G, 25Z5, M55F		
535-6	Vol.		6	E7	6	4		8-4	4	2S567					5	*35, 24, 47, 80	2-6	
537, 538, 539	Vol.	3454	18	UM154	M26		A96	2460	1	2N506					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5	10-4	
542, 542LW	Vol. Tone		18	UM154			A96	8-8	1	2S567					5	6A7, 6D6, 6Q7G, 41, 84	456 11-4	
544	Vol. Tone		21	UM154			A96	5	15	BB12					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z4GT	455 11-5	
544	Vol.		18	UM161	M27			50-20	76	TN129					5			
545, 545LW, 545SW	Vol.		18	UM161	M27		A96	100	76	IIC2501					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z4GT	455 11-6	
547	Vol.		6	E7	6	5		4-4	4	See Note	B3				5	*35, 24, 47, 80	2-6	
547A	Vol.		6	E7	6	5		4-4	4	See Note	B3				5	*35, 24, 47, 80	2-7	
548, 549	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455 12-3	
553-4S	Vol.		6	G7	6	2		12-12	6	2N506					5	*6D6, 6C6, 43, 12Z3	456 5-11	
555	Vol.		6	Y	6	EX250		4, 4	15	BB12					5	58, 57, 27, 2A5, 82	5-12	
555 (1940)	Vol.		18	MR48	M26			1.5-4.5	1	See Note	B3				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455 12-3	
558, 559	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455 12-3	
560	Vol.		18	MR48	M26			24	24	BB26					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455 12-11	
561, 562	Vol.		18	MR48	M26			16	24	BB24					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455 12-1	
561, 562	Vol.		18	MR48	M26			24-16	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455 12-1	
565	Vol.	3548	18	MR53	M27			2540	76	F1PT309	B117				5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455 12-4	
570	Vol. Tone		6	J	6	EX1000		8-4	1	See Note	B3				5	2A7, 57, 58, 2A5, 80	455 5-13	
600	Vol. Tone		22	K12				5	15	BB12					6	6A7, 78, 37, 6C6, 43, 25Z5	456 5-14	
600	Vol. Tone		6	SRP263	6	EX500		16-16	6	2N506					6	*6D6, 6A7, 75, 41, 84	175 6-9	
605	Vol.	8462	22	K12				4-4	15	TN111		8463	294	C3	6			
605	Vol.		17	N	6	RS246		8-8	1	2N518					6			
606	Vol. Tone	8462	17	N	6	RS246		5-5	15	TN111					6			
606	Vol. Tone	3368	22	UM137			A96	.025-.025	1	Buffer	B14	8463	294	C3	6	*6D6, 6A7, 75, 41, 84	175 7-3,4	
607	Vol.	8462	17	N	6	RS246		2269	15	CM172					6			
607	Vol.		17	N	6	RS246		2270	15	TN111		8463	294	C3	6	*6D6, 6A7, 75, 41, 84	456 6-8	
609	Vol.	8474	6	SRP263	6	EX800		.025-.025	1	Buffer	B14				5	6A7, 6K7, 6J7, 43, 25Z5	456 6-11	
609	Vol.		6	SRP263	6	EX800		2294	27/15	UR182	B95				5	6A7, 6K7, 6J7, 43, 25Z5	456 7-11	
609 Revised	Vol.	8474	6	SRP263	6	EX800		20-12	4	2P549					5	6A7, 6K7, 6J7, 43, 25Z5	456 7-11	
610, 610LW	Vol.	8533	17	N	6			5	15	BB12					6	6A8, 6K7, 6H6, 6F5, 6F6, 80	456 6-12	
611, 611LW	Vol. Tone		6	↓		See Note	te A5	2292	4	CM172					6	6A8, 6K7, 6H6, 6F5, 43, 25Z5	456 6-13	
612, 612LW, 615, 615LW	Vol. Tone		21	↓		See Note	te A5	20-12-5	27/15	UR182	B95				6	6A8, 6K7, 6H6, 6F5, 43, 25Z5	456 6-13	
612, 612LW, 615, 615LW	Vol.	8474	6	SRP263	6	EX800		2301	27/15	UR182	B95				5	6A8, 6K7, 75, 43, 25Z5	456 6-14	
616	Vol.		6	C12				20-12-5	27/15	UR182					5	6A7, 6D6, 76, 43, 25Z5, M49B	456 7-6	
617	Vol. Tone	8462	17	N	6	RS246		2269	1	CM172		8463	294	C3	6	*6D6, 6A7, 75, 41, 84	175 7-3,4	
617	Vol. Tone	3368	22	UM137			A96	2270	15	TN111					6			
618	Vol. Tone		18	↓		See Note	te A5	.025-.025	1	Buffer	B14				5	6A7, 6D6, 75, 43, 25Z5, L49C	456 7-7	
618	Vol. Tone		21	↓		See Note	te A5	16-16	27	2P546					5	6A7, 6D6, 76, 43, 25Z5, L49C	456 7-6	
619	Vol.		6	C12				20-12-5	27/15	UR182					5	6A7, 6D6, 75, 43, 42, 80	456 7-7	
620, 620LW	Vol. Tone		18	↓		See Note	te A5	8-8	4	2S567					6	6A7, 6D6, 75, 43, 42, 80	456 7-7	
621, 621LW	Vol. Tone		147	↓		See Note	te A5	20-12	27	2P549					5	6A7, 6D6, 75, 43, 25Z5, L49C	456 7-8	
621, 621LW	Vol. Tone		17	↓		See Note	te A5	5	15	BB12					6	*24, 45, 80		
AC624	Vol. Tone		7	E				8-5	4	See Note	B3				6			
629, 629LW	Vol. Tone		21	M				16-16	1	2N506					6	6A7, 6D6, 75, 25L6G, 6G5, 25Z5	456 8-7	
629, 629LW	Vol.	8660	18	N	6			5	15	BB12					6			

} Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DEWALD—Continued																		
630	Vol. Tone		6	H7			5	16-16-8	11	See Note	B96				6	7B, 6A7, 77, 43, 25Z5	456	5-15
DC632	Vol.		22	K12				5	15	BB12					6	30, 31, 32		2-8
636, 636LW, 636S, 636LW-S	Vol.		40	G12											6	6A7, 6D6, 6Q7G, 6V6G, 6U5, 6X5G	456	9-3
637, 637LW, 637S, 637LW-S	Vol. Tone		18	MR48				8-8	1	2N518					6	6A7, 6D6, 6Q7G, 25L6G, 6U5, 25Z5, L42F	456	9-3
637-8	Vol.		17	MR48				5	19	BB11					6	6A7, 6D6, 6Q7G, 25L6G, 6U5, 25Z5, L42F	456	9-3
640	Vol.		22	MR28				16-16	1	2N506					6	6A7, 6D6, 6Q7G, 25L6G, 6U5, 25Z5, L42F	456	9-3
645, 645LW	Vol.		6	Y			A14	2210	1	CM172					6	336, 37, 38	175	2-7
648, 648LW, 650, 650LW	Vol. Tone	3430	17	N	6			5-5	15	TN111			Order from Mfr.		6	6D6, 6A7, 75, 41, 84	175	5-16
649, 649LW, 651, 651LW	Vol. Tone	3430	18	N	6			.025-.025	1	Buffer	B14				5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, M49F	456	9-4
652	Vol.	3432	21	N				16-10	1	2N506					6	6A7, 6D6, 6Q7G, 25L6G, 76, 25Z5, M42F	456	9-5
655, 655LW, 656, 656LW	Vol.	3439	18	MR48				5	15	BB11					6	6A7, 6D6, 6Q7G, 25L6G, 76, 25Z5, M42F	456	9-5
658, 658LW	Vol.		17	UM154	M26		A96	2460	1	2N506					5	12SA8, 12SK7, 12SQ7, 35L6GT, 35Z4GT, E7999	456	10-5
661	Vol.		17	MR48	M26			16-10	1	2N506					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, M49F	456	11-1
662, 662L	Vol. Tone		18	MR48	M26			40-20	1	2N514					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, M49F	456	11-1
663	Vol.		21	MR53				20	15	BB15					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT, G-30-50	455	11-7
665	Vol.		18	MR48	M26			30-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT, G-30-50	455	11-3
666	Vol.		18	MR48	M26			40-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT, G-30-50	455	11-7
669	Vol.	3519A	18	MR48	M26			20	15	BB15					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT, G-30-50	455	11-3
671	Vol. Tone	3538	18	MR48	M26			2507	24	2N509					6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT, 6K6GT, 6X5GT	455	12-5
700, 700LW	Vol. Tone	3539	21	MR53				2534	1/15	3N526					6	6SK7, 6SA7, 6SQ7, 6K6GT, 6X5GT	455	12-6
700A, 700A-LW	Vol. Tone		18	N			See Note A5	16-16	27	2I546					6	6A7, 6D6, 75, 6G5, 25Z5, L42C, 43	456	8-9
701, 701LW	Vol. Tone		21	N				20-20	6	2N509					7	6A7, 6D6, 75, 25L6G, 25Z5, L42C, 6G5	456	8-9
702	Vol. Tone	3407	18	MR48	M26			5	15	BB12					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, D-150	456	9-7
703, 703LW	Vol. Tone	3390A	22	UM137			A96	8-8	15	BB12					7	6D6, 6A7, 75, 41, 6116, 84	175	8-10
704, 704LW	Vol. Tone	8660	18	N	6			.01	1	2N506	B14	8608	294	C3	6	6A7, 6D6, 75, 25L6G, 6G5, 25Z5	456	8-7
705	Vol. Tone		17	MR48	M26			5	15	BB12					6	6A7, 6D6, 6Q7G, 25L6G, 25Z5, M42F	455	11-8
706	Vol. Tone		21	MR53				30-16	1	2N514					6	6A7, 6D6, 6Q7G, 25L6G, 25Z5, M42F	455	11-8
707	Vol. Tone		17	MR48	M26			25	15	BB15					6	6A7, 6D6, 6Q7G, 25L6G, 25Z5, M42F	455	11-8
708	Vol. Tone	3430	18	MR48	M26			5	15	BB12					7	6A7, 6D6, 6Q7G, 25L6G, 25Z5, M42F	455	11-8
709	Vol. Tone	3432	57	MR48				2527	1/15	3N526					7	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5G, 6U5	455	12-7
710	Vol. Tone	3538	18	MR48	M26			2534	1/15	3N526					7	6SK7, 6SA7, 6SQ7, 6K6GT, 6U5/6G5, 6X5GT	455	12-6
711	Vol. Tone	3539	21	MR53											7	24, 27, 345, 80		2-9
AC724	Vol.		40	G12				1.5-3-1	3	See Note	B1				7	24, 27, 345, 80		3-1
724-1	Vol. Tone		6	G7	6		A14	12-8	1	2S563					7	24, 27, 345, 80		3-1
DC727	Vol.		41	L											7	24, 27, 345		3-2
746-7M	Vol.		40	G12											8	335, 227, 224, 47, 80	175	3-3, 4
802, 803	Vol. Tone		6	E7	6		A14	8-8	4	ST595					8	358, 2A7, 2A6, 2A5, 345, 80	456	5-17
804, 805	Vol. Tone		17	N				4-4	5	SS584					8	358, 2A7, 2A6, 2A5, 345, 80	456	5-17
804S, 805A, 805C	Vol. Tone	8515	76	N	6			2282	26	CS133					8	358, 2A7, 2A6, 2A5, 345, 80	456	6-15
	Vol. Tone	3338	76	N				2286	26	HM262					8	358, 2A7, 2A6, 2A5, 345, 80	456	7-9
	Vol. Tone	3338	76	N				2282	26	CS133					8	358, 2A7, 2A6, 2A5, 345, 80	456	7-9
	Vol. Tone	3338	76	N				2286	26	HM262					8	358, 2A7, 2A6, 2A5, 345, 80	456	7-9
	Vol. Tone	3338	76	N				2259	15	BB12					8	358, 2A7, 2A6, 2A5, 345, 80	456	7-9

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
DEWALD—Continued																		
807.....	Vol.		73	MR48				16-16	1	2N506					7	6A7, 6D6, 76, 75, 25L6G, 25Z5, L2F	456	9-8
810.....	Vol. Tone		45	MR48	M26			5, 8-8	15	BB12					8	6A7, 6D6, 76, 607G, 6U5, 6Y6G, 6X5G	456	12-8
811A.....	Vol. Tone		45	N				5, 25	15	BB12/BB15					8	6D6, 6A7, 37, 42, 80	456	5-18
812.....	Vol. Tone		22	H12				8, 8	1	ST595					7	6A7, 6D6, 607G, 25L6G, 6U5, 76, 25Z5, M2F	456	12-5
814, 815, 816, 817..	Vol. Tone		17	MR48				10-10	15	TN111					8	6SA7, 6SK7, 6SQ7, 6K6GT, 6U5, 5Z4	455	12-9, 11,12
	Vol. Tone		21	MR48				30-16	1	2N513					7	6A7, 6D6, 607G, 25L6G, 6U5, 76, 25Z5, M2F	456	12-5
814, 815, 816, 817..	Vol. Tone		124	MR48	M26			5	15	BB15					8	6SA7, 6SK7, 6SQ7, 6K6GT, 6U5, 5Z4	455	12-9, 11,12
	Vol. Tone		22	MR53				16-16	1	2S569					9	6SA7, 6SK7, 6SQ7, 6K6GT, 6U5, 5Z4	455	12-10-12
906, 907, 908.....	Vol. Tone		124	MR48	M26			16-16	1	2S569					9	6SA7, 6SK7, 6SQ7, 6K6GT, 6U5, 5Z4	455	12-10-12
1002, 1003.....	Vol. Tone		22	MR53				2426	1	ST597					10	6K7, 6A7, 6H6, 6J5, 6F6, 6U5, 80	456	9-6
	Vol. Tone		108			See Note	A19	2427	1	ST597					9	6A8, 6K7, 6H6, 6C5, 43, 25Z5, 2600	456	7-11
	Vol. Tone		22	N	6			2428	15	BB13					9	6A8, 6K7, 6H6, 6C5, 43, 25Z5, 2600	456	7-12
1100 (Early).....	Vol. Tone		114	N				20-12	4	2P549					9	6A8, 6K7, 85, 43, 25Z5	456	7-11
	Vol. Tone		114	O				5	15	BB12					9	6A8, 6K7, 85, 43, 25Z5	456	7-12
1100 (Late).....	Vol. Tone		114	N				20-12	4	2P549					9	6A8, 6K7, 85, 43, 25Z5	456	7-11
	Vol. Tone		114	O				8	1	CS133					9	6A8, 6K7, 85, 43, 25Z5	456	7-12
1102-3.....	Vol.		18	MR48				5	13	BD61					9	6K7, 6A8G, 75, 6G5, 25B6, 25Z5, 8664, 8663	456	10-6
	Vol.		18	MR48				40-25-8	11	See Note	B3				9	6K7, 6A8G, 75, 6G5, 25B6, 25Z5, 8664, 8663	456	10-6
1104, 1105.....	Vol. Tone		17			See Note	A19	40	1	RS208					8	6K7, 6A7, 6R7, 25L6G, 6U5, 25Z5	456	9-10
	Vol. Tone		41	MR53				16	1	ST587					8	6K7, 6A7, 6R7, 25L6G, 6U5, 25Z5	456	9-10
1200.....	Vol.		15	MR48				5	15	BB12					8	6A7, 6D6, 76, 75, 25L6G, 25Z5	456	8-6
1201.....	Vol.		108	MR48				16-16	1	2N506					8	6A7, 6D6, 76, 75, 25L6G, D200, D150, D35, 25Z5	456	9-8
	Vol.		108	MR48				5	15	BB11					8	6A7, 6D6, 76, 75, 25L6G, D200, D150, D35, 25Z5	456	9-8
EARL																		
21, 22AC.....	Vol.		13/10	DRP240				1-2-4-1	3	See Note	B1				8	26, 27, 71A, 80		1-2
21DC, 22DC, 24DC, 31DC, 32DC.....	Vol.		13	M				1-4-2-1	3	See Note	B1				9	10A, 71A		1-1,3
31AC, 32AC.....	Vol.		7	K		See Note	A10	1-4-2-1	3	See Note	B1				8	27, 45, 80		1-4
33S-AC.....	Vol.		1/7	DRP308				1-1-4	3	See Note	B1				8	24, 27, 45, 80		1-3
41AC, 42AC.....	Vol.		7	K				1-4-2-1	3	See Note	B1				9	27, 45, 80		1-5
ECHOPHONE																		
F.....	Vol. Tone		6	Y				8	4	RS213					6	24, 45, 80		2-2
S3.....	Vol.		6	H12				2-1	25	See Note	B1				5	24, 45, 80		1-1
4.....	Vol.		6	C12				6790B	4	2S567					4	58, 57, 47, 80		3-12
S4.....	Vol.		3	D12				1-2	25	See Note	B1				6	24, 27, 45, 80		1-4
5.....	Vol. Tone		77	N				8, 8	4	RS213					6	55, 57, 58, 47, 80	175	3-1
S5 (Dynatron).....	Vol. Tone		22	H7				8	4	RS213					7	24, 45, 80	175	1-7
	Vol. Tone		6	H12				8	4	RS213					8	24, 27, 45, 80	175	1-8
S5 (Rev.).....	Vol. Tone		44	Y				8, 8	1	RS213					8	58, 55, 57, 47, 80	175	3-4
10.....	Vol. Tone		77	N				8, 8	1	RS213					8	58, 55, 57, 47, 80	175	3-4
12.....	Vol. Tone		44	Y				8	4	ST595					5	57, 58, 47, 80	175	3-7
	Vol. Tone		6	G7	6	2		4	4	ST595					5	57, 58, 47, 80	175	3-7
14.....	Vol. Tone		77	N				8, 8	4	RS213					6	55, 57, 58, 47, 80	175	3-3
	Vol. Tone		22	Y				8, 8	4	RS213					6	55, 57, 58, 47, 80	175	3-3
15.....	Vol. Tone		77	N				8, 8	1	RS213					8	58, 57, 55, 47, 80	175	3-4
	Vol. Tone		44	Y				8, 8	1	RS213					8	58, 57, 55, 47, 80	175	3-4
16, 17, 18.....	Vol. Tone		77	N				8, 8	1	RS213					8	55, 56, 57, 58, 47, 80	175	3-5
	Vol. Tone		44	Y				8, 8	1	RS213					8	55, 56, 57, 58, 47, 80	175	3-5
20.....	Vol. Tone		77	N				8, 8	4	RS213					8	58, 57, 55, 47, 80	175	3-4
	Vol. Tone		44	Y				8, 8	4	RS213					8	58, 57, 55, 47, 80	175	3-4
35, 36.....	Vol. Tone		15	UM154		See Note	A96	8, 8	1	RS213					12	55, 56, 57, 58, 46, 80	175	3-9,11
	Vol. Tone		22	N				8	12	RS213					12	55, 56, 57, 58, 46, 80	175	3-9,11
38.....	Vol. Sen.		1	M100P				8-4	4	See Note	B3				5	57, 58, 47, 80	175	3-7
40 Echoette.....	Vol.		6	G7	6	2		8-1	4	See Note	B3				4	24, 35, 47, 80		2-3
44.....	Vol.		6	Y				6790B	4	2S567					4	58, 57, 47, 80		3-12
50.....	Vol. Tone		6	H7				8, 8	4	RS213					6	24, 27, 35, 47, 80	175	3-13
	Vol. Tone		22	Y				8, 8	4	RS213					6	24, 27, 35, 47, 80	175	3-13
60.....	Vol. Tone		6	Y				8, 8	4	RS213					7	24, 27, 35, 47, 80	175	2-4
	Vol. Tone		22	Y	6			8, 8	4	RS213					7	24, 27, 35, 47, 80	175	2-4
70DC.....	Vol. Tone		6	Y	6			6	1	2N506	B11				8	37, 39, 71A	175	3-16
	Vol. Tone		22	Y	6			6	1	2N506	B11				8	37, 39, 71A	175	3-16
80.....	Vol. Tone		6	Y	6			8	1	RS213					8	24, 27, 35, 47, 80	175	2-5
	Vol. Tone		22	Y	6			4	1	ST595					8	24, 27, 35, 47, 80	175	2-5

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ECHOPHONE—Cont																		
81.....	inued		15	N.....	6			8, 8.....	4	RS213.....				8	24, 27, 35, 47, 80.....	175	3-18	
90.....	Vol.		22	Y.....	6	EX200		8.....	1	RS213.....				8	24, 27, 35, 47, 80.....	175	2-7	
90 (Rev.).....	Vol.		22	Y.....	6			12.....	1	RS215.....				8	24, 27, 35, 47, 80.....	175	3-17	
110.....	Vol.		22	H7.....	2			12.....	1	RS215.....				8	24, 27, 35, 47, 80.....	175	3-17	
111.....	Vol.		7	UC509.....	6			8.....	1	RS213.....				4	78, 77, 38, 12Z3.....			
119.....	Vol.	256	18	UC509.....	6	EX350		12-5.....	24	2N504.....				4	78, 77, 38, 12Z3.....		5-1	
124.....	Vol.	306	22	N.....				10-10.....	15	TN111.....				5	2A7, 58, 2A6, 2A5, 80.....	456	5-2	
126.....	Vol.		18	K12.....	6			8-4.....	15	See Note.....	B3			7	56, 57, 58, 2A6, 2A5, 80.....	456	5-3	
128.....	Vol.		22	N.....				8-4.....	15	See Note.....	B3			5	2A7, 58, 2A6, 2A5, 80.....	456	5-3	
139, 139C.....	Vol.		18	K12.....	6			10.....	1	See Note.....	B3			6	6A7, 6D6, 75, 42, 80.....	456	6-1	
143.....	Vol.	452	18	UC509.....	6	See Note	te A14	5-12-5.....	8	UR182.....				5	2A7, 58, 2A6, 2A5, 80.....	456	5-1	
180.....	Vol.		18	N.....	6			10.....	15	BB12.....				6	6A7, 6D6, 75, 42, 80.....	456	6-1	
1731.....	Vol.		22	K12.....	6	See Note	te A5	8-8.....	15	See Note.....	B3			5	2A7, 58, 2A6, 2A5, 80.....	456	5-4	
1734, 1734A.....	Vol.		18	N.....	6			10.....	1	BB13.....				5	2A7, 58, 2A6, 2A5, 80.....	456	5-4	
1800.....	Vol.		6	SRP263.....		See Note	te A14	156.....	15	2N518.....				5	2A7, 58, 2A6, 2A5, 80.....	456	5-4	
7110.....	Vol.		7	UC509.....		See Note	te A14	307.....	15	BB12.....				5	58, 2A7, 2A6, 2A5, 80.....	456	5-3	
7114.....	Vol.		6	SRP263.....		See Note	te A14	16.....	11	BB34.....				5	2A7, 58, 2A6, 2A5, 80.....	456	5-3	
7124.....	Vol.		18	N.....				8.....	11	BB31.....				5	58, 2A7, 2A6, 2A5, 80.....	456	5-3	
7126.....	Vol.		22	K12.....		See Note	te A14	8-4.....	1	See Note.....	B3			5	2A7, 58, 2A6, 2A5, 80.....	456	5-3	
7127.....	Vol.		7	UC509.....		See Note	te A14	8-4.....	1	See Note.....	B3			5	58, 2A7, 2A6, 2A5, 80.....	456	5-3	
	Vol.		18	N.....				10.....	15	BB12.....				5	58, 2A7, 2A6, 2A5, 80.....	456	5-3	
	Vol.		22	K12.....				10.....	15	BB13.....				5	58, 2A7, 2A6, 2A5, 80.....	456	5-3	
EDISON-BELL																		
36.....	Vol.		12	G.....	6			8, 8.....	4	ST595.....				6	24A, 258, 247, 80.....		5-1	
53.....	Vol.		22	K12.....	6	EX200		16-8.....	6	2N504.....				5	6C6, 6D6, 43, 25Z5.....	175	5-1	
53LW.....	Vol.		6	SRP263.....	6	EX200		4-4.....	15	TN111.....				5	6A7, 6D6, 6C6, 43, 25Z5.....	115	5-2	
55AW.....	Vol.		6	SRP263.....	6	EX200		16-8.....	6	2N504.....				5	6A7, 6D6, 75, 43, 25Z5.....	456	5-3	
63.....	Vol.		17	N.....	6			2-4.....	15	TN111.....				5	6A7, 6D6, 75, 43, 25Z5.....	456	5-3	
63LW.....	Vol.		18	N.....	6			16-16.....	1	2N506.....				6	37, 6A7, 6D6, 75, 43, 25Z5.....	175	5-4	
66AW.....	Vol.		18	N.....	6			4-4.....	1/15	2N500.....				6	6D6, 6A7, 75, 43, 25Z5.....	115	5-5	
	Vol.		18	N.....	6			16-16.....	8	2N506.....				6	6D6, 6A7, 75, 43, 25Z5.....	115	5-5	
	Vol.		17	N.....	6			4-4.....	8/15	2N500.....				6	6D6, 6A7, 75, 43, 25Z5.....	456	5-6	
	Vol.		17	N.....	6			16-16-8-4-4.....	11	See Note.....	B3			6	6D6, 6A7, 75, 43, 25Z5.....	456	5-6	
THOMAS A. EDISON																		
C1 (SC).....	Vol.		10	SRP277.....		(Rear) A35		2.5-2.5-2.5.....	28	See Note.....	B2			9	26, 27, 35, 81.....		1-1,5	
C2, R1, R2 (Jr., Jr., 25 Cy.).....	Regen.		10	SRP276.....		(Front) A35		2-1.....	4	See Note.....	B1			7	26, 27, 50, 81.....		1-4	
C2, R1, R2, (Jr., Jr., 60 Cy.).....	Vol.		10	SRP277.....		(Rear) A35		2-1.....	4	See Note.....	B2			7	26, 27, 50, 81.....		1-5	
C4, R4, R5 (Chassis 7-R).....	Regen.		10	SRP276.....		(Front) A35		2-1.....	4	See Note.....	B1			7	26, 27, 50, 81.....		1-5	
R4, R5, (DC).....	Vol.	200265	24	DRP306.....				2-2-1.....	3	See Note.....	B1			8	27, 345, 80.....		1-7,8	
R6, R7, (Splittorf) M5.....	Vol.	200478	20	TRP607.....				1-2-2.....	1	See Note.....	B11			9	27, 471A.....		3-1	
(Splittorf) M6.....	Vol.		10	SRP277.....		(Rear) A35		1.5-1-1.5.....	3	See Note.....	B1			9	24, 27, 345, 80.....		1-10	
(Splittorf) E-175.....	Regen.		10	SRP276.....		(Front) A35		2-1.....	4	See Note.....	B1			7	26, 27, 50, 81.....			
(Splittorf) PAD4.....	Vol.		10	SRP277.....		(Rear) A35		2.5-2.5-2.5.....	28	See Note.....	B2			9	26, 27, 35, 81.....			
	Vol.		10	SRP276.....		(Front) A35		2-1.....	4	See Note.....	B1			7	26, 27, 71A, 80.....		1-13	
	Vol.		10	SRP276.....		See Note	te A36	2-1.....	1	See Note.....	B1			7	26, 27, 50, 81.....		56-31	
	Vol.		10	SRP276.....		See Note	te A36	2-1.....	4	See Note.....	B2			7	26, 27, 50, 81.....		56-31	
EILEN RADIO LABS.																		
5 Tube.....	Reg. Sen.		12	L.....				8-8.....	4	2S367.....				5	6D6, 6C6, 76, 42, 84.....			
ELEC. AUTO LITE																		
No. 11, 062A, 3622A.....	Vol.		7	UC510.....				4.....	15	BB11.....		205	C3	6	35, 24, 27, 71A.....	262	4-1	
	Vol.		45	N.....				4.....	15	BB11.....		205	C3	6	39, 36, 37, 41.....	262	4-1	
	Tone		21	L.....				4.....	15	BB11.....		205	C3	6	39, 36, 37, 41.....	262	4-1	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ELEC. AUTO LITE 072A 3722A	Continued		18	N				4	12	CS133			210		7	39, 36, 37, 41	262	4-2
82	Vol. Tone		44	L				4	15	BB11					7	36, 37, 27, 47		
	Vol. Tone		15	MR18				10	19	BB12								
	Vol. Tone		21	MR48														
E & A (Electric & Auto 4M)	Automotive Vol.	Products Co.)	6	SRP263	6			16-8	1	2N504					4	78, 77, 38, 12Z3		6-1
IL-5	Vol.		6	SRP263		EX500		5-5	15	TN111					5	6A7, 78, 77, 43, 25Z5	125	6-3
6AW	Vol.		17	N				5-5	15	TN111					6	78, 6A7, 75, 42, 80	456	6-4
SW-6	Vol.		18	N				8-8	1	2N518					6	2A7, 58, 2A6, 2A5, 80	456	6-2
25AW	Vol.		17	N				5-5	15	BB11					5	6A7, 78, 75, 42, 80	456	6-1
30AW	Vol.		17	N				8-8	1	2N518					5	6A7, 78, 75, 42, 80	456	6-1
35AW	Vol.		17	N				5-5	15	TN111					6	78, 6A7, 75, 43, 25Z5	456	6-3
1L55LW	Vol.		6	SRP263		EX500		10-25	1	2N512					6	78, 6A7, 75, 43, 25Z5	456	6-3
303	Vol.		6	SRP263		EX500		5-5	15	TN111					6	78, 6A7, 75, 42, 80	456	6-4
303LW	Vol.		6	SRP263		EX500		5-5	15	TN111					5	6A7, 78, 77, 43, 25Z5	125	6-3
303SW	Vol.		6	SRP263		EX500		5-5	15	UR182					5	6A7, 78, 77, 43, 25Z5	125	6-3
405	Vol.		6	SRP263		EX500		10	1	BB22					3	6A7, 6F7, 12A7	456	6-4,5
405LW	Vol.		6	SRP263		EX500		5-5	15	BB22					3	6A7, 6F7, 12A7	456	6-5
			6	SRP263		EX500		10	1	TN111					3	6A7, 6F7, 12A7	456	6-5
			6	SRP263		EX500		5-5	15	TN111					3	6A7, 6F7, 12A7	456	6-5
			6	SRP263		EX500		10-10	6	2N506					4	6A7, 6F7, 43, 12Z3	456	6-6
			6	SRP263		EX500		5-5	15	TN111					4	6A7, 6F7, 43, 12Z3	456	6-6
			6	SRP263		EX500		10-10	6	2N506					4	6A7, 6F7, 43, 12Z3	456	6-6
			6	SRP263		EX500		5-5	15	TN111					4	6A7, 6F7, 43, 12Z3	456	6-6
ELECTRICAL RESE	ARCH L	ABS.—See "Erla"																
ELECTRONIC 331								8-8-20	1	UR190	B97	430	292	C3		84		4-2
332 32V								.02-.02		Buffer	B14							
								8-8-25	1/19	UR190	B97	530	F221	C3	25Z5			4-2
								.02-.02		Buffer	B14							
EL-REY 4 Tube Midget	Vol. Tone		6	SRP263	6	EX200		4-4	23	CM172					4	58, 57, 47, 80		§5-14
7 Tube AW	Vol. Sen. Tone		22	Y				8-8	1	See Note	B3				7	55, 56, 57, 58, 2A5, 80	262.5	6-2
	Vol. Sen. Tone		7	C	6			10	15	BB12								
10, 15	Vol. Tone		22	Y				4-4	23	CM172					4	58, 57, 47, 80		6-1
20	Vol. Tone		22	Y		See Note A4		4-4	23	CM172					4	58, 57, 47, 80		6-1
644	Vol. Tone		17	M	6			1-8	4	See Note	B3				6	57, 58, 59, 55, 80, 56	465	6-1
	Vol. Tone		22	Y				25	15	BB15					6	6A7, 6D6, 75, 42, 80	465	6-3
845	Vol. Tone		83	N	6			8-8	23	See Note	B3				6	6A7, 6D6, 75, 42, 80	465	6-3
	Vol. Tone		44	Y				8-8	1	See Note	B3				8	55, 56, 57, 58, 2A5, 5Z3	465	6-4
ELEC. SPEC. EXPO R502	RT COR	P. "Stratfield"	6	G12	6	2		20-20	6	UR192					5	6A7, 6D6, 75, 43, 25Z5	456	5-4
38	Vol.		6	UC509	6	EX250		10-10	15	TN111					4	6D6, 6C6, 38, 12Z3	456	5-1
45	Vol.		6	M				8	24	BB21					4	6D6, 6C6, 43, 25Z5		5-2
48	Vol.		6	M				10	15	BB12					4	6D6, 6C6, 38, 25Z5		5-1
69	Vol.		6	G12	6	EX200		8-12-10-10	6/15	See Note	B5				4	6D6, 6C6, 38, 25Z5		5-1
			6	G12	6	EX200		16-12-10-10	1/15	48715					6	6A7, 6D6, 85, 443, 25Z5	456	5-3
			6	G12	6	EX200		20-20	1	UR192					6	6A7, 6D6, 85, 443, 25Z5	456	5-3
			6	G12	6	EX200		10	15	BB12					6	6A7, 6D6, 85, 443, 25Z5	456	5-3
EMERSON A130, A132 (type 1) up to 799, 301	Vol.	TTR159E	6	E12	6	EX500		3CC261	6	RS207					5	6A7, 6D6, 76, 43, 25Z5	456	7-31,32
A130, A132 (type 2) 799, 301 to 819, 200	Vol.	TTR159E	6	E12	6	EX500		KKC145	15	TN111					5	6A7, 6D6, 75, 43, 25Z5	456	7-31,32
A130, A132 (type 3) 819, 201 up	Vol.	3FR256	18	MR48	M26			3CC261	6	RS207					5	6A7, 6D6, 75, 43, 25Z5	456	7-31,32
AA131 (chassis AA) below 1,266,501	Vol.	2NR214C	18	MR44	M26			KKC145	15	TN111					5	6A7, 6D6, 75, 43, 25Z5	456	7-31,32
AA131 (chassis AA) above 1,266,501	Vol.	2NR214C	18	MR44	M26			3CC261	25	RS207					5	6A7, 6D6, 75, 43, 25Z5	456	8-15
			18	MR44	M26			YC98A	13	BB20					5	6A7, 6D6, 75, 43, 25Z5	456	8-15
			18	MR44	M26			3CC261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-15
			18	MR44	M26			3CC337	1	RS208					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-15

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
EMERSON—Continued																		
AB178 (below 1,373,394)	Vol. Tone	3XR287 3XR277	18 1	TM226-SS1 N		6		3XC329 YC98A IC43A	1 13 15	WE3050 BB20 BB12				14	6K7, 6A8, 7C5, 7F6, 780	456	9-25	
AB178 (above 1,373,394)	Vol. Tone	3XR287 3XR277	18 1	TM226-SS1 N		6		3XC329 YC98A IC43A	1 13 15	WE3050 BB20 BB12				14	6K7, 6A8, 7J5, 7F6, 780	456	9-25	
AB182 & AB183 (below 1,373,394)	Vol. Tone	3XR287 3XR277	18 1	TM226-SS1 N		6		3XC329 YC98A IC43A	1 13 15	WE3050 BB20 BB12				14	6K7, 6A8, 7C5, 7F6, 780	456	9-25	
AB182 & AB183 (above 1,373,394)	Vol. Tone	3XR287 3XR277	18 1	TM226-SS1 N		6		3XC329 YC98A IC43A	1 13 15	WE3050 BB20 BB12				14	6K7, 6A8, 7J5, 7F6, 780	456	9-25	
AB184 (AB)	Vol. Tone	3XR287 3XR277	18 127	TM226-SS1 N		6	See Note A19	3XC-329 YC-98A IC-43A	1 13 15	WE3050 BB20 BB12				14	6K7, 6A8, 7J5, 7F6, 780	456	9-21	
AC130	Vol.	3FR265B	18	MR44	M26			3RC318A	23	2S567				5	6A7, 6D6, 6Q7 or 75, 41, 80	456	8-9,10	
AC149	Vol.	3FR265B	18	MR44	M26			3RC318A	23	2S567				5	6A7, 6D6, 6Q7, 41, 80	456	8-9,10	
AC168	Vol.	3FR265B	18	MR44	M26			3RC-318A	23	2S567				5	6A7, 6D6, 6Q7, 41, 80	456	8-9,10	
AC202 (AC)	Vol. Tone	3FR256B 4LR312A	18 114	MR48 MR48	M26 M26			3RC-318A	23	2S567				5	6A7, 6D6, 6Q7G, 41, 80	455	9-45,46	
AD108	Vol.	2DR169A	18	MR48	M26			4DC345	1	2N506				5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-1,2	
AD110	Vol.	2DR169A	18	MR48	M26			4DC345	1	2N506				5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-1,2	
AD125	Vol.	2DR169A	18	MR48	M26			4DC345	1	2N506				5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-1,2	
AE163 (chassis AE)	Vol.	ZZR190A	18	MR48	M26			3CC261	1	RS207				5	6A7, 6D6, 6Q7G, 25L6, 25Z5	456	8-37	
AF171, AF173, AF176, AF179, AF180, AF185	Vol.	4FR301	18	MR48	M23			VVC221	12	BB21				6	1A4, 1C6, 1B5, 1F4, 1E1	456	8-45	
AG151 (chassis AG)	Vol. Tone	3MR252 3MR251	18 44	MR44 MR39				3MC290 3MC291 3MC292 KKC145	1 1 13 15	RS208 RS208 ST585 TN111				9	6K7, 6A8, 6D6, 6Q7G, 6C5, 25L6, 25Z5	456	8-29	
AH162 (AII)	Vol.	3ZR288	18	MR48	M26			4IC348 IC43A	1 15	2N509 BB12				5	6A7, 6D6, 6Q7G, 25L6, 25Z5	456	8-35	
AH166, 171, 173, 174, 176, 180, 185 (AH)	Vol. Vol.	2NR2140 3ZR288	18 18	MR44 MR48	M26 M26		A27	4IC-348A IC-43A	1 15	2N509 BB12				5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG	455	9-3	
AJ130, AJ137, AJ149	Vol.	3IIR240	18	MR48	M27			VVC221A	13	BB21				5	1C6, 1A4, 1B5, 30, 1F4	456	8-11	
AL130, AL132, AL149	Vol.	3FR256	18	MR48	M26			3CC261	1	RS207				5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-13	
AL164	Vol. Tone	3FR256 4LR312	18 1	N MR48	6 M26			3CC261	1	RS207				5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-39	
AL168	Vol.	3FR256	18	MR48	M26			3CC261	1	RS207				5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-13	
AL202 (AL)	Vol. Tone	3FR256 4LR312A	18 1	MR48 MR48	M26 M26		A4	3CC-261	1	RS207				5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	9-11	
ALLW130, ALLW132, ALLW149, ALLW168	Vol.	3FR256	18	MR48	M26			3CC261 IC43A	1 15	RS207 BB12				5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-13	
AM131	Vol.	2NR214C	18	MR44	M26			3CC261 3CC337	1 1	RS207 RS208				5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	9-1	
AM153 (AM)	Vol.	3FR256B	18	MR48	M26			3CC-261 3CC-337	1 1	RS207 RS208				5	6A7, 6D6, 6Q7, 25L6, 25Z5, 2UR-224	456	9-1	
AM169 (AM)	Vol.	3FR256B	18	MR48	M26			3CC-261 3CC-337	1 1	RS207 RS208				5	6A7, 6D6, 6Q7, 25L6, 25Z5, 2UR-224	456	9-1	
AM187 (AM)	Vol.	2NR214C	18	MR48	M26			3CC-261 3CC-337	1 1	RS207 RS208				5	6A7, 6D6, 6Q7, 25L6, 25Z5, 2UR-224	456	9-1	
AP165, AP166 (AP)	Vol.	2NR214D	18	MR44	M26			3CC-261 3CC-337	1 1	RS207 RS208				5	6A7, 6D6, 6Q7, 25L6, 25Z5, 3CR-241	456	9-13	
AP171, AP173, AP174, AP176 (chassis AP)	Vol.	2NR214D	18	MR44	M26			3CC261 3CC337	1 1	RS207 RS208				5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	8-47	
AP177 (AP)	Vol.	2NR214D	18	MR44	M26			3CC-261 3CC-337	1 1	RS207 RS208				5	6A7, 6D6, 6Q7, 25L6, 25Z5, 3CR-241	456	9-13	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
EMERSON—Continued																		
AP180, AP185 (AP)	Vol.	2NR214D	18	MR44	M26		3CC-261 3CC-337	1 1	RS207 RS208					5	6A7, 6D6, 6Q7, 25L6, 25Z5, 3CR-241	456	8-47	
AR165 (below 1,326,200)	Vol.	3ZR288	45	MR48	M26		3LC314 3ZC341	23 23	ST596 2S568		B8			6	6A7, 6D6, 76, 41, 80	456	9-15	
AR165 (above 1,326,200)	Vol.	3ZR288	18	MR48	M26		3LC314 3ZC341	25 25	ST596 2S568		B8			6	6A7, 6D6, 6Q7, 741, 80	456	9-15	
AR165 (Between 1412601-1413601 above 1416650)	Vol.		15	MR44	M26		3LC314 3ZC-341	25 25	ST596 2S568		B8			6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-16	
AR166 (below 1,326,200)	Vol.	3ZR288	45	MR48	M26		2NC246 2NC247	23 23	RS216 WE1650					6	6A7, 6D6, 76, 41, 80	456	9-16	
AR166 (above 1,326,200)	Vol.	3ZR288	18	MR48	M26		2NC246 2NC247	25 25	RS216 WE1650					6	6A7, 6D6, 6Q7, 741, 80	456	9-16	
AR166 (Between 1412601-1413601 above 1416650)	Vol.		15	MR44	M26		2NC-246 2NC-247	25 25	RS216 WE1650					6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-16	
AR171, AR173 (Below 1326000)	Vol.	3ZR288	45	MR48	M26		2NC-246 2NC-247	23 23	RS216 WE1650					6	6A7, 6D6, 76, 41, 80	456	8-41,44	
AR171, AR173 (Above 1326000)	Vol.	3ZR288	18	MR48	M26		2NC-246 2NC-247	25 25	RS216 WE1650					6	6A7, 6D6, 6Q7, 741, 80	456	9-18	
AR171, AR173 (Between 1412601 and 1413601 above 1416650)	Vol.	3ZR288	18	MR48	M26		2NC-246 2NC-247	25 25	RS216 WE1650					6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-16	
AR174 (Below 1,326,000)	Vol.	3ZR288	45	MR48	M26		3LC-314 3ZC-341	23 23	ST596 2S568		B8			6	6A7, 6D6, 76, 41, 80	456	8-41,44	
AR174 (Above 1,326,000)	Vol.	3ZR288	18	MR48	M26		3LC-314 3ZC-341	25 25	ST596 2S568		B8			6	6A7, 6D6, 6Q7, 741, 80	456	9-18	
AR174 (Between 1412601 and 1413601 above 1416650)	Vol.	3ZR288	18	MR48	M26		3LC-314 3ZC-341	25 25	ST596 2S568		B8			6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-16	
AR176 (Below 1326000)	Vol.	3ZR288	45	MR48	M26		2NC-246 2NC-247	23 23	RS216 WE1650					6	6A7, 6D6, 76, 41, 80	456	8-41,44	
AR176 (Above 1326000)	Vol.	3ZR288	18	MR48	M26		2NC-246 2NC-247	25 25	RS216 WE1650					6	6A7, 6D6, 76, 41, 80	456	9-18	
AR176 (Between 1412601 and 1413601 above 1416650)	Vol.	3ZR288	18	MR48	M26		2NC-246 2NC-247	25 25	RS216 WE1650					6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-16	
AR177 (below 1,326,200)	Vol.	3ZR288	45	MR48	M26		2NC246 2NC247	23 23	RS216 WE1650					6	6A7, 6D6, 76, 41, 80	456	9-16	
AR177 (above 1,326,200)	Vol.	3ZR288	18	MR48	M26		2NC246 2NC247	25 25	RS216 WE1650					6	6A7, 6D6, 6Q7, 741, 80	456	9-16	
AR177 (Between 1412601-1413601 above 1416650)	Vol.	3ZR288	15	MR48	M26		2NC-246 2NC-247	25 25	RS216 WE1650					6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-16	
AR180, AR185 (Below 1326000)	Vol.	3ZR288	45	MR48	M26		2NC-246 2NC-247	23 23	RS216 WE1650					6	6A7, 6D6, 76, 41, 80	456	8-41,44	
AR180, AR185 (Above 1326000)	Vol.	3ZR288	18	MR48	M26		2NC-246 2NC-247	25 25	RS216 WE1650					6	6A7, 6D6, 6Q7, 741, 80	456	9-18	
AR180, AR185 (Between 1412601- 1413601 above 1416650)	Vol.	3ZR288	18	MR48	M26		2NC-246 2NC-247	25 25	RS216 WE1650					6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-16	
AS179	Vol.	3HR240	18	MR48	M26		4SC355 .02-.02	1	2S568 Buffer			4SV11	294	C3	5	6D8G, 76S7G, 6Q7, 41	456	8-49
AT170, AT172, AT181 (AT) (Below 1386551)	Vol.	4TR303	18	MR48	M26		2NC-246 2NC-247	23 23	RS216 WE1650					6	6A7, 6D6, 6Q7G, 76, 41, 80	456	8-41	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
EMERSON—Continued AT170, AT171, AT181 (AT) (Above 1386551)	Vol.	4TR303	18	MR48	M26			2NC-246	25	RS216					6	6A7, 6D6, 6Q7, 41, 80	456	9-18
AU190 (AU)	Vol.	3FR256A	18	MR48	M26			2NC-247	25	WE1650					5	6A7, 6D6, 6Q7, 25L6, 25Z5	456	9-27-28
AV193 (AV)	Vol.	3FR256B	18	MR48	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7, 25L6G, 25Z5, L491	455	9-29
AW171, 173, 174, 176, 180, 185, (AW)	Vol.	3ZR288	18	MR48	M26			2NC-246	25	RS216					6	6A7, 6D6, 6Q7G, 41, 80	456	9-19
AX211, 212, 217, 219 (AX)	Vol. Tone	4XR328A 4LR312B	18 1	MR44 MR48	M26 M26			4HC-348B	1	2N509					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	9-51
AX221 AC, AX221 AC-DC, AC222 (Ch. AX)	Vol. Phono.	4XR355 4LR312B	18 1	MR44 MR48	M26 M26			4HC-348B 4XC-404	46 46	2N509 BB25					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	10-9
AX232 AC, AX232 AC-DC (Ch. AX)	Vol. Tone	4XR335 4XR342	18 57	MR44 MR48	M26 M26			4HC-348B 4XC-404	46 46	2N509 BB25					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	10-9
AX240 (Ch. AX)	Vol.	4XR335 4XR342	18 18	MR44 MR44	M26 M26			4HC-348B 4XC-404	46 46	2N509 BB25					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	10-17
AXLW211, AXLW212	Vol.		18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-5
AXLW217	Vol.		18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-5
AXLW235	Vol.		18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-5
AXLW237, AXLW238, AXLW239	Vol.		18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-5
AXLW257	Vol.		18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-5
AY194, 195 (AY)	Vol.	3ZR288	18	MR48	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5, 3CR-241	456	9-33
AZ196 (AZ)	Vol.	3XR277	18	MR48	M26			4ZC-379	25	WE1650					6	6A7, 6D6, 6Q7, 76, 6AC5G, 80	456	9-35
B-AC-10	Vol. Tone Supp.	ER17 ER18 ER24	18 44 3	N G12 E12		6		EC17	1	ST596					10	58, 55, 56, 57, 46, 82	175	3-7
B131	Vol.	2NR214C	18	MR44	M26			3CC-261	25	RS207					5	6A7, 6D6, 75, 43, 25Z5	456	7-33
BA199, BA201 (BA)	Vol.	2VR219D	6	Z12		6		YC98A	13	BB20					4	6D6, 6C6, 25L6, 25Z5, L55BG		9-31
BB208, BB209 (BB)	Vol.	2VR219F	6	MR46	M26			4DC-345A	1	2N506					4	6D6, 6C6, 25L6, 25Z5, L55BG		9-40
BD197 (BD)	Vol.	3ZR288	18	MR48	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5, 3CR-241	456	9-33
BE198 (BE)	Vol.	3FR256B	18	MR48	M26			3RC-318A	23	2S567					5	6A7, 6D6, 6Q7, 41, 80	456	9-37-39
BF191 (BF)	Vol.	3FR256B	18	MR48	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7, 25L6, 25Z5, 2UR-224	456	9-1
BG138, 140, 142, 146 (BG)	Vol.	3PR258	18	MR44	M26			4HC-348A	1	2N509					6	6A7, 6D6, 6Q7G, 25L6G, 25Z5, 6G5, L49BG	455	9-3
BG173, 182, 183 (BG)	Vol.	3PR258	18	MR44	M26			4HC-348A	1	2N509					6	6A7, 6D6, 6Q7G, 25L6G, 25Z5, 6G5, L49BG	455	9-3
BJ200, 210, 214 (BJ)	Vol.	3FR256B	18	MR48	M26			3CC-261	1	RS207					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	455	9-41
BJ218 (Ch. BJ)	Vol. Phono.		18 63	MR48 MR48	M26 M26			20-20	46 46	2N509 BB25					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG	455	10-7
BJ220 (Ch. BJ)	Vol. Phono.		18 63	MR48 MR48	M26 M26			20-20	46 46	2N509 BB25					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG	455	10-7
BL200, 210, 214 (BL)	Vol.	3FR256B	18	MR48	M26			3RC-318A	23	2S567					5	6A7, 6D6, 6Q7G, 41, 80	455	9-43

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
BL218 (Ch. BL)...	Vol.		18	MR48	M26			5-5-8	56	See Note	B3				5	6A7, 6D6, 6Q7G, 41, 80	455	10-8
BL220 (Ch. BL)...	Phono.		63	MR48	M26			5-5-8	56	See Note	B3				6	6A7, 6D6, 6Q7G, 41, 80	455	10-8
BM206, 215, 216, BN206 215 (BM, BN)...	Vol.	2VR219E	6	MR36	M26			4DC-345A	1	2N506					4	6D6, 6C6, 25L6, 25Z5, L55BG		9-47
BN216 (BN)...	Phono.	2VR219H	1	MR36	M26			4DC-345A	1	2N506					4	6D6, 6C6, 25L6G, 25Z5, L55BG		9-50
BQ223 (Ch. BQ)...	Vol.	2VR219G	6	MR36	M26			16-16	25	See Note	B3				6	6K8, 6K7, 6Q7G, 76, 6AC5G, 80	455	10-11
BQ225, 228 (BQ)...	Phono.	2VR219H	1	MR36	M26			16-16	25	See Note	B3				6	6K8, 6K7, 6Q7G, 76, 6AC5G, 80	455	10-11
BR224, BR244A (Ch. BR)...	Vol.	3XR277	18	MR48	M26			4ZC-379, 4ZC-380	25, 25	WE1650, WE1830					6	6K8, 6K7, 6Q7G, 76, 6AC5G, 80	455	9-53
BR226 (BR)...	Vol.		18	TM226-SS1				30, 30	1	WE3050	B3				13	6K7, 6K8, 6Q7, 6J5, 6AC5G, 80	455	10-13-16
BS227 (BS)...	Tone	3XR287	18	MR48	M26			40	13	WE4030	B3				13	6K7, 6K8, 6Q7, 6J5, 6AC5G, 80	455	9-55
BT245 (Ch. BT)...	Vol.	3XR277	21	MR48	M26			3XC-329	1	WE3050					15	6K7, 6K8, 6Q7, 6J5, 6AC5G, 80	455	9-55
BU229, 230 (BU)...	Vol.	3XR287	18	TM226-SS1				3SC-303	13	WE4050					15	6K7, 6K8, 6Q7, 6J5, 6AC5G, 80	455	9-55
BW231 (BW)...	Vol.	3XR277	21	MR48	M26			3XC-329	1	WE3050					15	6K7, 6K8, 6Q7, 6J5, 6AC5G, 80	455	9-55
BX208, BX209 (Ch. BX)...	Vol.	3XR287	18	TM226-SS1				3SC-303	13	WE4050					15	6K7, 6K8, 6Q7, 6J5, 6AC5G, 80	455	9-55
BY233 (BY)...	Tone	3XR277	21	MR48	M26			3SC-303	13	WE4050					15	6K7, 6K8, 6Q7, 6J5, 6AC5G, 80	455	9-55
CS...	Vol.	2NR214	18	MR44	M26			4HC-348D	1	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG	455	10-21
C134, C136, C138, C139, C140, C142	Vol.	3XR277	18	MR48	M26			4ZC-379, 4ZC-380	23, 23	WE1650, WE1830					7	6K8, 6K7, 6Q7G, 76, 6AC5G, 6U5, 80	455	9-53
CA208, CA209 (Ch. CA)...	Vol.	3XR277	18	MR48	M26			4ZC-379, 4ZC-380	23, 23	WE1650, WE1830					6	6K8, 6K7, 6Q7G, 76, 6AC5G, 80	455	9-53
CA234 (Ch. CA)...	Vol.	2NR214E	6	MR36	M26			16, 16	1	2N509					4	6D6, 6C6, 25L6G, 25Z5, L55BG		10-2
CB243 (Ch. CB)...	Vol.	2NR214E	18	MR44	M26			4HC-348B	1	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG	455	9-48
CD206 (Ch. CD)...	Vol.	R102	6	G7	6	3		A-404	4	BB60				5	24, 35, 47, 80	175	3-4	
CD215 (Ch. CD)...	Vol.	NNR157B	18	MR48				3BC282	4	RS215					8	6K7, 6A8, 6R7, 6G5, 6C5-6J7, 6F6-6L6, 5W4	456	7-35,36
CE259, CE260, CE263 (Ch. CE)...	Tone	NNR157B	1	MR48				3BC289	4	WE4050					8	6K7, 6A8, 6R7, 6G5, 6C5-6J7, 6F6-6L6, 5W4	456	7-35,36
CF255 (Ch. CF)...	Vol.	2NR214F	18	MR44	M26			3BC281	14	BB31					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG	455	10-3,4
CG268, CG270, CG272, CG276 (Chassis CG)...	Vol.	2NR214F	18	MR44	M26			4HC-348A	1	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG	455	10-3,4
CG293, CG294...	Vol.	2NR214F	18	MR44	M26			4HC-348A	1	2N509					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, L49BG	455	10-3,4
CG318...	Vol.	3XR277	18	MR48	M26			4ZC-379	25	WE1650					8	6K7, 6K8, 6Q7G, 76, 6AC5G, 6U5, 80	455	10-19
CG1-293, CG1-294...	Vol.	3XR277	18	MR48	M26			4ZC-380	25	WE1830					8	6K7, 6K8, 6Q7G, 76, 6AC5G, 6U5, 80	455	10-19
CH243 (Ch. CH)...	Vol.	2VR219E	6	MR36	M26			4DC-345A	1	2N506					4	6D6, 6C6, 25L6G, 25Z5, L55BG		10-1
CH246 (Ch. CH)...	Vol.	2VR219E	6	MR36	M26			4DC-345A	1	2N506					4	6D6, 6C6, 25L6G, 25Z5, L55BG		10-1
CH256 (Ch. CH)...	Vol.	3IIR240B	18	N	7			6EC-414	12	BB21					5	1A7G, 2N5G, 1H5G, 1C5G or 1Q5G	455	10-25
	Vol.	6FR346	6	MR36	M26	EX200		4HC-348B	24	2N509					2	12B8GT, 32L7GT		10-23
	Vol.	6SR362	18	MR48	M26			6JC426U	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, L19BG	455	11-11,12
	Vol.	6GR352	18	MR44	M26		A4	6JC426U	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, L19BG	455	11-11,12
	Vol.	6SR362	18	MR48	M26			6QC437	1	2N514					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, L19BG	455	11-19,20
	Vol.	6GR352	18	MR44	M26		A4	6QC437	1	2N514					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, L19BG	455	11-11,12
	Vol.	6SR362	18	MR48	M26			6JC426U	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, L19BG	455	11-19,20
	Vol.	6GR352	18	MR44	M26		A4	6JC426U	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, L19BG	455	11-11,12
	Vol.	6SR362	18	MR48	M26			6QC437	1	2N514					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, L19BG	455	11-11,12
	Vol.	6GR352	18	MR44	M26		A4	6QC437	1	2N514					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, L19BG	455	11-11,12
	Vol.	3XR277	18	MR48	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	11-19,20
	Vol.	3XR277	18	MR48	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-18
	Vol.	3XR277	18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-18
	Vol.	3XR277	18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-18
	Vol.	3XR277	18	MR44	M26			20-20	1	2N509					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	10-18

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
CJ211, CJ217, CJ235 (Ch. CJ)...	Vol.	4XR335....	18	MR44....	M26			6JC426U...	1	2N509....					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT.....	455	10-6
CJ211, CJ217 (Above 2700250)...	Vol.	4XR335....	18	MR44....	M26			6JC426U...	1	2N509....					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455	
CJ221, CJ1-221 (Below 2700250)...	Vol. Tone	4XR335.... 4LR312B....	18 1	MR44.... MR48....	M26 M26			6JC426U... 4XC404....	24/13 24	2N509.... BB25....				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT.....	455	11-1,2	
CJ221, CJ1-221 (Above 2700250)...	Vol. Tone	4XR335.... 4LR312B....	18 1	MR44.... MR48....	M26 M26			6JC426U... 4XC404....	24 24	2N509.... BB25....				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455	11-1,2	
CJ232, CJ1-232 (Below 2700250)...	Vol. Tone	4XR335.... 4XR342....	18 21	MR44.... MR48....	M26 M26			6JC426U... 4XC404....	24/13 24	2N509.... BB25....				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT.....	455	11-1,2	
CJ232, CJ1-232 (Above 2700250)...	Vol. Tone	4XR335.... 4XR342....	18 21	MR44.... MR48....	M26 M26			6JC426U... 4XC404....	24/13 25	2N509.... BB25....				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455	11-1,2	
CJ235 (Below 2700250).....	Vol.	4XR335....	18	MR44....	M26			6JC426U...	1	2N509....				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT.....	455		
CJ235 (Above 2700250).....	Vol.	4XR335....	18	MR44....	M26			6JC426U...	1	2N509....				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455		
CJ257 (Below 2700250).....	Vol.	4XR335....	18	MR44....	M26			6JC426U...	1	2N509....				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT.....	455	10-6	
CJ257 (Above 2700250).....	Vol.	4XR335....	18	MR44....	M26			6JC426U...	1	2N509....				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455	10-6	
CL246, CL253, CL256 (Ch. CL)...	Vol.		18	MR44....	M26			20-20....	1	2N509....				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT.....	455	10-22	
CM260 (Ch. CM)...	Vol.	4XR335....	18	MR44....	M26			6JC426....	1	2N509....				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT or 35L6GT, 35Z5GT or 35Z4GT	455	10-24	
CM266, CM267 (Ch. CM).....	Vol.	4XR335....	18	MR44....	M26			6JC426....	1	2N509....				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455	10-24	
CQ269, CQ271, CQ273.....	Vol.	6SR362....	18	MR48....	M26			6QC437.... 6YC450....	1 46	2N514.... BB27....				6	6K8GT, 6K7GT, 6SQ7GT, 6AE5GT, 25AC5GT, 25Z6GT	455	11,13-14	
CQ286.....	Vol.	6SR362....	18	MR48....	M26			6QC437.... 6YC450....	46 46	2N514.... BB27....				6	6K8GT, 6K7GT, 6SQ7GT, 6AE5GT, 25AC5GT, 25Z6GT	455	11-13,14	
CR261, CR262 (Ch. CR).....	Vol. Vol.	6VR364.... 6RR359....	18 18	MR44.... MR44....	M26 M26			6JC426B....	1	2N509....				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455	10-27	
CRLW261, CRLW262 (Ch. CRLW).....	Vol. Vol.	6VR364.... 6RR359....	18 18	MR48.... MR44....	M26 M26			20-20....	1	2N509....				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455	11-3	
CR274 (Ch. CR)...	Vol. Vol.	6VR364.... 6RR359....	18 18	MR44.... MR44....	M26 M26			6JC426B....	1	2N509....				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455	10-27	
CRLW274 (Ch. CRLW).....	Vol. Vol.	6VR364.... 6RR359....	18 18	MR48.... MR44....	M26 M26			20-20....	1	2N509....				5	12A8GT, 12K7GT, 12SQ7G, 50L6GT, 35Z5GT.....	455	11-3	
CR297, CR303.....	Vol.	6VR364....	18	MR48....	M26			6JC426B... 4XC404....	46 46	2N509.... BB25....				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455	11-19, 23,24	
CR1-297, CR1-303...	Vol.	6VR364....	18	MR48....	M26			6JC426B... 4XC404....	46 46	2N509.... BB25....				5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455	11-19, 23,24	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
CS268 CS270, CS272, CS276....	Vol.	6SR362....	18	MR48....	M26			6QC437....	1	2N514....					6	6K8GT, 6K7GT, 6SQ7GT, 6AE5GT, 25AC5GT, 25Z6GT	455	11-12-14
CS317.....	Vol.	6SR362....	18	MR48....	M26			6QC437....	1	2N514....					6	6K8GT, 6K7GT, 6SQ7GT, 6AE5GT, 25AC5GT, 25Z6GT	455	.....
CS320.....	Vol.	6SR362....	18	MR48....	M26			6QC437....	1	2N514....					6	6K8GT, 6K7GT, 6SQ7GT, 6AE5GT, 25AC5GT, 25Z6GT	455	.....
CT275 (Ch. CT)....	Vol.	311R240C....	18	N.....	7			6EC432....	12	BB21....					5	1A7G, 1N5G, 1H5G, 1Q5G	455	10-28
CV264, 280, 295, 298, 313, 314, 316 (Ch. CV)....	Vol.	6VR364....	18	MR48....	M26			6JC426B 6ZC460 6VC446....	1 15 1	2N509 BB15 BB25....	B20				5	12A8GT/12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	11-7,8
CULW261, 262, 265, 274 (Ch. CULW)....	Vol.	6UR360....	6	MR36....	M26	EX200		6UC447....	24	2N512....					5	12J5GT, 12K7GT, 12SF5GT, 50L6GT, 35Z5GT....		11-4
CU265.....	Vol.	6UR360....	6	MR36....	M26	EX200		6UC-447....	24	2N512....					5	12J5GT, 12K7GT, 12SF5GT, 50L6GT, 35Z5GT....		11-10
CV289, CV290, CV1-290.....	Vol. Tone	6UR364.... 6UR366....	18 18	MR48.... MR36....	M26 M26			6JC426B....	1	2N509....					5	12SA7GT/12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	11-17,18
CV291, CV1-291....	Vol. Tone	6UR364.... 6UR366....	18 18	MR48.... MR36....	M26 M26			6JC426B 4XC404....	46 46	2N509 BB25....					5	12SA7GT/12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	11-17,18
CW279.....	Vol.	7BR363A....	18	MR44....	M26			6JC426D....	1	2N509....					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT....	455	11-16,24
CX263, CX283, CX284, CX305....	Vol.	311R240C....	18	MR48....	M27			6EC432....	12	BB21....					5	1A7GT, 1N5GT, 1H5GT, 1Q5GT....	455	11-5,6
CX285.....	Vol.	311R240C....	18	MR48....	M27			6EC432....	12	BB21....					5	1A7GT, 1N5GT, 1H5GT, 1Q5GT....	455	11-5,6
CX292.....	Vol.	311R240C....	18	MR48....	M27			6EC432....	12	BB21....					5	1A7GT, 1N5GT, 1H5GT, 1Q5GT....	455	11-5,6
CY269, CY271, CY273, CY286, CY288 (Ch. CY)....	Vol.	6SR362....	18	MR48....	M26			6JC426U....	1	2N509....					5	6A8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, 1A9BG..	455	11-11,12
	Vol.	6GR352....	18	MR44....	M26		A27											
	Vol.	6SR362....	18	MR48....	M26			6JC426U....	1	2N509....					5	6A8GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z6GT, 1A9BG..	455	11-11,12
	Vol.	6SR352....	18	MR44....	M26		A7											
CZ282.....	Vol.	7BR363A....	18	MR44....	M26			6JC426D 6VC446....	1 1	2N509 BB25....					5	12A8GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	11-16,24
DC4.....	Vol.		7				See Note	1-1....	1	See Note....	B7				4	39, 36, 33....		3-2
D5.....	Vol.		6	Y.....			EX500	UC-93....	4	CM172....					5	58, 57, 47, 80....	456	4-1
D134, D136, D138, D139, D140, D142, D146....	Vol. Tone	3AR228.... NNR157B....	20 22	TM227-SS1 MR48....	M26			3AC255.... 3AC277.... 1C43B.... 3AC256....	3 3 15 15	WE851.... WE4050.... BB12.... BB11....					10	6K7, 6A8, 6I16, 6F5, 6F5, 6C5, 6F6, 5Z3	456	7-37,38
D134LW, D136LW, D138LW, D139LW, D140LW, D142LW, D146LW (DLW)....	Vol. Tone	3AR228.... NNR157B....	20 22	TM227-SS1 MR48....	M26			3AC-255.... 3AC-277....	3 3	WE851.... WE4050....					10	6K7, 6A8, 6I16, 6F5, 6C5, 6F6, 6F5, 5Z3	456	8-19
DA287.....	Vol.	6GR352....	18	MR44....	M26			7AC443.... 7AC444....	1 1	BB64.... BB64....					6	6K8GT, 6K7GT, 6SQ7GT, 6P5GT, 6AC5GT, 5Y3G....	455	11-21,14
DB296, DB301, DB315, DB327....	Vol.	7BR363C....	18	MR48....	M26			6JC426C....	1	2N509....					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	11-22
DBI-301.....	Vol.	7BR363C....	18	MR48....	M26			6JC426C....	1	2N509....					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	11-22
DC308.....	Vol.	311R240D....	18	MR48....	M27			6EC432....	12	BB21....					5	1A7GT, 1N5GT, 1H5GT, 1Q5GT....	455	11-29
DD268, 279, 372, 276 (Ch. DD)....	Vol.		18	MR48....	M26			40-20....	1	2N514....					6	6SA7GT, 6K7, 6SQ7, 6AE5, 25AC5, 25Z6, L42B....	455	11-15

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
EMERSON—Continued																		
DF302, DF306.....	Vol.	31HR240C...	18	MR48.....	M27			6JC426E... 7FC451.....	1 15	2N509... BB17.....				6	1A7GT, 2N5GT, 115GT, 3Q5GT, 70L7GT/117L7GT.	455	11-25,26	
DH264.....	Vol.	71HR373....	18	MR48.....	M27			6EC432.....	12	BB21.....				5	1A7GT, 2N5GT, 115GT, 1Q5GT...	455	11-9	
DJ310, DJ311, DJ312.....	Vol.	31HR240E...	18	MR48.....	M27			6JC426E... 7FC451.....	1 15	2N509... BB17.....				6	1A7GT, 2N5GT, 115GT, 3Q5GT, 117L7GT/70L7GT.	455	11-27,28	
DL330.....	Vol.	7LR378....	18	MR48.....	M26			6JC426C...	1	2N509.....				5	12SQ7, 12SA7, 12K7GT, 50L6, 35Z5.....	455	11-22	
DL1-330 (Ch. DL1)	Vol.	7LR378....	18	MR48.....	M26			6JC426C...	1	2N509.....				5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	11-30,22	
DM331, DM1-331..	Vol.	6SR362....	18	MR48.....	M26			6JC426.....	1	2N509.....				5	5 6A8GT, 6K7GT, 6S07GT, 25L6GT, 25Z6GT, L49BG...	455	11-31	
DP332, DP1-332...	Vol.	6SR362....	18	MR48.....	M26			6QC437... 6YC450....	46 46	2N514... BB27.....				6	6K8GT, 6K7GT, 6S07GT, 6AE5GT, 25AC5GT, 25Z6GT.....	455	11-32	
DQ333, DQ334, DQ1-333, DQ1-334	Vol. Vol.	3BR363A... 7BR363C...	18 18	MR48... MR48.....	M26 M26			6JC426F...	1	2N509.....				5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-5	
DQ351 (DQ).....	Vol.		18	MR48.....	M26		A27	6JC466AU..	1	2N509.....				5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-5	
DR343 (DR), DRI-343 (DR)...	Vol.		18	MR48.....	M26			40-20.....	1	2N514.....				5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-11	
DR348 (DR), DRI348 (DRI), DR349 (DR)....	Vol.		18	MR48.....	M26			40-20.....	1	2N514.....				5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-11	
DR350 (DR), DRI350 (DRI)...	Vol.		18	MR48.....	M26			40-20.....	1	2N514.....				5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-11	
DR352 (DR), DRI352 (DRI)...	Vol.		18	MR48.....	M26			40-20.....	1	2N514.....				5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-11	
DS365 (DS).....	Vol.		124	†			A19	30..... 30..... 16, 16.....	1 1 1/13	WE3050... FPS145... 2S569.....		B20		9	26K7, 6SA7, 36SQ7, 36L6, 6U5, 5Z3.....	455	12-7-10	
DS372.....	Vol.		124	†			A19	30..... 30..... 16, 16.....	1 1 1/13	WE3050... FPS145... 2S569.....		B20		9	26K7, 6SA7, 36SQ7, 36L6, 6U5, 5Z3.....	455	12-7-10	
DV379, DV380....	Vol.		18	MR55.....	M27			10.....	12	BB22.....				4	11R5, 1T4, 1S5, 1S4...	455	12-33	
DV364.....	Vol.		18	MR48.....	M26			16, 16.....	1	2N518.....				8	6SA7GT, 6BB8GT, 6S07GT, 6P5GT, 6AC5GT, 6SJ7GT, 5Y3G, 6E5.....	455	12-17,18	
DX356 (Ch. DX) Below 3,842,250..	Vol.		18	MR44.....	M26			16, 16.....	23	BB64.....				5	6SA7GT, 6SK7GT, 6S07GT, 6V6GT, 5Y3G.....	455	12-16,15	
DX356 (Ch. DX) Above 3,842,250..	Vol.		18	MR44.....	M26			15-15-20...	1/15	FPT339...				5	6SA7GT, 6SK7GT, 6S07GT, 6V6GT, 5Y3G.....	455	12-15,16	
DY337 (DY), DY1-337 (DY1)..	Vol.		18	MR48.....	M26			6JC426B...	1	2N509.....				5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-6	
DY349 (DY), DY1-349 (DY1)..	Vol.		18	MR48.....	M26			6JC426B...	1	2N509.....				5	12SA7GT, 12SK7GT, 12SQ7GT, 35Z5GT, 50L6GT..	455	12-6	
DY351 (DY), DY1351 (DY1)...	Vol.		18	MR48.....	M26			6JC426B...	1	2N509.....				5	12SA7GT, 12SK7GT, 12Q7GT, 50L6GT, 35Z5GT.....	455	12-6	
DZ371.....	Vol.		18	MR48.....	M26			16-16.....	1	2N518.....				8	6SA7GT, 6BB8GT, 6S07GT, 6P5GT, 6AC5GT, 6SJ7GT, 6E5, 5Y3G.....	455	12-17-20	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
EMERSON—Continued																		
EE28.....	Vol.	OOR161B..	45	UM157.....			See Note A96	QQC169C... .0075.....	1/15	4S718.....		3DV-8.....	294	C3	6	78, 6A7, 6B7, 76, 41, 84	172.5 7-30	
EA312 (EA).....	Vol.		18	MR48.....	M27			6JC426D... 40.....	1 15	2N509..... BB17.....	B14				6	1A7GT, 2N5GT, 1H5GT, 117L7GT, 3Q5GT.....	455 12-3,4	
EA338 (EA), EA339 (EA).....	Vol.		18	MR48.....	M27			6JC426D... 40.....	1 15	2N509..... BB17.....					6	1A7GT, 2N5GT, 1H5GT, 117L7GT, 3Q5GT.....	455 12-3,4	
EA357 (EA).....	Vol.		18	MR48.....	M27			6JC426D... 40.....	1 15	2N509..... BB17.....					6	1A7GT, 2N5GT, 1H5GT, 117L7GT, 3Q5GT.....	455 12-3,4	
EA385 (EA).....	Vol.		18	MR48.....	M27			6JC426D... 40.....	1 15	2N509..... BB17.....					6	1A7GT, 2N5GT, 1H5GT, 3Q5GT, 117L7GT.....	455 12-3,4	
EA389 (EA).....	Vol.		18	MR48.....	M27			6JC426D... 40.....	1 15	2N509..... BB17.....					6	1A7GT, 2N5GT, 1H5GT, 117L7GT, 3Q5GT.....	455 12-3,4	
EA1-341 (EA1).....	Vol.		18	MR48.....	M27			20-20..... 40.....	1 78	2N509..... BB27.....					6	1A7GT, 2N5GT, 1H5GT, 3Q5GT, 117Z6GT.....	455 12-7,8	
EB344 (EB).....	Vol.		18	MR48.....	M27			20-20..... 40.....	1 15	2N509..... BB17.....					6	1A7GT, 2N5GT, 1H5GT, 117L7GT, 3Q5GT.....	455 12-3,4	
EB359 (EB).....	Vol.		18	MR48.....	M27			20-20..... 40.....	1 15	2N509..... BB17.....					6	1A7GT, 2N5GT, 1H5GT, 117L7GT, 3Q5GT.....	455 12-3,4	
EC296 (EC), EC1-296 (EC1).....	Vol.		18	MR48.....	M26			20-20.....	1	2N509.....					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT.....	455 12-1	
EC301 (EC), EC1-301 (EC1).....	Vol.		18	MR48.....	M26			20-20.....	1	2N509.....					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455 12-1	
EC314 (EC), EC1-314 (EC1), EC315 (EC), EC1-315 (EC1).....	Vol.		18	MR48.....	M26			20-20.....	1	2N509.....					5	12SA7GT, 12SQ7GT, 12SK7GT, 50L6GT, 35Z5GT..	455 12-1	
EC327 (EC), EC1-327 (EC1).....	Vol.		18	MR48.....	M26			20-20.....	1	2N509.....					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455 12-1	
EC336 (EC), EC1-336 (EC1).....	Vol.		18	MR48.....	M26			20-20.....	1	2N509.....					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455 12-1	
EC347 (EC), EC1-347 (EC1).....	Vol.		18	MR48.....	M26			20-20.....	1	2N509.....					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455 12-1	
EC353 (EC), EC1-353 (EC1).....	Vol.		18	MR48.....	M26			20-20.....	1	2N509.....					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455 12-1	
EC366 (EC), EC1-366 (EC1).....	Vol.		18	MR48.....	M26			20-20.....	1	2N509.....					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455 12-1	
ED354 (ED) (Below 3,816,700)	Vol.	6GR352.....	18	MR44.....	M26			7AC443..... 7AC444.....	23 23	BB64..... BB64.....					5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 5Y3G.....	455 12-12	
ED354 (ED) (Above 3,816,700)	Vol.	6GR352.....	18	MR44.....	M26			8DC522.....	1/15	FPT339.....					5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 5Y3G.....	455 12-12	
EE340 (EE).....	Vol.		18	MR48.....	M27			20-20..... 40.....	1 15	2N509..... BB17.....					6	1A7GT, 2N5GT, 1H5GT, 117L7GT, 3Q5GT.....	455 12-3,4	
EE390 (EE).....	Vol.		18	MR48.....	M27			20-20..... 40.....	1 15	2N509..... BB17.....					6	1A7GT, 2N5GT, 1H5GT, 117L7GT, 3Q5GT.....	455 12-3,4	
EF363 (EF).....	Vol.		18	MR48.....	M27			40-20..... 40.....	1 15	2N514..... BB17.....					6	1A7GT, 2N5GT, 1H5GT, 117L7GT, 3Q5GT.....	455 12-13,14	
EG355 (EG).....	Vol.		18	MR48.....	M26			40-20..... 40.....	24 13	2N514..... BB27.....					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6U5, 25Z6GT.....	455 12-13,14	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replace- ment	*Note				
EMERSON—Continued																		
EH342 (EHO), EH1-342 (EH1)...	Vol.		18	MR48	M26			6JC466AU..	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-5
EJ378	Vol.		18	MR48	M26			40-20-20	46	FPT357	B117				5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-31
EK377 (EK)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-1
EK403 (EK)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-1
EK2-377 (EK)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-1
EL360, EL361, EL362, EL363, EL373	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-21
EM345 (EM), EM1-345 (EM1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-1
EM346 (EM), EM1-346 (EM1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-1
EM382 (EM)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-1
EM2-345 (EM), EM3-345 (EM1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-1
EM2-346 (EM), EM3-346 (EM1)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-1
EM2-382 (EM)	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-1
EP367	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-21
EP375	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-21
EP381	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-21
EP405, EP406	Vol.		18	MR48	M26			20-20	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-21
EQ368	Vol.		18	‡			A19	15-15-20	1/15	FPT343					6	6SA7GT, 6SK7GT, 6J5GT, 6SQ7GT, 6V6GT, 5Y3G	455	12-22
EQ410	Vol.		18	‡			A19	15-15-20	1/15	FPT343					6	6SA7GT, 6SK7GT, 6J5GT, 6SQ7GT, 6V6GT, 5Y3G	455	12-22
ER369, ER370	Vol.		124	Order from	Mfr.			15-15-15	1/13	FPT381	B117				9	6SA7GT, 6SK7GT, 6SQ7GT, 6AE7GT, 6AC5GT, 6U5, 5Y3G	455	12-24-26
ES374	Vol.		18	MR44	M26			16, 16, 16-15-20	23 1/15	BB64, FPT338	B117- B20				5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 5Y3G	455	12-27,28
ES397	Vol.		18	MR44	M26			16, 16, 16-15-20	23 1/15	BB64, FPT338	B117- B20				5	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 5Y3G	455	12-27,28
ET383	Vol.		18	‡			A19	40-20-20	46	FPT357					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT..	455	12-31
EV384	Vol.		18	MR48	M26			15-15-20	1/15	FPT339					7	6SA7GT, 6SK7GT, 6SQ7GT, 6V6GT, 6E5, 5Y3G	455	12-23,24
EW391 (EW)	Vol.		18	MR48	M27			20-20 40	1 15	2N509 BB17					6	1A7GT, 2N5GT, 1H5GT, 117L7GT, 3Q5GT	455	12-3,4
EX386	Vol.		18	MR48	M26			40-40-20	46	FPT357					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-34

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
F.....	Vol.		6	H12				8, 8, 8	3	RS213					8	27, 24, 45, 80	1-1	
F117.....	Vol.	2NR214D	18	MR44	M26			3EC288	25	RS207					5	6A7, 6D6, 75, 43, 25Z5	456 7-25,26	
F122 (F).....	Vol.	2NR214D	18	MR44	M26			YC-98A	13	BB20					5	6A7, 6D6, 75, 43, 25Z5	456 7-25,26	
F133 (F).....	Vol.	2NR214D	18	MR44	M26			3EC-288	25	RS207					5	6A7, 6D7, 75, 43, 25Z5	456 7-25,26	
F135 (F).....	Vol.	2NR214D	18	MR44	M26			YC-98A	13	BB20					5	6A7, 6D6, 75, 43, 25Z5	456 7-25,26	
F141 (F).....	Vol.	2NR214D	18	MR44	M26			3EC-288	25	RS207					5	6A7, 6D6, 75, 43, 25Z5	456 7-25,26	
FA374.....	Vol.		18	MR48	M26			YC-98A	13	BB20					7	6SK7, 6SA7, 6J5, 6SQ7, 6V6GT, 5Y3	455 12-29,30	
FA408.....	Vol.		18	MR48	M26			16	1	BB64					7	6SK7, 6SA7, 6J5, 6SQ7, 6V6GT, 5Y3	455 12-29,30	
FB2-374.....	Vol.		18	TM230-SS1	M26			16	1	BB64					5	12SA7GT, 12SK7GT, 12SQ7GT	455 12-29,30	
FC400 (FC).....	Vol.		18	MR48	M26			40-20-20	46	FPT357					5	12SA7GT, 12SK7GT, 12SQ7GT	455 12-2	
FG330 (FG).....	Vol.		18	MR48	M26			20-20	1	2N509					5	50L6GT, 35Z5GT, 12SA7GT, 12SK7GT, 12SQ7GT	455 12-2	
G4.....	Vol.		7	UC509	6	EX300		4-4	1	2N502					4	50L6GT, 35Z5GT, 12SA7GT, 12SK7GT, 12SQ7GT	455 12-2 3-9	
G127 (G).....	Vol.	2NR214C	18	MR44	M26			HC32	15	TN111					5	6A7, 6D6, 75, 43, 25Z5, 3CR-241	456 8-7	
H5.....	Vol.		6	Y	6	EX300		3CC-261	25	RS207					5	7B8, 77, 43, 25Z5	172.5 3-6	
H5L.....	Vol.		6	Y	6	EX300		YC-98A	13	BB20					5	6A7, 7B, 77, 43, 25Z5	132 4-5	
H130, H137.....	Vol.	3NR240	17	MR48	M27			KC68	11	UR193	B264				5	1A4, 1A6, 1B5, 1F4, 1H1	456 7-39	
J.....	Vol.	R102	6	G7	6	3		VVC221A	12	BB21					5	24A, 35, 47, 80	175 3-3	
JS.....	Vol.	R102	6	G7	6	3		A404	4	BB60					5	24, 35, 47, 80	175 3-3	
J106.....	Vol.	2CR195	17	MR48	M26			A401	4	BB60					5	6A7, 6D6, 75, 43, 25Z5	456 7-9	
KS.....	Vol.		7	G	6	1		2C222	6	2N506					5	6A7, 6D6, 75, 43, 25Z5	456 7-9	
K116, K121, K123, KA (Early).....	Tone Vol.	TTR159F	6	G12	6	2		CCC146B	15	TN111					8	35, 24, 27, 47, 80	175 3-3	
LA (Revised).....	Vol.		7	Y	6	EX300		8	4	CS133					4	6D6, 6C6, 3B, 1V	5-10	
LAC4.....	Vol.		6	†		See Note A5		4	1/15	3S579					5	6D6, 76, 41, 80	456 7-19,20	
LAC5.....	Vol.		6	†		See Note A5		4	4	CM172					4	78, 77, 38, 1V	5-10	
L117 (early).....	Vol.	2NR214D	56	MR44	M26			8-4	4	CM172					4	6D6, 6C6, 3B, 1V	5-10	
L117 (late).....	Vol.	2NR214D	18	MR44	M26			5	15	BB12					4	6D6, 6C6, 3B, 1V	5-10	
L117LW.....	Vol.	2NR214D	56	MR44	M26			8-4	4	CM172					4	6D6, 6C6, 3B, 1V	5-10	
L122 (early).....	Vol.	2NR214D	56	MR44	M26			5	15	BB12					4	6D6, 6C6, 3B, 1V	5-10	
L122 (late).....	Vol.	2NR214D	18	MR44	M26			4-4	4	See Note B3					4	58, 57, 47, 80	3-1	
L122LW, L133 (early).....	Vol.	2NR214D	56	MR44	M26			8	4	ST595					5	58, 57, 47, 80	3-1	
L133 (late).....	Vol.	2NR214D	18	MR44	M26			4	4	ST595					5	6A7, 6D6, 85, 41, 80	456 7-27	
L133LW.....	Vol.	2NR214D	56	MR44	M26			2NC246	1	RS216					5	6A7, 6D6, 85, 41, 80	456 7-27	
L135 (early).....	Vol.	2NR214D	56	MR44	M26			2NC247	1	WE1650					5	6A7, 6D6, 85, 41, 80	456 7-27	
L135 (late).....	Vol.	2NR214D	18	MR44	M26			IC43A	15	BB12					5	6A7, 6D6, 75, 41, 80	456 7-27	
L135LW.....	Vol.	2NR214D	56	MR44	M26			2NC246	1	RS216					5	6A7, 6D6, 85, 42, 80	456 7-23,24	
								2NC247	1	WE1650					5	6A7, 6D6, 85, 42, 80	456 7-23,24	
								IC43A	15	BB12					5	6A7, 6D6, 85, 42, 80	456 7-23,24	
								2NC246	1	RS216					5	6A7, 6D6, 85, 42, 80	456 7-23,24	
								2NC247	1	WE1650					5	6A7, 6D6, 85, 42, 80	456 7-23,24	
								IC43A	15	BB12					5	6A7, 6D6, 85, 42, 80	456 7-23,24	
								2NC246	1	RS216					5	6A7, 6D6, 85, 42, 80	456 7-23,24	
								2NC247	1	WE1650					5	6A7, 6D6, 85, 42, 80	456 7-23,24	
								IC43A	15	BB12					5	6A7, 6D6, 85, 42, 80	456 7-23,24	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
EMERSON—Continued																		
L141 (early).....	Vol.	2NR214D..	56	MR44.....	M26			2NC246.....	1	RS216.....					5	6A7, 6D6, 85, 41, 80.	456	7-27
								2NC247.....	1	WE1650.....								
								IC43A.....	15	BB12.....								
L141 (late).....	Vol.	2NR214D..	18	MR44.....	M26			2NC246.....	1	RS216.....					5	6A7, 6D6, 75, 41, 80.	456	7-27
								2NC247.....	1	WE1650.....								
								IC43A.....	15	BB12.....								
L141LW.....	Vol.	2NR214D..	56	MR44.....	M26			2NC246.....	1	RS216.....					5	6A7, 6D6, 85, 42, 80.	456	7-23,24
								2NC247.....	1	WE1650.....								
								IC43A.....	15	BB12.....								
L143 (early).....	Vol.	2NR214D..	56	MR44.....	M26			2NC246.....	1	RS216.....					5	6A7, 6D6, 85, 41, 80.	456	8-23
								2NC247.....	1	WE1650.....								
								IC43A.....	15	BB12.....								
L143 (late).....	Vol.	2NR214D..	56	MR44.....	M26			2NC246.....	1	RS216.....					5	6A7, 6D6, 75, 41, 80.	456	8-23
								2NC247.....	1	WE1650.....								
								IC43A.....	15	BB12.....								
L150.....	Vol.	2NR214D..	18	MR44.....	M26			2NC246.....	1	RS216.....					5	6A7, 6D6, 75, 41, 80.	456	7-27
								2NC247.....	1	WE1650.....								
								IC43A.....	14	BB12.....								
MAC7.....	Vol. Tone	GR28..... GR29.....	6 34	E7..... SRP263.	6	2		BC9.....	4	CM172.....					7	58, 56, 55, 47, 80.	175	3-5
M134, M136, M138, M139, M140, M142, M146.....	Vol. Tone	3MR251..... 3MR252.....	18 22	MR39..... MR44.....				3MC290..... 3MC291..... 3MC292.....	27 27 13	RS208..... RS208..... ST585.....					10	6K7, 6A8, 6D6, 85, 6G5, 6C5, 343, 25Z5.	456	8-21
								3AC256.....	15	BB11.....								
								3PC307.....	1	2S567.....		Order from Mfr.			6	1A4, 1A6, 1B5-25S, 30, 1E7G.	456	8-3
								3PC310.....	15	BB15.....								
								.0125-.0125.....		Buffer.....	B14							
								3QC338.....	1	2N506.....					4	6D6, 6C6, 25L6, 25Z5.		9-23
Q157.....	Vol.	2VR219D..	6	Z12.....														
R152, R153, R156, R158 (R).....	Vol.	3FR256A.....	18	MR48.....	M26			3RC318.....	23	2S567.....					5	6A7, 6D6, 75, 41, 80.	456	9-5
R167 (R).....	Vol.	3FR256A.....	18	MR48.....	M26			3RC-318.....	23	2S567.....					5	6A7, 6D6, 75, 41, 80.	456	9-5
R189 (R).....	Vol.	3FR256A.....	18	MR48.....	M26			3RC-318.....	23	2S567.....					5	6A7, 6D6, 6Q7G, 41, 80.	456	9-5
S7.....	Vol.	GR28.....	6	E7.....	6	2		IC42.....	4	CM172.....	B3				7	58, 57, 59, 80.	465	4-19
								IC43.....	20	BB12.....								
								IC42.....	4	CM172.....	B3							
								IC43.....	20	BB12.....								
S50.....	Vol.	GR28.....	6	E7.....	6	2		3SC303.....	1	WE4050.....					6	6K7, 6A8, 6Q7, 6F6, 5W4-5Z3.	456	8-27
								3BC289.....	1	WE4050.....								
								IC43A.....	15	BB12.....								
S147, S151.....	Vol. Tone	NNR157B..... 3MR251.....	18 34	MR48..... MR39.....				A403.....	4	See Note.....	B3				4	35, 24, 47, 80.		3-2
								A404.....	4	BB60.....								
								A310.....	4	See Note.....	B3				1	35, 24, 47, 80.		3-2,3
								A404.....	4	BB60.....								
T.....	Vol.	R101.....	6	G7.....	6	3		3VC320C.....	1/15	3S579.....		3VV-10.....	294	C3	6	6A7, 6D6, 76, 41, 84.	262	8-33
								IC43A.....	15	BB12.....								
								.0075.....		Buffer.....	B14							
U154.....	Vol.	3VR267.....	45	UM162.....		See Note A96		8-4.....	4	CM172.....					4	78, 77, 38, 1V.		4-10
								5.....	15	BB12.....								
								8-4.....	4	CM172.....								
								5.....	15	BB12.....								
V4 (Early).....	Vol.		7	Y.....		EX300		3VC320.....	1/15	3S579.....		3VV-10.....	294	C3	8	6D6, 6A7, 6B7, 76, 41, 81.	262.5	9-9
								.005.....		Buffer.....	B14							
								3XC329.....	1	WE3050.....					15	6K7, 6A8, 6C5, 6G5, 6F6, 780.	456	9-25
								YC98A.....	13	BB20.....								
								IC43A.....	15	BB12.....								
V4 (Revised).....	Vol.		7	Y.....		EX300		3XC329.....	1	WE3050.....					15	6K7, 6A8, 6J5, 6G5, 6F6, 780.	456	9-25
								YC98A.....	13	BB20.....								
								IC43A.....	15	BB12.....								
V155.....	Vol. Tone	3VR267..... 3VR279.....	15 44	UM162..... K12.....		See Note A96		3XC329.....	1	WE3050.....					15	6K7, 6A8, 6C5, 6G5, 6F6, 780.	456	9-25
								3XC329.....	1	WE3050.....								
								YC98A.....	13	BB20.....								
								IC43A.....	15	BB12.....								
X146.....	Vol. Tone	3XR287..... 3XR277.....	18 127	TM226-SS1..... N.....		6		3XC329.....	1	WE3050.....					15	6K7, 6A8, 6J5, 6G5, 6F6, 780.	456	9-25
								YC98A.....	13	BB20.....								
								IC43A.....	15	BB12.....								
X146 (above 1,328,650).....	Vol. Tone	3XR287..... 3XR277.....	18 127	TM226-SS1..... N.....		6		3XC-329.....	1	WE3050.....					15	6K7, 6A8, 6J5, 6F6, 780, 6G5.	456	9-21
								YC-98A.....	13	BB20.....								
								IC-43A.....	15	BB12.....								
X175 (X).....	Vol. Tone	3XR287..... 3XR277.....	18 127	TM226-SS1..... N.....		6		3XC329.....	1	WE3050.....					15	6K7, 6A8, 6C5, 6G5, 6F6, 780.	456	8-25
								YC98A.....	13	BB20.....								
								IC43A.....	15	BB12.....								
X178 (below 1,328,650).....	Vol. Tone	3XR287..... 3XR277.....	18 127	TM226-SS1..... N.....		6		3XC329.....	1	WE3050.....					15	6K7, 6A8, 6J5, 6G5, 6F6, 780.	456	9-25
								YC98A.....	13	BB20.....								
								IC43A.....	15	BB12.....								
X178 (above 1,328,650).....	Vol. Tone	3XR287..... 3XR277.....	18 127	TM226-SS1..... N.....		6		3XC329.....	1	WE4050.....					15	6K7, 6A8, 6J5, 6G5, 6F6, 780.	456	9-25
								YC98A.....	13	BB20.....								
								IC43A.....	15	BB12.....								
X183 (below 1,328,650).....	Vol. Tone	3XR287..... 3XR277.....	18 127	TM226-SS1..... N.....		6		3XC329.....	1	WE3050.....					15	6K7, 6A8, 6C5, 6G5, 6F6, 780.	456	9-25
								YC98A.....	13	BB20.....								
								IC43A.....	15	BB12.....								
X183 (above 1,328,650).....	Vol. Tone	3XR287..... 3XR277.....	18 127	TM226-SS1..... N.....		6		3XC329.....	1	WE3050.....					15	6K7, 6A8, 6J5, 6G5, 6F6, 780.	456	9-25
								YC98A.....	13	BB20.....								
								IC43A.....	15	BB20.....								

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
Z117, Z122, Z133	Vol.	3ZR288	45	N	6		2NC246	23	RS216					6	6A7, 6D6, 76, 41, 80	456	8-5	
Z135, Z141	Vol.	3ZR288	45	MR48	M26		2NC247	23	WE1650					6	6A7, 6D6, 76, 41, 80	456	8-5	
Z150 (early)	Vol.	3ZR288	45	MR48	M26		2NC246	23	RS216					6	6A7, 6D6, 76, 41, 80	456	8-5	
Z150 (late)	Vol.	3ZR288	46	MR48	M26		12	23	ST596					6	6A7, 6D6, 76, 41, 80	456	8-5.6	
Z159, Z160	Vol.	3ZR288	45	MR48	M26		8	23	ST595					6	6A7, 6D6, 76, 41, 80	456	8-5.6	
1A	Vol.		15	MR48			12	23	ST596					6	6A7, 6D6, 76, 41, 80	456	8-5	
31W	Vol.		6	Y	6	EX300	24	23	2S568	B8				6	6A7, 6D6, 76, 41, 80	456	8-5	
5A	Vol.	0OR-161	17	UM157-SS4			8	13	BB31					6	6A7, 6D6, 76, 41, 80	456	8-5	
6A	Vol.	0OR-161	17	UM157-SS4			2NC246	23	RS216					6	6A7, 6D6, 76, 41, 80	456	8-5	
19 (UV4)	Vol.		6	Y		EX300	2NC247	23	WE1650					6	6A7, 6D6, 76, 41, 80	456	8-5	
20A	Vol.		7	UC509	6	EX200	8-8-10	1/15	3S579	B3		296	C3	5	6F7, 6A7, 6B7, 41, 84	456	8-5	
23 (4B)	Vol.	BBR112	6	Z12	6	EX200	.008		Buffer	B14				5	6A7, 78, 77, 43, 25Z5	132	4-5	
25A	Vol.		7	UC509	6	EX300	KC68	11	UR193	B264				5	78, 6A7, 85, 42	172.5	6-1	
26 (DAC5)	Vol.		6	Y	6	EX500	8-8	1	See Note	B3		OOV-4		5	78, 6A7, 85, 42	172.5	6-1	
28 (5J)	Vol.	DDR121	6	Y	6	EX300	10-10	15	TN111					6	78, 6A7, 85, 41, 84	172.5	6-1	
30	Vol.		6	Y	6	EX300	QOC169A	1/15	48718			QQV-5	253Y	C3	78, 6A7, 85, 41, 84	172.5	6-1	
30AW	Vol.		6	Y	6	EX300	.008		Buffer	B14				4	6A7, 6F7, 43, 25Z5	456	6-3	
30LW	Vol.		6	Y	6	EX300	KKC143	6	2N504					4	6A7, 6F7, 43, 25Z5	456	6-3	
32 (U5S)	Vol.	GGR143	17	N	6		KKC145	15	TN111					4	36, 37, 38, 39		3-9	
33AW	Vol.		6	Y	6	EX300	HC31	1	2N516					4	6A7, 77, 42, 80	456	5-1	
33LW	Vol.		6	Y	6	EX300	HC32	15	TN113					4	36, 37, 38, 39		3-9	
34C (C6-D6)	Vol.	XXR185A	55	M			UC93	4	CM172					4	6A7, 77, 42, 80	456	5-1	
34F7	Vol.	XXR186A	22	M	6		HC31	1	2N516					4	36, 37, 38, 39		3-9	
35 (T6)	Vol.	2KR209	17	MR48	M26		HC32	15	TN113					5	58, 57, 47, 80	456	4-1	
36 (B5)	Vol.	2KR210	22	MR44	M26		8-8	4	See Note	B3				5	6D6, 6C6, 42, 80	456	5-2	
38 (U6)	Vol.		17	N	6		IC43	15	BB12					5	78, 77, 43, 25Z5	172.5	3-6	
38 (U6D)	Vol.		15	Y			KC68	11	UR193	B264				5	25Z5, 43, 77, 78	456	4-2	
39 (D-S5)	Vol.	YR100	1	MN	6		KC68	11	UR193	B264				5	6A7, 78, 77, 43, 25Z5	132	4-5	
40	Vol.		17	O	6		GGC137	6/15	UR189	B98				5	6A7, 6D6, 75, 43, 25Z5	456	6-4	
41	Vol.		6	Y	6	EX500	KC68	11	UR193	B264				5	25Z5, 43, 77, 78	456	4-2	
42 (U6)	Vol.		17	N			8-8	4	See Note	B3				6	6A7, 78, 77, 43, 25Z5	132	4-5	
42 (U6D)	Vol.		22	Y		See Note	2KC237	1	2N516			2KV-6	222	6	6A7, 78, 77, 43, 25Z5	132	4-5	
45 (6BD)	Vol.		6	E7	6	4	2KC249	13	BB31					6	6A7, 78, 77, 43, 25Z5	132	4-5	
49 (U6)	Vol.		17	N			2KC234	15	TN111					6	6A7, 78, 77, 43, 25Z5	132	4-5	
49 (U6D)	Vol.		6	Z12	6	EX200	12-12-8	11	See Note	B3				6	78, 75, 43, 25Z5	172.5	4-3	
50L	Vol.	JR46	6	E7	6		5	15	BB12					5	6D6, 76, 42, 80	456	6-7	
50M	Vol.	GR28	6	E7	6	2	8-6	1	See Note	B3				6	6A7, 6D6, 25Z5, 43, 75	456	6-9	
AW55	Vol.	GR29	34	SRP263			12	15	BB12					6	6A7, 6D6, 25Z5, 43, 75	456	6-9	
59 (DS5)	Vol.	RI32	7	H	6	2	15	15	BB12					6	6A7, 6D6, 25Z5, 43, 75	456	5-3	
65	Vol.		7	UC500			8-4	4	See Note	B3				6	6A7, 6D6, 25Z5, 43, 75	456	5-5	
71 (AW7)	Vol.		17	O	6		8	12	See Note	B3				6	6D6, 6A7, 75, 42, 80	456	5-7	
77	Vol.		17	O		See Note	8	15	BB12					6	6A7, 6D6, 25Z5, 43, 75	456	6-9	
101 (C6-D6)	Vol.	XXR185A	18	M	6		5	15	BB12					6	6A7, 6D6, 25Z5, 43, 75	456	6-9	
101F7	Vol.	XXR186A	22	M	6		GC125	6/13	TN122					6	6A7, 6D6, 25Z5, 43, 75	456	6-9	
	Vol.	2KR209	55	MR48	M26		HC32	15	TN113					6	6A7, 6D6, 25Z5, 43, 75	456	5-3	
	Vol.	2KR210	22	MR44	M26		IC42	4	CM172	B3				7	55, 56, 58, 59, 80	115	4-17	
	Vol.		7	H	6	2	IC13	20	BB12					7	47, 55, 56, 58, 80	175	4-18	
	Vol.		1	MN	6		BC9	4	CM172	B3				7	47, 55, 56, 58, 80	175	4-18	
	Vol.		7	UC500			8-4	4	See Note	B3				6	24, 47, 56, 58, 80	445	3-4	
	Vol.		17	O	6		8-8	4	See Note	B3				5	2A7, 2B7, 47, 58, 80	456	5-5	
	Vol.		41	SRP263			4	13	BB10					9	24, 27, 45, 80, 99		1-2	
	Vol.		17	O		See Note	5	15	BB12					7	6D6, 6A7, 75, 742, 80	456	5-9	
	Vol.		34	SRP263			8-8	4	See Note	B3				7	2A6, 47, 56, 58, 80	172.5	4-4	
	Vol.	XXR185A	18	M	6		8-8	4	See Note	B3				6	6A8, 6K7, 75, 6F6, 80	456	6-5	
	Vol.	XXR186A	22	M	6		2KC237	1	2N516			2KV-6	222	6	6A7, 78, 77, 43, 25Z5	132	4-5	
	Vol.	2KR209	55	MR48	M26		2KC249	13	BB31					6	6A7, 78, 77, 43, 25Z5	132	4-5	
	Vol.	2KR210	22	MR44	M26		2KC234	15	TN111					6	6A7, 78, 77, 43, 25Z5	132	4-5	

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued																		
101U.....	Vol. Tone	2FR205A... XXR186A...	55 22	MR48... MR44...	M26			ZZC192A... YC98...	11/13 11	UR193... BB20...	B265			6	6A8, 6K7, 75, 43, 25Z5...	456	7-3,4	
102.....	Vol. Tone	NNR156... NNR157A...	17 22	TM240-SS1 MR48...				NNC155... IC43... NNC226... 2HC217... NNC226... IC43...	1 15 ↓ 1 1 15	2N518... BB12... BB61... 2N518... BB61... BB12...			9	6K7, 6A8, 75, 6E5, 6C5, 6F6, 80...	456	7-5,6		
102LW (B8).....	Vol. Tone	NNR156... NNR157A...	18 22	TM240-SS1 MR48...				2HC217... NNC226... IC43...	↓ 1 15	BB61... 2N518... BB12...			8	6K7, 6A8, 75, 6C5, 6F6, 80...	456	7-7,8		
103 (F5).....	Vol.		17	N	7									5	1C6, 34, 25S, 30, 33, LLL25...	456	6-8	
104.....	Vol. Tone	NNR156... NNR157A...	17 22	TM240-SS1 MR48...				NNC155... IC43... NNC226... 2HC217... NNC226... IC43...	1 15 ↓ 1 1 15	2N518... BB12... BB61... 2N518... BB61... BB12...			9	6K7, 6A8, 75, 6E5, 6C5, 6F6, 80...	456	7-5,6		
104LW (B8).....	Vol. Tone	NNR156... NNR157A...	17 22	TM240-SS1 MR48...				2HC217... NNC226... IC43... 2AC-209A... IC43... 2CC-194...	↓ 1 15 30 19 27	BB61... 2N518... BB61... UR191... BB12... CM165...			8	6K7, 6A8, 75, 6C5, 6F6, 80...	456	7-7,8		
105 (A11).....	Vol. Tone	NNR156... 2AR198... 2CR195...	20 22 45	TM240-SS1 N... N...				2AC-209A... IC43... 2CC-194...	30 19 27	UR191... BB12... CM165...	B3		11	SZ3, 6A8, 6C5, 6F6, 6H6, 6K7...	456	6-11		
106 (U6B).....	Vol.	2CR195...	45	N	6			2CC-194...	27	CM165...			6	6A7, 6D6, 6H6, 6F5, 43, 25Z5...	456	6-13		
107 (U6A).....	Vol. Tone	ZZR190A... ZZR191A...	55 22	N... M...	6			ZZC-192A... YC98A... 16-8-4...	11/27 11 6/13	UR193... BB20... RM257...	B99		6	6A8, 6K7, 75, 43, 25Z5...	456	6-15		
107 (U6F).....	Vol.	ZZR191A...	45	MR48				16-8-4... 4... 2NC246A... 2NC246B... IC43A...	6/13 13 1 15 25/13	BB31... RS216... RS216... BB12... See Note...	B3		6	6A7, 6K7, 6H6, 6F5, 43, 25Z5...	456	7-10		
107AC.....	Vol.	2NR214A...	18	MR44	M26			4-8-16...	25/13	See Note...	B3		5	6A7, 78, 75, 41, 1V...	456	7-11		
107LW (U6C).....	Vol. Tone	ZZR190A... ZZR191A...	45 22	MR48... MR44...	M26			4-8-16...	25/13	See Note...	B3		6	6A7, 6K7, 6H6, 6F5, 43, 25Z5...	456	7-13,14		
108-110.....	Vol.	2DR169...	18	MR48	M26			2DC300...	27	2P544...			5	6A7, 6D6, 75, 43, 25Z5...	456	6-17,18		
108LW (U5B).....	Vol.	2DR169...	18	MR48	M26			2DC203...	27	2P544...			5	6A7, 6D6, 75, 43, 25Z5...	132	7-15,16		
109 (U4A).....	Vol.		6	Z12	6	See Note A14		KKC143... KKC145... 2DC203...	6 15 27	2N504... TN111... 2P544...			4	6A7, 6F7, 43, 25Z5...	456	7-15,16		
110LW.....	Vol.	2DR169...	18	MR48	M26			2DC203...	27	2P544...			5	6A7, 6D6, 75, 43, 25Z5...	132	7-15,16		
111 (U6A).....	Vol. Tone	ZZR190A... ZZR191A...	18 22	MR48... MR44...	M26			ZZC-192A... YC-98A... 16-8-4...	11 11 6	UR193... BB20... See Note...	B99 B99 B3		6	6A8, 6K7, 75, 43, 25Z5...	456	6-15		
111 (U6F).....	Vol. Tone	ZZR190A... ZZR191A...	45 22	MR48... MR44...	M26			16-8-4... 4... 2NC246A... 2NC246B... IC43A...	6 13 1 15 25/13	See Note... BB20... UR193...	B3 B3		6	6A7, 6K7, 6H6, 6F5, 43, 25Z5...	456	7-10		
111LW (U6C).....	Vol. Tone	ZZR190A... ZZR191A...	45 22	MR48... MR44...	M26			4-8-16...	25/13	UR193...	B3		6	6A7, 6K7, 6H6, 6F5, 43, 25Z5...	456	7-13,14		
112.....	Vol. Tone	NNR156... NNR157A...	17 22	TM240-SS1 MR48...				NNC155... IC43... NNC226... 2NC246A... 2NC246B... IC43A...	1 15 ↓ 1 1 15	2N518... BB12... BB61... RS216... RS216... BB12...			9	6K7, 6A8, 75, 6E5, 6C5, 6F6, 80...	456	7-5,6		
114.....	Vol.	2NR214A...	18	MR44	M26			2NC246A... 2NC246B... IC43A... TTC159... 2NC246... 2NC247... IC43A... 2NC246... 2NC247... IC43A... GGC137... ZZC192A... YC98A... VVC221... GGC137... TTC159... GGC137... 3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	1 15 1 1 15 1 1 1 1 15 11 11 11 6/15 1/15 6/15 6/15 4 4 14 11 11 11	UR193... BB20... See Note... BB20... UR193... BB21... UR189... B99 UR189... B99 UR193... BB20... BB21... UR189... B99 3S579... UR189... B99 RS215... WE4050... BB31... UR193... UR193... UR193... UR193...	B3 B3 B3 B3 B3 B3 B98 B99 B98 B98 B264 B264 B264		5	6A7, 78, 75, 41, 1V...	456	7-11		
116.....	Vol.	TTR159A...	6	E12	6	See Note A14		TTC159... 2NC246... 2NC247... IC43A... 2NC246... 2NC247... IC43A... GGC137... ZZC192A... YC98A... VVC221... GGC137... TTC159... GGC137... 3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	1/15 1 1 15 1 1 15 6/15 11 11 11 6/15 1/15 6/15 6/15 4 4 14 11 11 11	3S579... RS216... WE1650... BB12... RS216... WE1650... BB12... UR189... B99 UR193... BB20... BB21... UR189... B99 3S579... UR189... B99 RS215... WE4050... BB31... UR193... UR193... UR193... UR193...	B3 B3 B3 B3 B3 B3 B98 B99 B264 B264 B264		5	6A7, 6D6, 85, 42, 80...	456	7-21,22		
117.....	Vol.	2NR214...	56	MR44	M26			2NC246... 2NC247... IC43A... 2NC246... 2NC247... IC43A... GGC137... ZZC192A... YC98A... VVC221... GGC137... TTC159... GGC137... 3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	1 1 15 1 1 15 6/15 11 11 11 6/15 1/15 6/15 6/15 4 4 14 11 11 11	WE1650... BB12... RS216... WE1650... BB12... UR189... B99 UR193... BB20... BB21... UR189... B99 3S579... UR189... B99 RS215... WE4050... BB31... UR193... UR193... UR193... UR193...	B3 B3 B3 B3 B3 B98 B99 B264 B264 B264		5	6A7, 6D6, 85, 42, 80...	456	7-23		
117LW.....	Vol.	2NR214D...	56	MR44	M26			2NC246... 2NC247... IC43A... GGC137... ZZC192A... YC98A... VVC221... GGC137... TTC159... GGC137... 3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	1 1 15 6/15 11 11 11 6/15 1/15 6/15 6/15 4 4 14 11 11 11	WE1650... BB12... RS216... WE1650... BB12... UR189... B99 UR193... BB20... BB21... UR189... B99 3S579... UR189... B99 RS215... WE4050... BB31... UR193... UR193... UR193... UR193...	B3 B3 B3 B3 B3 B98 B99 B264 B264 B264		5	6A7, 6D6, 85, 42, 80...	456	7-23		
118.....	Vol.	2VR219A...	6	Z12	6			GGC137... ZZC192A... YC98A... VVC221... GGC137... TTC159... GGC137... 3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	6/15 11 11 11 6/15 1/15 6/15 6/15 4 4 14 11 11 11	UR189... UR193... BB20... BB21... UR189... B99 3S579... UR189... B99 RS215... WE4050... BB31... UR193... UR193... UR193...	B98 B99 B264 B264 B98 B98 B264 B264 B264		4	6D6, 6C6, 43, 25Z5...	456	7-12		
119 (U6A Rev).....	Vol. Tone	ZZR190A... ZZR191A...	55 22	MR48... MR44...	M26			ZZC192A... YC98A... VVC221... GGC137... TTC159... GGC137... 3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	11 11 11 6/15 1/15 6/15 6/15 4 4 14 11 11 11	UR193... BB20... BB21... UR189... B99 3S579... UR189... B99 RS215... WE4050... BB31... UR193... UR193... UR193...	B99 B99 B264 B98 B98 B264 B264 B264		6	6A8, 6K7, 75, 43, 25Z5...	456	7-29		
120.....	Vol.	2VR219A...	6	Z12	6			VVC221... GGC137... TTC159... GGC137... 3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	11 6/15 1/15 6/15 6/15 4 4 14 11 11 11	BB21... UR189... B99 3S579... UR189... B99 RS215... WE4050... BB31... UR193... UR193... UR193...	B98 B98 B264 B98 B98 B264 B264 B264		4	6D6, 6C6, 43, 25Z5...	456	7-12		
121.....	Vol.	TTR159A...	6	E12	6	See Note A14		GGC137... TTC159... GGC137... 3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	6/15 1/15 6/15 6/15 4 4 14 11 11 11	UR189... B99 3S579... UR189... B99 RS215... WE4050... BB31... UR193... UR193... UR193...	B98 B98 B264 B98 B98 B264 B264 B264		5	6D6, 6C6, 43, 25Z5...	456	7-17,18		
126.....	Vol.	2VR219A...	6	Z12	6			3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	6/15 6/15 4 4 14 11 11 11	UR189... B99 RS215... WE4050... BB31... UR193... UR193... UR193...	B98 B98 B264 B264 B264		8	6K7, 6A8, 6R7, 6G5, 6C5-6J7, 6F6-6L6, 5W4...	456	7-12		
138.....	Vol. Tone		↓	MR48... MR48...				3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	4 4 14 11 11 11	WE4050... BB31... UR193... UR193... UR193... UR193...	B264 B264 B264 B264		5	6A7, 78, 77, 43, 25Z5...	132	4-5		
250.....	Vol.		6	Y	6	EX300		3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	4 4 14 11 11 11	WE4050... BB31... UR193... UR193... UR193... UR193...	B264 B264 B264		5	6A7, 78, 77, 43, 25Z5...	132	4-5		
250AW.....	Vol.		6	Y	6	EX300		3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	4 4 14 11 11 11	WE4050... BB31... UR193... UR193... UR193... UR193...	B264 B264 B264		5	6A7, 78, 77, 43, 25Z5...	132	4-5		
250LW.....	Vol.		6	Y	6	EX300		3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	4 4 14 11 11 11	WE4050... BB31... UR193... UR193... UR193... UR193...	B264 B264 B264		5	6A7, 78, 77, 43, 25Z5...	132	4-5		
280 (F6D).....	Vol.		17/15	Order from Mfr.				3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	4 4 14 11 11 11	WE4050... BB31... UR193... UR193... UR193... UR193...	B264 B264 B264		5	1C6, 34, 1A6, 33, LLL25...	456	6-19		
300.....	Vol.		6	Y	6	EX300		3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	4 4 14 11 11 11	WE4050... BB31... UR193... UR193... UR193... UR193...	B264 B264 B264		5	78, 77, 43, 25Z5...	172.5	3-6		
321AW, 330AW, 350AW.....	Vol.		6	Y	6	EX300		3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	4 4 14 11 11 11	WE4050... BB31... UR193... UR193... UR193... UR193...	B264 B264 B264		5	78, 77, 43, 25Z5...	172.5	3-6		
321LW, 350LW.....	Vol.		6	Y	6	EX300		3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	4 4 14 11 11 11	WE4050... BB31... UR193... UR193... UR193... UR193...	B264 B264 B264		5	25Z5, 43, 77, 78...	456	4-2		
375.....	Vol.		17	O	6			3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	4 4 14 11 11 11	WE4050... BB31... UR193... UR193... UR193... UR193...	B264 B264 B264		5	6A7, 78, 77, 43, 25Z5...	132	4-5		
375LW.....	Vol.	PR81	13	O	6		A88	3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	4 4 14 11 11 11	WE4050... BB31... UR193... UR193... UR193... UR193...	B264 B264 B264		6	6B7, 25Z5, 43, 78...	175	4-6		
409, 410, 411 (A4).....	Vol.	RR82	6	Y	6	EX300		3BC282... 3BC289... 3BC281... KC68... KC68... KC68...	4 4 14 11 11 11	WE4050... BB31... UR193... UR193... UR193... UR193...	B264							

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EMERSON—Continued	415, 416, Vol.		6	Y.	6	EX300		8-4.	4	2P542.					4	78, 77, 38, 1V		4-9
	415, 416 (Revised) Vol.		6	Y.	6	EX300		8-4.	4	2P542.					4	1V, 6C6, 6D6, 38.		5-10
	420 (V4) Vol.		6	Y.	6	EX300		8.	15	BB12.					4	78, 77, 38, 1V		4-10
	456 Vol.		6	Y.	6	EX300		QC78.	4	2P542.					5	77, 78, 43, 25Z5	456	4-2
	667 Vol.		17	UM161.	M26		A96	6-10.	11	UR193.	B264		296	C3	7	6A7, 41, 75, 78, 84.	172.5	5-11, 12
	678 Type 1 Vol.		1	See Note			A19	1C43.	15	BB12.					7			
	678 Type 1 Tone Supp. Vol.		149	H12.				.015.	1	Buffer.	B14		222		5	78, 6A7, 6B7, 41.	172.5	4-11
	678 Type 2 Vol.		1	C1MP.	6	See Note	A33	4-8.	13	See Note.	B3				5	78, 6A7, 6B7, 41.	172.5	4-11
	678 Type 2 Tone Supp. Vol.		39	SRP252.	6			4-8.	1	BB12.	B6		222		5	78, 6A7, 6B7, 41.	172.5	4-11
	L755 Vol.	JR46	6	H12.	6	See Note	A33	4-8.	13	See Note.	B3				7			
	L755 Tone Vol.	GR29	34	C1MP.	6			5.	15	BB12.	B6				7	55, 56, 58, 59, 80.	115	4-17
	M755 Vol.	GR28	6	E7.	6	2		1C43.	4	CM172.	B3				7	47, 55, 56, 58, 80.	175	4-18
	M755 Tone Vol.	GR29	34	SRP263.	6	2		1C43.	20	BB12.					7	47, 55, 56, 58, 80.	175	4-18
	S755 Vol.	GR28	6	E7.	6	2		1C43.	4	CM172.	B3				7	58, 59, 80, 57.	465	4-19, 20
	770 (AW7) Vol.		17	O.	6			1C43.	19	BB12.					7	6A7, 6D6, 42, 75, 80.	456	5-9
770 Tone Vol.		41	SRP263.	6			8, 8.	1	ST595.					7	6A7, 6D6, 42, 75, 80.	456	5-9	
965 Vol.	WR92	17	UM161.	M26		A96	4.	13	BB40.			296	C3	6	6A7, 41, 75, 78, 84.	172.5	5-13, 14	
965 Vol.		17	UM161.	M26		A96	ZC100.	1	2N518.		ZV-3	296	C3	6	6A7, 41, 75, 78, 84.	172.5	5-13, 14	
965 Vol.		17	UM161.	M26		A96	1C43.	15	BB12.					6	6A7, 41, 75, 78, 84.	172.5	5-13, 14	
965 Vol.		17	UM161.	M26		A96	.02.	15	Buffer.	B14				6	6A7, 41, 75, 78, 84.	172.5	5-13, 14	
EMPIRE	10 Vol.		7	UC509.	6	EX300		16-8.	6	2N504.				4	25Z5, 36, 39, 43.		4-1	
	20 Vol.		7	UC509.	6	EX300		2-4.	15	TN111.	B6			5	39, 36, 37, 43, 25Z5.		4-2	
	30 Vol.		6	SRP263.	6	EX200		16-8.	6	2N504.				5	77, 78, 43, 25Z5.	175	4-3	
	40 Vol.		18	N.	6			2-4.	15	TN111.	B6			6	6A7, 78, 75, 43, 37.			
	40SW Vol.		18	N.	6			16-16.	1	CM164.	B3			6	25Z5.	175	4-4	
	51 Vol.		17	N.	6			4-1.	18/15	See Note.	B3			6	6A7, 6D6, 75, 43, 25Z5.	456	5-1	
	60 Vol.		17	N.	6			4-16-16-8-4.	8/14	3N526/2N502.	B131			5	2A7, 58, 2A6, 2A5, 80.	175	5-2	
	60 Vol.		17	N.	6			8-4.	1	2N518.			292	C3	6	78, 6A7, 75, 41, 84.	175	4-5
	60 Vol.		17	N.	6			2-4.	15	TN111.	B6			6	78, 6A7, 75, 41, 84.	175	4-5	
	60 Vol.		17	N.	6			10-10.	1	TN111.	B6			6	78, 6A7, 75, 41, 84.	175	4-5	
	71 Vol.		18	N.	6			.02.	1	Buffer.	B14				7	2A5, 2A6, 2A7, 58, 80.	175	5-3
	74 Vol.		6	G12.	6			16-8.	23	See Note.	B3				7	58, 57, 2A5, 80.	462.5	4-6
	400AC Vol.		8	G.	3			8-8.	4	See Note.	B3				4	57, 58, 47, 80.		3-2
	400DC Vol.		3	G12.	6	EX200		6-6.	4	See Note.	B3				4	39, 36, 33.		3-1
	450A Vol.		17	N.	6			16-4-16-4-2.	8/13/15	3N526/2N500.	B132				5	6A7, 6D6, 75, 43.	456	5-4
	460B Vol.		17	N.	6			16-4-16-8-4.	8/15	3N526/2N502.	B131				6	6D6, 6A7, 75, 43.	456	5-5
	470C Vol.		17	N.	6			8-16.	1	See Note.	B3				7	58, 2A7, 2H7, 2A6.	456	5-6
	470C Vol.		17	N.	6			2.	13	CS130.					7	2A5, 80.	456	5-6
	470C Vol.		17	N.	6			4-4.	15	TN111.	B6				7	58, 2A7, 2H7, 2A6.	456	5-6
	480C Vol.		17	N.	6			16-4-16-8-4.	8/15	3N526/2N502.	B131				8	6D6, 6A7, 75, 43.	456	5-7
	500AC Vol.		8	G.	6			6.	13	See Note.	B3				5	25Z5.	456	5-7
	500AC Vol.		22	K12.	6			8, 8.	4	ST595.					5	58, 57, 47, 80.		3-3
	500DC Vol.		6	G12.	6	EX300		6-6.	4	2S567.					5	36, 37, 33.		3-1
	550AC Vol.		34	K12.	6			6-6.	4	2S567.					5	58, 47, 80.		3-4
	575 Vol.		6	G7.	6			8-8.	4	2S567.					5	57, 58, 55, 47, 80.	175	4-7
575 Vol.		22	K12.	6			8-8.	4	2S567.					5	57, 58, 55, 47, 80.	175	4-7	
600AC Vol.		7	G.	6			8-8.	4	2S567.					6	58, 24, 47, 80.		3-5	
600AC Vol.		22	K12.	6			8-8.	4	2S567.					6	58, 24, 47, 80.		3-5	
700DC Vol.		6	G7.	6	EX200		8-8.	4	2S567.					7	39, 37, 48.		5-8	
700DC Vol.		44	K12.	6			8-8.	4	2S567.					7	39, 37, 48.		5-8	
ERLA (ERLA-SENTINEL)	R1 (Power Pack "A") Vol.	so see Sentinel†	13	M.			2-1-2.	3	See Note.	B2				10	26, 27, 50, 81.		1-1	
	R2 (Power Pack "A" 2) Vol.		40	G12.			1-2-2.	3	See Note.	B1				10	26, 27, 71A, 80.		1-2	
	10M, 10MF Vol.	1145.	17	UM154.	M26		1188.	1	2N518.		1893.	294	C3	5	6A7, 6D6, 6B7, 41, 84.	370	8-5	
	11M Vol.	1145.	18	UM154.	M26	See Note	8876.	15	Buffer.	B14				6	6D6, 6A7, 75, 41, 84.	465	8-6	
	14A Vol.	1950.	34	M.	M26	See Note	.02.	4	CM172.	B14	1974.	294	C3	6	6D6, 6A7, 75, 41, 84.	465	8-6	
	14A Vol.	2220.	7, 18	DRP314.	6		1477.	1	Buffer.	B14				9	6D6, 76, 75, 41, 80.	465	9-1, 2	
	19A Vol.	1732.	44	M.	6		1476.	1	RS215.					6	6A7, 6D6, 75, 42, 80.	465	8-7	
	19A Vol.	2055.	18	N.	6		1476.	25	RS216.					6	6A7, 6D6, 75, 42, 80.	465	8-7	
	19A Vol.	2056.	34	K12.	6		1476.	25	RS216.					6	6A7, 6D6, 75, 42, 80.	465	8-7	
	20A Vol.	2055.	18	N.	6		1110.	13	RS215.					5	6A7, 6D6, 75, 42, 80.	465	7-1	
20A Vol.	2162.	22	MR29.	6			1476.	25	RS216.					5	6A7, 6D6, 75, 42, 80.	465	7-1	

† Data not substantiated.

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§ Indicates miscellaneous section.

† Rider References Volumes 1-5 are listed under Electrical Research Labs. Volume 6 and above will be found under Sentinel.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ERLA—Continued																		
22U	Vol. 2055	18	N	6			2159	11	UR182					5	6A7, 6K7, 75, 43, 25Z5	465		
25A	Vol. 2198	18	UM154-SS16				1477	25	RS215					7	6A7, 6D6, 75, 76, 441, 80	465		
27A	Vol. 2199	44	K12	6			1476	25	RS216					9	6D6, 76, 75, 441, 80	465		
	Vol. 2220	7/18	DRP314	6			1477	1	RS215									
	Vol. 1732	44	N				1476	1	RS216									
							1693	15	BB12					7	24, 27, 35, 47, 80		3-2	
30 (248)	Vol. 7812-0	22	UC501	6			8-8	1	See Note	B3								
30A	Vol. 1835	6	K12				2158	25	RS213					4	6D6, 6C6, 42, 80		8-8	
			SRP263	6	EX200		1260	25	RS213									
							8876	15	BB12									
31, 32, 33 (A3, R3)	Vol. 5584-0	6	G7				2-2-1	3	See Note	B3				8	27, 45, 80		2-1	
							.05		See Note	B9								
31B	Vol. 2198	18	UM154-SS16				2272	1	CM164	B14	2269	245A	C3	6	1C6, 34, 30, 19	465	6-1	
	Tone 2282	22	K12	7			.02		Buffer	B14								
32B	Vol. 2239	18	MR48											4	1C6, 34, 1B5, 33	465	8-9	
33B	Vol. 2290	18	N	14			2289	12	BB21					5	1C6, 34, 1B5, 30, 19	465	8-10	
	Tone 2162	22	MR29															
34B	Vol. 2260	18	MR48	M27			2272	1	CM164	B14	2269	245A	C3	4	1C6, 34, 1B5, 38	465	8-11	
	Tone 2239	57	MR48				.02		Buffer	B14								
35, 37, 38, 39 (230)	Vol. 6497-0	15	M				6638-0	14	RS213					9	24, 27, 45, 80		2-5	
	Tone 6484-0	41	O															
35B	Vol. 2198	18	UM154-SS16				2289	12	BB21					6	1C6, 34, 30, 19	465	6-3	
	Tone 2331	22	K12	14														
36L	Vol. 2055	18	N	6										6	6A7, 6D6, 75, 76, 448	465	8-12	
	Tone 2162	44	MR39															
37B	Vol. 2239	18	MR48											4	1C6, 34, 1B5, 33, 5E1	465	8-13	
38B	Vol. 2290	18	N	14			2289	13	BB21					5	1C6, 34, 1B5, 30, 19	465	8-14	
	Tone 2162	22	MR29															
39B	Vol. 2198	18	UM154-SS16				2289	13	BB21					6	1C6, 34, 30, 19	465	8-15	
	Tone 2331	22	K12	14														
40A, 40B	Vol. 2198	18	UM154-SS16				1477	25	RS215					6	6A7, 6D6, 6116, 6F5, 42, 80	465	8-16	
	Tone 2199	34	K12	6			1476	25	RS216									
47A, 47AE	Vol. 2699	18	TM228-SS16				3167	25	WE3050					11	6K7, 6I7, 6J7, 6116, 6G5, 6C5, 6F6, 5Z3	465	7-5-6	
	Tone 2700	22	K12	6			1476	25	RS216									
							3170	19	BB13									
							8876	15	BB12									
							1110	13	BB60									
48A	Vol. 2624	7	E		3		2627	1/15	3S579					5	6A7, 6D6, 76, 41, 80	465	8-17	
	Tone 2625	22	K12	6														
49B	Vol. 2239	18	MR48				2272	1	CM164	B14	2269	245A	C3	5	1C6, 34, 6B7, 30, 19	465	8-18	
	Tone 2282	22	K12	7			.02		Buffer	B14								
50B	Vol. 2198	45	UM154-SS16				2272	1	CM164	B14	2269	245A	C3	7	1C6, 34, 30, 19	465	8-19, 20	
	Tone 2282	22	K12	7			.02		Buffer	B14								
54A	Vol. 2239	18	MR48				2627	1/15	3S579					5	6A7, 6D6, 75, 41, 80	465	8-23	
	Tone 2199	22	K12	6														
55U	Vol. 2775	18	MR48	M26			12-20	27	2P549					5	6A7, 6D6, 75, 43, 25Z5	465	8-24	
60B	Vol. 2239	18	MR48				8-2	1	See Note	B3				4	1C6, 34, 1F6, 33, 5E1	465	8-25	
61, 62, 63 (250)	Vol. 7839-0	8	UC501				7850-0	1	BB60					6	24, 27, 35, 47, 80	175	3-2	
							3060	1	2N518		3069	245A	C3	4	15, 75, 41	465	8-26	
63B	Vol. 2239	18	MR48				1693	15	BB12									
	Tone 2239	22	MR48				.01		Buffer	B14								
65B	Vol. 2239	18	MR48				3150	13	RS216					5	1C6, 34, 1F6, 30, 19	465	8-27	
	Tone 2331	22	K12	14														
66B, 66BE	Vol. 2966	45	TM231-SS16				3060	1	2N518		3069	245A	C3	8	15, 6A7, 76, 6G5, 19	465	9-3, 4	
	Tone 2965	44	MR33	M26			8876	15	BB12									
							.02		Buffer	B14								
67L	Vol. 2239	18	MR48											6	6A7, 6D6, 75, 76, 448	465	10-4, 5	
	Tone 2199	22	K12	6														
68B, 68BE	Vol. 2239	45	MR48				3060	1	2N518		3069	245A	C3	7	6A7, 15, 76, 6G5, 19	465	10-4, 6	
	Tone 2199	22	K12	6			1693	15	BB12									
							.01-.01		Buffer	B14								
69U	Vol. 3171	6	H12	6	EX200		20-12	27	2P549					4	6D6, 6C6, 43, 25Z5			
							1693	15	BB12									
70A	Vol. 3024	7	E	6	3		3041	1	2N518					5	6A7, 6D6, 76, 41, 80	465	8-28	
71U	Vol. 2775	17	MR48	M26			20-12	27	2P549					5	6A7, 6D6, 75, 43, 25Z5	465	8-31	
72A, 72AE	Vol. 2775	17	MR48	M26			3041	1	2N518					6	6A7, 6D6, 75, 41, 80, 6G5	465	9-13	
	Tone 3545	22	K12															
73B	Vol. 3671	17	N				3060	1	2N518		3698	245	C3	5	6D8G, 6E8G, 6L5G, 41	465	10-7, 8	
	Tone 3545	22	K12				1693	15	BB12									
							.03		Buffer	B14								
74, 76 (210)	Vol. 6707-0	1				See Note								7	330, 332, 371A		2-2	
76A	Vol. 3403	20	TM251-SS16				3167	25	WE3050					11	6K7, 6A8, 6J7, 6116, 6C5, 6F6, 80	465	9-17, 19	
							3041	25/15	2N518									
							1110	13	BB60									
							1693	20	BB12									
75, 77 (231)	Vol. 6749-0	12	Z12	6										7	330, 332, 371A		2-6	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ERLA—Continued																		
78B.....	Vol. Tone	3761-2199	17-22	UM154-SS16 K12	6			3060-1693-03	1-15	2N518 BB12 Buffer	B14	3698	245	C3	7	6D8G, 26S7G, 26L5G, 6N5, 19	465	
80B.....	Vol.	2239	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	10-8,11
81, 82 (245).....	Vol. Tone	6887-0-6184-0	7-41	G O	6			6638-0	1	RS213					8	21, 27, 245, 80	175	1-5
81P, 82P (248).....	Vol. Tone	7812-0	7-22	UC501 K12	6			6638-0	1	RS213					7	24, 27, 235, 47, 80	175	3-2
82A, 82AE.....	Vol. Tone	3761-2199	17-22	UM154-SS16 K12	6			3718-1693	1-15	2N518 BB12					7	6A7, 6D6, 76, 75, 6G5, 41, 80	465	9-21,22
85U, 85UE.....	Vol. Tone	2775-3545	17-22	MR48 K12	M26			3638	27	2P553					6	6A7, 6D6, 75, 43, 6G5, 25Z5, M49B-M42G	465	9-20
86AE.....	Vol. Tone	4078-2199	17-44	TM251-SS16 K12	6			3718-1108	1-20	2N518 CS130					8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, 6K6G, 5Y4G	465	10-15,16
90B.....	Vol.	2239	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	9-23,24
93L.....	Vol. Tone	3761-2199	17-22	UM154-SS16 K12	6										6	6A7, 6D6, 75, 76, 348	465	9-25,26
95B.....	Vol. Tone	3761-2331	17-44	UM154-SS16 K12				3150-1693	12-15	RS216 BB12					6	1C6, 34, 1F6, 30 (4-1)	465	
96BE.....	Vol. Tone	2775-3545	17-22	MR48 K12	M26			3060-1693-03	1-15	2N518 BB12 Buffer	B14	3698	245	C3	6	6D8G, 26S7G, 6L5G, 6N5, 41	465	10-25,26
107AE.....	Vol. Tone	4408-1409	17-22	MR48 K12	6			3718	1	2N518					6	6A7, 6D6, 75, 6G5, 41, 80	465	10-33-36
221AC.....	Vol.	6167-0	12	F7	6			1-2-2-3	3	See Note	B1				8	24, 27, 245, 80		1-3
224B.....	Vol.	6167-0	12	F7	6			3-2-1-1	3	See Note	B1				8	24, 27, 245, 80		2-3
225.....	Vol. Tone	6779-0-6184-0	25-41	GE O				6638-0	1	RS213					8	24, 27, 245, 80		2-4
271A.....	Vol. Tone	6482-0-6777-0	25-57	GE N				6552-0	1	RS213					7	24, 27, 26, 45, 80		2-7
335.....	Vol.	6942-0	7	Y10MP	6	See Note A10		6958-0-6938-0	1-1	ST595 ST595					1	35, 24, 45, 80		1-6
336.....	Vol.	6974-0	7	G12	6			4-4	1	See Note	B11				1	36, 38		2-8
570, 570X.....	Vol.	9331	6	H7	6	2		4-20-8	11	UR182	B31				5	6A7, 78, 75, 43, 25Z5	262	
599.....	Vol.	9331	6	H7	6	2		4-20-8	11	UR182	B31				5	6A7, 78, 75, 43, 25Z5	262	
603.....	Vol.	1229	17	N	6			1247	1	2N518		1245	292	C3	6	78, 6A7, 75, 41, 84	265	5-1
620, 622, 623.....	Vol. Tone	9666-9174	17-22	M K12	6			9659-8876	1-15	RM262 BB12	B14				6	75, 58, 2A6, 2A5, 80	465	
630, 634, 635.....	Vol. Tone	9666-9174	17-22	M K12	6			9659-8876	1-15	RM262 BB12					6	75, 58, 2A6, 2A5, 80	465	
5001, 5002.....	Vol.	9611	6	H12		EX250		9925	12	CS133					5	78, 37, 77, 38	465	
5700, 5721.....	Vol.	1104	18	N	6			5-5	15	TN111					5	2A7, 58, 2A6, 2A5, 80	465	5-3
6100.....	Vol.	9611	6	H12		EX250		1108-9925	12-1	CS130 CS133		8701	F221	C3	6	78, 77, 38, 37, 25Z5/84	465	5-5
6300, 6315, 6317, 6323.....	Vol. Tone	9666-9174	17-22	M K12	6			9659-1110-8876	1-13-15	RM262 BB60 BB12					6	2A7, 258, 2A6, 2A5, 80	465	5-7,8
6900.....	Vol.	1004	18	N	6			1108	12	CS133					6	6A7, 6D6, 75, 76, 348	465	8-29,30
7700, 7732, 7741.....	Vol.	1289	18	N	7			8705	1	CS133					6	1C6, 34, 330, 32, 19	465	5-11
8100B.....	Vol. Tone	1495-1732	18-39	MR48 M	M26			9328-02-02	15	TN111 Buffer	B14				8	26D6, 6A7, 76, 75, 241, 5Z3	465	7-17,18
ESPEY																		
675.....	Vol. Tone		17-41	MR48 MR48				20-30-16-10	12-6-6-15	BR25 BB26 BB24 BB12					7	6A7, 6D6, 6R7, 243, 25Z5	456	8-1
771.....	Vol. Tone	771-677-1	4-4	MR53 MR48	M26			677-678	4-4	TN129 TN111					6	6A8B, 6K7, 6Q7B, 25L6, 25Z6B, BK23B	456	
782.....	Vol. Tone	771-677-1	4-4	MR53 MR48	M26			677-678	4-4	TN129 TN111					7	6A8B, 6K7, 6Q7B, 25L6, 6C5, 25Z6B, BK23B	456	
891.....	Vol. Tone	771-677-1	4-4	MR53 MR48	M26			677-5-228-678	4-4	TN129 TN129 TN111	B8				9	6A8B, 6K7, 6R7, 6C5, 25Z6B, 25L6, 6G5	456	
5111.....	Vol. Tone		18-41	N N				30-16	1-1/13	BB26 BB24					10	6A7, 6K7, 6R7, 43, 25Z5	456	8-2
7111.....	Vol. Tone Sen.	7152-1-7152-2-7152-3	15-39-7	MR53 MR48	M26			5-117-678	1-15	RS216 WE4050 TN111					11	6K7, 6L7, 6116, 6E5, 6F5, 6C5, 26L6, 5Z3	456	8-3
7151, 7153.....	Vol. Tone Sen.	7152-1-7152-2-7152-3	80-80-7	MR53 MR48	M26			677-5-228-10	6/13-12-15	TN129 TN129 BB12	B8				15	6K7, 6L7, 6Q7, 6C5, 6C5, 25L6, 25Z5	456	8-4

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
EVEREADY—See National Carbon.																		
EVERETTE PIANO—See "Oratron"																		
FADA																		
A661PC, A66T.....	Vol.	50.61	15	TM251-SS1	M26			20.107	4	2S569				6	6A8G, 6K7G, 76, 6F5G, 6V6G, 80, 25L6G, 25Z5	456	11-11	
A761PC, A76T.....	Vol.	50.61	15	TM251-SS1	M26			20.109	8/15	TN129/BB15				6	6A8G, 6K7G, 6Q7G, 25L6G, 25Z5	456	11-15	
B49.....	Vol.	50.58	18	MR48	M26			20.89	19	BB15				4	1A7G, 1N5G, 1H5G, 1C5G	456	10-11	
B49SW.....	Vol.	50.59A	15	MR48	M27			20.85	12	BB21				4	1A7G, 1N5G, 1H5G, 1Q5G	456		
C49.....	Vol.	50.58	18	MR48	M26			20.89	19	BB15				4	1A7G, 1N5G, 1H5G, 1C5G	456	10-11	
D174.....	Vol. Tone	50.70 55.29	140 140	† †			A19 A5	20.125	1/13	BB64				7	6SA7GT, 6SK7GT, 6K6GT, 6SQ7GT, 80	456	12-11	
D175.....	Vol. Tone	50.70 55.29	140 140	† †			A19 A5	20.125 60-30	8 8	BB24 2N515				8	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	456	12-12	
F25.....	Vol.	50.51A	18	MR48	M26			20-103B	1	2N514				5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	456	11-1	
F44, F45.....	Vol.	50.55	6	MR33	M26			20.106	1	2N514				4	12K7GT, 12J7GT, 50L6GT, 45Z5GT		11-2	
F55.....	Vol.	50.51A	18	MR48	M26			20.103	1	2N509				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	456	10-13	
KA60.....	Vol.	2-1451MS	15	O				2-2-2-1-1	66/13	See Note	B1			9	24A, 27, 45, 80			
KB (81, 82, 84, 86).....	Vol.	2-1451MS	15	O				2-5-2-1-2	3	See Note	B7			12	24, 27, 71A		2-7	
KE (122).....	Sen. Vol.	2-1497MS	12	E12														
KF (43) KG (761, 762, 764, 766).....	Vol.	3-1210MS	12	Y	13									7	30, 31, 32		2-8	
KO (51) KOC (53, 57).....	Vol.	3-1236MS	24	DRP119				2-2-1-1	30/14	See Note	B1			7	24, 27, 45, 80		1-21	
KOC (171, 173) 110 V DC.....	Vol.	3-1269MS	8	F	6	See Note A39		3-1301-MS, 3-1313-MS	1 17	RS213, BB15				7	35, 24, 27, 47, 80	175	1-30	
KU (45, 45Z).....	Vol.	3-1337MS	8	F	6	See Note A40		3-1301-MS	3	RS213	B10			8	36, 37, 38	175	2-9	
KW (48, 49).....	Vol.	3-1269MS	7	F	6	See Note A85		3-1301-MS	3	RS213				8	35, 27, 24, 47, 80	175	1-22	
	F.O.G. Tone	3-1324MS	78	O	6			3-1301-MS	3	RS213				10	27, 35, 47, 80	175	1-23	
	Vol.	4-1497MS	41	F	6	A90												
KX (61, 66).....	Vol.	3-1324MS	42	UC509				3-1301-MS, 3-1384-MS	4 4	RS213, RS213				5	35, 24, 47, 80		2-6	
KY (66) Early, Late L26.....	Vol.	3-1337MS	42	F	6			3-1301-MS, 3-1384-MS	4 4	RS213, RS213				10	24, 35, 27, 47, 80	175	3-10, 14	
	Vol.	50.51A	18	MR48	M26			20.103B	1	2N514				5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	11-1	
L56.....	Vol.	50.51A	18	MR48	M26			20.103A	1	2N514				5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	11-4	
L67C, L67T.....	Vol. Tone	50.47A 55.20	18 22	MR48 MR48	M26			20.82	6/15	3N534				5	6SA7GT, 6K7GT, 6SQ7GT, 25L6GT, 25Z5	465	11-12	
L96.....	Vol. Tone	50.47A 55.20	18 22	MR48 MR48	M26			20.103A	1	2N514				5	6SA7GT, 6D6, 6Q7G, 25L6G, 25Z5	456	11-7	
L96A.....	Vol. Tone	50.47A 55.20	18 22	MR48 MR48	M26			20.108	1	3N534				5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456		
LA60.....	Vol.	50.47A	18	MR48	M26			20.108A	1/15	2N514/BB15				5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	11-1	
LW36.....	Vol.	50.47A	18	MR48	M26			20.108C	1/15	3N534				5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	12-5	
NA (14).....	Vol. Tone	5-1214MS 5-1213MS	64 57	O UC509	6		A90	5-1209-MS, 4-1343-MS	1 15	RM262, TN111				6	6A7, 6D6, 37, 42, 77, 80	265	4-15	
NE (151, 152).....	Vol. Tone	4-1444MS 5-1215MS	15 57	O M	6			5-1209-MS, 4-1343-MS	1 15	RM262, TN111				6	6A7, 6D6, 37, 77, 42, 80	265	4-16	
NF.....	Vol. Tone	5-1214MS 5-1241MS	17 57	O UC502	6			4-1488-MS, 4-1314-MS	1 15/19	2N518, BB12				6	6A7, 6B7, 6D6, 42, 80	125	5-2	
NK (126, 127, 128).....	Vol. Tone	5-1241MS 16	57 34	O M	7			4-1380-MS	1	2N516		5-1298VS	245A	C3	7	34, 1A7, 30	262.5	7-8
P23 (1940).....	Vol.	50.67	18	MR48	M27			20.103B, 20.120	76 76/4	2N509				6	2N5GT, 1A7GT, 1H5GT, 3Q5GT, 35Z5	456	12-1	
P24.....	Vol.	50.67	18	MR48	M27			20.118, 20.123	1 1	2N513				7	2N5GT, 1A7GT, 1H5GT, 3Q5GT, 50L6GT, 35Z5GT	456	12-2	
P28.....	Vol.	50.65	18	MR48	M27			20.112	1	3N528				5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	456	12-4	

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FADA—Continued																		
P40.....	Vol.	50.60.....	18	MR48	M27			20.85	12	BB21					4	1A7G, 1N5G, 1H5G, 1Q5G	456	11-2
P47, P49.....	Vol.	50.58.....	18	MR48	M26			20.89	19	BB15					4	1A7G, 1N5G, 1H5G, 1C5G	456	10-11
P49SW.....	Vol.	50.59A.....	15	MR48	M27			20.85	12	BB21					4	1A7G, 1N5G, 1H5G, 1Q5G	456	
P50, PL50, PUL50.....	Vol. Phono.	50.55..... 50.57.....	6 63	MR33	M26		See Note A5	20.100A	1	2N509					4	6D6, 6C6, 25L6G, 25Z5/25Z6GT, 115.53		11-3
P58, PL58.....	Vol.	50.60.....	18	MR48	M27			20.92 20.89	1 15/19	2N514 BB15					5	1A7GT, 1N5GT, 1H5GT, 1Q5GT, 70A7GT	456	11-5
P60.....	Vol. Tone	50.51A..... 55.25.....	18 1	MR48	M26		See Note A5	20.84 20.83	1 1	BB26 BB24					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	11-6
PL60, PUL60.....	Vol. Tone	50.51A..... 55.25.....	18 1	MR48	M26		See Note A5	20.105 20.104	1 1	BB26 BB24					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	456	11-7
RA (74, 76, 83, 88, 89).....	Vol. F.O.G.	3-1403MS..... 3-1440MS.....	15 1	O..... Y25MP	6			3-1473-MS..... 3-1384-MS..... 3-1301-MS..... 3-1313-MS.....	28 28 28 15	RS213 RS213 RS213 BB15					9	58, 56, 47, 80	175	3-22
RC (78, 79).....	Vol. F.O.G.	3-1456MS..... 3-1440MS.....	1 1	NN..... Y25MP	6			3-1473-MS..... 3-1384-MS.....	28 28	RS213 RS213					11	58, 56, 57, 47, 80	175	3-23
RE (73, 75, 85, 98).....	Vol. Sil.	3-1191-MS..... 3-1403-MS.....	12 17	G12..... O.....	6			3-1381-MS..... 3-1473-MS..... 3-1301-MS..... 3-1313-MS.....	28 25 25 17	RS213 RS213 RS213 BB15					7	58, 55, 56, 47, 80	175	3-18
RG (55).....	Vol.	4-1210MS.....	6	G12.....	6			4-1219-MS.....	1	RS213					5	57, 58, 47, 80	175	3-6
RH (74, 76, 83, 87, 88, 89, 97).....	Vol. F.O.G.	3-1403MS..... 3-1440MS.....	15 1	O..... Y25MP	6			3-1473-MS..... 3-1384-MS..... 3-1301-MS..... 3-1313-MS.....	28 28 28 15	RS213 RS213 RS213 BB15					9	56, 58, 47, 80	175	
RK (101 Motocet).....	Vol.	4-1259MS.....	17	UM154.....	M26	See Note A96		4-1254-MS..... 4-1312-MS..... 4-1314-MS.....	1 6 15	2N518 Buffer..... 2N502	B14	4-1252MS.....	221	C3	8	39, 37, 84, 85, 89	175	3-26
RL (103 Fadalette).....	Vol.	4-1305MS.....	6	G12.....	6			4-1362-MS..... 4-1343-MS.....	6 15	TN120..... TN111	B10				4	36, 38, 39, 25Z5		3-25
RN (105, 106, 107).....	Vol.	4-1328MS.....	17	O.....	6			4-1362-MS..... 4-1343-MS.....	6 15	TN120..... TN111	B10				5	6A7, 78, 6B7, 43, 25Z5	170	4-8
RP (102 Motocet).....	Vol. Tone	4-1259MS..... 4-1378MS.....	16 44	UM154..... L.....	M26	See Note A96		4-1254-MS..... 4-1363-MS..... 4-1367-MS.....	1 12 15	2N518 CS133 BB12		4-1252MS.....	221	C3	8	37, 39, 85, 89, 79, 84	175	4-5
RS (112).....	Vol. Tone	4-1328MS..... 4-1378MS.....	17 22	O..... L.....	6			4-1362-MS..... 4-1343-MS.....	6 15	TN120..... TN111	B14				5	6A7, 78, 6B7, 43, 25Z5	470	4-11
RU (131, 132).....	Vol. Tone	4-1444MS..... 4-1443MS.....	15 22	O..... L.....	6			4-1450-MS..... 4-1451-MS..... 4-1343-MS.....	9 9 15	RM257 RS213 TN111					6	6A7, 6D6, 25Z5, 37, 43, 77	265	4-12
RV (104B) Auto.....	Vol.	4-1385MS.....	17	UM161.....	M26		A96	4-1254-MS..... 4-1343-MS..... 4-1439-MS.....	1 15 15	2N518 TN111 BB12		4-1252MS.....	221	C3	6	6A7, 6B7, 78, 41, 84	175	4-7
RW, 78-10, 79-10, 97-10, 133, 134, 135.....	Vol. Tone F.O.G.	4-1474MS..... 4-1497MS..... 3-1491MS.....	17 21 1	O..... UC509 G12	6		A90	4-1488MS..... 4-1494MS.....	28 28	2N518 RS213					9	6D6, 37, 85, 42, 80	265	4-14
RX 93, 95.....	Vol.	3-1403MS.....	17	O.....	6			3-1473MS..... 3-1384MS.....	1 1	RS213 RS213					7	58, 55, 56, 47, 80	125	4-1
RY (108, 109, 125).....	Vol.	4-1328MS.....	17	O.....	6			4-1362MS..... 4-1343MS.....	6 15	TN120..... TN111	B10				5	6A7, 78, 6B7, 43, 25Z5	170	4-10
S46.....	Vol.	50.45.....	18	MR53.....	M26			20.79	1/15	3N526					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z5, 115.41	456	10-10
T49.....	Vol.	50.58.....	18	MR48.....	M26			20.89	1	BB15					4	1A7G, 1N5G, 1H5G, 1C5G	456	10-11
5F50.....	Vol.	50.55.....	6	MR33.....	M26			20.100	1	2N509					4	6D6, 6C6, 25L6G, 114.53, 25Z5		10-1
5F60.....	Vol.	50.51.....	18	MR48.....	M26			20.84 20.83	1 1	BB26 BB24					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	9-14
6A39.....	Vol. Tone	50.47A..... 55.20.....	18 22	MR48..... MR48	M26			20.82	1/15	3N534					5	6A8GT, 6D6, 6Q7GT, 25L6G, 25Z5	456	
6A51.....	Vol.	50.47A.....	18	MR48.....	M26			8-8 25	4 19	2S567 BB15					5	6A7, 6D6, 6Q7G, 6Y6G, 80	465	10-3
6A54.....	Vol.	50.45.....	18	MR53.....	M26			20.80A	23	2S563					5	6A8G, 6K7, 6Q7G, 6Y6G, 80	456	10-12
6A60.....	Vol.	50.47A.....	18	MR48.....	M26			20.84 20.83	1 1	BB26 BB24					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	10-9

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replace- ment	*Note				
FADA—Continued																		
6A61.....	Vol.	50.47A	18	MR48	M26			20.95	1/13/15	TN129/BB15					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	10-3
6A65.....	Vol.	50.53	15	TM251-SS1	M26			20.3	1	RS216					6	6A8G, 6D6, 76, 6Q7G, 6V6G, 80	456	10-4
6A70.....	Vol. Tone	50.50 55.22	15 22	MR53	M26		See Note	20.89	15	BB15					6	6A8G, 6D6, 76, 6Q7G, 25L6G, 25Z5, 115.55	456	10-1
6A80.....	Vol.	50.53	18	TM251-SS1	M26			20.92A	6	2N514					8	6A7, 6A8G, 6Q7G, 6E5, 6Y6G, 80	456	10-5,6
10, 10Z, 11, 11Z.....	Vol.	1469MS	14	SRP256				↑	↑	See Note	B1				7	527, 71, 80		1-10
15M, 15MZ.....	Vol.	2-1316MS	11	SRP257				↑	↑	See Note	B1				8	527, 24, 345, 80		1-15
16, 16Z, 17.....	Vol.	2-1303MS	4	SRP256		(Early)	A27	↑	↑	See Note	B1				8	527, 71, 80		1-11
18DC.....	Vol.	2-1316MS	8	SRP257		(Late)	A4	↑	↑	See Note	B7				7	512A, 71A		1-12
20, 20Z (1929).....	Vol.	2-1316MS	8	SRP257				1-2-2-1	↑	See Note	B1				8	527, 71, 80		1-13
20, 20A, 20T.....	Vol.	50.30	6	E12	6	2		20.79	1	3N526				5	6A7, 6D6, 76, 25L6G, 25Z5, 115.41	456	9-1	
21.....	Vol.	50.55	6	MR33	M26			20.100A	1	2N509				4	6K7GT, 6J7GT, 25L6GT, 25Z6GT, 115.53		11-1	
25, 25Z.....	Vol.	2-1316MS	11	SRP257				↑	↑	See Note	B1				8	527, 24, 345, 80		1-15
27.....	Vol. Tone	50.64 50.26	18 22	MR48	M26			20.81B	23/19	2S567/BB14				5	6SA7GT, 6K7GT, 6SQ7GT, 6V6GT, 80	456	12-3	
30, 30Z, 31, 31Z.....	Vol.	1469MS	35	SRP256				↑	3	See Note	B1			7	527, 71, 80		1-10	
30 (Late).....	Vol.	50.47A	18	MR48	M26			20.84	1	BB26				5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, 115.41	456	10-8	
31.....	Vol. Tone	50.47A 55.20	18 22	MR48	M26			20.83	1	BB24				5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	10-8	
32, 32Z.....	Vol.	2-1303MS	8	SRP257				↑	↑	See Note	B1			8	527, 71, 80		1-11	
32 (Late).....	Vol. Vol.	2-1316MS 50.47A	4 18	SRP256 MR48	M26	(Early)	A27	20.97	23	RS213	B3			5	6A7, 6D6, 6Q7G, 6Y6G, 80	456	10-9	
35, 35Z.....	Vol.	2-1357MS	12	D12				↑	↑	HS690				7	24, 327, 345, 81 (or 80)		1-18	
40.....	Vol. Tone	2-1418MS 2-1421MS	25 21	↑ O			See Note	↑	↑	HS690				8	24, 327, 345, 80		1-19	
41, 42.....	Vol.	2-1451MS	61	O				↑	↑	See Note	B1			9	24, 327, 345, 80		1-20	
43.....	Vol.	3-1236MS	24	1DRP119				2-2-1-1	3/14	See Note	B1			7	24A, 27, 345, 80		1-21	
44.....	Vol.	2-1451MS	64	O				↑	↑	See Note	B1			9	24, 327, 345, 80		1-20	
46, 47.....	Vol.	2-1451MS	64	O				↑	↑	See Note	B3			9	24, 327, 345, 80		1-20	
48, 49.....	Vol.	3-1326MS	↑	↑			See Note	8-8-8	3	See Note	B3			10	27, 345, 347, 80		1-24	
50, 50Z.....	F.O.G.	3-1324MS	↑	F7				↑	↑	See Note	B3			9	27, 71A, 80		1-25	
52.....	Vol.	1469MS	14	SRP256				↑	↑	See Note	B1			5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	456	11-4	
53.....	Vol.	50.51	18	MR48	M26			20.105	1	BB26				5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	456	11-4	
54.....	Vol.	50.45	18	MR53	M26			20.104	1	BB24				5	6A8G, 6K7, 6Q7G, 6Y6G, 80	456	10-12	
57.....	Vol.	50.51A	18	MR48	M26			20.80A	23	2S563				5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	456	11-5	
59.....	Vol.	50.51A	18	MR48	M26			20.103A	1	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT, 120.17	456	10-13	
60.....	Vol.	50.47A	18	MR48	M26			20.105	1	BB26				5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, 115.41	456	10-9	
61.....	Vol. Tone	50.47A 55.20	18 22	MR48	M26			20.84	1	BB26				5	6A7, 6D6, 6Q7G, 25L6G, 25Z5, 115.41	456	10-9	
63.....	Vol.	50.47A	18	MR48	M26			20.83	1	BB24				5	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 25Z5	456	11-6	
64APC.....	Vol.	50.53	17	TM251-SS1	M26			20.108	1	3N534				5	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 25Z5	456	11-8	
65PC.....	Vol. Tone	50.62 55.20	15 22	MR53	M26			20.104	1	BB24				5	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 25Z5	456	11-8	
68.....	Vol. Tone	50.64 55.26	18 22	MR48	M26			20.105	24	BB26				6	6SA7GT, 6K7GT, 6P5GT, 6SQ7GT, 6V6G, 80	456	11-9	
69.....	Vol. Tone	50.47A 55.20	18 22	MR48	M26			20.107	4	2S569				6	6A8G, 6K7G, 76, 6F5G, 6Y6G, 80	456	11-10	
70, 71, 72, 70Z.....	Vol.	1469MS	14	SRP257				20.110	1/15	3N534				5	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 25Z5	456	11-14	
74APC.....	Vol.	50.53	17	TM251-SS1	M26			20.108	1/15	3N534				5	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 25Z5	456	11-6	
	Vol.	50.53	17	TM251-SS1	M26			20.109	1/15	TN129/BB15				9	527, 71A, 80		1-25	
	Vol.	50.53	17	TM251-SS1	M26			20.89	15	BB15				6	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 25Z5, 115.68	456	11-13	

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FADA—Continued																		
75.....	Vol.	2-1316MS	12	SRP257				20.109	8/15	See Note	B1				8	24, 327, 310, 81	1-29	
751C.....	Vol.	50.62	15	MR53	M26			20.109	8/15	TN129/BB15					6	6A8C, 6K7G, 6Q7G, 25L6G, 25Z5	456	
	Tone	55.20	22	MR48											8	24, 327, 310, 81	1-29	
77.....	Vol.	2-1316MS	12	SRP257				4-8	24	See Note	B1				4	6D6, 6C6, 38, 12Z3		
110A, 110B.....	Vol.		6	UC509	6	EX200		2-4	15	TN111					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT		
115, 116.....	Vol.	50.69A	18	MR48	M26			20.106A	1	2N514					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	456 12-6	
119.....	Vol.	50.47A	18	MR48	M26			20.122	1	2N513					5	12K7GT, 12J7GT, 50L6GT, 35Z5GT, 115.96	456 12-7	
	Tone	55.20	22	MR48											4	12K7GT, 12J7GT, 50L6GT, 35Z5GT	12-8	
120.....	Vol.	50.55	6	MR33	M26			20.103B	1	2N514					5	6C6, 6D6, 43, 25Z5	175	
130.....	Vol.	50.11	6	SRP263	6	EX200		20.22	6	2N504					5	6A7, 6D6, 6C6, 43, 25Z5	175	
130L.....	Vol.		6	SRP263	6	EX200		20.17	15	TN111					5	6A7, 6D6, 6C6, 43, 25Z5	175	
137.....	Vol.	50.51A	18	MR48	M26			20.22	6	2N504					5	6A7, 6D6, 6C6, 43, 25Z5	175	
								20.17	15	TN111					5	12SA7GT, 12K7GT, 12SQ7GT		
140.....	Vol.		18	MR48	M26			16-16	6	2N506					6	6A7, 6D6, 75, 43, 37, 25Z5	456 12-8	
140L.....	Vol.		18	MR48	M26			4-4	6/15	2N500					6	6A7, 6D6, 75, 43, 37, 25Z5	175	
								16-16	8	2N506					6	6D6, 6A7, 75, 43, 25Z5	175	
140SW.....	Vol.		18	MR48	M26			4-4	8/15	2N500					6	6D6, 6A7, 75, 43, 25Z5	175	
								8-4-4-16-16	8/15	2N506/3N520					6	6D6, 6A7, 75, 43, 25Z5	175	
150 (Two Types).....	Vol.	50.1	17	MR48	M26			20.8	1/15	3S579					5	6A7, 6F6-42, 6K7-6D6, 75, 80	456 6-1	
150A.....	Vol.	50.14	17	O	6			20.33C	1/15	4S718					5	6A7, 6K7, 75, 6F6, 80	456	
153.....	Vol.	50.47A	18	MR48	M26			20.103B	1	2N514					5	6SA7, 6SK7, 6SQ7, 25L6GT, 25Z6GT	456 12-7, 15	
154.....	Vol.	50.47A	18	MR48	M26			20.124	1	2N514					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	456 12-9, 15	
155.....	Vol.	50.6	4	G12	6	EX450		20.28	6/15	3N526					5	6A7, 6D6, 76, 43, 25Z5	436 6-3	
156.....	Vol.	50.6	6	G12	6	EX450		20.28	6/15	3N526					5	6A7, 6D6, 76, 43, 25Z5	456 6-5	
157.....	Vol.	50.6	6	G12	6	EX450		20.35	6/15	3N525					5	6A8, 6C5, 6K7, 43, 25Z5	436 6-6	
158, 159.....	Vol.	50.6	6	G12	6	EX450		20.28	6/15	3N526					5	6A7, 6D6, 76, 43, 25Z5	456	
160.....	Vol.	50.13	17	O	6			20.33A	1/15	4S718					6	6A8, 6K7, 6116, 6F5, 6F6, 5Z4	456 6-7	
160A.....	Vol.	50.14	15	O	6			20.33C	1/15	4S718					6	6A8, 6K7, 6116, 6F5, 6F6, 5Z4	456	
162.....	Vol.	50.18	18	MR53	M28			20.37	12	BB20					6	34, 1C6, 1B5, 30, 19	456	
163.....	Vol.	50.19	15	UM161	M26		A96	20.38	1	2N518		90.102	245	C3	6	6K7, 6A8, 75, 6C5, 79	456	
								20.39	15	TN111					6			
								20.40	13	BB40					6			
								.005		Buffer	B14							
165.....	Vol.	50.14	17	O	6			20.1A	8/15	2N506/2N500					6	6A8, 6K7, 75, 6116, 43, 25Z5	456	
166 Motoset.....	Vol.	50.8	17	O	6	EC240		20.29	1	2N518		90.17	253Y	C3	6	7B, 6A7, 75, 41, 84	175 6-9	
	Tone	55.4	22	MR39				20.30	15	TN111					6			
								.01	6/15	Buffer	B14				6	6A7, 6K7, 75, 6116, 43, 25Z5	456 7-1, 2	
167, 168.....	Vol.	50.1	17	N	6			20.36	6/15	4S715					6	6A7, 6K7, 75, 6116, 43, 25Z5	456	
	Tone	55.10	22	MR44											6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6	456 12-10	
169.....	Vol.	50.47A	18	MR48	M26			20.121	63	2N513					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6	456	
	Tone		22	MR48				20.105	24	2-BB26	B12				5			
								16	63	BB24					5			
								16	63	BB24	B12				5			
170.....	Vol.	50.14	17	O	6			20.33A	1/15	4S718					7	6A8, 6F5, 6F6, 6116, 6K7, 5Z4	456 6-11	
								20.31	13	CS133					7	6A7, 6K7, 75, 6116, 43, 25Z5	456	
174.....	Vol.	50.70	124				A19	20.125	1/13	BB64					7	6SA7GT, 6SK7GT, 6K6GT, 6SQ7GT, 80	456 12-11	
	Tone	55.29	22				A5								7	6SA7GT, 6SK7GT, 6K6GT, 6SQ7GT, 80	456	
176.....	Vol.	50.72	124				A19	20.107A	4	2S569					7	6SK7GT, 6SA7GT, 6P5GT, 6SQ7GT, 6V6GT, 80	456 12-13	
															7	6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 80	456 12-11	
184.....	Vol.	50.70	124				A19	20.125	1/13	BB64					7	6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 80	456 12-11	
	Tone	55.29	22				A5								7	6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 80	456 12-11	
190.....	Vol.	50.16	17	O	6			20.7	1	WE1250					9	6A8, 6F5, 6F6, 6116, 6K7, 5Z4	456 6-13	
								20.4	1	RS213					9	6A8, 6F5, 6F6, 6116, 6K7, 5Z4	456 6-13	
								20.34	13	CS133					9	6A8, 6F5, 6F6, 6116, 6K7, 5Z4	456 6-13	
								20.6	15	TN111					9	6A8, 6F5, 6F6, 6116, 6K7, 5Z4	456 6-13	
192.....	Vol.	50.17	7/17	DRP314	8			20.32	1	4S715/2N502	B139				9	6K7, 6A8, 6116, 6C5, 243, 25Z5	456 6-17	
193.....	Vol.	50.17	7/17	DRP314	8			20.32	1	4S715/2N502	B139				9	6K7, 6A8, 6116, 6C5, 243, 25Z5	456 6-17	

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FADA—Continued																		
211	Vol. Tone	50.25 55.11	17 22	TM234-SS1 N	M28 6			20.47 20.25 20.44	6 13 15	2N514 BB21 TN111					10	*6K7, 6A8, 6Q7, 6C5, *25A6, 6G5, *25Z6	456	7-3
211B (220V)	Vol. Tone	50.25 55.11	17 22	TM234-SS1 N	M28 6			20.54 20.55	13	Order from Mfr. BB31					10	*6K7, 6A8, 6Q7, 6C5, 6G5, *25A6, *25Z6	456	8-3
212	F.O.G. Vol. Tone	50.24 50.25 55.13	† 17 22	O TM234-SS1 N	8 M28			20.44 20.50 20.4	15 3 3	TN111 WE1650 RS213					12	*6K7, 6L7, *6C5, 6Q7, *6L6, 6E5, *5W4	456	8-4
216	F.O.G. Vol. Tone	50.24 50.25 55.13	† 17 22	O TM234-SS1 N	8 M28			20.44 20.47 20.52	15 1 8	TN111 2N514 2N509					15	*6K7, 6L7, *6C5, 6Q7, *25A6, *25Z6, 6G5	456	8-5
242	Vol.	50.28	17	MR53	M27			20.27	12	BB20					4	1C6, 1A4, 1F6, 1F4	456	8-9
246	Vol.	50.28	17	MR53	M27			20.57	1	2N516		90.147	W215	C3	4	1C6, 1A4, 1F6, 1F4	456	8-10
250	Vol.	50.27	6	E12	6			.007	1	Buffer	B14				5	6A7, 6D6, 76, 6B5, 80	456	7-4
254	Vol.	50.29	6	E12	6	EX200		20.18 20.58	1 1/15	2N518 3S579					5	6A8, 6D6, 76, 251L6, 25Z5	456	8-12
255	Vol. Tone	50.26 55.12	114 114	MR53 MR48	M26			20.48 20.39	1 15	2N518 BB12					5	6A7, 6D6, 75, 6B5, 80	456	8-13
260	Vol.	50.21	6	MR18	M26	EX450		20.49	6/15	3N526					5	6A7, 6D6, 76, 43, 25Z5	456	7-5
261	Vol.	50.22	6	MR18	M26	EX250		20.49	6/15	3N526					5	6A7, 6D6, 76, 43, 25Z5	456	8-14
262	Vol.	50.22	6	MR18	M26	EX250		20.49	6/15	3N526					5	6A8, 6K7, 6C5, 43, 25Z5	456	7-7
265	Vol. Tone	50.26 55.12	114 114	MR53 MR48	M26			20.48	1	2N518					6	6A7, 6D6, 75, 6B5, 6G5, 80	456	8-15
266, 266SD, 266SG	Vol. Tone	50.8 55.4	17 22	O MR39	6	EC240		20.42 20.30	1 15	2N518 TN111		90.63	294	C3	6	78, 6A7, 6K7, 6Q7, 41, 84	175	8-16
267 Series	Vol. Tone	50.31 55.14	17 22	UM161 MR39	M26		A96	.007 .004	4	Buffer RM262	B14	90.63	294	C3	6	78, 6A7, 75, 41, 84	175	8-17
270, 271	Vol. Tone	50.23 55.11	15 22	O N	8 6			20.4 20.45	1 12	RS213 CS133					7	6A8, 6K7, 6I16, 6F5, 6F6, 5W4, 6G5	456	7-9,11
272, 273	Vol. Tone	50.26 55.12	17 21	MR53 MR48	M26			20.44 20.46	15 8	TN111 2N506/BB21					6	6A8, 6K7, 6I16, 6Q7, 43, 25Z5	456	7-12,13
280, 281	Vol. Tone	50.26 55.12	17 21	MR53 MR18	M26			20.44 20.41	15 15	TN111 2N506/BB21					7	6A8, 6K7, 6Q7, 6I16, 43, 6G5, 25Z5	456	7-14,15
290	Vol. Tone	50.25 55.11	17 22	TM234-SS1 N	M28 6			20.51 20.4	1 1	WE1250 RS213					9	*6K7, 6A8, 6Q7, 6C5, *6L6, 6G5, 5Z4	456	7-16
291	F.O.G. Vol. Tone	50.24 50.25 55.11	† 17 22	O TM234-SS1 N	8 M28			20.15 20.41	13 15	CS133 TN111					9	*6K7, 6A8, 6Q7, 6C5, *6L6, 6E5, 5Z4	456	7-17
311	Vol. Tone	50.25 55.11	17 22	TM234-SS1 N	M28 6			20.51 20.4	1 1	WE1250 RS213					9	*6K7, 6A8, 6Q7, 6C5, *6L6, 6E5, 5Z4	456	7-17
312	F.O.G. Vol. Tone	50.24 50.25 55.13	† 17 22	O TM234-SS1 N	8 M28			20.45 20.44	13 15	CS133 TN111					10	*6K7, 6A8, 6Q7, 6C5, *25A6, 6E5, *25Z6	456	7-18
316	F.O.G. Vol. Tone	50.24 50.25 55.13	† 17 22	O TM234-SS1 N	8 M28			20.44 20.17	15 8	TN111 2N514					12	*6K7, *6C5, 6L7, 6Q7, *6L6, 6E5, *5W4	456	8-20
350	Vol.	50.41	15	MR53	M26			20.11 20.17	15 8	TN111 2N514					15	*6K7, 6L7, *6C5, 6Q7, *25A6, *25Z6, 6G5	456	8-21
351	Vol.	50.37	17	MR53	M26			20.27 20.14	13 15	BB24 TN111					4	6A7, 6B7, 25L6G, 25Z5	456	8-23
352	Vol.	50.37	15	MR53	M26			20.75	1/15	UR188					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	8-24
353	Vol.	50.37	15	MR53	M26			20.75	1/15	UR188					4	6A7, 6B7, 25L6G, 25Z5	456	9-4
353	Vol.	50.37	17	MR53	M26			20.70	1/15	TN120/BB15					5	6A7, 6D6, 6Q7, 25L6G, 25Z5	456	
354	Vol.	50.35	17	MR53	M26			20.72 20.68	1 15	2N518 BB12/BB15					5	6A7, 6D6, 6Q7G, 25L6, 25Z5	456	8-25
355	Vol.	50.35	17	MR53	M26			20.72 20.68	1 15	2N518 BB12/BB15					5	6A7, 6D6, 6Q7G, 25L6, 25Z5	456	
358	Vol.	50.37	17	MR53	M26			20.70	1/15	TN120/BB15					5	6A7, 6D6, 6Q7G, 25L6G, 25Z6	456	
360	Vol.	50.35	17	MR53	M26			20.67 20.68	6 15	2N514 BB12/BB15					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	9-5
361	Vol.	50.37	17	MR53	M26			20.73	1/15	TN127/BB15					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	
362	Vol.	50.35	17	MR53	M26			20.67 20.68	6 15	2N514 BB12/BB15					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	
365	Vol.	50.37	20	MR53	M26			20.71 20.3	1/15 1	3S579/BB12 RS216					6	6A8G, 6D6, 76, 6Q7G, 6V6G, 80	456	9-6

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FADA—Continued																		
366, 366PT	Vol. Tone	50.37 55.12	15 22	MR53 MR48	M26			20.3 20.71	1 1/13/15	RS216 4S718					6	6A8G, 6D6, 76, 6Q7G, 6V6G, 80	456	10-14
368	Vol.	50.37	17	MR53	M26			20.73	6/15	TN127/BB15					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	
370	Vol. Tone	50.37 55.12	15 22	MR53 MR48	M26			20.64 20.66	6 6/15	BB26 3N526/BB12					6	6A8G, 6D6, 76, 6Q7G, 25L6G, 25Z5	456	9-7
380	Vol. Tone	50.39 55.15	15 22	MR53 MR48	M28 M26			20.69 20.3	1 1	RS215 RS216					8	6A8G, 6K7, 76, 6Q7G, 6V6G, 6G5, 80	456	9-8
390	Vol. Tone	50.39 55.12	15 22	MR53 MR48	M28 M26			20.4 20.64	13 6	RS213 BB26					8	6A8G, 6K7, 76, 6Q7G, 25L6G, 6G5, 25Z5	456	9-9
410	Vol. Tone	50.42 55.16	15 22	TM234-SS1 MR48	M28 M26			20.69 20.3	6/15 1	3N526 RS215					10	6A8G, 6K7, 6J7, 6H6, 76, 6Q7G, 6V6G, 6G5, 80	456	9-10, 11
413	Vol. Tone	50.43 55.16	15 22	TM243-SS1 MR48	M28 M26			20.39 20.3	15 3	TN111 RS216					13	6K7, 6A8G, 6J7, 76, 6V6G, 6H6, 6Q7G, 6G5, 5Z3	456	9-12
450	Vol.	50.46	6	SRP263		EX300		20.77 20.78	15 1	TN111 2N506					4	6D6, 6C6, 25L6G, 25Z5	456	9-14
451	Vol. Tone	50.47 55.20	18 22	MR48 MR48				20.81	23	2S567/BB14					5	6A8, 6D6, 6Q7G, 6Y6G, 80	456	9-15
454	Vol.	50.45	18	MR53	M26			20.80	23	2S563					5	6A8G, 6K7, 6Q7G, 6Y6G, 80	456	9-16
460	Vol.	50.45	18	MR53	M26			20.79	1	3N526					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z5	456	9-17
461	Vol. Tone	50.47	18 22	MR48				32-16-25	1	3N534					5	6A7, 6D6, 6Q7G, 25L6G, 25Z5	456	9-18
465	Vol.	50.50	15	MR53	M26	See Note A3		20.3	1	RS216					6	6A8G, 6D6, 76	456	10-16
470	Vol. Tone	50.50 55.20	15 22	MR53 MR48	M26			20.88 20.92	1 6	BB61 2N514					6	6Q7G, 6V6G, 80	456	10-16
490	Vol. Tone	50.39A 55.15A	18 22	MR53	M27	See Note A5		20.84 20.65	8 8	BB26 2N514					8	6A8G, 6K7, 6G5, 6Q7G, 25L6G, 25Z5, 115.58	456	10-17
554	Vol.	50.45	18	MR53	M26			20.80A	23	2S563					5	6A8G, 6K7, 6Q7G, 6Y6G, 80	456	10-12
913	Vol. Tone	50.47A 55.20	18 22	MR48 MR48	M26			20.113 20.105 20.104	63 63 63	TN129 BB26 BB24					12	6K7GT, 6SA7GT, 6P5GT, 6S07GT, 6SF5GT, 25L6G, 25Z5, 6G5	456	11-16, 12-14
1242	Vol.	50.28	17	MR53	M27			20.37	12	BB20					4	1C6, 1A4, 1F6, 1F4	456	
1246	Vol.	50.28	17	MR53	M27			20.57	1	2N516		90.147	W245	C3	4	1C6, 1A4, 1F6, 1F4	456	
1250	Vol.	50.27	6	E12	6			20.48	1	Buffer	B14				5	6A7, 6D6, 76, 6H5, 80	456	
1255	Vol. Tone	50.26 55.12	114 114	MR53 MR48	M26			20.48	1	2N518					5	6A7, 6D6, 75, 6H5, 80	456	8-26
1262	Vol.	50.22	6	MR18	M26	EX250		20.49	6/15	3N526					5	6A8, 6K7, 6C5, 43, 25Z5	456	8-27
1265	Vol. Tone	50.26 55.12	114 114	MR53 MR48	M26			20.48 20.39	1 15	2N518 TN111					6	6A7, 6D6, 75, 6B5, 6G5, 80	456	8-28
1450	Vol.		17	MR48	M26			20.1	8/15	2N506/2N500					5	6A7, 6D6, 75, 43, 25Z5	456	
1452	Vol.		17	MR48	M26			8-8-5	1/15	3S579					5	6A7, 6D6, 75, 42, 80	456	
1453	Vol.		17	MR48	M26			4-8-8	1/15	3S579					5	6A7, 6D6, 75, 42, 80	456	
1460	Vol.		17	MR48	M26			16-16-8-4-4	8/15	2N506/3N520	B140				6	6D6, 6A7, 75, 43, 25Z5	456	
1462 (above Ser. 22102)	Vol.	50.1	17	MR48	M26			20.36	6/15	4S715					6	6A7, 6K7, 75, 6H6, 43, 25Z5	456	7-19
1462	Vol.	50.1	17	MR48	M26			20.1	6/15	2N506/2N500					6	6A7, 6K7/6D6, 6C5/37, 75, 43, 25Z5	456	6-19
1463	Vol.	50.1	17	MR48	M26			20.36	6/15	4S715					6	6A7, 6K7, 75, 6H6, 43, 25Z5	456	7-20
1470	Vol.		17	N				8	1	RS213					7	58, 2A7, 2H7, 2A6, 2A5, 80	456	
1480	Vol.		17	N				16	15	RS216 TN111					8	6D6, 6A7, 75, 43, 25Z5	456	
1556	Vol.	50.11	6	SRP263	6	EX200		20.22	6	2N504					5	6C6, 6D6, 43, 25Z5	456	6-21
1582	Vol.	50.7	17	O				20.17	15	TN111					8	6D6, 6A7, 75, 42, 80	456	6-22
1583	Vol.	50.7	17	O				20.7	1	WE1250					8	6A7, 6D6, 742, 75, 80	456	6-16

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
FAIRBANKS-MORSE B6	Also Vol.	see Audiola. V6502	17	UC512	↓			8-8 .02	25	CM172 Buffer	B39 B14		297	C3	6	6D6, 6A7, 75, 41, 84.	177.5	5-12
C6	Vol.	V6515	18	UM147			A96	8-8 .02	4	CM172 Buffer	B3 B14	14981	294	C3	6	6A7, 6D6, 42, 75, 84.	177.5	6-2
4A	Vol.	340-1	17	MR48	M27										4	1C7G, 1D5G, 1F7G, 1F5G	456	9-1,3
4B	Vol.	340-1	17	MR48	M27			231-1 .01-.01	1	2N516 Buffer	B14	806-1	246	C3	4	1C7G, 1D5G, 1F7G, 1F5G	456	9-1,3
5A (5AT-1)	Vol.	340-3	6	E12	6			231-2	1	2S567					5	6A7, 6D6, 76, 41, 80.	456	9-4,6
5B	Vol.	340-2	18	MR48	M26			232-1	4	2S567					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3	456	9-7
5C	Vol.	340-2	18	MR48	M26			211-1 231-3	4 4/13	RS216 2N518					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3	456	8-2
5D (5DC-1B), (5DT-3B)	Vol.	340-1	18	MR48	M27			210-1	12	ST585					5	1C7G, 1D5G, 1F7G, 1H4G, 1J6G	456	8-3,4
6A	Vol.	340-2	18	MR48	M26			211-1 231-3	4 4/13	RS216 2N518					6	6A8G, 6K7G, 6Q7G, 6G5, 6F6G, 5Y3	456	8-1,2
6C (6CC-2B), (6CT-4B)	Vol.	340-2	18	MR48	M26			210-1 230-1 .01-.01	1 15	ST585 BB12 Buffer	B14	806-1	246	C3	6	6D8G, 15, 6T7G, 6L5G, 1J6G, 6N5	456	8-5,6
7A	Vol. Tone	340-10 340-11	140 140	500M No. 1 MR48	M26	See Note	A19	236-1	4	2S563					7	6K8, 6K7, 6J5G, 6F5G, 6V6G, 6U5, 5Y3G	455	10-1,2
8A (8AC-2), (8AC-3), (8AT-8)	Vol. Tone	340-6 340-5	80 80	TM227-SS1 MR53	M26			211-2 214-1	4 4	RS216 WE1650					8	6K7G, 6C5G, 6L7G, 6Q7G, 6G5, 6V6G, 5Y3G	456	8-7,8
9A (9AC4, 9AC5)	Vol. Tone	340-8 340-7	80 80	TM227-SS1 N	M26			211-2 214-2 210-2	4 4 13	RS216 WE4050 RS213					9	6K7G, 6L7G, 6J7G, 6C5G, 6H6G, 6Q7G, 6V6G, 5V4G	456	8-9,10
9B	Vol. Tone	340-9 340-5	18 22	MR53 MR53	M26			211-4 210-3	25 25	RS207 RS207					8	6K7G, 6L7G, 6C5G, 6Q7G, 25L6G, 25Z6G, 6E5, 808-1	456	11-1,2
9C	Vol. Tone	340-10 340-11	140 140	500M No. 1 MR48	M26	See Note	A19	211-2 214-2 214-3	4 4 13	RS216 WE4050 RS215					9	6K7, 6K8, 6Q7G, 6J5G, 6V6G, 5Y3G, 6U5	455	10-3,4
12A (12AC6)	Vol. Tone	340-8 340-7	140 140	TM227-SS1 N	M26			211-3 214-1 210-2 231-4	1 1 13 15	RS216 WE1835 RS213 TN111					12	6K7G, 6L7G, 6J7G, 6C5G, 6H6G, 6Q7G, 6L6G, 5V4G	456	8-11
12B	Vol. Tone	340-20 340-21	45 22	TM220-SS1 MR39	M26			211-5 214-4 235-1	4 4 13	RS216 WE4050 FPD227	B117				12	6K7, 6K8, 6B8G, 6Q7G, 6J5, 6V6G, 5V4G, 6AF6G	455	10-5-8
23S12	Vol. Tone		45 22	M K12	6			8-8 8-8	3 3	WE851 2N518					12	58, 57, 56, 46, 83	177.5	
32S11	Vol. Tone		45 22	N K12				8-8 8-8	3 3	WE851 2N518					11	35, 27, 24, 47, 80	177.5	
33A6	Vol.		15	L			A15	8-8 5	1 15	2N518 BB12 Buffer	B42		225	C3	6	6D6, 6C6, 85, 37, 89.	177.5	
40 (4015)	Vol.	5139	40	Y	6			.02 5026	4	Buffer RS216	B14				4	6C6, 41, 80	456	7-1
41 (4015)	Vol.	5442	27	UC513	13		A41	5025	4	RS213					4	1C6, 34, 32, 33	456	6-1,7-3
42 (42TOB) (42C1B)	Vol.	6059	79	N	7			5438 6054	12 12	ST585 BB31					4	1C6, 1B4, 33	456	8-17
43 (43T1B) (43C1B)	Vol.	6059	79	N	7			6054 5612 .01-.01	12 1 1	BB31 2N518 Buffer		5610	246	C3	4	1B4, 1F4, 1C6	456	8-19
51 (5106, 5107, 5109, 5111, 5112, 5141, 5143); 52 (5212, 5212A, 5241); 53 (5312, 5312A, 5341)	Vol. Tone	V6503 V6504	17 22	N K12	6			EL8 FL6	4 15	RS213 BB12					5	2A7, 58, 2A6, 2A5, 80.	456	5-1
54 (5416, 5445)	Vol. Tone	5031 5030	18 22	N N	6			5026 5518	4 4	RS216 RS216					5	6A7, 6D6, 75, 42, 80.	456	6-4,7-4
55 (5516, 5545)	Vol. Tone	5031 5030	18 22	N N	6			5026 5518	4 4	RS216 RS216					5	6A7, 6D6, 42, 75, 80.	456	
56 (5619, 5645)	Vol.	5506	18	N	6			5025 5519	4 4	RS213 RS216					5	6A7, 6D6, 75, 42, 80.	456	6-2,7-7
57 (57TO)	Vol.	5728	18	MR48	M26			5880 5881	4 4	RS213 RS213					5	6A8G, 6Q7G, 6K7G, 6F6G, 5Y3	456	8-21,22
58 (58T1, 58T2, 58C1)	Vol.	5799	18	MR48	M26			5825 5823 8	4 4 14	RS213 RS213 BB31					5	5Y3, 6A8G, 6F6G, 6K7G, 6Q7G	456	8-23,24
60 (6010, 6044)	Vol. Tone	V6508 V6509	18 22	M K12	6			EL8 EL16	4 4	RS213 RS216					6	6D6, 6A7, 6B7, 42, 80	456	6-11
61	Vol. Tone		17 22	N K12	6			5-16-10	11	UR182	B31				6	6A7, 6H7, 6D6, 25Z5, 43	456	5-6

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FAIRBANKS-MORS 62 (6210, 6244)	Vol.	inued																
	Tone	V6508	18	M			EL23	8	UR182	B104					6	6D6, 6A7, 6B7, 43, 25Z5	456 6-13,14	
63 (6317, 6346)	Vol.	V6507	34	K12	6		5025	4	RS213						6	6D6, 6A7, 75, 42, 80	456 7-8	
	Tone	5031	18	N			5026	4	RS216						6	6D6, 6A7, 75, 42, 80	456 7-8	
64 Auto.	Vol.	V6515	18	UM147		See Note A96	5429	13	RS213						6	6D6, 6A7, 75, 42, 84	177.5 7-10	
	Tone						8-8	4	2N518			294	C3		6	6D6, 6A7, 75, 42, 84	177.5 7-10	
64 Home	Vol.	5031A	18	N			25	15	BB15						6	6D6, 6A7, 75, 42, 84	177.5 7-10	
	Tone	5470	22	K12	13		.02		Buffer	B14					6	1C6, 30, 30, 19	456 6-1	
65 (6517, 6546)	Vol.	V6508	18	M			5429	12	RS213						6	1C6, 30, 30, 19	456 6-1	
	Tone	V6507	34	K12	6		EL23	8	UR182	B104					6	6D6, 6A7, 6B7, 43, 25Z5	456 9-10	
66 (6616, 6645)	Vol.	5031	18	N			5026	4	RS216						5	6A8, 6K7, 6116, 6F6, 5Z4	456 7-11	
	Tone	5030	22	N	6		5129	13	RS213		5610	246	C3		5	6A8, 6K7, 6116, 6F6, 5Z4	456 7-11	
67 (6717, 6746)	Vol.	5031	18	N			5317	15	BB12						5	6A7, 6D6, 75, 43, 25Z5	456 8-25	
	Tone	5030	22	N	6		5612	1	2N518						5	6A7, 6D6, 75, 43, 25Z5	456 8-25	
68	Vol.		18	N			.01		Buffer	B14					5	6A7, 6D6, 75, 43, 25Z5	456 8-25	
	Tone						16-16	6	2N506						5	6A7, 6D6, 75, 43, 25Z5	456 8-25	
69	Vol.		6	E12			5	15	BB12						5	6A7, 6D6, 75, 43, 25Z5	456 8-25	
	Tone						6198	27	2P544						5	6A7, 6D6, 75, 43, 25Z5	456 8-25	
70 (7014, 7040, 7042)	Vol.	V6508	18	M			EL21	4	RS216						7	6D6, 6A7, 6B7, 42, 80	456 5-7-11	
	Tone	V6509	22	K12	6		EL8	4	RS213						7	6D6, 6A7, 6B7, 42, 80	456 5-7-11	
71	Vol.	5031	18	N			EL18	14	2N518						7	6D6, 6A7, 6B7, 42, 80	456 5-7-11	
	Tone	5030	22	N	6		5026	4	RS216						7	6D6, 6A7, 6B7, 42, 80	456 5-7-11	
72 (72T3, 72C2, 72C3)	Vol.	5814	80	TRP616			5025	4	RS213						7	6K7, 6A8, 6F5, 6116, 6F6, 5Z4	456 6-5, 7-11	
	Tone	5815	80	N	6		5429	13	RS213						7	6K7, 6A8, 6F5, 6116, 6F6, 5Z4	456 6-5, 7-11	
73 (73T3B, 73C3B)	Vol.		20	TRP616			5612	1	2N518		5610	246	C3		7	6K7, 6A8, 6F5, 6116, 6F6, 5Z4	456 6-5, 7-11	
	Tone		21	N	6		5317	15	BB12						7	6K7, 6A8, 6F5, 6116, 6F6, 5Z4	456 6-5, 7-11	
74 Auto.	Vol.	V6515	18	UM147		A96	.01-.01		Buffer	B14					7	6D6, 6A7, 85, 41, 6A6, 84	177.5 7-10	
	Tone						8-8	4	CM172	B39		294	C3		7	6D6, 6A7, 85, 41, 6A6, 84	177.5 7-10	
81 (8110, 8114)	Vol.	V6514	18	N	7		.01		Buffer	B14					8	34, 1C6, 30, 32	456 6-15-16	
	Tone	V6504	22	K12			4	24	ST585						8	34, 1C6, 30, 32	456 6-15-16	
82 (8218, 8247, 8248)	Vol.	5318	18	M			5026	1	RS216						8	6D6, 6A7, 85, 42, 80	456 7-15-18	
	Tone	5319	41	Y25MP	6		5317	14	BB12						8	6D6, 6A7, 85, 42, 80	456 7-15-18	
90	Vol.	5318	18	M			5026	1	RS216						9	6K7, 6A8, 6116, 6C5, 6F6, 5Z4	456 7-16-19	
	Tone	5397	41	L	6		8	14	BB11						9	6K7, 6A8, 6116, 6C5, 6F6, 5Z4	456 7-16-19	
91 (91T4, 91C4, 91C5)	Vol.	5807	80	TRP616			5888	4	WE3050						9	5Z4, 6F5, 6116, 6K7, 6L6, 6L7, 6J7, 6E5	456 8-33	
	Tone	5808	80	N	6		5920	4	RS216						9	5Z4, 6F5, 6116, 6K7, 6L6, 6L7, 6J7, 6E5	456 8-33	
100 (10049, 10050)	Vol.	5318	45	M			5889	13	RS213						10	6D6, 6A7, 76, 42, 2A3, 5Z3	456 7-20-22	
	Tone	5397	22	L	6		5415	31	RS213						10	6D6, 6A7, 76, 42, 2A3, 5Z3	456 7-20-22	
110	Vol.		18	M			5025	31	RS213						11	6K7, 6A8, 6116, 6C5, 6F6, 2A3, 5Z4	456 7-21-24	
	Tone		22	L	6		5317	15	BB12						11	6K7, 6A8, 6116, 6C5, 6F6, 2A3, 5Z4	456 7-21-24	
120 (12C6)	Vol.		80	TRP616			6035	3	WE1650						12	6K7, 6L7, 6J7, 6116, 6C5, 6L6, 6E5	456 8-14-16	
	Tone		80	N			5888	3	WE3050						12	6K7, 6L7, 6J7, 6116, 6C5, 6L6, 6E5	456 8-14-16	
346	Vol.		17	UC512	‡		5823	3	RS213						6	6D6, 6A7, 75, 41, 84	177.5 5-12	
	Tone		22	K12			5317	15	BB12						6	6D6, 6A7, 75, 41, 84	177.5 5-12	
347	Vol.		18	UC512	‡		8-8	25	CM172	B39		297	C3		7	6D6, 6A7, 85, 41, 84	177.5 5-12	
	Tone		18	K12			.02		Buffer	B14					7	6D6, 6A7, 85, 41, 84	177.5 5-12	
816, 840 (32 Volt)	Vol.	V6511	15	N			EL9	1	BB31		14602	F221	C3		8	37, 39, 85, 79, 25Z5	177.5 5-13	
	Tone	V6512	22	K12			EL-6	15	BB12		A14614	F221	C3		8	37, 39, 85, 79, 25Z5	177.5 5-13	
FARNSWORTH AC70, AC71 (C3-1)	Vol.	783-1	124	TM260-SS1	M26		2510-1	23	BB64						8	6SK7, 6J5GT, 6SA7, 6116, 6SQ7, 6V6G, 5Y3G	455 11-8,10	
	Tone	784-1	‡	MR55			2511-1	23	2N519	B8					8	6SK7, 6J5GT, 6SA7, 6116, 6SQ7, 6V6G, 5Y3G	455 11-8,10	
AC90, AC91 (C4-1)	Vol.	783-1	17	TM260-SS1	M26		2510-1	23	BB64						10	6SK7, 6J5GT, 6SA7, 6116, 6SQ7, 6SF5, 6V6G, 5Y3G	455 11-9,10	
	Tone	784-1	‡	MR55			2511-1	23	2N519	B8					10	6SK7, 6J5GT, 6SA7, 6116, 6SQ7, 6SF5, 6V6G, 5Y3G	455 11-9,10	
ACL55, ACL56 (C2-3)	Vol.	781-1	18	MR48	M26T		251-1	9	Order from Mfr.						7	6SK7, 6SQ7, 6A8GT, 6116, 25L6GT, 25Z6GT	455 11-7,10	
	Tone						252-1	9	BB24						7	6SK7, 6SQ7, 6A8GT, 6116, 25L6GT, 25Z6GT	455 11-7,10	
AK17 (C1-3)	Vol.	782-1	18	Order from Mfr.			259-1	1	2N514						5	12SA7, 12K7GT, 12SQ7, 50L6GT, 35Z5GT	455 11-2	
	Tone														5	12SA7, 12K7GT, 12SQ7, 50L6GT, 35Z5GT	455 11-2	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FARNSWORTH—Continued																		
AK76 (C3-2)	Vol. Tone	783-1 784-1	124 †	TM260-SS1 MR55	M26			2510-1 2511-1	23 23	BB64. 2N519.	B8				8	*6SK7, 6J5GT, 6SA7, 6116, 6SQ7, 6V6G, 5Y3G.	455	11-8,10
AK95, AK96 (C4-2)	Vol. Tone	783-1 784-1	17 †	TM260-SS1 MR55	M26			2510-1 2511-1	23 23	BB64. 2N519.	B8				10	*6SK7, 6J5GT, 6SA7, 6116, 6SQ7, 6SF5, *6V6G, 5Y3G.	455	11-8-10
AKL58, AKL59 (C2-4)	Vol.	781-1	18	MR48	M26T			251-1 252-1	9 9	Order from BB24	Mfr.				7	*6SK7, 6SQ7, 6A8GT, 6116, 25L6GT, 25Z6GT.	455	11-10
AT10, AT11, AT12 (C1-1)	Vol.	782-1	18	Order from	Mfr.			259-1	24	2N514					5	12SA7, 12K7GT, 12SQ7, 50L6GT, 35Z5GT.	455	11-1
AT14, AT15, AT16 (C1-5)	Vol.	782-1	18	Order from	Mfr.			259-1	24	2N514					5	12SA7, 12K7GT, 12SQ7, 50L6GT, 35Z5GT.	455	11-1
AT20, AT21, AT22, AT23 (C5-1)	Vol.	785-1	18	MK401	M26			2515-1	4	BB26					6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT.	455	11-3
AT30 (C6-1)	Vol.	788-1	18	UM154-SS18	M27			2518-1	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G.	455	11-4
AT31 (C7-1)	Vol.	786-1	18	UM154-SS22				2516-1 2517-1	1 †	TN129. BB15	B8				5	1A7G, 1N5G, 1H5G, 1A5G, 35Z4GT.	455	11-5
AT40 (C8-1)	Vol.	787-1	18	MK401	M27			2518-1	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G.	455	11-6
ATL10, ATL11, ATL12 (C1-2)	Vol.	782-1	18	Order from	Mfr.			259-1	24	2N514					5	12SA7, 12K7GT, 12SQ7, 50L6GT, 35Z5GT.	455	11-1
ATL14, ATL15, ATL16 (C1-6)	Vol.	782-1	18	Order from	Mfr.			259-1	24	2N514					5	12SA7, 12K7GT, 12SQ7, 50L6GT, 35Z5GT.	455	11-1
ATL50, ATL52 (C2-1)	Vol.	781-1	18	MR48	M26T			251-1 252-1	9 9	Order from BB24	Mfr.				7	*6SK7, 6SQ7, 6A8GT, 6116, 25L6GT, 25Z6GT.	455	11-7,10
ATL51 (C2-2)	Vol.	781-1	18	MR48	M26T			251-1 252-1	9 9	Order from BB24	Mfr.				7	*6SK7, 6SQ7, 6A8GT, 6116, 25L6GT, 25Z6GT.	455	11-7,10
BC45	Vol.	77-28	18	†			A3	2517-1	15	BB15					4	1A7G, 1N5G, 1H5GT, 3Q5GT.	455	12-4
BC103, BC105	Vol. Bass Treble	78-12 78-11 78-10	124 † 22	TM260-SS1 Order from Order from	Mfr. Mfr.			2511-1	23	2N519.	B8				10	*6SK7, 6SA7, 6J5GT, *6SQ7, *6V6G, 5Y3G.	455	12-5,6
BC601, BC601X	Vol.	781-1	18	MR48	M26T			25-36 25-37	23 23	BB44. BB44.					6	6SA7, 6J5GT, 6SK7, 6SQ7, 6K6GT, 6X5GT.	455	12-11,12
BC1020 (Ch. C54), BC1020X (Ch. C70)	Vol. Bass Treble	78-160 78-11 78-10	124 † 22	† Order from Order from	Mfr. Mfr.		A3	25-41 25-43	23 23	ST598. BB64.					10	*6SK7, 6SA7, 6J5GT, *6SQ7, *6V6GT, 5W4GT.	455	
BC1041 (Ch. C76)	Vol. Tone Phono.	78-12 78-11 78-10	124 † 22	TM260-SS1 Order from Order from	Mfr. Mfr.			2511-1	4	2N519.	B8				10	*6SK7, 6SA7, 6J5GT, 6SJ7, 6116, 6SQ7, 6V6G, 5Y3G.	4.3 mc. 455 kc.	
BK106, BK107, BK108	Vol. Bass Treble	78-12 78-11 78-10	124 † 22	TM260-SS1 Order from Order from	Mfr. Mfr.			2511-1	23	2N519.	B8				10	*6SK7, 6SA7, 6J5GT, *6SQ7, *6V6G, 5Y3G.	455	12-5,6
BK110, BK111, BK112	Vol. Bass Treble	78-15 78-23 78-24	17 † †	MR57 Order from Order from	M26 Mfr. Mfr.			25-45 25-47 25-50 25-42 25-38 25-36 25-37	46 46 14/15 13/15 15 23 23	WE3035. WE3050. FPT332. FPT234. BB17. BB44. BB44.		B117 B117		11	*6SK7, 6SA7, 6Q7, *5Y3G, *6SC7, *6V6G, 6J5GT.	455	12-7-9	
BK602, BK602X	Vol.	781-1	18	MR48	M26T			25-36 25-37	23 23	BB44. BB44.					6	6SA7, 6J5GT, 6SK7, 6SQ7, 6K6GT, 6X5GT.	455	12-11,12
BK1061 (Ch. C77)	Vol. Bass Treble	78-12 78-11 78-10	124 † 22	TM260-SS1 Order from Order from	Mfr. Mfr.			2511-1	4	2N519.	B8				10	*6SK7, 6SA7, 6J5GT, 6SJ7, 6116, 6SQ7, 6V6G, 5Y3G.	455 kc. 4.3 mc.	
BK1071 (Ch. C77)	Vol. Bass Treble	78-12 78-11 78-10	124 † 22	TM260-SS1 Order from Order from	Mfr. Mfr.			2511-1	4	2N519.	B8				10	*6SK7, 6SA7, 6J5GT, 6SJ7, 6116, 6SQ7, 6V6G, 5Y3G.	455 kc. 4.3 mc.	
BK6025, BK6025X	Vol.	781-1	18	MR48	M26T			25-36 25-37	23 23	BB44. BB44.					6	6SA7, 6J5GT, 6SK7, 6SQ7, 6K6GT, 6X5GT.	455	12-11,12
BK10305 (Ch. C63)	Vol. Bass Treble	78-160 78-11 78-10	124 † 22	† Order from Order from	Mfr. Mfr.		A3	25-41 25-43	23 23	ST598. BB64.					10	*6SK7, 6SA7, 6J5GT, *6SQ7, *6V6GT, 5W4GT.	455	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FARNSWORTH—Continued																		
BT20, BT22	Vol.	78-9	18	MR48	M26			25-22	1	2N514					6	12SA7, 12SK7, 12SQ7, 35L6GT, 12J5GT, 35Z5GT	455	12-1, 2
BT41	Vol.	77-28	18	†			A5	2517-1	15	BB15					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	12-4
BT52, BT53, BT54, BT55, BT56	Vol.		18	UM154	M26		A96	30-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-3, 2
BT57	Vol.	78-29	18	†			A3	4	12	BB20					5	1A7GT, 1P5GT, 1N5GT, 1H5GT, 1Q5GT	455	12-10
BT61, BT63, BT66	Vol.	78-9	18	MR48	M26			25-22	1	2N514					6	12SA7, 12SK7, 12SQ7, 35L6GT, 12J5GT, 35Z5GT	455	12-1, 2
BT600, BT600X	Vol.	781-1	18	MR48	M26T			25-36 25-37	23 23	BB44 BB44					6	6SA7, 6J5GT, 6SK7, 6SQ7, 6K6GT, 6X5GT	455	12-11, 12
BT1010 (Ch. C-54), BT1010X (Ch. C70)	Vol. Tone Phono.	78-160 78-11 78-10	124 † 22	† Order from	Mfr.		A3	25-41 25-43	23 23	ST598 BB64					10	6K7, 6SA7, 6J5GT, 6SQ7, 6V6GT, 5W4GT	455	
CT59	Vol.	78-46	18	†			A5	25-131	24/78	FPT309					5	1R5, 1T4, 1S5, 3S4, 3Z5	455	
CT60	Vol.	78-47	18	†			A5	25-132	1/78	FPT309					6	1N5, 1A7, 1H5, 3Q5, 11Z6	455	
FEDERAL RADIO C	ORP.																	
D Code 79-070	Vol.		11	SRP279				4-4-4	3	See Note	B1				6	01A, 71A, BA		1-9
E Code 79-060	Vol.		11	SRP279				4-4-4	3	See Note	B1				7	01A, 12A, BA		
F Code 79-080	Vol.		11	SRP279				4-4-4	3	See Note	B1				8	01A, 12A, BA		1-14
F (25 Cycles)	Vol.		13	SRP279											7	01A, 71A, 12A		1-16
G (25 Cycles)	Vol.		14	N				2-4-4	3	See Note	B1				7	26, 27, 71A, 80, 27		1-17
H (71-030)	Vol.		14	N				1-1-2-1	3	See Note	B1				7	26, 27, 71A, 80		1-18
K	Vol.		14	UC503				2-4-4	3	See Note	B1				7	27, 24, 71, 80		1-21
L	Vol.		†	DRP310				†	3	See Note	B1				8	24, 71A-45, 80, 27		
M	Vol.		†	N				1-1-2-1	†	See Note	B1				8	27, 80, 45		1-22
FEDERATED PURC	IASER	"Acratone"																
Cathedral Tone	Vol.		12	N	6			8-8	4	See Note	B3				5	24, 45, 80		3-2
2	Vol.	8453	6	G7	6			2-2	1	See Note	B1				5	24, 47, 80		2-1
5	Vol.	8753	6	H12	6			5-5	4	See Note	B3				6	24, 51, 27, 47, 80	175	2-2
6A	Vol.		15	UC503				5	4	See Note	B3				10	58, 56, 59, 5Z3	175	5-2
	Tone Supp.		21	L				12-8	4	See Note	B3				10	58, 56, 59, 5Z3	175	5-2
			12	Y				5-5	15	TN111					10	58, 56, 59, 5Z3	175	5-2
7A	Vol.		17	UC503				8-4	4	See Note	B3				6	58, 56, 2A6, 47, 80	465	5-1
	Tone		22	L				5	15	BB12					6	58, 56, 2A6, 47, 80	465	5-1
8A	Vol.		7	J	6			16-8-4	11	UR182	B31				5	6A7, 78, 77, 43, 25Z5	465	5-1
8B, 9B	Vol.		45	N				4	32	WE450					7	6A8, 6K7, 6116, 6A6, 6F6, 80	456	7-1
Royal 9A	Vol.		44	†	6	See Note	A5	8-4	32	2N518					4	77, 78, 43, 25Z5	456	6-3
			7	J	6	EX500		4-4	1	See Note	B3				4	77, 78, 43, 25Z5	456	6-3
			5	5	15			5	15	BB12					4	77, 78, 43, 25Z5	456	6-3
10	Vol.		59	Y10MP				8-8	4	See Note	B3				6	35, 27, 47, 80		
11B	Vol.		45	N				8-8	4	See Note	B3				6	35, 27, 47, 80		
	Tone		44	†		See Note	A5	2	32	WE450					7	6A8, 6K7, 6116, 6A6, 6F6, 80	456	7-1
12A	Vol.		15	UC503				8-4	32	2N518					7	6A8, 6K7, 6116, 6A6, 6F6, 80	456	7-1
	Tone Supp.		21	L				12-8	4	See Note	B3				10	58, 56, 59, 5Z3	175	5-2
			12	Y				5-5	15	TN111					10	58, 56, 59, 5Z3	175	5-2
13A	Vol.		17	UC503				8-4	4	See Note	B3				6	58, 56, 2A6, 47, 80	465	5-1
	Tone		22	L				5	15	BB12					6	58, 56, 2A6, 47, 80	465	5-1
14A	Vol.		56	†		See Note	A5	4-4-4	7	See Note	B3				8	58, 56, 55, 53, 80	175	5-2
	Tone		22	†		See Note	A5								8	58, 56, 55, 53, 80	175	5-2
17	Vol.		15	N				4-4	4	2S567					6	57, 58, 56, 55, 47, 80	175	4-3
	Tone		21	M											6	57, 58, 56, 55, 47, 80	175	4-3
24A	Vol.		17	UC503				8-4	4	2S567					6	58, 56, 2A6, 47, 80	465	5-1
	Tone		22	L				5	15	BB12					6	58, 56, 2A6, 47, 80	465	5-1
26A	Vol.		6	K12				5-16-8	11	UR182	B31				4	77, 78, 43, 25Z5		
29C, 30C, 31C	Vol.	P660	18	N	6			4	32	WE450					8	61.7, 6C5, 6K7, 6Q7, 6F6, 5Z4	456	7-3, 4
	Tone	P661	44	L				8-4	32	2N518					8	61.7, 6C5, 6K7, 6Q7, 6F6, 5Z4	456	7-3, 4
31-40	Vol.		8	P				1948	3	RS213					8	51, 27, 47, 80	175	3-1
	Tone		41	G	6			1976	3	ST595					8	51, 27, 47, 80	175	3-1
32A	Vol.		15	TRP623	6			50-8-8-10	64	2-UR182	B226				12	6D6, 37, 85, 43, 25Z5	175	5-3
	Tone Supp.		44	K12											12	6D6, 37, 85, 43, 25Z5	175	5-3
			7	J											12	6D6, 37, 85, 43, 25Z5	175	5-3
32C, 33C (L7)	Vol.	P691	45	SRP275	7			P391	1	2S560		P402	245C	C3	7	1C6, 334, 330, 19	456	7-5
	Tone	P682	†	L				.01-.01		Buffer	B14				7	1C6, 334, 330, 19	456	7-5
35AC	Vol.	1968	8	G				1948	3	RS213					8	51, 27, 47, 80	175	
	Tone	1953	41	P	6			1976	3	ST595					8	51, 27, 47, 80	175	
36A	Vol.		15	TRP623	6			50-8-8-10	64	2-UR182	B226				12	6D6, 37, 85, 43, 25Z5	175	5-3
	Tone Supp.		44	K12											12	6D6, 37, 85, 43, 25Z5	175	5-3
			7	J											12	6D6, 37, 85, 43, 25Z5	175	5-3

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FEDERATED PURC 38A	HASER	Continued	6	K12				8-4	1	2S567				5	58, 57, 47, 80	456	5-5	
39A	Vol.		22	K12				10	15	BB12				8	57, 56, 58, 2A5, 80	485	5-6, 7	
40AC	Vol.	1968	8	G				1948	3	RS213				8	51, 47, 47, 80	175	3-2	
40 Auto	Vol.	1953	41	P				1976	3	ST595				6	6D6, 6A7, 75, 41, 84	175	6-4	
43A, 44	Vol.		15	N				5-5	15	TN111				6	6D6, 6A7, 75, 41, 84	175	6-4	
49	Vol.		18	MR48				.025-.025	1	Buffer	B14			8	57, 58, 56, 2A5, 80	485	5-6	
52A	Vol.		6	J	6	EX 750		10-10	1	2N504				5	77, 78, 43, 12Z3		5-8	
53, 54, 58, 59	Vol.		6	G12	6			5-5	15	TN111				4	6D6, 6C6, 43, 12Z3		5-8	
65, 66	Vol.		6	Y	6			10-12	1	2N504				5	6D6, 6C6, 43, 12Z3	455	6-1	
67	Vol.		17	N				4-4	15	TN111				5	6A7, 78, 75, 42, 80			
79, 80	Vol.		62	N	6			8-4	25	2S567				5	6A7, 78, 75, 42, 80			
86, 87	Vol.		39	N				25	19	BB15	B6			12	58, 56, 57, 46, 80	175	5-9, 6-2	
88	Vol.		15	F				8, 8	12	BB61				8	58, 57, 56, 2A5, 80	485	5-6	
SW88	Vol.		7	N				5	15	BB12				5	2A7, 57, 58, 2A5, 80	455	6-3	
92	Vol.		22	G12	6	2		10	1	2N518				8	56, 57, 58, 2A5, 80	485		
92A-94A (Above 500,001)	Vol.		17	UC512	6			8-6	4	2S567				6	6D6, 6B7, 41, 84 or 6Z4	175		
100	Vol.		18	N				.02	15	Buffer	B14			7	6D6, 6A7, 76, 75, 41, 80	370	5-12	
104	Vol.		6	G12	6	EX 300		10-10	1	2N518				6	2A7, 58, 57, 56, 2A5, 80		6-1	
107 Midget	Vol.		57	G12	6	See Note 16 A5		4-4	4	See Note	B3			5	2A4, 45, 80			
117	Vol.	9666	17	M	6	See Note 16 A5		2-2	1	See Note	B1			6	2A7, 58, 2A6, 2A5, 80	465	6-7	
SA120-SA123	Vol.		64	N				9659	13	CM172				12	56, 57, 58, 46, 80	175		
120 Amplifier	Vol.		39	N				1110	15	BB60				5	56, 45, 80			
121	Vol.	9171	59	F				8876	17	BB12				5	6A7, 6D6, 6C6, 43, 25Z5	456	6-8	
125 Amplifier	Vol.		16	M				8, 8	2	ST595				8	57, 56, 50, 81			
126	Vol.		6	SRP263	6	EX 400		5	17	BB12				8	57, 56, 50, 81			
215	Vol.		62	N				6-6	4	See Note	B3			6	6D6, 6A7, 85, 48	175	7-2	
228, 229	Vol.		22	K12				8-8	4	2P542				5	6A7, 6D6, 6C6, 43, 25Z5	456	6-8	
248	Vol.	608	17	N				16	13	BB24				6	1C6, 34, 30, 32, 19	456	6-4	
424 Climax	Vol.	609	149	K12	6	EX 300		4	12	BB20	B10			8	6D6, 6A7, 85, 48	175	7-2	
460	Vol.		6	G12	6			4-4	3	See Note	B2			4	2A4, 47, 80			
470-474 (600, 001 and up)	Vol.		18	UC512	6			8-6	4	2S567				6	6D6, 6B7, 41, 84 or 6Z4	175		
708	Vol.		22	H12				.02	15	Buffer	B14			7	6D6, 6A7, 75, 41, 80, 76	370		
728	Vol.		23	LL				10-10	3	TN111				7	57, 56, 2A3, 83			
734	Vol.		23	LL				8-8	24	See Note	B3			3	57, 2B6, 80			
745 Amplifier	Vol.		16	LL				5-5	15	TN111				8	77, 37, 48			
749	Vol.		18	N				8	12	2N506	B11			6	77, 37, 46			
1000	Vol.		6	K12				8	12	BB61				4	78, 6A7, 85	175		
1200	Vol.		15	TRP623	6			5-16-8	11	UR182				4	77, 78, 43, 25Z5			
1940	Vol.		44	K12				50-8-8-10	64	2-UR182	B226			12	6D6, 37, 85, 43, 25Z5	175		
	Supp.		7	J				8, 8	1	WE851				10	6K7, 6A8, 6H6, 6E5, 6C6, 79, 6B5, 5Z3	456	8-2	
	Fader		82	TRP609														
	Vol.		15	MR53														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FIRESTONE																		
54	Vol.		18	UM154		See Note	A96	6-10 .02	4	See Note	B3		291	C3	5	6A7, 6D6, 75, 42, 84.	456	
64	Vol.		18	UM154		See Note	A96	6-10 .02	4	See Note	B3		294	C3	6	6D6, 6A7, 75, 42, 84.	456	
R1322	Vol. Tone	85215	56	UC511	6			83803 .02	15	BB12		85243	289Y	C3	7	77, 78, 85, 41, 76.	177.5	
R1332	Vol.	85179	44	Z12				83803 .02	15	BB12		84995	291	C3	5	6A7, 6D6, 75, 41, 84.	456	
R1651AS, R1651WS, (R165)	Vol.	83728	17	UC512	6			88033 .03-03	25	RS213					5	6D6, 6C6, 41, 84.	456	
R1661 (R166 chassis)	Vol. Tone	88036	6	Y	6			88007	25	RS213					5	6D6, 6C6, 41, 84.	456	
R1661 (R166 chassis)	Vol. Tone	88487	18	TRP623	6			88512	1	RS216					7	6A8, 6K7, 6H6, 6G5, 6F5, 6F6, 5Z4.	456	
R3051 (R305)	Vol. Tone	88488	57	N				88511	13	RS216					5	6A8G, 6U7G, 6Q7G, 6K6G, 5W4G.	465	
3061 to 3069 (R306)	Vol. Tone	110503	18	MR53	M26			110497	4	2S567				6	6L7G, 6U7G, 6Q7G, 6K6G, 6C5G, 5W4G.	465		
3061 to 3069 (R306)	Vol. Tone	110504	21	MR48	M26			110377	19	BB12				6	6L7G, 6U7G, 6Q7G, 6K6G, 6C5G, 5W4G.	465		
3061 to 3069 (R306)	Vol. Tone	112175	18	MR53	M26			89937	25	WE1050				7	6L7G, 6U7G, 6Q7G, 6C5G, 6K6G, 6U5, 5W4G.	465		
3061 to 3069 (R306)	Vol. Tone	112174	21	MR48	M26			112315	25	ST597				7	6L7G, 6U7G, 6Q7G, 6C5G, 6K6G, 6U5, 5W4G.	465		
3061 to 3069 (R306)	Vol. Tone	110768	25					112710	25	ST595				7	6L7G, 6U7G, 6Q7G, 6C5G, 6K6G, 6U5, 5W4G.	465		
3061 to 3069 (R306)	Vol. Tone	110377	19					111689	19	BB12				7	6L7G, 6U7G, 6Q7G, 6C5G, 6K6G, 6U5, 5W4G.	465		
3061 to 3069 (R306)	Vol. Tone	111689	19					89937	25	WE1050				7	6L7G, 6U7G, 6Q7G, 6C5G, 6K6G, 6U5, 5W4G.	465		
3061 to 3069 (R306)	Vol. Tone	111352	25					112284	25	ST595				7	6L7G, 6U7G, 6Q7G, 6C5G, 6K6G, 6U5, 5W4G.	465		
3061 to 3069 (R306)	Vol. Tone	110377	19					112113	19	BB12				7	6L7G, 6U7G, 6Q7G, 6C5G, 6K6G, 6U5, 5W4G.	465		
3061 to 3069 (R306)	Vol. Tone	112441	20	TM240-SS1				89937	25	WE1050				11	6K7, 6L7, 6C5, 6J7, 6U5, 6H6, 6F5, 6L6, 5U4G.	465		
3061 to 3069 (R306)	Vol. Tone	111469	25					110377	15	ST597				11	6K7, 6L7, 6C5, 6J7, 6U5, 6H6, 6F5, 6L6, 5U4G.	465		
3061 to 3069 (R306)	Vol. Tone	111298	13					111298	13	BB31				11	6K7, 6L7, 6C5, 6J7, 6U5, 6H6, 6F5, 6L6, 5U4G.	465		
S7401-7 (Phono. Oscillator)	Vol.	160576	50	UM147	M26		A96	116470	24	2N509				2	35L6GT, 35Z5GT, 160540.		12-1	
S7402-1	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT.	456	11-1	
S7402-2	Vol.	N1955	18	MK401	M26			N1366	24	2N514				5	12A8G, 12K7G, 12Q7GT, 35L6GT, 35Z5GT.	456	11-1	
S7402-3	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT.	456	11-1	
S7402-3	Vol.	N1955	18	MK401	M26			N2599	24	2N514		B20		5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT.	456	11-3	
S7403-3	Vol.	N1595	18	UM154	M26		A96	8-8	4	2S567				5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y4G.	455	11-2	
S7403-4	Vol.	N2886	18	UM154	M26		A96	N1366	24	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT.	456	11-3	
S7403-5	Vol.	N3045	18	UM154	M26		A96	N2015	24	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT.	456	12-2	
S7403-6	Vol.	N3065	18	UM154	M26		A96	N3114	24	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT.	456	12-3	
S7403-7	Vol.		18	UM161	M26		A96	40-20	4	Order from Mfr.				6	12SA7, 12SK7, 12SQ7, 12J5GT, 25L6G, 5W4.	455	12-4	
S7403-8	Vol.	119602	18	UM161-SS25	M26			117034	4	2S569				6	6SA7, 6SK7, 6SQ7, 6F6G, 5W4G, 6J5GT.	455	11-5,6	
S7403-9	Vol.	119779	45	UM154	M26		A96	117034	23	2S569				8	6SK7, 6SA7, 6J5GT, 6SQ7, 6F6G, 5W4G.	455	12-5,6	
S7404-1	Vol.	117212	127	TM243-SS25	M26			110377	19	BB12				6	6SA7, 6SK7, 6H6, 6SQ7, 6F6G, 5W4G.	455	11-7,8	
S7404-2 (Serial No. with Prefix "A")	Vol.	118669	124	TM243-SS25	M26			114258	23	BB61				8	6SA7, 6SK7, 6H6, 6SQ7, 6F6G, 5W4G.	455	11-9,10	
S7404-2 (Serial No. with Prefix "C")	Vol.	41021	45	UM154	M26		A96	116262	23	BB64				8	6SA7, 6SK7, 6H6, 6SF5, 6J5GT, 6U5, 6V6GT, 5W4G.	455	11-9,10	
S7404-3	Vol.	117685	18	TM243-SS25	M26			40666	1/15	3S578				8	6SA7, 6SK7, 6H6, 6SJ7, 6SF5, 6V6G, 6U5, 5W4G.	455	11-4,11	
S7404-4	Vol.	41437	127	TM254-SS1	M26			113261	25	WE3050				10	6SK7, 6SA7, 6J5GT, 6SQ7, 6U5, 6F6G, 5Y3G.	455	12-7,10	
S7404-5	Vol.		18	UM161	M26		A96	114972	25	BB64				6	6SA7, 6SK7, 6SJ7, 6H6, 6SF5, 6V6G, 5W4G, 6U5.	455	11-12	
S7404-5	Vol.		18	UM161	M26		A96	40-20	4	See Note	B3			6	12SA7, 12SK7, 12SQ7, 12J5GT, 25L6G, 5W4G.	455	12-11,12	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
FIRESTONE—Continued																		
S7404-6.....	Vol.		124	†			A19	30-15.....	1	See Note.....	B3			9	6SK7, 6SA7, 6SQ7, 6J5GT, 6F6G, 5Y3G.....	455	12-12,13	
S7404-7.....	Vol.		124	†			A19	16..... 113261.....	23 23	BB64..... WE3050.....				11	6SK7, 6SA7, 6J5GT, 6SQ7, 6V6G/GT, 5Y3G.....	455	12-6, 15,16	
7405-1.....	Vol.	4108A.....	6	MR21.....	M26			4806-A.....	23	2P544.....				4	6D6, 6C6, 43, 25Z5.....		8-1	
S7405-5.....	V.L. Tone	119551..... 119552.....	18 22	UM161..... UM140.....	M26 M27		A96 A96	112898.....	12	BB24.....				5	1A7G, 1N5G, 1H5G, 1A5G.....	455	11-13,14	
7406-1.....	V.L.		18	MR48.....				8-8..... .005.....	1	2N516 Buffer.....	B14		245	C3	5	1C6, 1A4, 75, 30, 19.....	456	8-2
S7406-5.....	Vol.	N3065.....	18	UM154.....	M26		A96	N3114.....	24	2N514.....				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT.....	456	12-22	
S7406-6.....	Vol.		18	UM161.....	M26		A96	30-15.....	1	See Note.....	B3			8	6SK7, 6SA7, 6SQ7, 6J5GT, 6F6G, 5Y3G.....	455	12-12,14	
S7406-7.....	Vol.		124	†			A19	25, 25.....	23	See Note.....	B3			11	6SK7, 6SA7, 6J5GT, 6SQ7, 6V6G, 5Y3G.....	455	12-6, 17,18	
7407-1.....	Vol.		18	MR48.....				8-8..... .005.....	1	2N516 Buffer.....	B14		245	C3	7	1C6, 34, 430, 19.....	456	8-2
7407-3.....	Vol. Tone		17 21	† UM147.....		See Note	A19	8-8-2..... 10.....	24/13 15	CM175..... BB12.....	B3	R16034.....	852	C3	6	6K7, 6A8, 6Q7, 6V6, 6X5.....	260	10-1
S7407-5 (Early).....	Vol.	20703.....	20	Order from Mfr.....		See Note	A96	8-8-2..... 10..... .003.....	24/13 15	CM175..... BB12..... Buffer.....	B3	20543.....	868	C3	6	6U7G, 6A8G, 6Q7G, 6V6G, 6X5.....	455	10-2
S7407-5 (Late).....	Vol.		18	UM154.....	M26		A96	15-10..... .004.....	24	2S569 Buffer.....	B14	20543.....	868	C3	6	6K7GT, 6A8GT, 6Q7GT, 6V6G, 0Z4G.....	455	11-17
S7407-6.....	Vol.	116125.....	20	TM227-SS1.....	M26			114258..... .01.....	25	BB61 Buffer.....	B14	116202.....	854	C3	6	6K7, 6A8, 6Q7, 6K6G, 6X5G.....	465	11-15,16
7422-3.....	Vol.	5-39.....	6	MR29.....				7-27.....	4/20	2P553/BB12.....				4	6D6, 6C6, 25L6, 25Z5, 185R8.....		8-3	
S7422-5.....	Vol.	N1955.....	18	MK401.....	M26			N1366.....	24	2N514.....				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT.....	455	11-1	
S7424-3.....	Vol. Tone	V20..... V112.....	18 34	MR53..... Z12.....	M26			C242..... .01-.01.....	1	FPD225..... Buffer.....	B14	F4.....	246	C3	6	6D8G, 1H4G, 6S7G, 6T7G, 6L5G, 1J6G.....	456	10-3
S7425-3.....	Vol.	50526.....	18	MR53.....	M26			50528..... .0065.....	23	2S567..... Buffer.....	B14	G10-38000.....	850	C3	5	6A8G, 6U7G, 6Q7G, 6K6G, 6X5G.....	455	11-19,21
S7425-4, S7425-5.....	Vol.	V6.....	6	UM128-SS25.....	M26	EX200		C233.....	46	TN125.....				4	6K7GT, 6J7GT, 25L6GT, 25Z6GT.....		10-4	
S7425-6 (Ch. R320).....	Vol.	114814.....	18	UM161.....	M26		A96	112898..... 113472.....	23 23	BB24..... BB27.....				5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G.....	465	11-22,23	
S7425-6 (Late).....	Vol.	116691.....	18	†			A5	112898..... 113472.....	1	BB24..... BB27.....				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT.....	455	11-24	
S7425-8UA.....	Vol.	113501.....	6	UM124-SS18.....	M26	EX300		112898..... 113472.....	4	BB24..... BB27.....				4	6A8G, 6J7G, 25L6G, 25Z6G, L55B.....	465	11-25,26	
S7425-9 (Ch. R317).....	Vol.	113501.....	6	UM124-SS18.....	M26	EX300		112898..... 113472.....	4	BB24..... BB27.....				4	6A8G, 6J7G, 25L6G, 25Z6G, L55B.....	465	11-25,26	
S7425-9 (Loop).....	Vol.	116691.....	18	†			A5	112898..... 113472.....	1	BB24..... BB27.....				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT.....	455	11-24	
S7426-1 (Ch. R311).....	Vol.	113501.....	6	UM124-SS18.....	M26	EX300		112898..... 113472.....	4	BB24..... BB27.....				4	6A8G, 6J7G, 25L6G, 25Z6G, L55B.....	465	11-25,26	
S7426-2.....	Vol.	113852.....	18	MR48.....	M26			112898..... 113472.....	4	BB24..... BB27.....				5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G, L49B.....	465	11-27	
S7426-3, S7426-4 (Ch. R313).....	Vol.	113852.....	18	MR48.....	M26			113808..... 114009.....	60 60	BB61..... BB60.....				6	6A8G, 6K7, 6Q7G, 6K6G, 5W4G.....	465	11-28	
S7426-5.....	Vol.	V6.....	6	UM128-SS1.....	M26	EX200		C233.....	46	TN125.....				4	6K7GT, 6J7GT, 25L6GT, 25Z6GT.....		10-4	
S7426-6.....	Vol.	N1595.....	18	UM154-SS18.....	M26			N1366.....	24	2N514.....				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT.....	456	10-5	
S7426-7 (Roamer 1939).....	Vol.	N1504.....	18	UM154-SS18.....	M27			N1367.....	12	BB21.....				4	1A7G, 1N5G, 1H5G, 1C5G.....	456	10-6	
S7426-7 (Mar. 1939).....	Vol.	N1504.....	18	UM154-SS18.....	M27			10.....	19	BB12.....				4	1A7G, 1N5G, 1H5G, 1A5G.....	455	10-7	
S7426-8.....	Vol.	117212.....	124	TM243-SS25.....	M26			114258..... 116262.....	23 23	BB61..... BB64.....				6	6SA7, 6SK7, 6H6, 6SQ7, 6F6G, 5W4G.....	455	11-29,30	
S7426-9.....	Vol.	10869.....	45	UM154.....	M27		A96	10.....	19	BB12.....				3	1A7G, 1N5G, 1N6G.....	455	10-8	
S7427-1 (Early) (Ch. R314).....	Vol.	113982.....	18	UM154.....	M26		A96	112802.....	60	RM265.....				7	6A8G, 6K7, 6Q7G, 6K6G, 5W4G, 6U5.....	465	11-31,32	
S7427-1 (Late).....	Vol.	117212.....	124	TM243-SS25.....	M26			118421.....	23	2S569.....				7	6SK7, 6SA7, 6SQ7, 6F6G, 5W4G, 6U5.....	455	11-33,34	
S7427-2.....	Vol.	114020.....	18	†			A19	89937..... 113261.....	1 1	WE4050..... WE3050.....				8	6K7, 6A8G, 6Q7G, 6K6G, 6U5, 5Y3G.....	465	12-6, 19-21	
S7427-3 (Ch. R316).....	Vol.	113258.....	17	TM238-SS1.....	M26			89937..... 113261..... 110377.....	25 25 15	WE4050..... WE3050..... BB12.....				10	6K7, 6L7G, 6J5G, 6H6G, 6L6G, 5W4G, 6U5.....	465	11-35-38	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
FIRESTONE—Continued																			
S7427-5	Vol.	4871	18	UM154-SS22				50-50	1	FPT214					5	1A7G, 1N5G, 1H5G, 1A5G, 35Z4GT	455	10-9	
S7427-6	Vol.		29	Order from	Mfr.			10	78	BB12				3	1N5G, 1A5G	455	10-5		
S7427-7	Vol.	117086	18				A5	10	12	BB12				5	6SA7, 6SK7, 6SQ7, 6F6G, 5W4G	455	11-39,40		
S7427-8	Vol.	40668	18	UM154	M26		A96	113808	25	BB61				7	6SA7, 6SK7, 6SQ7, 6SJ7, 6U5, 6P6G, 5W4G	455	11-4,11		
S7428-1	Vol.	V20	18	MR53	M26			114972	25	BB64				4	6D8G, 6S7G, 6T7G, 6C6G	456	10-10		
S7428-2	Vol.	10441	18	UM154-SS25	M27			40666	1/15	3S578				4	1A7G, 1N5G, 1H5G, 1A5G	455	10-4		
FORD-LINCOLN																			
"Glove Box" (Zenith)	Vol.		17	SRP252	6	See Note	A42	8-8	4	CM172	B3		296	C3	6	6D6, 6F7, 75, 42, 84	252.5	5-4	
"Glove Box" (Police)	Vol. Sen.		17	SRP251				10	15	BB12	Buffer	B14			6	6E7, 6A7, 6C7, 42, 6Y5		5-1	
"Glove Box" (40-18805)	Vol.		17	SRP251				10	15	BB12	Buffer	B14			6	6E7, 6A7S, 6C7, 42, 6Y5	175	5-3	
Police (Grigsby-Grunow)	Vol.		17	M				8	12	See Note	B3			6	39, 38, 85		6-1		
B18805	Vol.		54	M				8	12	See Note	B3			6	39, 85, 38		5-2		
N "Center Control"	Vol.	33-5067	20	TRP614	6			30-2030	1	SH638			38-5036	500P	C3	6	44, 77, 75, 42, 84	260	6-2,3
	Vol.		17	SRP251				30-2076	15	BB12	Buffer	B14			6	39, 38, 85			
FORDSON																			
FP (330001 Up)	Vol. Tone		15	M				4-4	4	2S567					5	6A7, 78, 75, 42, 80	456	5-1	
FP Batt. (173501 Up)	Vol. Tone		22	SRP284	7		A75	5	19	BB11					5	1A6, 34, 32, 30, 19	456	5-1	
FP 32V (350001 Up)	Vol. Tone		15	M				5	15	BB12					5	6A7, 78, 75, 42, 84	456	5-2	
FR	Vol. Tone		6	G12	1	EX100		.05-.05	4	2S567	Buffer	B14			4	58, 57, 2A5, 80		5-2	
FU	Vol.		6	SRP284	7	See Note	A14	4-4	4	2S567					5	78, 44, 77, 43, 25Z5	456	5-3	
FV	Vol.		7	UC510	6	See Note	A14	4-20	6	2N507					4	44, 77, 43, 25Z5		5-4	
FW	Vol. Tone		17	N	6			5-5	15	TN111					8	78, 37, 85, 42, 80	456	5-5	
R	Vol. Tone		6	G12	1			4-8-4	26	See Note	B3				4	78, 77, 42, 80 or 57, 58, 2A5, 80			
U	Vol. Tone		22	SRP284	7	See Note	A14	4-4	4	2S567					5	78, 44, 77, 43, 25Z5	456		
V	Vol.		7	UC510	6	See Note	A14	4-20	6	2N507					4	44, 77, 43, 25Z5			
V (All-Wave)	Vol.		15	N	6			5-5	15	TN111					4	44, 77, 43, 25Z5			
W All Wave	Vol. Tone		17	N	6			40-8	6	2N514					4	6F7, 77, 43, 25Z5			
X	Vol. Tone		41	L	6			5	15	BB12	See Note	B3			8	37, 78, 85, 42, 80	456		
"Warwick"	Vol. Tone		6	G12	6	EX200		4-4	4	2S567					5	6D6, 6C6, 42, 80			
"Goldentone" 6T	Vol. Tone		15	L	6			5-5	15	TN111					5	57, 58, 55, 47, 80	175		
6TA	Vol.		15	L	6			8-4	4	See Note	B3				6	58, 55, 59, 80	456	3-5	
	Vol.		18	N	6			10	17	BB12					6	6T28, 6T26			
	Vol.		18	N	6			8-4	1	See Note	B3				6	2A7, 58, 2A6, 2A5, 80	456		
FRANKLIN																			
6 Tube	Vol. Tone		6	G7	6	5		4-4	1	ST595					6	27, 24, 35, 47, 80	175	3-3	
43AB or CL	Vol.		22	G12				5-5	15	TN111					4	37, 39, 38, 36	456	4-6	
53	Vol.	18249	6	J	6	See Note	A14	8-4	6	2N518					5	78, 77, 43, 25Z5	456	4-5	
54L	Vol.		15	N	6			4-4	15	TN111					5	6A7, 78, 6B7, 43, 25Z5	456	4-6	
55U	Vol.		56	N	6			4-8-4	8	TN120					5	6A7, 78, 6B7, 43, 25Z5	456		
	Vol.		56	N	6			8-8-8	45	UR190	B105				5	6A7, 78, 6B7, 43, 25Z5	456		

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
FRANKLIN—Continued																			
63L.....	Vol.		21	G12				8-8	4	2S567					6	57, 58, 56, 2A6, 47, 80	130	4-7	
64.....	Tone		6	P.				8	1	ST595					6	57, 58, 59, 55, 80	130	4-8	
65VL, 65VU.....	Vol.		22	L	6			5	15	BB12				6	6A7, 78, 6B7, 43, 25Z5				
94.....	Tone		56	N				8-8-8-8	45	UR190	B105			6	6A7, 78, 6B7, 43, 25Z5				
100 (Auto).....	Vol.		15	M				8-8-8	3	See Note	B3			9	57, 58, 2B7, 56, 59, 5Z3		456		
102.....	Tone		41	N				8-8-8	3	See Note	B3			9	57, 58, 2B7, 56, 59, 5Z3		450	4-9, 13	
104.....	Sen.		8	A10MP	6									6	36, 37, 38		175	3-1	
105.....	Vol.		7	UC501		See Note A3								5	24, 35, 47, 80		175	3-1	
106.....	Vol.		6	G12				8-4	4	2S567				5	35, 21, 47, 80			3-4	
200 (Auto).....	Tone		22	G12		EX500		4-4	1	2N518				5	35, 21, 47, 80			3-4	
	Vol.	DS118	6	G12				4-4	1	2N518				4	58, 57, 47, 80			4-14	
	Vol.	DS113	6	G7	6			DS29	1	2N518				5	57, 58, 55, 47, 80			4-14	
	Tone	DS231	21	P		See Note A4		DS23	1	2N518				5	57, 58, 55, 47, 80			4-14	
	Vol.		15	N										6	36, 85, 37, 89		177	1-15, 16	
FRED TELEVISION & RADIO CORP.																			
A7.....	Vol.		17	N		See Note A96		4-4	15	TN111			210	4	6A7, 78, 6B7, 41	456		4-1	
A9.....	Vol.		15	UM154				16	1	Order from Mfr.			210	6	6A7, 6D6, 85, 37, 41	456		4-1	
FE63 DC.....	Vol.		6	Y				8-20	1	Order from Mfr.				6	6A7, 6D6, 85, 37, 41	456		4-1	
FE96 DC.....	Tone	26.15	6	H12	6			5-5	19	TN111 Buffer	B14			6	39, 36, 89			3-8	
FE98.....	Vol.	26.16	22	↑		See Note A5		.05						8	36, 37, 38			3-9	
FE99.....	Vol.	26.26	7	↑		See Note A5								8	21, 35, 27, 47, 80	175		3-10	
MB5.....	Tone	26.30	22	↑		See Note A5								6	36, 37, 33			3-8	
MB7.....	Vol.		6	G12										5	36, 37, 33			3-8	
MB9.....	Tone		22	L										5	36, 37, 33			3-8	
NR55 DC.....	Vol.		7	G12	6				28	See Note	B3			7	51, 21, 47, 80			3-3	
NR55 AC, NR56 AC.....	Vol.		6	G12				8-4	1	See Note	B3			5	58, 56, 55, 47, 80	175		3-4	
NR57.....	Vol.		4	G12				4	17	BB11				9	58, 56, 55, 46, 80	175		3-5	
NR60 AC.....	Vol.		4	G12				4-8-8	3	See Note	B3			7	58, 56, 55, 46, 80	175		3-5	
NR60 DC.....	Vol.		4	G12				4	15	BB11				7	58, 56, 55, 46, 80	175		3-5	
NR70 AC.....	Vol.		4	G12				4	17	BB12				7	58, 56, 55, 46, 80	175		3-5	
NR78 AC, NR79 AC.....	Vol.		7	K				1-2	1	See Note	B7			8	501A, 71A			1-9	
NR78 DC, NR79 DC.....	Vol.		13	M				2-1-4	3	See Note	B1			8	27, 32, 71, 80			1-10	
NR80 DC.....	Vol.		4	C										6	26, 71, 27			1-11	
NR80 AC.....	Vol.		4	E12										6	26, 27, 71A			1-13	
NR85 AC.....	Vol.		4	E12										7	501A, 71A			1-12	
NR90 S.....	Vol.	26.26B	24	DRP308										7	26, 210, 27			1-15	
NR95 AC.....	Vol.		7	K12				1-2-4	3	See Note	B1			8	27, 45, 80			1-18	
51DC.....	Vol.		6	Y	6			1-1-4-1	3/14	See Note	B1			9	501A, 71A			1-17	
54.....	Vol.		8	G										8	501A, 12A, 71A			1-19	
56.....	Vol.		8	G										8	26, 27, 71, 80			1-20	
58 AC.....	Vol.		6	Y										8	26, 27, 50, 81			1-21	
59.....	Tone		22	K12										8	21, 27, 45, 80			1-22	
72, 74.....	Vol.		8	G										9	27, 45, 80	175		1-23	
90.....	Vol.		6	G	6									5	39, 36, 89		175	3-1	
91 DC.....	Vol.		8	G				8-4	1	2N518				5	58, 57, 47, 82			3-3	
92 AC.....	Vol.		8	G				8-1	1	2N518				5	58, 57, 47, 80			3-3	
346.....	Tone		22	K12				8-1	4	2S567				5	57, 58, 55, 47, 80	175		3-1	
354.....	Vol.		6	G12	6			8-4	1	2N518				5	58, 57, 47, 82			3-3	
355.....	Vol.		6	G12	6			8-4	1	2N518				7	58, 56, 55, 47, 80	175		3-4	
360, 360X.....	Vol.		6	G12	6			4	17	BB11				9	58, 56, 55, 46, 80	175		3-5	
365, 365X.....	Vol.		6	G12	6			4-8-8	3	See Note	B3			9	58, 56, 55, 46, 80	175		3-5	
	Tone		22	K12				4	15	BB11				5	36, 37, 33			3-6	
	Vol.		6	H12				↑	1	See Note	B7			5	36, 37, 33			3-6	
	Vol.		8	G12	6			↑	28	See Note	B3			5	51, 21, 47, 80			3-7	
	Vol.		6	G12	6			8-4	1	2N518				4	78, 77, 42, 80			4-2	
	Vol.		6	G12	6			5	15	BB11				5	6A7, 78, 75, 42, 80	456		4-3	
	Vol.		6	G12	6			8-4	1	2N518				5	6A7, 78, 75, 42, 80	456		4-3	
	Vol.		6	G12	6			5	15	BB14				5	6A7, 78, 75, 43, 25Z5	456		4-4	
	Vol.		6	G12	6			25-14	6	2N509				5	6A7, 78, 75, 43, 25Z5	456		4-4	
	Vol.		6	G12	6			5	15	BB11				6	6A7, 78, 75, 76, 42, 80	175		4-5	
	Vol.		6	G12	6			8-4	1	2N518				6	6A7, 78, 75, 76, 42, 80	175		4-5	
	Vol.		6	G12	6			5	15	BB11				6	6A7, 78, 75, 76, 43, 25Z5	456		4-6	
	Vol.		6	G12	6			5	15	BB11				6	6A7, 78, 75, 76, 43, 25Z5	456		4-6	
FRED MFG. CO., FE24A.....	INC. Vol.		6	Y				40	21	BB27				1	6D6, 6C6, 43, 25Z5, K55B			9-1	
27D.....	Vol.		18	MR48				8	24	BB21				7	6A7, 6D6, 75, 6G5, 261C6, 25Z5, MT300, K34B	456		9-2	
	Tone		22	MR44				5	15	BB12				7	6A7, 6D6, 75, 6G5, 261C6, 25Z5, MT300, K34B	456		9-2	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FRED MFG. CO., 30D	INC.—C Vol.	continued	18	MR48				40	24	BB27				6	6A7, 6D6, 75, 6G5, 43, 25Z5, MT650, *K18B	456	9-2	
FE30L	Vol.		6	Y				4-1-5-5	24/15	2N500/TN111				3	6D6, 6C6, 12A7		7-1	
FE33	Vol.		6	Y		EX700		12-8	24	2N504				3	6D6, 6C6, 25A7		8-1	
FE48	Vol.		6	Y		EX700		4-4	24	2N500				4	6D6, 6C6, 38, 76		8-1	
FE50, FE51L	Vol.		6	Y		EX700		5-5	15	TN111				4	6D6, 6C6, 43, 25Z5, K55B		8-2	
FE52, FE56, FE58	Vol.		6	MR14	M26			8-12	6	2N504				5	6A7, 6D6, 75, 43, 25Z5	456	7-2	
FE60	Vol.		6	MR14	M26		A14	12-8	6	2N504				5	6A7, 6D6, 75, 43, 25Z5, K49C	456	8-3	
FE62	Vol.		6	MR14	M26		A14	12-8	6	2N504				5	6A7, 6K7, 75, 43, 25Z5, L49E	456	8-3	
FE69X	Vol.		45	MR48	M26			8-8	23	2S567				6	6A7, 6D6, 76, 75, 42, 80	456	8-4	
96	Vol.		18	MR48				5	15	BB12				6	6A7, 6D6, 75, 41, 6G5, 80	456	9-1	
FE97	Vol. Tone		18	MR48				8-16	23	2S563				8	6A7, 6D6, 76, 75, 41, 6G5, 80	456	9-1	
P351L	Vol.		22	MR44				5	15	BB12				4	6D6, 6C6, 43, 25Z5, K55B		8-2	
351, 351P, 351L	Vol.		6	SRP263		EX400		12-8	15	BB12				4	6D6, 6C6, 43, 25Z5, K55B		6-1,2	
357P	Vol.		6	Z12		EX400		5-5	15	2N504				5	6A7, 6D6, 76, 43, 25Z5	456	6-2	
357L, 358L	Vol.		6	Z12		EX300		8-14	6	2N504				5	6A7, 6D6, 75, 43, 25Z5	132	6-3	
369S	Vol.		6	Z12		EX300		5-5	15	TN111				6	6A7, 6D6, 76, 75, 43, 25Z5	456	6-4	
JESSE FRENCH "G" Jr.	Vol.	7777	25	DRP119	6			1-2	1	See Note	B1			5	*24, 45, 80		2-1	
H1	Vol.	H1107	25	GE	6			8-8-1	1	2N518/TP418				5	*24, 45, 80		2-4	
H2 AC	Vol.		6	G12				4	1	ST595				5	*24, 47, 351, 80		2-3	
H2 Jr.	Vol.		6	G12				1, 1	1	ST595				5	*24, 45, 80		3-1	
H2 Special 110V DC	Tone		21	O														
S2	Vol.		40	E12				2-2	1	See Note	B11			5	30, 32, 71A		2-3	
U1	Vol.	7777	25	DRP119	6			5483	2	2N518				8	*24, 27, 345, 80		3-2	
U1	Tone	7779	41	O														
5-093	Vol.		7	C	6			8, 8	34	ST595				7	*24, 27, 335, 47, 80	175	2-5	
	Tone		22	K12														
	Vol.		13	K12					37	See Note	B1			9	*26, 27, 345, 80		1-2	
JESSE FRENCH EX 5X, 6X, 7X	PORT. Vol. Tone	63-235	15	N	6			22-173	30	WE851				8	*58, 57, 56, 59, 80	175	5-1	
	Sen. Vol.	63-232	34	N														
		63-234	7	K														
8 AC	Vol.		1	K12					3	See Note	B1			9	*26, 27, 71, 80		1-1	
FRESHMAN G (1st Type)	Vol.		35	M					1	See Note	B4			7	*26, 27, 71, 80		1-2	
G (2nd Type)	Vol.		35	M					3	See Note	B4			7	*26, 27, 71, 80		1-3	
G (3rd Type)	Vol.		3	G12				2-2-6-4-2-1	3/14	See Note	B4			7	*26, 27, 71, 80		1-3	
H	Vol.		35	M					1	See Note	B4			8	*26, 27, 210, 81		1-4	
K	Vol.		35	M					1	See Note	B4			7	*26, 27, 12A, 213		1-5	
L DC	Vol.		35	M					1	See Note	B4			6	*01A, *12A		1-7	
M	Vol.		60	K12		See Note A43		2-4	1	See Note	B1			7	71, 26, 27, 80		1-6	
N	Vol.		60	K12		See Note A43		1-4	1	See Note	B2			7	*26, 27, 50, 81		1-7	
Q15, Q16	Vol.		60	G12				2-4	1	See Note	B1			5	*22, 27, 26, 71, 80		1-9	
QD-16-S	Vol.		4	G12				1-2-2	3	See Note	B1			5	*22, 27, 26, 71, 80		1-11	
2N with 2N60S	Vol.		60	K12		See Note A43		1-4	1	See Note	B2			7	*26, 27, 50, 81		1-8	
3Q15, 3Q16	Vol.		4	G12				1-4	1	See Note	B1			5	*22, 27, 26, 71, 80		1-10	
21AC and 22AC	Vol.		81	DRP240				2-1-4	3	See Note	B1			8	*26, 27, 71A, 80			
21 DC	Vol.		13	M														
31, 32, (AC)	Vol.		7	K				1-1-4	3	See Note	B1			8	*01A, *71A			
31S, 32S, (AC)	Vol.		58	DRP308				1-1-4	3	See Note	B1			8	*27, 345, 80			
41 (AC)	Vol.		7	K				1-1-4	3	See Note	B1			9	*27, 345, 80			
FROST MINTON FM3, FM5, 4PW	Vol.		6	G12				4, 4	25	ST595				5	*24, 45, 80		4-3	
	Vol.		6	G12				4-4	25	2S567	B3			5	*24, 47, 80		4-1,2	
FULTON Pre.								8-8	4	See Note	B3			3	*76, 84		6-1	
Z	Vol.		16	M				10	15	BB12				4	2A3, 2A6, 5Z3, 56		6-1	
								8-8-8	4 17	RM265	B106							
								5-5	15	TN111								

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	Use	CONTROLS						CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
		Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
FULTON—Continued																		
13B.....	Vol. Equal.		95	MM.				16.	1	See Note.	B3				6	2A6, 5Z3, 250, 53, 56.		6-2
			1	M.				4.	1	See Note.	B4							
								8.	17	BB13.								
15B.....	Vol. Equal.		1	MM.				4.	13	BB60.					6	2A3, 5Z3, 6A6, 75, 76		6-1
			95	M.		See Note A3		16-6.	1	See Note.	B2							
								4.	13	BB60.								
35B.....	Vol. Equal.		1	MM.				8.	17	BB13.					7	250, 56, 57, 59, 783.		6-2
			95	M.		See Note A3		6-16.	1	See Note.	B3							
								2-3.	1	See Note.	B4							
								10.	14	BB13.								
								8.	15	BB11.								
GALVIN MFG. CO.																		
Super 6.....	Motorola Vol. Tone		56	Order from L.	Mfr.			8420.	1	CM172.		941.	270B		6	77, 78, 85, 12A5.	456	4-10
			44	Order from L.	Mfr.													
Dual 6.....	Vol. Tone		77	Order from Mfr.				8825.	1	SR611.		53.	253	C3	6	78, 77, 75, 42, 84.	262	5-1.7
			22	Order from Mfr.				.01.		Buffer.	B14							
A1.....	Vol.	18A24918.	18	Order from Mfr.				23A14747.	12	BB21.					4	1R5, 1T4, 1S5, 1S4.	455	
B150.....	Vol.	1A21688.	18	UM161.	M27		A96	23A21877.	12	BB22.					3	1A7GT, 3A8GT, 1Q5GT.	455	12-38.20
JB.....	Vol. Tone		7	K.		EX200		32-16-16.	11	SR613.					6	6D6, 6A7, 75, 43, 25Z5.		
			22	K12.				10.	15	BB12.								
J8.....	Vol. Tone		7	K.		EX150		21632.	11	SR613.					6	6D6, 6A7, 75, 43, 25Z5.	175	4-3
			22	K12.														
RW1.....	Vol. Bias	18A22175.	15/63	MK 402.	M26			23A14963.	24/15	FPT343.					5	6SQ7GT, 6Q7GT, 6K6GT, 6SK7GT, 5W4GT.		
		18A20889.	7	Order from Mfr.				23A22953.	15	BB15.								
S10.....	Vol. Tone Sen.		83	N.		EX300		8-8-12.	3	See Note.	B3				8	78, 77, 85, 56, 245, 83.	175	4-4
			22	K12.				25.	15	BB15.								
			7	K.														
Twinn "8".....	Vol. Tone		15	Order from Mfr.				8825.	1/19	SR611.		53.	253	C3	8	6A4, 37, 77, 78, 84, 85	262	5-1.7
			22	Order from Mfr.				.01.		Buffer.	B14							
Auto Set "Golden Voice".....	Vol. Tone Sen.	2168.	18	UM154-SS10.	M26			2326.	1	SR612.		2104.	901M	C3	10	24, 01A, 712, 6K7, 6A8, 6R7, 6H16, 6C5, 6F6, 0Z4.	262	7-1.9
		2167A.	22	Order from Mfr.				.005.		Buffer.	B14							
		2303.	7	Order from Mfr.														
		3294.	45	TM230-SS19.	M26			3348.	1/19	SR609.		2404.	901M	C3	8	6K7, 6A8, 6H16, 6C5, 6J5G, 6N7G, 0Z4/6X5.	262	8-1
Golden Voice (1937)	Vol.			Order from Mfr.				23B27161.	24/46	TN129/HC2501.					5	1R5, 1T4, 1S5, 3S4, 117Z6.	455	
3A5.....	Vol.	18A24918.	18	Order from Mfr.														
5 Tube, "Split Case" 5T (5-1).....	Vol. Tone	60H37838.	18	UC510.		See Note A3		14H37285.	4	2S567.					5	01A, 24, 71A.	465	3-1
		60H37835.	34	UM147-SS16.	M26			14H37285.	4	2S567.					5	6A7, 6D6, 75, 41, 80.	465	8-3
5T late (5-3).....	Vol. Tone	60H37829.	15	UM161.			A96	14H37285.	4	2S567.								
		60H37835.	34	MR33.	M26			14H37281.	4	2S563.								
5T1, 5T2, 5Y (5-2).....	Vol. Tone	60H37838.	18	UM147-SS16.	M26			14H37281.	4	2S563.								
		60H37835.	34	MR33.	M26			8.	12	See Note.	B3				5	24, 38, 71A.		3-2
5T 71.....	Vol.		7	UC510.		See Note A3		14H37281.	4	2S563.								
6A (6-1).....	Vol. Tone	60H37838.	18	UM147-SS16.	M26			14H37281.	4	2S563.								
		60H37835.	34	MR33.	M26			14H37285.	4	2S567.								
6A1 (6-5).....	Vol. Tone	60H37829.	15	UM154.			A96	14H37285.	4	2S567.								
		60H37835.	34	MR33.	M26			14H37275.	25/13/19	SR623.					6	6A8, 6K7, 6H16, 6C5, 6V6, 0Z4.	465	8-7
6T, 6Y (6-2).....	Vol. Tone	60H37840.	75	UM147-SS16.	M26			14H37277.	4	WE1830.								
		60H37834.	34	MR33.	M26			14H37288.	13	BB60.								
								50.	1	See Note.	B3				6	24, 01, 712.		3-3
6T-12PL.....	Vol.		7	UC509.		See Note A3		14H37286.	6	2N514.								
6X (6-3, 6-6).....	Vol. Tone	60H37832.	18	MR48.	M26			14H37284.	15	TN111.								
		60H37826.	22	MR48.														
7T-38.....	Vol.		15	L.														
7T-38A.....	Vol.		62	N.														
7T-47A.....	Vol.		62	N.														
8-30.....	Vol.	18A1046.	18	UM154-SS19.	M26			10.	19	BB13.					7	24, 37, 738.		3-4
								23A5186.	24/19	SR637.		48A5333.	902M	C3	7	51, 37, 738.	175	3-7
								.01.		Buffer.	B11							
8-40.....	Vol.	18A4238.	18	UM147-SS19.	M26			23A4014.	1/19	SR637.		48A5333.	902M	C3	6	78, 6A7, 75, 41, 84.	262	10, 11
								.01.		Buffer.	B14							
8-50.....	Vol.	18A4364.	18	UM154-SS19.	M26			23A4309.	4	2S567.		48A3333.	902M	C3	6	78, 6A7, 75, 42, 0Z4.	262	16, 11
								.01.		Buffer.	B14							
8-60.....	Vol.	18A4885.	18	UM154-SS19.	M26			23A4309.	4	2S567.		48A3333.	902M	C3	6	78, 6A7, 75, 41, 0Z4.	262	9-3, 9
								.01.		Buffer.	B14							
8-70.....	Vol.	18A4204.	18	TM227-SS19.	M26			23A4571.	1/15	SR640.		48A3333B.	901M	C3	8	6K7, 6A8, 6V7G, 6C5, 6V6, 0Z4.	262	10, 11
								.005.		Buffer.	B14							
8-80.....	Vol.	18A4740.	18	TM227-SS19.	M26			23A4662.	1/15	SR640.		48A3333B.	901M	C3	8	6K7, 6A8, 6V7G, 6C5, 6V6, 0Z4.	262	9-4, 9, 10, 11
								.005.		Buffer.	B14							
9A, 9R, 9Y (9-1, 9-2, 9-3).....	Vol. Tone	60H37827.	75	TM225-SS16.				14H37275.	25/13/19	SR623.					9	6A8, 6K7, 6H16, 6J5, 6V6, 6G5, 5Y3.	465	8-9
		60H37834.	34	MR33.	M26			14H37277.	4	WE1830.								
								14H37279.	4	ST595.								
								11-11-37288.	13	BB60.								
9-24.....	Vol.	18A12638.	18	SM302.				23A12645.	24/19	FPT381.		48K12312.	903M	C3	6	7A7, 7B8, 7B6, 7B5, 0Z4/6X5.	455	10-3, 4
								.006.		Buffer.	B14							

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GALVIN MFG. CO. 9-24A	Continued Vol.	18A12638	18	SM302				23A12645	24/15	FPT381 Buffer	B14	48K12312	903M	C3	6	26K7GT, 6A8GT, 607GT, 6K6GT, 0Z4/6X5	455 262	10-3,4 10-5,6
9-29	Vol.	18A4046	18	UM154-SS19	M26			23A5186	24/15	SR637 Buffer	B14	48A3333	902M	C3	6	27B, 6A7, 75, 41, 84	262	
9-39	Vol.	18A4046	18	UM154-SS19	M26			22A5186	24/15	SR637 Buffer	B14	48A3333	902M	C3	6	27B, 6A7, 75, 41, 84	262	
9-44	Vol.	18A4364	18	UM154-SS19	M26			23A14219	1/19	FPT381 Buffer	B14	48A3333	902M	C3	6	27B, 6A7, 75, 41, 84	262	10-7,8
9-49	Vol.	18A13761	18	UM154-SS19	M26			23A12645	1/19	FPT381 Buffer	B14	48A3333	902M	C3	6	27B7, 7A8, 7C6, 7C5, 0Z4, or 2A7, 7B8, 7B6, 7B5, 6X5	262	10-9
9-69	Vol.	18A13683	75	TM227-SS19	M26			23A13037	1	FPD231 Buffer	B14	48A3333B	901M	C3	8	27A7, 7B8, 7A6, 7B6, 7C5, 6X5	262	10-10
9-69 (Bantam)	Vol.	18A13683	75	TM227-SS19	M26			23A13037	1	FPD231 Buffer	B14	48A3333B	901M	C3	8	26K7GT, 6A8GT, 6H6GT, 6Q7GT, 26V6GT, 0Z4/6X5	262	
10Y (10-1)	Vol. Tone Fid. Sen.	60H37839 60H37836 60H37833 60H37831	45 1 1 7	UM147-SS16 MR39 MR48 MR19	M26			14H37275	25/13/19	SR623 WE850 B1360					10	26K7G, 6A8G, 26J5G, 6H6G, 6V6G, 6G5, 5Y3	465	8-11,12
10Y late (10-3)	Vol. Tone Fid. Sen.	60H37839 60H37836 60H37833 60H37831	18 1 1 7	UM147-SS16 MR39 MR48 MR19	M26			14H37275	25/13/19	SR623 WE850 ST595					10	26K7G, 6A8G, 26J5G, 6H6G, 6V6G, 6G5, 5Y3	465	
10Y1 (10-2)	Vol. Tone Fid. Sen.	60H37839 60H37836 60H37833 60H37831	18 1 1 7	UM147-SS16 MR39 MR48 MR19	M26			14H37274	25	WE3050 WE850					10	26K7G, 6A8G, 6B8G, 6H6G, 6G5, 6J7G, 6R7G, 6V6G, 5Y3	465	9-13,20
11A Wireless Record Player								10	13	BB22					1	25A7G		11-32
12Y, 12Y1 (12-1)	Vol. Tone Fid. Sen.	60H37839 60H37836 60H37833 60H37831	18 1 1 7	UM147-SS16 MR39 MR48 MR19	M26			14H37274	25	WE3050 WE850					12	26K7G, 6A8G, 6B8G, 26J5G, 6H6G, 6J7G, 6R7G, 6V6G, 5X4G, 6U5	465	9-15,20
15F	Vol.	18A13761	18	UM154-SS19	M26			23A12645	1/19	FPT381 Buffer	B14	48A3333	902M	C3	6	27B, 6A7, 75, 41, 84	455	10-11,12
16C	Vol.	1X13617	18	UM154-SS20	M26			23A12645	1/19	FPT381 Buffer	B14	48A3333	902M	C3	6	27A7, 7B8, 7B6, 0Z4, 7B5	455	10-13,14 10-15,16
17D	Vol.	1X13040	18	TM230-SS21	M26			23K13504	1/15	FPT381 Buffer	B14	48A3333	902M	C3	6	27B, 75, 6A7, 6V6, 0Z4	455	
180	Vol.	18A12999	18	Order from	Mfr.			23A12645	1/19	FPT381 Buffer	B14	48A3333	902M	C3	6	7A8, 27A7, 7C6, 0Z4, 7C5	455	10-17,18
19B	Vol.	18A13174	18	TM230-SS1	M26			23A13637	1	FPT389 Buffer	B8 B14	3333B	901M	C3	7	27A7, 7B8, 7B6, 26V6, 0Z4	455	10-19,20
20P	Vol.	18A13761	18	UM154-SS19	M26			23A12645	1/19	FPT381 Buffer	B14	48A3333B	901M	C3	7	27B, 6A7, 6Q7GT, 341, 0Z4	455	10-21,22
21A Wireless Record Player								10	12	BB22					2	6K6GT, 76		11-32
21L	Vol.	18A13761	18	UM154-SS19	M26			23A12645	1/19	FPT381 Buffer	B14	48A3333B	901M	C3	7	27B, 6A7, 6Q7GT, 341, 0Z4	455	10-21,22 12-4
22A	Bias	18A20889	7	Order from	Mfr.			23A20887	24/15	TN125					2	6SK7GT, 6J5GT		12-4
22S	Vol.	18A13761	18	UM154-SS19	M26			23A12645	1/19	FPT381 Buffer	B14	48A3333	902M	C3	6	27B, 6A7, 75, 41, 84	455	12-5,6
23HC, 23RCW	Bias	18A20889	7	Order from	Mfr.			23A20887	24/15	TN125					2	6SK7GT, 6J5GT		12-4
24K	Vol.	18A13761	18	UM154-SS19	M26			23A12645	1/19	FPT381 Buffer	B14	48A3333B	901M	C3	7	27B, 6A7, 6Q7GT, 341, 0Z4	455	10-21,22
25F	Vol.	18A18283	18	Order from	Mfr.			23A17738	24/15	FPT328 Buffer	B14	48A3333	902M	C3	6	26SK7GT, 6SA7GT, 6S07GT, 6K6GT, 0Z4/6X5	455	11-2,1 12-5,6
25N	Vol.	18A13761	18	UM154-SS19	M26			23A12645	1/19	FPT381 Buffer	B14	48A3333	902M	C3	6	27B, 6A7, 75, 41, 84	455	
26C	Vol.	18B18676	18	Order from	Mfr.			23A17738	24/19	FPT328 Buffer	B14	48A3333	902M	C3	6	26K7GT, 6A8GT, 6Q7GT, 6K6GT, 0Z4 6X5	455	11-3,4
26C7	Vol.	18B18676	18	Order from	Mfr.			23A17190	1	FPT333 Buffer	B192 B14	48A3333	902M	C3	7	26K7GT, 6SA7GT, 6Q7GT, 26K6GT, 0Z4	455	10-3,4
27D	Vol.	1K17377	18	UM154	M26			23A17190	24	FPT333 Buffer	B192 B14	48A3333	902M	C3	7	26K7GT, 6SA7GT, 6Q7GT, 26K6GT, 0Z4	455	11-5,6
27D6	Vol.	18A17378	18	UM154	M26			23A17738	24/19	FPT328 Buffer	B14	48A3333	902M	C3	6	26K7GT, 6A8GT, 6Q7GT, 6K6GT, 6X5-0Z4	455	12-7,8
280	Vol.	28B17109	18	Order from	Mfr.			23A17190	1	FPT333 Buffer	B192 B14	48A3333	902M	C3	7	26K7GT, 6SA7GT, 6Q7GT, 26K6GT, 0Z4	455	11-7,8
29B	Vol.	18B17108	18	Order from	Mfr.			23A17190	1	FPT333 Buffer	B192 B14	48A3333B	901M	C3	7	26SK7GT, 6SA7GT, 6Q7GT, 26V6GT, 0Z4-6X5	455	11-9,10
29B6	Vol.	18A17108	18	Order from	Mfr.			23A17738	1/15	FPT328 Buffer	B14	48A3333	902M	C3	6	26SK7GT, 6SA7GT, 6S07GT, 6K6GT, 0Z4	455	11-11,10

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GALVIN MFG. CO. 30P.....	Continued Vol.	28B17457...	18	Order from Mfr.				23A17190... .007	1	FPT333... Buffer	B192 B14	48A3333...	902M	C3	7	*6K7GT, 6SA7GT, 6Q7GT, *6K6GT, 0Z4	455	11-7,8
34.....	Vol.	1010A.....	77	UM154-SS3	M26			8426... R2520... .02	1 19	CM172... BB15... Buffer		2404.....	901M	C3	6	*7B, 77, 75, 42, 84	456	5-8
34K6.....	Vol.	1K20085...	18	UM154...	M26		A96	23A17738... .01	24/19	FPT328... Buffer	B14	48A3333...	902M	C3	6	*6SK7GT, 6SA7GT, 6SQ7GT, 6K6GT, 0Z4	455	12-9,8
34K7.....	Vol.	1K20085...	18	UM154...	M26			23A17738... .006	24/19	FPT333... Buffer	B192 B14	48A3333...	902M	C3	7	*6SK7GT, 6SA7GT, 6SQ7GT, *6K6, 0Z4	455	12-10,8
35.....	Vol.	3238.....	18	UM154-SS19	M26			3314... .01	19/24	SR632... Buffer	B14	2404.....	901M	C3	6	*7B, 6A7, 75, 41, 84/ 6Z4	262	8-15
35F.....	Vol.	18A24737...	18	UM154-SS30	M26			23A22738... .02	24/19	FPT313... Buffer	B14	48A3333...	902M	C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT	262	12-11,12
35N.....	Vol.	1K18144...	18	Order from Mfr.				23A17738... .01	24/15	FPT328... Buffer	B14	48K12793... 48K12312...	903M 903M	C3 C3	6	*6SK7GT, 6SA7GT, 6SQ7GT, 6K6GT, 0Z4	455	12-13- 11-8
36C1.....	Vol.	18B24046...	18	Order from Mfr.				23A22738... .02	24/19	FPT313... Buffer	B14	48A5067... 48A5333...	902M 902M	C3 C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT	262	
36C2.....	Vol.	18B24046...	18	Order from Mfr.				23A22738... .02	24/19	FPT313... Buffer	B14	48A5067... 48A5333...	902M 902M	C3 C3	6	*6SK7GT, 6SA7GT, 6SQ7GT, 6U6GT, 6X5GT	455	
37D1.....	Vol.	1K17377...	18	Order from Mfr.				23A23651... .007	24/13	FPT390... Buffer	B14	48K11026...	901M	C3	8	6SD7GT, 6SA7GT, 6SK7GT, 6SQ5GT, 6J5GT, *6V6GT, 0Z4	262	12-14,16
37D2.....	Vol.	1K17377...	18	Order from Mfr.				23A22738... .02	24/19	FPT313... Buffer	B14	48A3333...	902M	C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT	455	12-15,16
38O.....	Vol.	18B24254...	18	Order from Mfr.				23A22738... .02	24/19	FPT313... Buffer	B14	48A5333... 48A5067...	902M 902M	C3 C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT	262	12-17,18
39B1.....	Vol.	18K23489...	18	Order from Mfr.				23A17190... .006	1	FPT339... Buffer	B192 B14	48K11026...	901M	C3	7	6SD7GT, 6SA7GT, 6SK7GT, 6R7GT, *6V6GT, 0Z4	262	
39B2.....	Vol.	18K23489...	18	Order from Mfr.				23A22738... .02	24/19	FPT313... Buffer	B14	48A5067...	902M	C3	6	*6SK7GT, 6SA7GT, 6Q7GT, 6U6GT, 6X5GT	455	
40-40B.....	Vol.	18A19979...	18	MK402...	M27			23A14727...	12	BB21				4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	12-23	
40B1.....	Vol.	18A19979...	18	MK402...	M27			23A14727...	12	BB21				4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	12-19,20	
40BK, 40BW.....	Vol.	18A19979...	18	MK402...	M27			23A14727...	12	BB21				4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	12-19,20	
40P.....	Vol.	18B23844...	18	Order from Mfr.				23A22738... .02	24/19	FPT313... Buffer	B14	48A5067... 48A5333...	902M 902M	C3 C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT	262	12-21,22
40-50W.....	Vol.	18K19939...	18	MK401...	M26			23A19877...	24/19	FPT339				5	6A8GT, 6SK7GT, 6SQ7GT, 6K6GT, 80	455	12-25, 26,36	
40-60W.....	Vol.	18A14629...	18	UM154-SS22	M26			23A18744...	24	2N515				6	*12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-24	
41A.....	Vol.	18A14812...	18	UM154-SS22	M27			23A14828...	19	BB15				4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-12	
41B.....	Vol.	18K14839...	18	UM154-SS22	M27			23A14828...	19	BB15				4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-13	
41D1, 41D2.....	Vol.	18K15633...	18	UM154-SS22	M27			23A14828...	19	BB15				4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-14,13	
41E.....	Vol.	18A14812...	18	UM154-SS22	M27			23A14828...	19	BB15				4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-12	
41F.....	Vol.	18K14839...	18	UM154-SS22	M27			23A14828...	19	BB15				4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-13	
41H.....	Vol.	18K17174...	18	Order from Mfr.				23A16138... 23A16139... 23K16446...	78 24 19	HC605... FPT358... BB15				4	1A7GT, 3A8GT, 1Q5GT, 25Z6GT	455		
41S.....	Vol.	18A15869...	18	UM161-S622	M27			23A22738... .02	24/19	FPT313... Buffer	B14	48A3333... 48A5067...	902M 902M	C3 C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT	262	12-27,28
42S.....	Vol.	18A24657...	18	UM154-SS29	M26			23A22738... .02	24/19	FPT313... Buffer	B14	48A3333... 48A5067...	902M 902M	C3 C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT	262	12-29,30
43H.....	Vol.	18A23198...	18	Order from Mfr.				23A22738... .02	24/19	FPT313... Buffer	B14	48A3333... 48A5067...	902M 902M	C3 C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT	456	4-5,8
44.....	Vol.	531C.....	17	SRP280				1823... 10... .01	1 15	SR601... BB12... Buffer		944.....	235	C3	5	12A5, 75, 77, 78	262	12-31
44K.....	Vol.	1K24074...	18	UM154...	M26		A96	23A22738... .02	24/19	FPT313... Buffer	B14	48A5067... 48A5333...	902M 902M	C3 C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT	262	12-31

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
GALVIN MFG. CO.	Continued																	
45	Vol.	3244	18	UM147-SS19	M26			3344	1/19	SR632 Buffer	B14	2404	901M	C3	6	78, 6A7, 75, 41, 84/ 6Z4	262	8-16
45N	Vol.	18H24193	18	Order from	Mfr.			23A22738	24/19	FPT313 Buffer	B14	48K12793	903M	C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT	262	12-33
49BT1, 49BT2	Vol.	18A12131	18	MR48	M27			23X12223	19	BB15					4	1A7G, 1N5G, 1H5G, 1A5G	455	
50	Vol.	2336	18	UM154-SS11	M26			2317	1	SR602 Buffer	B14	2404	901M	C3	6	6A7, 78, 75, 41, 84	262	7-2
50W	Vol.	18K19939	18	MK401	M26			23A19877	24/19	FPT339					5	6A8GT, 6SK7GT, 6SQ7GT, 6K6GT, 80	455	12-25
50X1, 50X2	Vol.	18A14629	18	UM154-SS22	M26			23A20504	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-35,36
50XC1, 50XC2, 50XC3, 50XC4	Vol.	18A14629	18	UM154-SS22	M26			23A20504	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-35,36
50XH1, 50XH2	Vol.	18A14629	18	UM154-SS22	M26			23A20504	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-37
50XW	Vol.	18A14629	18	UM154-SS22	M26			23A20504	1	2N509					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-35,36
51	Vol.		83	N											5	36, 39, 85, 41	175	
51A (Ch. 5A)	Vol.	18A14629	18	UM154-SS22	M26			23A14615	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	455	11-15,16
51A (Ch. 5AA)	Vol.	18A14629	18	UM154-SS22	M26			23A14615	1	2N509					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-15,16
51C (Ch. 5C)	Vol.	18A14629	18	UM154-SS22	M26			23A14615	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	455	11-17
51D	Vol.	18A16143	18	Order from	Mfr.			23A16139 23A16138	24 78	FPT358 HC605	B217				5	1A7GT, 1N5GT, 1H5GT, 1F5GT, 25Z6GT	455	
51D1, 51D2	Vol.	18A16143	18	Order from	Mfr.			23A16139 23A16138	24 78	FPT358 HC605					5	1A7GT, 1N5GT, 1H5GT, 1Q5GT, 25Z6GT	455	11-14
52BK, 52BW	Vol.	18K23336	18	MK402	M27			23A14727	12	BB22					5	1H5GT, 1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	
52C (Ch. 5C)	Vol.	18A14629	18	UM154-SS22	M26			23A14615	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	455	11-17,16
52D	Vol.	18A16143	18	Order from	Mfr.			23A16139 23A16138	24 78	FPT358 HC605	B217				5	1A7GT, 1N5GT, 1H5GT, 1Q5GT, 25Z6GT	455	
52T, 52Y	Vol.	60H37837	18	MR44											4	1C7G, 1D5G, 1F7G, 1G5G	465	
52T1	Vol.	18A22551	18	MK401	M26			23A19877	24/19	FPT339					5	6A8GT, 6SK7GT, 6SQ7GT, 41, 80	455	12-25
52XAH1	Vol.	18A14629	18	UM154-SS22	M26			23A20504	1	2N509					5	12A8GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-38
53A, 54A (Ch. 5A)	Vol.	18A14629	18	UM154-SS22	M26			23A14615	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	455	11-15
53A, 54A (Ch. 5AA)	Vol.	18A14629	18	UM154-SS22	M26			23A14615	1	2N509					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	11-15-18
53C (Ch. 5C)	Vol.	18A14629	18	UM154-SS22	M26			23A14615	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	455	11-17,16
55	Vol.	531C	56	SRP280	7			88300	24	2N518		625	231	C3	5	77, 78, 75, LA	455	4-9
								830	1/19	SR603 Buffer	B14							
56T, 56Y	Vol. Tone	60H37828 60H37834	18 22	Order from MR33	Mfr. M26			14H37283	1	Order from TN111	Mfr.	59H37825	246	C3	5	6D8G, 6S7G, 6T7G, 6K6G, 6Z7G	465	
								10-10	15	Buffer	B14							
56X1, 56XA1, 56XA2, 56XAW	Vol.	18A14629	18	UM154-SS22	M26			23A20504 23A22953	1 15	2N509 BB15					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	
57	Vol.	1449	17	UM154-SS15	M26			1540	1/19	SR604 Buffer	B14	1784	253T	C3	5	6A7, 41, 75, 78, 84	456	6-1
57BP1, 57BP2, 57BP3, 57BP4	Vol.	18A20580	18	MK402	M27			23A20324 23A20318	24 78	FPT214 HC1205A					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 11Z6G	455	12-39,40

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
GALVIN MFG. CO. 57BP1A, 57PB2A, 57BP3A, 57BP4A	Continued																	
Vol.	18K20339...	18	MK402...	M27			23A20324... 23A20318...	76 76	FPD214... HC1205A...						5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z6G...	455	
58F1	Vol.	18K19939...	18	MK401...	M26		23A19877...	24/13	FPT339...						5	6A8GT, 6SK7GT, 6SQ7GT, 6V6GT, 5W4GT...	455	
58FRC	Vol.	18K19939...	18	MK401...	M26		23A19877...	24/13	FPT339...						5	6A8GT, 6SK7GT, 6SQ7GT, 6V6GT, 5W4GT...	455	
59F1	Vol.		18	MR53...	M27		15-10-20...	1/19 13	TN136... CS130...						5	6A7, 6D6, 75, 6V6G, 80...	455	9-22
59K1 (59R5)	Vol. Tone	18A10991... 18A10992...	80 80	TM238-SS22 UM160-SS22	M26		23A11336...	1/19	TN139...						5	6A7, 6D6, 75, 41, 80.	455	9-23,24
59T1, 59T3 (59R3, 59R1)	Vol.	18A10847...	18	MR53...	M26		23A11519... 23A10846...	24/19 24/19	FPT357... TN129...	B10					4	6C6/6A7, 6D6, 75, 25A7G, M73B...	455	9-25,26
59T2, 59T4 (59R2, 59R4)	Vol.	18A10847...	18	MR53...	M26		23K11087...	1/19	TN136...						5	6A7, 6D6, 75, 41, 80.	455	9-27
59T5 (59R5)	Vol. Tone	18A10991... 18A10992...	80 80	TM238-SS22 UM160-SS22	M26		23A11336...	1	TN139...						5	6A7, 6D6, 75, 41, 80.	455	9-23
60	Vol.	2166...	18	UM154-SS10	M26		2188... .008	1	SR605... Buffer...			2404...	901M	C3	6	78, 6A7, 75, 6B5, 84.	262	7-3,6
60X1, 60X2	Vol.	18A14629...	18	UM154-SS22	M26		23A20504...	1	2N509...						6	12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5GT...	455	12-41
60XA1, 60XA2	Vol.	18A14629...	18	UM154-SS22	M26		23A20504...	1	2N509...						6	12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5GT...	455	12-42
60XW	Vol.	18A14629...	18	UM154-SS22	M26		23A20504...	1	2N509...						6	12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5GT...	455	12-41
60XW3	Vol.	18A14629...	18	UM154-SS22	M26		23A20504...	1	2N509...						6	12S17GT, 12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT...	455	175
61	Vol.	511...	83	N			8200 L or W, 1	1	CS133... Buffer...	B14	538	302S	C3	5	36, 39, 85, 41	175	3-15	
61A (Ch. 6A)	Vol.	18K14681...	18	MK401...	M26		23A14615...	1	2N509...						5	6A7, 6D6, 75, 25L6G, 25Z5...	455	11-18
61B (Ch. 6B)	Vol.	18K14681...	18	MK401...	M26		23A14615...	1	2N509...						5	6A7, 6D6, 75, 25L6G, 25Z5...	455	11-19
61C (With R. F. Stage)	Vol.	18K15058...	18	MK401...	M26		23A15246...	1/19	TN139...						6	6D6, 6A7, 75, 41, 80.	455	11-20
61CA (With Separate Osc.)	Vol. Tone	18K15058... 18A16083...	18 22	MK401... UM160-SS25	M26		23A15246...	1/19	TN139...						6	6A7, 6D6, 75, 41, 80, 76	455	11-21
61D (With R. F. Stage)	Vol.	18K15058...	18	MK401...	M26		23A15246...	1/19	TN139...						6	6D6, 6A7, 75, 41, 80.	455	11-20
61D (With Loop)	Vol. Tone	18K15058... 18A16083...	18 22	MK401... UM160-SS25	M26		23A15246...	1/19	TN139...						6	6A7, 6D6, 75, 76, 41, 80	455	11-22,23
61DA (With Separate Osc.)	Vol. Tone	18K15058... 18A16083...	18 22	MK401... UM160-SS25	M26		23A15246...	1/19	TN139...						6	6A7, 6D6, 75, 41, 76, 80	455	11-21
61E (Ch. 6E)	Vol.	18K14681...	18	MK401...	M26		23A14615...	1	2N509...						5	6A7, 6D6, 75, 25L6G, 25Z5...	455	11-24
61F	Vol.	18K15058...	18	MK401...	M26		23A15281... 23A15291...	11 11	FPT360... B24...						6	6A7, 6D6, 6Q7GT, 25B6G, 25Z5...	455	12-32
61XW	Vol.	18A14629...	18	UM154-SS22	M26		23A20504...	1	2N509...						6	12SK7GT, 12SA7GT, 12SQ7GT, 35L6GT, 35Z5GT...	455	12-42
62	Vol.	1449...	17	UM154-SS15	M26		1540... .01	1/19	SR604... Buffer...	B14	1784	253T	C3	5	6A7, 41, 75, 78, 84.	456	6-1	
62A (Ch. 6A)	Vol.	18K14681...	18	MK401...	M26		23A14615...	1	2N509...						5	6A7, 6D6, 75, 25L6G, 25Z5...	455	11-18
62B (Ch. 6B)	Vol.	18K14681...	18	MK401...	M26		23A14615...	1	2N509...						5	6A7, 6D6, 75, 25L6G, 25Z5...	455	11-16-19
62E (Ch. 6E)	Vol.	18K14681...	18	MK401...	M26		23A14615...	1	2N509...						5	6A7, 6D6, 75, 25L6G, 25Z5...	455	11-16,24
62F1	Vol. Tone	18A21176... 18A21481...	18 1	TM230-SS25 UM160-SS25	M26		23A14963...	1/19	FPT343...						6	6SK7GT, 6A8GT, 6SQ7GT, 41, 80.	455	12-45,46
62I	Vol. Tone	18K15058... 18A16083...	18 22	MK401... UM160-SS25	M26		23A15246...	1/19	TN139...						6	6D6, 6A7, 75, 41, 80.	455	12-43
62T1	Vol. Tone	18A21176... 18A21481...	18 1	TM230-SS25 UM160-SS25	M26		23A14963...	1/19	FPT343...						6	6SK7GT, 6A8GT, 6SQ7GT, 41, 80.	455	12-44
62T2	Vol.	18K26678...	18	MK401...	M26		23A14963...	1/19	FPT343...						6	6SK7GT, 6A8GT, 6SQ7GT, 41, 80.	455	
63A (Ch. 6A)	Vol.	18K14681...	18	MK401...	M26		23A14615...	1	2N509...						5	6A7, 6D6, 75, 25L6G, 25Z5...	455	11-16,18
63E (Ch. 6E)	Vol.	18K14681...	18	MK401...	M26		23A14615...	1	2N509...						5	6A7, 6D6, 75, 25L6G, 25Z5...	455	11-16,24
65	Vol.	3264...	18	UM154-SS19	M26		3345... .01	1	2N518... Buffer...	B14		901M	C3	6	78, 6A7, 75, 6AB6G, 0Z4/6X5G...	262	8-17	

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GALVIN MFG. CO. 65BP1, 65BP2, 65BP3, 65BP4...	Continued																	
65BP1A, 65BP2A, 65BP3A, 65BP4A	Vol.	18K20339...	18	MK402	M27			23A20324... 23A20318... 23A14828...	76 76 78	FPD214... HC1205A... BB15					6	1P5GT, 1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z6G...	455	12-37
66.....	Vol. Tone	18K20339...	18 17	MK402 Order from L	M27 Mfr...			23A20318... 23A20324... 23A22953... 8420.....	76 76 78 1	HC1205A... FPD214... BB15 CM172		270B			6 7	1P5GT, 1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z6G... 77, 78, 85, 212A5	455 456	4-10
69K1 (69H1).....	Vol. Tone	18A10991... 18A10992...	80 80	TM238-SS22 UM160-SS22	M26		A99	23K11357...	25	TN139					6	6A7, 6D6, 6Q7G, 342, 80	455	9-28-29
70.....	Vol.	3274.....	18	UM154-SS19	M26			3346... .005	4	2S567... Buffer	B14	3316	901M	C3	6	78, 6A7, 75, 42, 0Z4/ 6X5G	262	8-18
71A.....	Vol. Tone	18A17041... 18A16083...	80 80	TM231-SS25 UM160-SS25	M26		A99	23A16805... 23A15291...	9 9	FPT361... BB24					7	6A7, 6D6, 6SQ7GT, 25B6G, 25Z5	455	
72C.....	Vol. Tone	18A17425... 18A16083...	80 80	TM251-SS25 UM160-SS25	M26		A99	23A17422...	24	FPD228					7	6A8GT, 6K7GT, 6SQ7GT, 6V6G, 5W4GT	455	
75.....	Vol.	1466.....	18	UM154-SS15	M26			1465 or 1468 .01	1/19	SR607... Buffer	B14	1784	253T	C3	6	78, 77, 75, 41, 84...	262	6-1,2
77.....	Vol.	531C.....	17	SRP280				8300A... 8300B... 6530... .01	4 4 19	BB61... BB61... SR608... Buffer	B14	735	230	C3	7	39, 77, 75, 21A...	456	4-11,15
77A.....	Vol. Tone	..... .....	56 44	SRP280 L				8420.....	1	CM172	B14	852	270B		7	212A5, 77, 78, 85...	456	4-12
78.....	N	.....	15	N											7	36, 38, 39, 85, 37...	175	
79.....	Vol.	1466.....	56	UM154-SS15	M26			1468 or 1465 .01	1/19	SR607... Buffer	B14	1784	253T	C3	6	78, 77, 75, 41, 84...	262	6-1,2
80.....	Vol. Tone	2168...	55 76	UM154-SS10 Order from Mfr...	M26			2185... .005	1	SR609... Buffer	B14	2404	901M	C3	8	6K7, 6A8, 6116, 6C5, 6N6, 0Z4	262	7-4,7
81C (Cylindrical Loop)	Vol. Tone	18A15332... 18A16083...	18 22	TM233-SS25 UM160-SS25	M26		A99	23A14963...	1/19	FPT343					8	6A7, 6D6, 76, 6Q7G, 341, 80	455	11-25
81C (Square Loop)	Vol. Tone	18A15332... 18A16083...	18 22	TM233-SS25 UM160-SS25	M26		A99	23A14963...	1/19	FPT343					8	6A7, 6D6, 76, 6Q7G, 341, 80	455	11-26
82A.....	Vol. Tone	18A14938... 18K14937...	18 22	TM233-SS25 UM160-SS25	M26		A99	23A14963... 23A11981...	1/19 1	FPT343... SR647					8	6A7, 6D6, 6Q7G, 341, 384	455	11-27-30
83F1.....	Vol. Tone	18A22065... 18A21481...	140 140	TM238-SS25 UM160-SS25	M26		A99	23A14963... 23A11981...	1/19 1	FPT343... SR647					8	212SK7GT, 12A8GT, 212SQ7GT, 342, 80	455	12-49
83K1.....	Vol. Tone	18A21724... 18A21725...	140 140	TM238-SS25 UM160-SS25	M26			23A14963...	1/19	FPT343					8	212SK7GT, 12A8GT, 212SQ7GT, 342, 80	455	12-50-52
88.....	Vol.	511.....	15	N				8200 L or W .05	1	CS133... Buffer	B14	537	302S	C3	7	36, 39, 85, 37, 338	175	3-10,14
89K1, 89K2 (89H1).....	Vol. & Tone	18A11423 or 18A11781...	18 80	Order from Mfr...	Mfr...			23A10045... 23A10044... 23A11951... 23A10044... 23A22501...	1 1 25 25 1/19	WE4050... WE4030... FPS146... WE4030... FPT346					8 8 9	6D6, 6A7, 75, 342, 80, 6A7, 6D6, 75, 342, 80, 76	455	9-31,32 11-33-36 11-36
89K3.....	Vol. Tone	18A11645... 18A11953...	80 80	TM238-SS1 UM160-SS1			A99	23A10044... 23A22501...	25 1/19	WE4030... FPT346					9	212SK7GT, 12A8GT, 212SQ7GT, 342, 80	455	12-55,56
93F1.....	Vol. Tone	18A22493... 18A21481...	124 22	TM236-SS25 UM160-SS25	M26			23A11710... 1388...	13 1/19	BB41... Buffer		1784	253T	C3	8	78, 77, 85, 76, 21A, 84	262	6-2,5
100.....	Vol.	1399.....	77	UM154-SS11	M26			23A22051... .01	1	FPT346... Buffer	B14				10	6SK7GT, 6A8GT, 6J5GT, 6SQ7GT, 6V6G, 80	455	12-56,57
103F1.....	Vol. Tone	18K22590... 18A21481...	124 22	TM234-SS25 UM160-SS25	M26			23A22051... 23A11710...	1 13	FPT346... BB41					10	6SK7GT, 6A8GT, 6J5GT, 6V6G, 6SQ7GT, 80	455	12-56-58
103F2.....	Vol. Tone	18K22590... 18A21481...	124 22	TM234-SS25 UM160-SS25	M26			23A11710...	13	BB41					10	6SK7GT, 6A8GT, 6J5GT, 6SQ7GT, 6V6G, 80	455	12-52,53
103K1.....	Vol. Tone	18A22010... 18A22009...	140 140	TM238-SS25 UM160-SS25	M26			23A14963... 23A11710...	1/19 13	FPT343... BB41					10	6SK7GT, 6A8GT, 6J5GT, 6SQ7GT, 6V6G, 80	455	12-52,53
103CK2.....	Vol. Tone	18A22010... 18A22090...	140 140	TM238-SS25 UM160-SS25	M26			23A14963... 23A11710...	1/15 13	FPT343... BB41					10	6SK7GT, 6A8GT, 6J5GT, 6SQ7GT, 6V6G, 80	455	12-52,54
109K1.....	Vol. Tone	18A11645... 18A11871...	80 80	TM240-SS1 UM160-SS1			A99	23A10045... 23A10044... 23A11710... 23K12069... 23A11981... 23K12220... 23A10045... 23A10044... 23A11710... 23K12069... 23A11981... 23K12220...	25 25 14 14 14 25 25 14 14 14 25 25 14	WE4050... WE4030... BB41... BB17... SR647... HC1220A... WE4050... WE4030... BB41... BB17... SR647... HC1220A...				10	6K7G, 6J5G, 6A8G, 6116G, 6Q7G, 6F6G, 5Z3, 6U7G	455		
109K2.....	Vol. Tone	18A11780... 18A11871...	140 140	TM240-SS1 UM160-SS1			A99	23A10045... 23A10044... 23A11710... 23K12069... 23A11981... 23K12220...	25 25 14 14 14 25	WE4050... WE4030... BB41... BB17... SR647... HC1220A...					10	6K7G, 6A8G, 6116G, 6Q7G, 6V7G, 6F6G, 5Z3, 6U5G	455	11-37-40
110.....	Vol.	18	UM154-SS11	M26			23K12220... 1388... .01	1/19	HC1220A... SR610... Buffer	B14	1784	253T	C3	8	78, 77, 85, 37, 21A, 84	262	6-2,3

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GALVIN MFG. CO. 250.....	Continued Vol.	18A18652...	18	Order from	Mfr...			23A17738... .006	24/19	FPT328 Buffer.....	B14	48K12312...	903M	C3	6	26K7GT, 6A8GT, 6Q7GT, 6K6GT, 0Z4/6X5	455	12-59,60
251.....	Vol.	18A18652...	18	Order from	Mfr...			23A22738... .02	24/19	FPT313 Buffer.....	B14	48K12793... 48K12711...	903M 903M	C3 C3	6	26SK7GT, 6SA7GT, 6SQ7GT, 6U6GT, 6X5GT	455	12-61,62
300.....	Vol.	18A17767...	18	Order from	Mfr...			23A17738... .01	24/19	FPT328 Buffer.....	B14	48A3333... 48A5067...	902M 902M	C3 C3	6	26K7GT, 6A8GT, 6Q7GT, 6K6GT, 0Z4	262	11-45
301.....	Vol.	18A17767...	18	Order from	Mfr...			23A22738... .02	24/19	FPT313 Buffer.....	B14	48A5333... 48A5067...	902M 902M	C3 C3	6	26SK7GT, 6SA7GT, 6SQ7GT, 6U6GT, 6X5GT	262	12-63
350.....	Vol.	18A19113...	18	TM233-SS19	M26			23A17738... .006	24/19	FPT328 Buffer.....	B14	48K12312... 48K12793...	903M 903M	C3 C3	6	26K7GT, 6A8GT, 6Q7GT, 6K6GT, 0Z4	262	11-46,47
351.....	Vol.	18A19113...	18	TM233-SS19	M26			23A22738... .02	24/19	FPT313 Buffer.....	B14	48A5333... 48A5067...	902M 902M	C3 C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT...	262	12-64
400.....	Vol.	18K17853...	18	†			A3	23A17738... .006	24/19	FPT328 Buffer.....	B14	48A3333...	902M	C3	7	26K7GT, 6A8GT, 6Q7GT, 26K6GT, 0Z4	262	11-48
401.....	Vol.	18A17767...	18	Order from	Mfr...			23A17738... .01	24/19	FPT328 Buffer.....	B14	48A5333...	902M	C3	7	6SD7GT, 6SA7GT, 6SK7GT, 6Q7GT, 26K6GT, 6X5GT...	262	12-65
450.....	Vol.	1K19343...	18	UM154-SS28	M26			23A17190... .007	1	FPT333... Buffer.....	B192 B14	48A3333... 48A5067...	902M	C3	7	6SK7GT, 6SA7GT, 6K7GT, 6SQ7GT, 26K6GT, 0Z4/6X5...	262	11-49,50
451.....	Vol.	18A17767...	18	Order from	Mfr...			23A22738... .02	24/15	FPT313... Buffer.....	B14	48K12793...	903M	C3	6	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT...	262	12-66
496BT1.....	Vol.	18A12156...	18	MR48.....	M26			23A11959... .03	24/15	FPT357... Buffer.....	B14	48X12412...	246A	C3	4	6DB8, 6S7G, 6T7G, 6G6G	455	
500.....	Vol.	18A19341...	18	UM154-SS28	M26			23A17190... .01	24	FPT333... Buffer.....	B192 B14	48A3333... 48A5067...	902M 902M	C3 C3	7	26K7GT, 6A8GT, 6Q7GT, 26K6GT, 0Z4/6X5	262	12-67,68
501.....	Vol.	1K19343...	18	UM154-SS28	M26			23A17190... .01	1	FPT333... Buffer.....	B192 B14	48K11026...	901M	C3	7	6SD7GT, 6SA7GT, 6SK7GT, 6Q7GT, 26K6GT, 0Z4	262	12-69
550.....	Vol.	1A20435...	18	†			A3	23A17738... .01	24/19	FPT328... Buffer.....	B14	48A5333... 48A5067...	902M 902M	C3 C3	6	26SK7GT, 6A8GT, 6SQ7GT, 6K6GT, 0Z4	262	12-70
550A.....	Vol.	1A20435...	18	†			A3	23A22738... .02	24/19	FPT313... Buffer.....	B14	48A5067... 48A5333...	902M 902M	C3 C3	6	6SD7GT, 6A8GT, 6SK7GT, 6SQ7GT, 6U6GT, 6X5GT/0Z4	262	
551.....	Vol.	18A17767...	18	Order from	Mfr...			23A23651... .007	46	FPT390... Buffer.....	B14	48K11026...	901M	C3	8	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, 6J5GT, 26V6GT, 0Z4	262	12-71
700.....	Vol. Tone	1K19085... 1K19085...	18 75	† †			A3 A3	23A17190... .005	1	FPT333... Buffer.....	B192 B14	48K11026...	901M	C3	8	26K7GT, 6A8GT, 6SQ7GT/6H6GT, 6Q7GT, 26V6GT, 0Z4/6X5	262	12-73,74
701.....	Vol.	1K19343...	18	UM154-SS28	M26			23A17190... .005	1	FPT333... Buffer.....	B192 B14	48K11026...	901M	C3	8	6SD7GT, 6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 26V6GT, 0Z4	262	12-72
GAMBLE SKO GMO A1.....	Vol. Tone	36X235... 40X223...	45 34	N UC502	6			44X31... 44X35...	23 23	WE1250... WE4030					8	6J7, 6K7, 6C5, 6H6, 6G5, 6F5, 6F6, 5Y3G, or 6J7G, 6U7G, 6C5G, 6H6, 6G5, 6F5G, 6F6G, 5Y3G	456	
A2.....	Vol. Tone	36X236... 40X224...	75 34	TM228-SS1 O	M26			44X30... 44X11... 45X223... 45X222...	25 25 13 19	RS216... WE1830... BB31... BB15...					11	26K7, 26J7, 26C5, 6H6, 6G5, 26F6, 5Y3G, or 26U7G, 26J7G, 26C5G, 6H6, 6G5, 26F6G, 5Y3G	456	
A3.....	Vol. Tone	36X238... 40X225...	20 65	TM250-SS1 MR55	M26			44X21... 44X36... 45X224...	25 25 †	WE3050... WE4030... BB15...					13	26K7, 6J7, 26C5, 6H6, 6G5, 26L6, 25Y3G, or 26U7G, 25Y3G, 26C5G, 6H6, 6J7G, 26L6G, 25Y3G	456	
A6.....	Vol. Tone	36X238... 40X225...	20 65	TM250-SS1 MR55	M26			44X21... 44X36... 45X224...	25 25 †	WE3050... WE4030... BB15...					13	26K7, 6J7, 26C5, 6H6, 6G5, 26L6, 25Y3G, or 26U7G, 25Y3G, 26C5G, 6H6, 6J7G, 26L6G, 25Y3G	456	
06A.....	Vol.	96001...	97	TRP602				P80968...	12	BB31...					5	32, 231, 19, 30	456	7-3
07A.....	Vol. Tone		15 22	O UC502	6			P80990... P80916...	25 25	RS216... RS213...					7	26D6, 6C6, 27, 42, 80	175	7-4
								8.....	15	BB12... BB10								

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAMBLE-SKOGMO 2-ODM-578	Continued		7/15	DRP315	6T		44X10	4	RS216					10	6K7, 76, 45, 80	456	7-49,50	
	Vol. Tone		65	UC504			41X11	4	WE1830									
5Y	Vol.	P96017	17	P	6		41X18	13	RS213			P2229	286S	C3	5	6D6, 6C6, 75, 41	175	7-1,2
6C1	Vol. Tone	36X234	18	UM147-SS3	M26		P82002	1/15	CM175	B14		19A25	G286S	C16	6	6D6, 6C6, 75, 41, 84	175	8-1,2
6C9	Vol.	40X207	22	UC502			45X210	4	CM172	B14		19A33	294	C3	6	6SK7, 6SA7, 6H6, 6V6G	456	12-1,2
	Vol.		15	UM154		A96	.0075	24	Buffer	B14								
							40	24/15	See Note	B3								
6D	Vol. Tone	36X213	18	N	6		20-20		BB25/BB15	B14								
	Vol. Tone	40X209	44	Z12			.008	12	RS207									
6J Series	Vol. Tone	36X233	56	Order from Mfr.			P41X25	15	BB12			248		C3	6	6D6, 6A7, 85, 43, 6A6	175	10-1,2
	Vol. Tone	40X212	22	O			P45X207	1/15	3S579									
6K	Vol. Tone	36X217	56	Order from Mfr.			45X219		3S579	B14		P19A26	248	C3	6	6K7, 6J7, 6B7, 41, 6A6	175	8-3,6
	Vol. Tone	40X212	22	O			.0055	1	CM175/BB12	B8								
6L	Vol. Tone	36X216	18	UM154-SS3	M26		P45X211	1	CM172	B14		P19A25	294	C3	6	6K7, 6J7, 6B7, 41, 6A6	175	9-1,2
	Vol. Tone	40X207	22	UC502			.005	1	CM172	B14								
6U	Vol. Tone	P96015	18	UC511	6		P45X210	1	CM172			2080	253	C3	6	78, 77, 75, 41, 84	262.5	7-5
	Vol. Tone	P97012	22	UC502			P81028	15	CM172									
							P81021	1	TN111	B14								
7J512, 7J574	Vol. Tone		56	N			.01	23	Buffer									
	Vol. Tone		34	UC502			41X11	23	WE1830									
11B	Vol. Tone	17677	15	N	6		41X10	23	RS216									
	Vol. Tone	17678	130	N			17644	1	WE1650									
							17645	1	RS216									
15C6	Vol.		15	UM163	M26	A96	17672	14	BB31									
							17080	15	BB12			19A32	952W	C3	5	6A8G, 6U7G, 6H6, 6F5G, 6K6G	456	10-3,4
							45X236	24/15	3S578									
							45X239	15	BB12	B14								
20C7, 20C8	Vol. Tone	P96005	45	P	6		.018	2	RS216									
	Vol. Tone	P97003	41	UC504			P81039	12/13	CM175									
22CM576	Vol. Tone	36X210	7/15	DRP315	6T		P81018	25	WE3050									
	Vol. Tone	40X206	22	UC504			P44X21	25	RS216									
							P41X11	25	RS216									
26B5	Vol. Tone	P96014	56	N	6		P41X20	19	Order from Mfr.			P2153	F251	C3	6	6F7, 6D6, 6B7, 12A5, 12Z3	175	7-15,16
	Vol. Tone	P97011	34	UC502			P81016	23	CM172	B14								
26FM552	Vol. Tone	36X212	7/15	Order from Mfr.			.015	3	WE3050									
	Vol. Tone	40X208	34	O			P41X22	13	RS208									
							P45X205	13/1	CM172/BB13									
							P44X26	13	BB42									
26R1	Vol. Tone	36X200	17	UC511	6		E45X206C	4/15	3S579	B14		P19A25	294	C3	6	6D6, 6C6, 75, 41, 84	175	7-23,24
	Vol. Tone	40X207	34	UC502			.0075	1	Buffer									
26S1	Vol. Tone	36X200	17	UC511	6		45X204C	1	2S567			2080	253	C3	6	6D6, 6C6, 75, 41, 84	175	6-3,4
	Vol. Tone	40X201	22	M			45X203C	15	TN111	B14								
							.01	12	CM164									
27C1, 27C5	Vol.	P96012	45	O			P81014	25	RS213									
30A	Vol.	1835	6	SRP263	6	EX200	1258	25	CM164									
							1260	25	RS213									
							8876	15	BB12			2269	245A	C3	6	1C6, 33A, 30, 19	465	7-27,28
31BT	Vol. Tone	2198	45	UM154-SS16			2272	1	CM164	B14								
	Vol. Tone	2282	22	K12	7		.02	1	Buffer									
34BT	Vol. Tone	2260	18	N	7		2272	1	CM164			2269	245A	C3	4	1C6, 34, 1B5, 38	465	7-29,30
	Vol. Tone	2239	57	MR48			8876	15	BB12	B14								
							.02		Buffer									
36L	Vol. Tone	2055	18	N	6													
	Vol. Tone	2162	44	MR29														
42DL670	Vol. Tone	36X221	45	TM250-SS1	M26		30	2	WE3050									
	Vol. Tone	40X214	65	Order from Mfr.			12	2	RS215									
46L1	Vol. Tone	36X216	18	UM154-SS3	M26		45X210	1	CM172	B14		19A25	294	C3	6	6D6, 6C6, 75, 41, 84	175	8-9,11
	Vol. Tone	40X207	22	UC502			.0075		Buffer									
47LL	Vol. Tone	36X215	17	TRP612	6		14	23	RS216									
	Vol. Tone	40X211	34	Order from Mfr.			18	23	WE1835									
47P608	Vol. Tone	36X213	18	N	6		30-12	13/15	2N514									
	Vol. Tone	40X209	44	Z12														
47R, 47RL	Vol. Tone	36X205	56	Order from Mfr.			P44X10	23	RS216									
	Vol. Tone	40X217	34	Order from Mfr.			P44X11	23	WE1830									
51C	Vol. Tone	V405	6	G12	6		8	4	RS213									
	Vol. Tone		22	K12			4	4	ST595									
							25	17	BB15									
70	Vol. Tone		15	O			8-8	1	2N518									
	Vol. Tone		44	UC502			8	13	CS133									
							8	15	BB13									
71C	Vol. Tone	V403A	56	O			8-8	1	2S567									
	Vol. Tone	V409	22	K12	6		12	15	BB12									
72 (8, 8X)	Vol. Tone		15	O			8-8	1	CM172									
	Vol. Tone		22	L														
77, 77A	Vol. Tone	E17299	15	N	7													
85	Vol.		6	G12														
							3366	1	CS131									
							2803	1	CS133									
90, 92D, 92M	Vol.		2/10	DRP241			4	13	BB31									

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAMBLE-SKOGMO	Continued																	
151.....	Vol.	101-238	18	MK401	M26			119-92	24	FPT354	B69				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	
400A, 410B.....	Vol.	E17158	135	UC501				119-93	24	FPT357	B12				1	1C6, 34, 32, 33	456	7-37
401, 402.....	Vol.	24-117	6			See Note A3		18-219	24/15	2N502/TN111					4	6K7, 6F5, 25L6, 25Z6	465	9-5
404.....	Vol.	101-26	97	Order from Mfr.											4	1A6, 32, 33	465	7-38
415.....	Vol.	101-25	29	M4R														
415.....	Vol.	24-153	18	MK401	M26			18-266	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-5
425.....	Vol.		7	G				8	4	RS213					4	58, 57, 47, 80	456	7-40
430.....	Vol.	17381	2	G12				4	4	RS213					3	1A6, 19, 33	456	7-39, 6-9
457 (Regal).....	Vol.		6	G12		See Note A14		17080	19	BB12					4	58, 57, 47, 80	456	7-40
460.....	Vol.	2441	6	H12	6	See Note A14		8-4	4	2S567					4	6A7, 6C6, 42, 80	456	8-23
489.....	Vol.	101-91	18	O	7			1840	4	RS215					4	6A7, 6C6, 42, 80	456	8-23
501.....	Vol.	9611	70	H12		EX250		1841	4	RS216					4	6D8G, 6S7G, 6T7G, 6K6G	465	10-5,6
501.....	Fil.	9684	29					119-22	15	BB12		126-4	246	C3	5	32, 34, 33, 30	465	7-41
504.....	Vol.	101-56	18	MR53	M27			.005	1	2N516		126-4	246	C3	4	6D8G, 6S7G, 6T7G, 1F5G	465	10-7
504.....	Tone	101-72	34	MR44				119-28B	1	2N516					4	6D8G, 6S7G, 6T7G, 1F5G	465	10-7
509, C509.....	Vol.	101-236	18	MK401	M27			119-22	15	BB12					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	12-3,4
510, 511.....	Vol.		17	MR48	M26			.005	15	Buffer	B14				5	6A7, 6D6, 75, 42, 80	456	8-26
516.....	Vol.		134	K12				8, 8	4	CS133					5	32, 34, 30, 19	456	7-41
Z516.....	Vol.	63-235	15	N	6			10	15	BB12					8	58, 56, 57, 59, 80	175	8-27,28
	Tone	63-232	34	N				22-173	23	CS133					5	32, 34, 30, 19	456	7-41
	Sen.	63-234	7	K				22-172	23	CS130					8	58, 56, 57, 59, 80	175	8-27,28
518.....	Vol.	101-196	18	UM154-SS22	M26†			119-92	24	FPT354	B69				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	465	
520.....	Vol.	101-138	7	UM129-SS25	M26			119-93	24	FPT357	B12				4	6A8, 6J7, 25L6G, 25Z6G, 6A	465	12-6
521.....	Vol.	24-104	17	N	6			119-70	1/15	3N534					5	6A7, 6D6, 75, 41, 80	456	9-6
Z521.....	Vol.	63-231	20	TM230-SS1	M26			119-71	15	BB12					5	58, 56, 59, 57, 80	175	7-43
	Tone	63-232	41	N				18-102	1/15	3S579					10	58, 56, 59, 57, 80	175	7-43
	Sen.	63-234	7	K				22-167	28	CS133					5	6A7, 6D6, 75, 41, 80	456	9-6
525.....	Vol.	1601	17	N	6			22-169	15	BB13					5	6A7, 6D6, 75, 41, 80	456	9-6
526.....	Vol.	24-112	6	MR44	M26			C525	11	UR182	B31				5	6D6, 75, 43, 25Z5	456	7-42
527A.....	Vol.		18	†		See Note A5		18-212	24/15	3N532	B31				4	6D6, 6C6, 43, 25Z5, 155C		9-5
527C.....	Vol.	101-141	18	UM154-SS25	M26†			5, 5	23	BB61					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	10-8
Z530.....	Vol.	63-231	20	TM230-SS1	M26			119-47E	23	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	10-9,10
	Tone	63-232	41	N				22-167	28	CS133					12	58, 56, 59, 57, 80	175	7-45,46
	Sen.	63-249	7	†				22-169	15	BB13					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	10-9,10
533, C533.....	Vol.	101-217	18	MK401	M26		A5	119-94	46	FPT357					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	465	12-7
534.....	Vol.	101-198	18	UM161-SS22	M26			119-92	24	FPT354	B69				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	
540.....	Vol.	P101-1	17	N	6			C525C/C525D	11	UR182	B31				5	6D6, 25Z5, 43, 75	456	6-10
540 (Batt.).....	Vol.	17589	131	N	7			17080	19	BB12					4	1C6, 1A4, 1B5, 950	456	
541A.....	Vol.	17589	56	MR48	M27			17080	19	BB12					4	1C7G, 1D5G, 1H6G, 1G5G	456	10-12
546.....	Vol.	101-210	18	UM161-SS22	M27			119-104	24/78	FPT304					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT, 5459	465	
550AC.....	Vol.	1008	17	N	6			P1003	4	RM262					5	2A7, 58, 2A6, 2A5, 80	456	8-29
550 (Batt.).....	Vol.	17403	15	N				17080	19	BB12					5	1A6, 34, 30, 32, 33	456	7-53, 6-11
552.....	Vol.		56	MR48	M26			17080	19	BB12					5	1C7G, 1D5G, 1H6G, 1G5G	456	10-12
O556.....	Vol.	24-150	18	MK402				18-262	76	FPT208					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-5
566.....	Vol.	101-41	18	UM154-SS13	M26			18-263	76/78	2N509					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	465	9-7
571 (A Above Serial 189300).....	Vol.	101-209	18	MK401	M26			119-20	4	2S567	B14	126-1	294	C3	5	6A8, 6K7, 75, 41, 84	465	12-5
575.....	Vol.	P101-10	6	Z12	6	EX100		.01		Buffer	B14				5	6A8, 6K7, 75, 41, 84	465	9-7
577C.....	Vol.	101-110	18	MK402	M26			119-92	24	FPT354	B69				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	465	11-3
577D.....	Vol.	101-110	18	MK402	M26			P119-6	4	2S567					5	58, 57, 2A5, 80	175	6-12
578.....	Vol.	101-110	18	MK402	M26			119-50	24	BB31		1267	294	C3	5	6A7, 6K7, 6Q7, 6K6, 6X5	465	11-5,6
578.....	Vol.	101-110	18	MK402	M26			.005	24/15	FPT339	B14	1267	294	C3	5	6A7, 6K7, 6Q7, 6K6, 6X5	465	11-5,6
578.....	Vol.	101-110	18	MK402	M26			119-105	24/15	Buffer	B14				5	6A7, 6K7, 6Q7, 6K6, 6X5	465	11-5,6
578.....	Vol.	101-35	56	O				P103-6	4	RS213					5	6A7, 6D6, 6137, 42, 80	456	7-47
580.....	Vol.	P101-9	17	N	6			P103-7	4	RS213					5	6A7, 6D6, 6137, 42, 80	456	7-47
585 Series A.....	Vol.	P101-18	18	N	6			P119-15	4	2S567		112-4	294	C3	5	6D6, 6A7, 75, 42, 84	175	7-51,52
585 Series A.....	Vol.	P101-18	18	N	6			.01		Buffer	B14				5	6D6, 6A7, 75, 42, 84	175	7-51,52
585 Series A.....	Vol.	P101-18	18	N	6			P119-11	1/15	CMI75					5	6F7, 6D6, 75, 42, 80	370	7-54-56

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAMBLE-SKOGMO 585 Series B and C.	Continued Vol.	P101-18.	18	N.	6			P103-6.	4	RS213.					5	6F7, 6D6, 75, 42, 80.	370	7-54-56
586A.	Vol.	101-49.	18	O.	6			P103-7.	4	RS213.					5	6A7, 78, 75, 41, 80.	465	7-57,58
587 Ser. A.	Vol.	101-49.	18	O.	6			P103-6.	42	RS213.					5	6A8, 6K7, 6Q7, 6F6, 5Y3.	465	10-11
589 (Ser. A— Issue B).	Vol.	101-71.	18	MR53.	M26			103-7.	23	RS213.					5	6A8, 6K7, 6Q7, 6K6, 5Y3.	465	11-7
C590.	Vol.	101-252.	18	MK402.	M27			119-38.	4	SR633.					5	6A8, 6K7, 6Q7, 6K6, 5Y3.	465	11-7
600.	Vol.	24-104.	18	N.	6			119-123.	24/73	Order from Mfr.					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT.	455	.....
601 (Ser. A, B, C).	Vol.	101-54.	18	O.	6			18-102.	1/15	3S579.					6	6A7, 6D6, 6G5, 75, 41, 80.	456	9-9
602.	Tone Vol.	101-55.	22	MR53.				119-25.	11	RM257.					5	6A7, 78, 75, 43, 25Z5.	465	11-8
602B, 602C.	Vol.	101-77.	18	MR53.	M26			119-39.	1	2N509.					5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B.	465	10-13,14
623.	Vol.	101-77.	18	MR53.	M26			119-42.	4	2P549.					5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B.	470	10-14
623.	Vol. Tone	24-105.	18	MR48.				119-42.	4	2P549.					6	6A7, 6D6, 75, 6G5, 41, 80.	456	9-10
636.	Vol. Tone	26-106.	21	MR48.	M26			18-102.	1/15	3S579.					6	6A7, 6D6, 75, 6G5, 41, 80.	456	9-10
636.	Vol.	101-127.	18	UM161-SS18	M26			119-53E.	1/13	3N534.					6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT.	465	11-14
C640.	Vol.	101-218.	18	MK402.	M26			119-53E.	1/13	3N534.					6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT.	455	12-9,10
645.	Vol.	101-218.	18	MK402.	M26			119-94.	24/13	FPT357.					6	6A7, 6D6, 75, 6G5, 41, 80.	456	9-11
645.	Vol. Tone	24-105.	18	MR48.				18-102.	1/15	3S579.					6	6A7, 6D6, 75, 6G5, 41, 80.	456	9-11
648.	Vol. Tone	26-106.	21	MR48.	M26			18-226.	1	2S568.					6	6A7, 6D6, 75, 76, 6AC5G, 80.	455	9-12
650A, B, C.	Vol. Tone	24-121.	127	MR53.	M26			18-226.	1	2S568.					6	1C6, 1A4, 30, *950.	456	8-30
660.	Vol.	17451.	62	N.	7			17451.	19	BB12.					6	1C6, 1A4, 30, *950.	456	8-30
660.	Vol.	V603.	17	N.	6			C550.	4	CM172.		V660.	220B	C3	6	6D6, 6A7, 75, 89, 6Z4.	175	7-63
665 (Ser. A).	Vol.	101-126.	18	MK402.	M26			119-63B.	4	2S568.					6	6K8G, 6K7, 6Q7G, 6P5G, 6AC5G, 5Y3G.	465	11-5,10
666.	Vol.	101-42.	18	UM133-SS13	M26			119-21.	1	CM172.		126-1.	294	C3	6	6K7, 6A8, 6Q7, 6N6, 6X5.	465	10-15,16
667.	Vol.	101-73.	18	UM147-SS17	M26			.01.	1	Buffer.	B14	126-1.	294	C3	6	6K7, 6A8, 6Q7, 6F6, 6X5.	262.5	10-17
670.	Vol. Tone	101-45.	22	Order from Mfr.				.01.	4	RM262.	B14	142-1.	299	C3	6	6D6, 6C6, 78, 75, 42, 84.	175	6-13
670.	Vol.	P101-9.	17	N.	6			20.	15	BB15.	B14	142-1.	299	C3	6	6D6, 6C6, 75, 42, 84.	175	7-61,62
670A.	Vol.	P101-9.	17	N.	6			.02.	4	Buffer.	B14	142-1.	299	C3	6	6D6, 6C6, 75, 42, 84.	175	7-61,62
670A.	Vol.	P101-9.	17	N.	6			.015.	1	CM172.	B14	142-1.	299	C3	6	6D6, 6C6, 75, 42, 84.	175	7-61,62
C671.	Vol. Tone	101-232.	18	MK402.	M26			119-115.	1	2S569.					6	6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G.	455	12-11,12
675.	Vol.	101-231.	22	MK402.				P103-4.	4	RS216.					6	2A5, 2A6, 27, 57, 58, 80.	370	6-15,16 and 7-59,60
675.	Vol.	P101-11.	18	N.	6			P103-3.	4	WE1835.					6	2A5, 2A6, 27, 57, 58, 80.	370	6-15,16 and 7-59,60
675A.	Vol.	E17916.	18	MR48.	M27			E17080.	19	BB12.					5	1D5G, 1C7G, 1H6G, 1G5G.	456	10-18
677A, B.	Vol.	101-109.	18	TM238-SS18	M26			119-51.	4	2S567.		294	C3	6	6K7, 6A8, 6Q7, 6V6, 6Z4/6X5.	465	10-19,20	
678 (Issue A).	Vol.	101-161.	76	Order from Mfr.				.01.	24/15	Buffer.	B14	1269.	248	C3	6	6K7, 6A8, 6SK7, 6Q7, 6J5, 6N7.	465	11-11,13
678.	Vol. Tone	101-162.	76	UM161-SS18				.0055.	24/15	FPO426.	B14	1269.	248	C3	6	6K7, 6A8, 6SK7, 6Q7, 6J5, 6N7.	465	11-11,13
678C.	Vol. Tone	101-161.	76	Order from Mfr.				.0055.	24/15	FPO426.	B168	1269.	248	C3	6	6K7GT, 6A8GT, 6SK7, 6SQ7, 6J5GT, 6N7G.	465	12-13,14
680, 680B.	Vol.	E17422.	62	N.	7			.0055.	24/15	Buffer.	B14	1269.	248	C3	6	6K7GT, 6A8GT, 6SK7, 6SQ7, 6J5GT, 6N7G.	465	12-13,14
680 Auto.	Vol.	P101-21.	61	N.	6	ECC256		E17355.	12	BB31.					7	1C6, 34, 30, 1B5, 19.	456	6-14
685B.	Vol.	E17916.	18	MR48.	M27			P119-17.	4	CM172.	B14	142-4.	299	C3	6	6D6, 6A7, 6B7, 42, 84.	175	7-64
685B.	Vol.	E17916.	18	MR48.	M27			.01.	4	Buffer.	B14	142-4.	299	C3	6	6D6, 6A7, 6B7, 42, 84.	175	7-64
686 "A" and "B".	Vol. Tone	101-46.	18	O.	6			E17080.	19	BB12.					6	1D5G, 1C7G, 1H6G, 1G5G.	456	10-18
686 "A" and "B".	Vol. Tone	101-53.	22	K12.				P103-6.	42	RS213.					7	6L7, 6K7, 6Q7, 6C5, 6F6, 5Y3, 6G5.	465	7-65,66
690.	Vol. Tone	E17954.	18	MR48.				P103-7.	42	RS213.					6	6A8G, 6K7G, 6Q7G, 6K6G, 5Y3G.	456	10-21
690B.	Vol. Tone	E14047.	22	MR39.				16-16.	15	2S569.					6	6A8G, 6K7G, 6Q7G, 6K6G, 5Y3G.	456	10-21
690B.	Vol. Tone	E14047.	22	MR39.				10.	15	BB12.	B3				6	6A8G, 6K7G, 6Q7G, 6K6G, 5Y3G.	456	10-21
690B.	Vol. Tone	E14047.	22	MR39.				16-16.	1	See Note.	B3				6	6A8G, 6K7G, 6Q7G, 6K6G, 5Y3G.	456	10-21
695.	Vol. Tone	101-215.	18	UM140.		See Note A96		10.	15	BB12.					6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT.	455	.....
695.	Vol. Tone	101-216.	22	MK402.	M26			119-94.	46	FPT357.					6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT.	455	.....
715, 715B.	Vol. Tone	E14048.	18	MR48.				17645.	1	RS216.					7	6A8G, 6K7G, 6Q7G, 6C5G, 6F6G, 5Y3G.	456	10-22
715, 715B.	Vol. Tone	E14045.	22	MR39.				14062.	1	WE1650.					7	6A8G, 6K7G, 6Q7G, 6C5G, 6F6G, 5Y3G.	456	10-22
729.	Vol. Tone	101-224.	18	TM233-SS25				119-108.	1	2S569.					7	6SA7, 6SK7, 6SQ7, 6J5GT, 6K6GT, 5Y3G.	455	.....
729.	Vol. Tone	101-223.	22	MK402.				119-108.	1	2S569.					7	6SA7, 6SK7, 6SQ7, 6J5GT, 6K6GT, 5Y3G.	455	.....
735.	Vol. Tone	24-105.	18	MR48.				18-202.	25	RS215.					7	6A7, 6D6, 76, 6Q7G, 6V6G, 6G5, 80.	456	9-14
740 Serie A.	Vol. Tone	26-106.	21	MR48.	M26			18-201.	25	RS215.					7	6A7, 6D6, 76, 6Q7G, 6V6G, 6G5, 80.	456	9-14
740 Serie A.	Vol. Tone	101-74.	18	O.	6			103-6.	4	RS213.					7	6A8, 6K7, 6Q7, 6C5, 6F6, 5Y3.	465	8-31,32
740 Serie A.	Vol. Tone	101-75.	22	M.				103-14.	4	RS216.					7	6A8, 6K7, 6Q7, 6C5, 6F6, 5Y3.	465	8-31,32

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replace- ment	*Note				
GAMBLE-SKOGMO	Continued																	
750	Vol. Tone	P1025	18	N			8.8	4	WE850						7	258, 2A7, 55, 145, 80	175	7-67
	Tone	P1025	21	N			5	14	BB31									
761A	Vol. Tone	101-104	18	MR53			103-6	1	RS213						7	6A8, 6K7, 6Q7, 6F5, 26F6, 5Y3	465	10-23,24
	Tone	101-105	22	MR44	M26		103-14	1	WE1830									
762	Vol. Tone	36X235	45	N	6		44X31	23	WE1250						8	6J7, 6K7, 6C5, 6H6, 6G5, 6F5, 6F6, 5Y3G, or 6J7G, 6U7G, 6C5G, 6H6, 6G5, 6F5G, 6F6G, 5Y3G	456	8-33,36
	Tone	40X223	34	UC502			44X35	23	WE3035									
765 (Ser. A)	Vol.	101-126	18	MK402	M26		119-63B	4	2S568						7	6K8G, 6K7, 6Q7G, 6P5G, 6AC5G, 5Y3G, 6U5	465	11-9,10
767 (Ser. A)	Vol. Tone	101-144	18	MK402	M26		119-73	1	BB64						7	6K8G, 6K7, 6Q7G, 6J5G, 6K6G, 5Y3G	465	11-15-17
	Tone	101-145	22	MK402			119-74	1	BB62									
770	Vol. Tone	P101-37	56	TM236-SS1	M26		P103-8	43	RS216						7	26K7, 6C6, 6C5, 6B7, 42, 80	465	7-69,70
	Tone	P101-38	21	SRP286	8		P103-4	43	RS216									
774	Vol. Tone	36X236	45	TM228-SS1	M26		44X30	25	RS216						11	26K7, 26J7, 26C5, 6H6, 6G5, 26F6, 5Y3G, or 26U7G, 26J7G, 26C5G, 6H6, 6G5, 26F6G, 5Y3G	456	8-37,40
	Tone	40X224	34	MR53			44X11	25	WE1835									
							45X223	13	BB31									
							45X222	19	BB15									
776	Vol. Tone	36X238	124	TM250-SS1	M26		44X21	25	WE3050						13	26K7/6U7G, 6J7, 6J7G, 26C5/6C5G, 6H6, 26L6/6L6G, 25Y3G, 6G5	456	10-24-28
	Tone	40X225	41	MR55			44X36	25	WE4030									
							45X224	19	BB15									
777C and 777L, Series "A"	Vol. Tone	P101-23	18	O	6		P103-4	4	RS216						7	26D6, 6C6, 76, 75, 42, 80	465	7-71-73
	Tone	P101-24	21	M			P103-3	4	WE1835									
777C and 777L, Series "B"	Vol. Tone	P101-23	56	O	6		P103-8	4	RS216						7	26D6, 6C6, 76, 6B7, 42, 80	465	7-71,72
	Tone	P101-24	57	M			P103-4	4	RS216									
778A	Vol. Tone	101-47	18	TM236-SS1	M26		P103-8	25	RS216						7	26K7, 6J7, 6C5, 6Q7, 6F6, 5Y3	465	7-75,76
	Tone	101-38	21	SRP286	8		P103-6	25	RS216									
780, 780B	Vol.	E17422	15	N	7		E17355	12	BB31						7	1C6, 234, 230, 1H5, 19	456	7-74
787	Vol. Tone	101-46	18	MR53	M26		103-6	23	RS213						7	6L7, 6C5, 6K7, 6Q7, 6G5, 6F6, 5W4	465	8-41,42
	Tone	101-53	22	K12			103-7	23	RS213									
796	Vol. Tone	101-215	18	MK402	M26		119-108	1	2S569						7	6SA7, 6SK7, 6SQ7, 6J5GT, 26K6G, 5Y3G	465	12-15,16
	Tone	101-216	22	MK402														
797	Vol. Tone	101-215	18	MK402	M26		119-110	1/15	FPT310	B3					7	6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G	455	
	Tone	101-216	22	MK402			119-67	13	BB61									
	Mike	101-219	127	MK402														
C800	Vol.	101-233	18	†		A19	119-109	1/13	FPT390						8	26SK7, 6SA7, 6SQ7, 6J5GT, 26F6GT, 5Y3G	455	12-17
802	Vol.		134	UM119-SS25	M26		20-20-30	1/15	FPT306	B3					4	26J7, 25L6G, 25Z6G	456	11-18
802A	Vol.	17451	18	N	7		10	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	456	10-29	
803A, B	Vol.	14399	18	UM154	M27	A96	14403	1	2N518		14417	294	C3	5	6D8G, 6S7G, 6T7G, 6G6G, 6ZY5G	456	10-30	
							17080	15	BB12	B14								
806A	Vol.	14358	18	UM154	M27	See Note	10	19	Buffer					4	1C7G, 1D5G, 1H6G, 1G5G	456	10-29	
807B	Vol. Tone		18	UM154		See Note	15-15-20	1/15	FPT339					7	6A8G, 6K7G, 6J5G, 6U5, 6F5G, 6K6G, 5Y3G	456	10-18	
	Tone		22	L														
810	Vol. Tone	17637	15	N	6		17644	1	WE1650					8	6A8, 6K7, 6C5, 6G5, 241, 80, 6F5	456	8-43	
	Tone	17638	130	UC513	6	A86	17645	1	RS216									
							17080	15	BB12									
810 (1938)	Vol. Tone		17	UC504	6		30-20	12/15	BB14/BB15					7	6A8G, 26U7G, 6V7G, 25A6G, 6J5G, 6N7G	456	10-31,32	
	Tone		41	L														
813B	Vol.	14475	18	†		See Note	10	19	BB12					5	1A7G, 1N5G, 1H5G, 1A5G	456	10-29	
816, 816B	Vol. Tone		17	†		A19	10-20-10	1/15	FPT329	B3				8	26K7G, 6A8G, 6Q7G, 6U5, 26K6G, 5Y3G	456	11-23	
	Tone		22	MR39			30	1	FPS145	B3								
822	Vol. Tone	101-50	56	MR44	M27		103-11	12	ST585					8	1A6, 1A4, 230, 231, 19	465	8-43,44	
	Tone	101-51	21	MR44														
850B	Vol. Tone	17523	15	N			17355	12	BB31					8	21A4, 1C6, 230, 2950	456	8-52	
	Tone	17524	130	UC502	6	A86	17080	19	BB12									
							11	25	RS216									
864	Vol. Tone		20	†		A19	40	25	WE4050					11	26U7G, 26J7G, 6H6, 26J5G, 26F6G, 5Y3G, 6U5	456	11-19,20	
	Tone		22	MR53			50	19	BB17									
867A	Vol. Tone	101-144	18	MK402	M26		119-73	1	BB64					8	6K8G, 6K7, 6Q7G, 6K6G, 6U5, 5Y3G	465	10-33-35	
	Tone	101-145	22	MK402			119-74	1	BB62									
C901	Vol.	101-233	18	†		A19	119-109	1/13	FPT390					9	26SK7, 6SA7, 6SQ7, 6J5GT, 26F6G, 6U5, 5Y3G	455	12-18-20	
902	Vol.		18	MK401	M27		4	12	BB20					5	1A7G, 1N5G, 1H5G, 1C5G	456	11-21,22	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAMBLE-SKOCMO 907	Continued Vol.	24-147	18	↓			A19	18-294	1	FPD227					7	6SA7GT, 6SK7GT, 6SQ7GT, *6P5GT, 6AC5GT, 5W4GT	455	11-24
908	Vol.	24-131	45	↓			A19	18-256	1	FPD234					8	6SA7GT, 6SK7GT, 6SQ7GT, *6P5GT, 6AC5GT, 5W4GT	455	11-24
940, 940A	Vol.		18	UM154			A96	10	19	BB12					4	1B7G, 1P5G, 1H5G, 1Q5G	456	11-25
951, 951A	Vol.		18	UM154			A96	10	19	BB12					5	1B7G, *1P5G, 1H5G, 1Q5G	456	11-25
953	Vol.		18	UM154			A96	10	19	BB12					5	1B7G, *1P5G, 1H5G, 1Q5G	456	11-25
962	Vol.		18/54	Order from Mfr.				16	12	BB24					6	*1P5G, 1B7G, 1H5G, 1Q5G	456	11-26
970B, 970BX	Vol.		45	UM154			A96	10-10-20	1/15	FPT332					7	6A8GT, 6K7GT, 6P5GT, 6Q7GT, 6K6GT, 5Y3G, 6U5	456	11-26
980B, 980BX	Vol. Tone		18	↓			A19	15-15	1	FPD234					8	6A8G, 6K7G, 6Q7G, 6P5G, *6K6G, 5Y3G, 6U5	456	11-26
990	Vol.		18	↓			A19	15-15	1	FPD234					9	*6K7GT, 6A8GT, 6Q7GT, 6P5GT, *6K6G, 5Y3G, 6U5	456	11-26
C1041	Vol. Tone	101-214	18	MK401	M26			119-106	1/13	FPT390					10	*6SK7, 6SA7, 6SQ7, 6P5G, *6F6G, 6U5, 5Y3G	465	12-21, 22
1050	Vol. Tone	P1025	15	N				P1048	26	WE850					10	*58, 2A7, *56, *45, 80	175	7-77
C1100	Vol.	101-234	17	↓	6			P1038	26	WE850					10	*58, 2A7, *56, *45, 80	175	7-77
	Vol.		17	MK401	M26			119-112	46	FPT383					11	*6SK7, 6SA7, *6SQ7, 6J5GT, *6V6GT, 5Y3G, 6U5	455	12-23, 24
1170	Vol. Tone	101-47	20	TM236-SS1	M26			103-10	25	WE3050					11	*6K7, 6J7, 6C5, 6H6, 6F5, *6F6, 5Z4, 6G5	465	8-45-47
C1131	Vol. Tone	101-40	22	SRP287	8			103-8	25	RS216					11	*6SK7, 6SA7, *6SQ7, 6J5GT, 6U5, *6F6G, 5Y3G	455	
	Vol. Tone	101-214	18	MK401	M26			119-124	1/13	FPT383					11	*6SK7, 6SA7, *6SQ7, 6J5GT, 6U5, *6F6G, 5Y3G	455	
	Vol. Tone	101-213	22	MK402											11	*6SK7, 6SA7, *6SQ7, 6J5GT, 6U5, *6F6G, 5Y3G	455	
2056AW	Vol. Tone		6	G12				8, 8	1	RS213					7	57, *58, *56, 47, 80	455	10-36
2078D	Vol.	4242	34	M				8	19	BB13					5	*57, 58, 47, 80	455	7-79-81
2090	Vol.		6	G12	6			4703	1	CM172					9	*58, *57, 56, *46, 80	262	7-82-84
	Vol.		15	M				8-4-8	28	See Note	B3				9	*58, *57, 56, *46, 80	262	7-82-84
	Tone		95	L				4	↓	See Note	B3				10	*58, *56, *46, 80	262	7-85, 86
	Sen.		98	F				4	↓	See Note	B3				10	*58, *56, *46, 80	262	7-85, 86
2092, 2094	Vol.		15	M				8-8-8	28	See Note	B3				10	*58, *56, *46, 80	262	7-85, 86
	Vol. Tone		95	K12				8-8	↓	See Note	B3				10	*58, *56, *46, 80	262	7-85, 86
3128	Vol.	6223	6	Y				4-12-4	11	UR182	B182				5	6F7, 78, 75, 43, 25Z5	455	7-90
3132, 3134, 3140	Vol.		6	F7											5	*32, 34, 33, 30	455	9-15, 16
4912	Vol.		29	M6R											5	6F7, 78, 75, 43, 25Z5	455	7-90
4914	Vol.		18	UM154			A96	20-20-20	22/15	FPT306					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	11-22, 30
4954	Vol. Noise		124	↓			A19	14	23	RS216					11	*6SK7, 6SA7, 6P5G, 6SQ7, 6C8G, *6V6G, 6U5, 5Y3G	456	11-27-29
	Vol. Noise		↓	UM119			A96	40	23	WE4050					11	*6SK7, 6SA7, 6P5G, 6SQ7, 6C8G, *6V6G, 6U5, 5Y3G	456	11-27-29
4956	Vol. Tone		124	↓			A19	40	23	WE4050					8	*6SK7, 6SA7, 6SQ7, 6V6G, 6U5, 5Y3G	456	12-25-28
5953A	Vol.	1004	18	N			A96	20	23	WE2050					6	6A7, 6D6, 75, 76, *48	465	8-49-51
6100	Vol.	9611	6	H12	6	EX250		9925	1	BB61		8701	F221	C3	6	*78, 37, 77, 38, 25Z5	465	9-17
	Vol.		6	H12	6	EX250		9328	15	TN111					6	6A7, 6D6, 75, 76, *48	465	9-17
	Vol.		6	H12	6	EX250		8705	1	BB61					6	6A7, 6D6, 75, 76, *48	465	9-17
6953A	Vol.	1004	18	N	6			.02-.02		Buffer	B14				6	6A7, 6D6, 75, *48, 76	465	7-87, 89
7735, 7742, 7755	Vol.	1289	45	N	7			1291	12	ST585					6	1C6, 34, *30, 32, 19	465	7-91, 92
GAROD Challenger I	Vol.		17	N	6			12-12	1	2N506					5	6A7, 6D6, 75, 25L6, 25Z5	456	8-3
Challenger II	Vol.		17	MR48	M26			5-5	15	TN111					5	6A7, 6D6, 75, 25L6, 25Z5	456	9-1
Challenger III	Vol. Tone		140	1 Meg. No. 1		See Note	A19	12-12	1	2N506					5	6A7, 6D6, 75, 25L6, 25Z5	456	9-1
EM. 2B2, 2B2-1	Vol.		16	N				5-5	15	TN111					6	6A7, 6D6, 75, 25L6, 25Z5, 6F5	456	9-1
2B6, 2B6-1	Vol. Tone		44	MR53	M27			10, 10	15	2N514					6	6A7, 6D6, 75, 25L6, 25Z5, 6F5	456	9-1
2B6, 2B6-1	Vol. Tone		44	MR39	M27			4-4	1	2N518					6	6A7, 6D6, 75, 25L6, 25Z5, 6F5	456	9-1
3B2, 3B2-3	Vol. Tone		44	MR53	M27			20-20	1	UR192	B14		W245	C3	6	1C7G, *1D5G, 1H6G, 1H4G, 1J6G	456	9-2
3B6, 3B6-3	Vol. Tone		41	MR39	M27			.01	1	Buffer	B3				7	1C7G, *1D5G, 1H6G, 1H4G, 1J6G	456	9-2
3B6, 3B6-3	Vol. Tone		41	MR53	M27			20-20	1	UR192	B3		W245	C3	7	*1D5G, 1C7G, 1H6G, 1H4G, 1J6G	456	
BP4	Vol. Tone		44	MR39	M27			.01	1	Buffer	B14				7	*1D5G, 1C7G, 1H6G, 1H4G, 1J6G	456	
	Vol. Tone		18	MR53	M27			4	12	BB20					4	1A7G, 1N5G, 1H5G, 1C5G	456	11-1

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAROD—Continued																		
BP5.....	Vol.		18	MR53.....	M27			80-80-40....	1/12	Order from	Mfr...				5	1A7G, 1N5G, 1H5G, 1C5G, 25Z5.....	456	11-1
BP9, BP10.....	Vol.		18	MR53.....	M27			80-40-10....	46	See Note....	B3				5	1A7GT, 1N5GT, 1H5GT, 1F5GT, 45Z5GT.....	456	11-2
BP11.....	Vol.	8.153.	18	MR53.....	M27			5.362.....	24/78	Order from	Mfr...				5	1R5, 1T4, 1S5, 3Q5, 35Z5.....	455	12-1
BP12, A, B.....	Vol.		18	MR53.....	M27			80-40-20....	24/78	Order from	Mfr...				6	1A7, 1N5, 1H5, 1T5, 35Z5.....	455	12-1
BP15.....	Vol.		18	MR53.....	M27			80-40-200....	24/78	Order from	Mfr...				5	1A7, 1N5, 1H5, 3Q5, 35Z5.....	455	.....
BP36A.....	Vol.	8.145C.	18	MR53.....	M27			5.362.....	24/15	Order from	Mfr...				6	1A7, 1N5, 1H5, 3Q5, 70L7.....	455	12-2
C119.....	Vol. Tone		22	MR53.....	M27		A5	40-25-80....	24/13	Order from	Mfr...				10	6BK7, 6A8, 6J5, 6U5, 6SQ7, 251L6, 25Z6.....	455	12-4
C120.....	Vol. Tone		22	MR53.....	M26			16.....	1	WE1660.....					11	6BK7, 6SA7, 6J5, 6SQ7, 76V6GT.....	455	12-5,6
25.....	Vol. Tone		17	N.....	6			8, 8.....	4	ST595.....					5	6U5, 5Y3G.....	455	12-5,6
26.....	Vol. Tone		45	N.....	6			12, 12.....	4	ST596.....	B12				6	6A7, 6D6, 75, 42, 80.....	456	6-1
27.....	Vol. Tone		64	N.....	6			12, 12.....	4	ST596.....					7	6A8, 6K7, 6I16, 6F5, 6F6, 80.....	456	7-1
31, 31LW.....	Vol. Tone		45	N.....	6			20-12.....	6	2N509.....					6	6A7, 6K7, 6I16, 6F5, 43, 25Z5.....	456	7-3
32, 32LW.....	Vol. Tone		75	N.....	6			25-12-20....	63	TN127.....					7	6A7, 6K7, 6I16, 6F5, 43, 25Z5.....	456	7-4,5
33 and 33LW.....	Vol. Tone		18	N.....	6			20-12-8....	11	TN125.....					6	6A7, 6D6, 75, 43, 76, 25Z5.....	456	6-3
33, 33LW (Rev.).....	Vol. Tone		45	N.....	6			20-12.....	6	2N509.....					6	6A7, 6K7, 6I16, 6F5, 43, 25Z5.....	456	7-3,5
35SW.....	Vol. Tone		7	G.....	6			20-12.....	6	2N509.....					5	6A7, 6D6, 6C6, 43, 12Z3.....	456	7-6
37B, 37D.....	Vol. Tone		18	L.....	6	See Note A19		20-12.....	1	2N509.....	W45	W215	C3		7	1A4, 1C6, 1B5, 30, 1J6G.....	456	10-1
49, 49M.....	Vol. Tone		45	N.....	6			12, 12.....	1	ST596.....	B14				10	6K7, 6A8, 6I16, 6I5, 6C5, 345, 80.....	456	7-7,8
51.....	Vol.		18	MR53.....	M26			60-20.....	24	TN129.....	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5.....	455	12-3
58.....	Vol. Tone		7	D.....	6			8-20-12....	8	1R182.....	B3				8	6A7, 76D6, 25Z5, 43, 85.....	456	6-4
60.....	Vol.		18	N.....	6			20-12.....	6	2N509.....					5	6A7, 6K7, 75, 43, 25Z5, BK10D.....	456	7-2
66.....	Vol. Tone		18	N.....	6			20-12.....	6	2N509.....					6	6A7, 76D6, 75, 43, 25Z5.....	456	6-5
73, 73LW.....	Vol. Tone		45	N.....	6			10-10.....	15	TN111.....					7	6D6, 6A7, 76, 42, 80.....	456	7-13
83 and 83LW.....	Vol. Tone		18	N.....	6			25-12-20....	6/12	UR182.....	B3				8	6A7, 76D6, 25Z5, 43, 85.....	456	6-6
104, 104M.....	Vol. Tone		18	N.....	7			12-25.....	6	2N512.....					11	6K7, 6A7, 85, 6I5, 43, 25Z5.....	456	7-9,10
105.....	Vol. Sen.		7	D.....	6			25.....	41	BR26.....	B3				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5.....	455	12-3
115.....	Vol. Tone		7	D.....	8			20.....	75	BR25.....					10	6A7, 76D6, 85, 43, 25Z5.....	456	8-1,2
125, 135.....	Vol.		18	MR53.....	M26			60-20.....	24	TN129.....	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5.....	455	12-3
150.....	Vol.		18	MR53.....	M26			16-16.....	4	2S569.....					5	6A7, 6D6, 6Q7G, 41, 80.....	456	11-3
159, 205, 205C, 205L, 205-1.....	Vol. Tone		80	1 Meg. No. 1		See Note A19		8-8.....	4	See Note....	B3				5	6A7, 6D6, 6Q7, 41, 80.....	456	10-2
206, 206C, 206L, 206-1, 206P4.....	Vol. Tone		80	1 Meg. No. 1		See Note A19		16, 16.....	4	ST597.....					6	6A7, 6K7, 6Q7, 6U5, 42, 80.....	456	9-3
225A, 225B.....	Vol.		18	MR53.....	M26			60-20.....	24	TN129.....	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5.....	455	12-3
237.....	Vol. Tone		8	D.....	8			8.....	11	BR21.....					7	6A7, 76D6, 85, 43, 25Z5.....	456	9-4
245.....	Vol.		18	MR53.....	M26			60-20.....	24	TN129.....	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5.....	455	12-3
250.....	Vol.		18	MR48.....				9.....	25	ST596.....					5	6A7, 6K7, 75, 42, 80.....	456	9-5
255.....	Vol.		18	MR53.....				60-20.....	24	TN129.....	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5.....	455	12-3
259.....	Vol.	8.139B.	17	MR53.....	M26			16, 16.....	4	ST597.....					5	6K8, 6D6, 6Q7, 42, 80.....	456	10-13,14
265.....	Vol.		18	MR53.....	M26			60-20.....	24	TN129.....	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5.....	455	12-3

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAROD—Continued																		
269	Vol.	8.139B	17	MR53	M26			16, 16	4	ST597					6	6K8, 6D6, 6Q7, 42, 6U5, 80	456 10-13,14	
275, 285	Vol.		18	MR53				60-20	24	TN129	B8				5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455 12-3	
307, 307E, 307L, 307T, 307-1	Vol. Tone		140	1 Meg. No. 1		See Note	A19	16	4	RS216					7	6A8G, 6K7, 6H6, 6F5, 6U5, 6V6, 80	456 9-6	
309 series	Vol. Tone		140	1 Meg. No. 1		See Note	A19	16, 16	4	RS213					9	*6K7, 6A8G, 6H6, 6F5G, 6U5, 6L6G, 80	456 9-7,8	
310	Vol. Tone		18	N	7			25-20-12	75	TN127					10	*6D6, 6A7, 85, 43, 25Z5	456 8-1,2	
311	Vol. Tone		42	D	6	See Note	A5	25-20-12	75	TN127					11	*6K7, 6A7, 6H6, 6C5, 43, 25Z5	456 8-4	
337	Vol. Tone		42	L	M27			25-20-12	75						11	*6K7, 6A7, 6H6, 6C5, 43, 25Z5	456 8-4	
369	Vol. Tone		44	L	6			8	11	BB21					7	6A7, *6D6, 85, 43, 25Z5	456 9-4	
370, 371 series	Vol. Tone		17	UM161	M26			12	11	BB25					6	6K8, 6D6, 6Q7, 42, 6U5, 80	456 10-12	
379	Vol. Tone	8.139B	17	MR53	M26			16, 16	4	ST597					7	*6D6, 6K8, 6Q7, 42, 6U5, 80	456 8-5	
380, 381 series	Vol. Tone	8.140B	22	MR53				10	15	BB12					7	6A8G, 6K7G, 6H6G, 6F5G, 6G5, 6L6G, 5Y3, or 6A8, 6K7, 6H6, 6F5, 6G5	456 10-15,16	
389	Vol. Tone		20	L			A19	16, 16	4	RS216					8	*6K7, 6A8, 6H6, 6F5, 6G5, 6L6, 5Y3, or *6K7G, 6A8G, 6H6G, 6F5G, 6G5, 6L6G, 5Y3	456 8-6,7	
399	Vol. Tone		80	MR53				16-16	4	2S569					9	*6D6, 6K8, 6Q7, 6V6, 80, 6AF6G	456 11-4	
453	Vol. Tone	8.147	18	MR53	M26			5.358	1	2N514					5	*6D6, 6K8, 6Q7, 6V6, 80, 6AF6G	456 11-5, 12-13,14	
493	Vol. Tone		22	MR39				40	13	BB27					5	12A8, 12K7, 12SQ7, 50L6, 35Z5	455 11-6	
511A, 511G, 511P	Vol. Tone		124	MR53	M26			10	15	BB12					9	*6D6, 6K8G, 6Q7, 76, 25L6G, 25Z5, 6U5	456 11-7	
514	Vol. Tone		75	N	7			12, 12, 12	3	RS215					12	*6K7, 6A8, 6H6, 6E5, *6C5, 45, 5Z3	456 7-11,12	
514M	Vol. Tone		44	UC503	6			20-12	1	2N509					11	*6K7, 6A7, 6H6, *6C5, 43, 25Z5	456 7-15,16	
520 Twenty Grand	Vol. Tone	8-113	75	N	7			20-12	1	2N509					15	*6K7, 6A7, 6H6, *6C5, 6H5, 43, 25Z5	456 7-17,18	
602, 602C, 602L, 602-1	Vol. Tone	8-116	80	L	6			8, 8	40	RS213					20	*6K7, 6A8, *6H6, *6C5, 6E5, 45, 5Z3	456 7-19,20	
610	Vol.		80	1 Meg. No. 1		See Note	A19	20-12	1	2N509					5	6A7, 6K7, 6Q7G, 25L6G, 25Z5	456 9-9,10	
620	Vol.		80	MR53				10	15	BB12					5	6A7, 6D6, 6Q7, 25L6, 25Z5, 1A9BJG	456 11-3	
629	Vol.		18	MR53	M26			16	1	BB24					5	6A7, 6K7, 75, 43, 25Z5	456 8-8	
703E, 703EC, 703EL	Vol. Tone		140	1 Meg. No. 1	M26		A19	16-16	1	2N506					5	6K8, 6D6, 6Q7, 25L6, 25Z5	456 10-17	
729	Vol.		18	MR53	M26			5	15	BB12					6	6A7, 6K7, 6Q7G, 25L6G, 25Z5, 6U5	456 9-10	
731	Vol. Tone		18	MR48	M26			10, 10	15	BB12					6	6K8, 6D6, 6Q7, 25L6, 25Z5, 6U5	456 10-17	
739	Vol. Tone	8.139B	17	L	M26			16-16	1	2N506					6	6A7, 6K7, 75, 43, 25Z5, 6G5	456 8-9	
762	Vol. Tone	8.140	22	UM161		See Note	A96	5.339	1	2N514					6	6K8, 6D6, 6Q7, 25L6, 6U5, 25Z5, 1A9DJG	456 10-18	
782, 782-1	Vol. Tone		140	1 Meg. No. 1		See Note	A19	10, 10	15	TN111					6	6A7, 6H6, 76, 6F5, 25L6G, 25Z5	456 9-13	
803L, 803T, 803-1	Vol. Tone		80	MR53		See Note	A19	10, 10	15	BB12					6	6A7, 6D6, 6Q7G, 25L6, 25Z5	456 9-11,12	
	Vol. Tone		80	1 Meg. No. 1		See Note	A19	10, 10	6	2N514					7	6A8G, 6K7, 6Q7G, 6U5, 25L6, *25Z6	456 10-19	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAROD—Continued 830, 830C, 830D, 830KC, 831, 831C, 831D, 831KC....	Vol. Tone		20 22	↓ L			A19	20-12 10, 10	6 15	2N509 BB12				7	6A8, 6K7, 6I16, 6F5, 6G5, 25A6, 25Z6, or 6A8G, 6K7G, 6I16G, 6F5G, 6G5, 25A6G, 25Z6	456	8-10	
830A, 831A.....	Vol. Tone		80 80	↓ MR53			A19	40-25 10, 10	6 15	2N514 BB12				7	6A8, 6K7, 6Q7, 6G5, 25L6, 25Z6, or 6A8G, 6K7G, 6Q7G, 6G5, 25L6, 25Z6	456	8-11	
839.....	Vol. Tone	8.140	17 22	UM161 UM161	M26		A96	5.339 10-10	1 15	2N514 TN111				7	6I16, 6K8, 6Q7, 6U5, 25L6, 25Z6	456	10-20	
903 series.....	Vol. Tone		80 80	1 Meg. No. 1 MR53		See Note	A96 A19	80 25	75 75	TN129 RS207	B8			9	6K7, 6A8G, 6I16G, 6Q7G, 6G5, 25L6, 25Z6G	456	9-15,16	
930, 931 series.....	Vol. Tone		17 44	D L			A19	40 30-20 12	75 75	BB26/BB25 BB22				9	6K7, 6A8, 6I17, 6G5, 25A6, 25Z6, or 6K7G, 6A8G, 6I17G, 6G5, 25A6G, 25Z6G	456	8-12-14	
930A.....	Vol. Tone		80 80	↓ MR53			A19	60-25-40	75	Order from Mfr.				9	6A7, 6A8, 6B8, 6Q7, 6G5, 25L6, 25Z6, or 6K7G, 6A8G, 6B8, 6Q7G, 6G5, 25L6G, 25Z6	456	8-14	
939.....	Vol. Tone		124 22	MR53 MR53	M26			40-80-25 10	1/13 15	See Note BB12	B3			9	6I16, 6K8G, 6Q7, 76, 25L6G, 25Z5, 6U5	456	11-8	
1039.....	Vol. Tone		37 37	1 Meg. MR53			A19	80-40-25	75	See Note	B3			10	6K7, 6K8, 6A8, 6I18, 6Z7G, 25L6, 25Z5, 6U5	456	11-9	
1049.....	Vol. Tone		37 37			See Note	A19	80-40-25	75	See Note	B3			10	6K7, 6K8, 6A8, 6I18, 6Z7G, 25L6, 25Z5, 6U5	456	11-9	
1203-1204 series....	Vol. Tone		80 80	1 Meg. No. 1 MR53		See Note	A19	40-25 80	75 75	2N514 TN129	B8			12	6K7, 6A8G, 6I18G, 6Q7G, 6U5, 25L6, 25Z6G	456	9-17,18	
1239.....	Vol. Tone		37 37			See Note	A19	40-25 16 10-10 10	6 13 15 15	2N514 BB24 TN111 BB12				13	6K8, 6I16, 6Q7, 6C8G, 25L6, 25Z5, 6U5	456	11-10	
1240, 1240E, 1240LC.....	Vol. Sen.		17 7	↓ D	6		A19	30-20 12 10	75 75 15	BB26/BB25 BB22 BB12				12	6K7G, 6A8G, 6I16G, 6C5G, 6G5, 25A6G, 25Z6G, or 6K7, 6A8, 6I16, 6C5, 6G5, 25A6, 25Z6	456	8-15,16	
1240A.....	Vol. Tone Sen.		80 80 7	↓ MR53 D	6		A19	60-25-40 10	75 15	Order from Mfr. BB12				12	6K7, 6A8, 6B8, 6Q7, 6G5, 25L6, 25Z6, or 6K7G, 6A8G, 6I18G, 6Q7, 6G5, 25L6, 25Z6G	456	8-17	
1540.....	Vol.		75			See Note	A19	20-20 16-16 8 10 80 10-10	3 3/13 13 15 75 15	See Note See Note BB61 BB12 TN129 TN111	B3 B3			15	6K7, 6A8G, 6K8, 6C5, 6I16, 6AF6G, 6V6G, 380	456	11-11	
1603, 1604.....	Vol. Tone Sen.		140 140 7	TM243-SS1 MR53 D	M27 M26 6			80 10-10	75 15	TN129 TN111	B8			16	6K7, 6A8G, 6I16, 6U5, 6F5, 6J5G, 25L6, 25Z6G	456	9-19,20	
1649.....	Vol.		15	↓		See Note	A19	40-25 32 80	8 8 8	2N514 BB26 TN129	B8			16	6K7, 6K8, 6A8G, 6I16, 6C5, 25L6, 25Z6, 6AF6G	456	10-21,22	
1650, 1650H and 1650LC.....	Vol. Tone		20 ↓	TM243-SS1 K12	M27 6			20-12-10-10 30 8-8	75/15 75 13	RM259/TN111 RS207 2N516	B266 B266			16	6K7, 6L7, 6I16, 6G5, 6C5, 25A6, 25Z6, or 6K7G, 6L7G, 6I16G, 6G5, 6C5G, 25A6G, 25Z6	456	8-18,19	
1650A.....	Vol. Tone		17 ↓	1 Meg. No. 1 MR53	M26	See Note	A19	25-40-10-10 60 8-8	75/15 75 13	Order from Mfr. TN127 2N516	B8			16	6K7, 6L7, 6Q7, 6G5, 6C5, 25L6, 25Z6, or 6K7G, 6L7G, 6Q7G, 6G5, 6C5G, 25L6, 25Z6	456	8-20	
1739.....	Vol. Tone		17 22	MR53 MR53				20-16 10-10 .04	1 15	2N509 TN111 Buffer		V5208	246	C3	7	6K7, 6K8, 6S7G, 6T7G, 6S5G, 6Z7G, 6G5	456	11-12
3011.....	Vol. Tone		124 22	MR53	M27		A5	40-25-80 10, 10	24/13 15	Order from Mfr. BB12				10	6SK7, 6A8, 6J5, 6U5, 6S7G, 25L6, 25Z6	455	12-4	
3012 series.....	Vol. Tone Sen.		140 140 7	TM243-SS1 MR53 D	M27 6			16, 16	25	WE1650				12	6K7, 6A8G, 6I16, 6U5, 6J5G, 6V6G, 80	456	9-21,22	
3016.....	Vol. Tone Sen.		140 140 7	1 Meg. No. 1 MR53 E	M26 6	See Note	A19	16, 16, 16 16	54 13	WE1650 RS216				16	6K7, 6A8G, 6I16, 6U5, 6J5G, 6V6G, 380	456	9-23,24	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GAROD—Continued																		
3109	Vol. Tone		124 21	↓			A19 A5	5.338 10	1 15	WE1650 BB12				10	6D6, 6A8G, 6K8C, 6Q7, 76, 2A1, 80, 6U5	456	11-13	
3119	Vol. Tone		17 80	TM240-SS1 MR53	M26			16, 16 8	25 13	WE1650 RS213				11	6K8, 6D6, 6Q7, 476, 6V6, 6U5, 80	456	10-23	
3790	Vol. Tone	8.139B 8.140	17 22	MR53 MR53	M26			16, 16 10	4 15	ST597 BB12				7	6D6, 6K8, 6Q7, 42, 6U5, 80	456	10-15	
4011	Vol. Tone		124 22	MR53 MR53	M27 M26			16 16	1 15	WE1660 WE1650				11	6SK7, 6SA7, 6J5, 6SQ7, 6V6GT, 6U5, 5Y3†	455	12-5,6	
4012 aeries	Vol. Tone Sen.		140 140 7	TM243-SS1 MR53 D	M27 6			16, 16 16	25 13	WE1650 RS216				12	6K7, 6A8C, 6H6, 6U5, 6J5G, 6V6G, 80	456	9-21,22	
4016	Vol. Tone Sen.		140 140 7	1 Meg. No. 1 MR53 MR14	M26 M26		See Note A19	16, 16, 16 16	54 13	WE1650 RS216				16	6K7, 6A8G, 6H16, 6U5, 6J5G, 6V6G, 80	456	9-23,24	
4110	Vol. Sen.		20 7	TM243-SS1 D	M27 6			16 16	1 15	RS216 WE1650				11	6K7, 6L7, 6H6, 6F5, 6G5, 6C5, 4A5, 5Y3	456	9-25,26	
4123	Vol. Tone	8.145 8.144	140 140	↓ MR53			A19	5.339 5.340 5.341 10	6 13 12 15	2N514 BB24 TN129 BB12		B8		12	6SK7, 6K8, 6B8, 6Z7, 6U5, 25L6, 6A8, 25Z5	455	12-7,8, 12,13	
4124	Vol. Tone		140 140	1 Meg. ↓			A19 A5	40-25-80 16	6/12 13	Order from Mfr. BB24				12	6SK7, 6K8, 6SQ7, 25L6, 25Z5, 6U5	455	12-9,10, 12,13	
4159	Vol.		15	↓			See Note A19	16, 16 16	25 13	ST397 BB64				15	6K7, 6K8, 6A8, 6H6, 6AF6G, 6C5, 6V6, 80	456	10-25,26	
4410	Vol. Tone		15 22	MR53 MR53	M27 M26			5-343 5-338 10	1 15	WE1660 WE1660 BB12				10	6SK7, 6K8, 76, 6U5, 80, 6V6, 6J5	455	12-11-13	
4990	Vol. Tone		80 80	↓ MR53			A19	16-16	4	2S569				9	6D6, 6K8, 6Q7, 6AF6G, 6A8G, 6F6, 80	456	11-5	
5140	Vol. Tone		20 ↓	TM243-SS1 K12	M27 6			16, 16, 16 16 8-8	3 13 13	WE1650 RS216 2N516				14	6K7, 6L7, 6H6, 6G5, 6C5, 6L6, 5Z3, or 6K7C, 6L7G, 6H6G, 6G5, 6C5G, 6L6G, 5Z3	456	9-27,28	
5240	Vol. Bass		↓ 15	MR53 MR53	M27 M26			5-5 16 9, 9 16, 16 8-8-8 10	1 1 13 13 15	RS215 WE1650 ST585 RS216 3S584 BB12				24	6K7, 6L7, 6C5, 6J7, 6H6, 6G5, 6L6, 6X5, 5X4	456	8-21-24	
7390	Vol. Tone		17 22	MR53 MR53	M26			5.339 10-10	1 15	2N514 TN111				6	6K8, 6D6, 6Q7, 6U5, 25L6, 25Z5	456	10-24	
GENERAL ELECTRIC																		
A52	Vol.	RV008	18	N	6			RC409 RC403 RC511	1 1 15	RS216 RS213 TN111				5	6A8, 6K7, 6Q7, 6F6, 5Z4	465	7-1,3	
A53	Vol.	RV005	8	A5MP	6	2		RC402 RC403 RC511	1 1 8	RS213 RS213 TN111				5	5Z4, 6A8, 6F6, 6J7, 6K7	465	6-4	
A54	Vol.	RV007	18	N	6			RC524 RC516	8 8/15	RM259 2N504	B108 B108			5	6A8, 6K7, 6Q7, 25A6, 25Z6	465	7-5,6	
A55	Vol.	RV008	18	N	6			RC409 RC403 RC511	1 1 15	RS216 RS213 TN111				5	6A8, 6K7, 6Q7, 6F6, 5Z4	465	7-1,3	
A60—See RCA—Victor M-32 A63	Vol.	RV001	62	M	6			RC409 RC403 RC501	1 1 13 15	RS216 RS213 2N518		B109		6	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	6-9-13	
A64	Vol. Tone	RV006 RT704	19 34	TRP603 G12	6			RC404 RC407 RC501	1 1 13/15	SH644 RS216 2N518		B109		6	6A8, 6K7, 6H6, 6J7, 6F6, 5Z4	465	6-14	
A65	Vol.	RV001	62	M	6			RC502 RC503 RC409	13/14 15 1	2N518 BB12 RS216		B109		6	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	6-9,10	
A67	Vol. Tone	RV006 RT704	19 34	TRP603 G12	6			RC501 RC404 RC407 RC501	13/15 1 1 13/15	2N518 SH644 RS216 2N518		B109		6	6A8, 6K7, 6H6, 6J7, 6F6, 5Z4	465	6-14	
A70	Vol. Tone	RV002 RT701	19 34	TRP603 L	6			RC501 RC404 RC407 RC502 RC503	15 1 1 13/14 15	BB12 SH644 RS216 2N518 TN111		B109		7	5Z4, 6A8, 6C5, 6F6, 6H6, 6K7	465	6-19,23	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC A75	IC—Con Vol. Tone	RV002 RT701	19 34	TRP603 L	6			RC404 RC407 RC502 RC503	1 1 13/14 15	SR644 RS216 2N518 TN111					7	5Z4, 6A8, 6C5, 6F6, 6116, 6K7	165	6-19,23
A81—See RCA—Vic A82	tor P31 Vol. Tone Sen.	RV003 RT701 RS800	34/62 34 7	DRP311 L C	6			RC405 RC408 RC502 RC504 RC406 RC415 RC525 RC526	1 1 13/14 15 1 1 13/15 15	RS215 RS216 2N518 BB12 WE1650 RS216 3S579 BB15					8	6K7, 6A8, 6116, 6C5, 6F6, 5Z4	465	6-24-30
A83, A85	Vol. Tone	RV009 RT705	15 34	TRP613 N	6			RC406 RC415 RC525 RC526	1 1 13/15 15	WE1650 RS216 3S579 BB15					8	6K7, 6A8, 6116, 6F5, 6F6, 5Z4	465	7-21,24
A87	Vol. Tone Sen.	RV003 RT701 RS800	34/62 34 7	DRP311 L C	6			RC405 RC408 RC502 RC504 RC406 RC412 RC509	1 1 13/14 15 1 1 13/15	RS215 RS216 2N518 BB12 WE1650 WE3050 BB31/TN111					8	6K7, 6A8, 6116, 6C5, 6F6, 5Z4	465	6-24,30
A125	Vol. B.Tone T.Tone Sen.	RV004 RT702 RT703 RS801	7 7 22 7	DRP318 M C	6			RC406 RC412 RC509 RC518 RC510 RC411 RC515 RC512 RC520	1 1 13/15 13 19 46/13 46 19 13/15	WE1650 WE3050 BB31/TN111 BB31 BB13 WE3050 RS216 BB19					12	6K7, 6L7, 6C5, 6116, 6F5, 6F6, 5Z4	465	7-33,39
A205	Vol. Trebble Bass Sen. Meter	RV010 RT706 RT702 RS802 RT707	2, 45/21 7 21 7 7	Order from MR39 MR44 A20MP MR14	Mfr. M26			RC411 RC515 RC512 RC520	46/13 46 19 13/15	WE3050 RS216 BB19					20	6K7, 6116, 6C5, 6F6, 6L7, 5Z4	465	9-55 to 60,9-69 to 74
A205E	Vol. and Tone Bass Vol. Sen.	RV026 RT709 RV024 RR192	15/21 7 15 7	Order from MR39 MR48 A20MP	Mfr.			RC411 RC406 RC515 RC512 RC504 RC520	46/13 13 46 19 15 13/15	WE3050 WE1650 RS216 BB19 BB12					19	6K7, 6L7, 6C5, 6116, 6B8, 6F6, 6L6, 5Z4	465	9-75 to 80
A208	Vol. Trebble Bass Sen. Meter	RV011 RT709 RT708 RS803 RT707	2/45/21 7 21 7 7	Order from MR39 MR44 A20MP MR14	Mfr. M26			RC411 RC515 RC512 RC520	46/13 46 19 13/15	WE3050 RS216 BB19					20	6K7, 6116, 6C5, 6F6, 6L7, 5Z4	465	9-61 to 74
A208E	Vol. and Tone Bass Vol. Sen.	RV027 RT709 RV025 RR192	15/21 7 15 7	Order from MR39 MR48 A20MP	Mfr.			RC411 RC406 RC515 RC512 RC504 RC520	46/13 13 46 19 15 13/15	WE3050 WE1650 RS216 BB19 BB12					19	6K7, 6L7, 6C5, 6116, 6B8, 6F6, 6L6, 5Z4	465	9-75 to 80
E50	Vol.	RV019	7	E	6	2		RC564	1	2N518					5	6A8, 6K7, 6C5, 6F6, 5W4	465	8-4,6
E51	Vol.	RV018	18	MR48	M26			RC566 RC565	8 8/15	2N504 2N512					5	6A8, 6K7, 6Q7, 25A6, 25Z6	465	8-9,11
E52	Vol.	RV019	7	E	6	2		RC564	1	2N518					5	6A8, 6K7, 6C5, 6F6, 5W4	465	8-4,6
E61, E62	Vol.	RV013	15	TM248-SS1	M26			RC413 RC403 RC567	4 4 4	RS216 RS213 SR634			B20		6	6A8, 6K7, 6116, 6F5, 6F6, 5W4	465	7-9,12
E68	Vol.	RV013	15	TM248-SS1	M26			RC413 RC403 RC567	4 4 4	RS216 RS213 SR634			B20		6	6A8, 6K7, 6116, 6F5, 6F6, 5W4	465	7-9,12
E71, E72, E76	Vol.	RV014	15	TRP613	6			RC413 RC412 RC413	1 1 1	RS216 WE3050 RS216					7	6A8, 6K7, 6116, 6F5, 6F6, 5W4	465	7-13,16
E79	Vol.	RV014	20	TRP613	6			RC412 RC414 RC415	1 1 1	WE3050 RS216 RS216					7	6A8, 6K7, 6116, 6F5, 6F6, 5W4	465	8-41,46
E81	Vol. Tone	RV015 RT710	15 22	TM254-SS1 SRP285	M26 6			RC414 RC415 RC563	1 1 13/14	RS216 RS216 2N518					8	6K7, 6A8, 6116, 6F5, 6L6, 5Z4	465	7-17,20
E86	Vol. Tone	RV015 RT710	15 22	TM254-SS1 SRP285	M26 6			RC414 RC415 RC563	1 1 13/14	RS216 RS216 2N518					8	6K7, 6A8, 6116, 6F5, 6L6, 5Z4	465	7-17,20
E91	Vol. Tone	RV015 RT710	15 22	TM254-SS1 SRP285	M26 6			RC414 RC415 RC562	1 1 13/14	RS216 RS216 CM175					9	6K7, 6A8, 6116, 6F5, 6C5, 6L6, 5Z4	465	7-25,28
E95	Vol. Tone	RV015 RT710	15 22	TM254-SS1 SRP285	M26 6			RC414 RC415 RC562	1 1 13/14	RS216 RS216 CM175					9	6K7, 6A8, 6116, 6F5, 6C5, 6L6, 5Z4	465	7-25,28
E101	Vol. Tone	RV015 RT710	15 22	TM254-SS1 SRP285	M26 6			RC414 RC425 RC424 RC423 RC561	1 1 13 13 13/15	RS216 WE3050 RS207 RS207 BB40/TN111					10	6K7, 6A8, 6J7, 6116, 6F5, 6C5, 6L6, 5Z4	465	7-29,32
E105, E106	Vol. Tone	RV015 RT710	15 22	TM254-SS1 SRP285	M26 6			RC414 RC425 RC424 RC423 RC561	1 1 13 13 13/15	RS216 WE3050 RS207 RS207 BB40/TN111					10	6K7, 6A8, 6J7, 6116, 6F5, 6C5, 6L6, 5Z4	465	7-29,32

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC E115	Vol. Control	RV020	15	TM249-SS1				RC405	1	RS215					11	6K7, 6A8, 6H6, 6C5, 6F6, 25W4	465	8-57,60
E126	Vol. Tone	RV016, RT711	20, 41	DTM291-SS1, SRP286	M26 6			RC368	1/15	2S563/BB12	B6				12	6K7, 6L7, 6J7, 6H6, 6C5, 6F6, 5Z4	465	8-61,70
E129	Vol. Tone	RV016, RT711	20, 41	DTM291-SS1, SRP286	M26 6			RC411	1	WE3050					12	6J7, 6K7, 6L7, 6H6, 6C5, 6F6, 5Z4	465	8-71,81
E155	Vol. Tone	RV017, RT712	20, 22	Order from SRP284	Mfr. 6		A98	RC406	3	WE1650					15	6K7, 6L7, 6J7, 6H6, 6C5, 6F6, 6L6, 5Z4	465	8-83,92
F40	Vol.	RV036	6	F7	6	4		RC411	3	WE3050					1	6A7, 6B7, 41, 80	455	9-1,2
F51	Vol.	RV039	18	MR55	M26			RC409	3	RS216					5	6A7, 6D6, 75, 41, 80	455	9-7,8
F53	Vol.	RV019	7	E	6	2		RC553	13/15	BB19/2N518					5	6A8, 6K7, 6C5, 6F6, 5W1	465	8-21,22
F63	Vol.	RV028	20	TM245-SS1	M26			RC554	13/14	3S584					6	6A8, 6K7, 6H6, 6F5, 41, 80	465	8-27,28
F65, F66	Vol.	RV028	20	TM245-SS1	M26			RC501	15	BB12					6	6A8, 6K7, 6H6, 6F5, 41, 80	465	8-27,28
F70	Vol.	RV029	20	TM245-SS1				RC585	1	3S584					7	6A8, 6K7, 6H6, 6F5, 42, 80	465	8-29,31
F74	Vol.	RV028	20	TM245-SS1	M26			RC587	4	SR634					7	6A8, 6H6, 6K7, 6F5, 41, 80, 6U5	465	9-15,17
F75	Vol.	RV029	20	TM245-SS1				RC575	1/15	SR641					7	6A8, 6K7, 6H6, 6F5, 42, 80	465	8-29,31
F77	Vol.	RV028	20	TM245-SS1	M26			RC589	1/14/15	SR641					7	6A8, 6H6, 6K7, 6F5, 41, 80, 6U5	465	9-15,17
F80	Vol.	RV029	20	TM245-SS1				RC575	1/14/15	SR641					8	6A8, 6K7, 6H6, 6F5, 42, 80, 6U5	465	9-18,20
F81	Vol.	RV030	20	TM245-SS1				RC569	1/14/15	SR641					8	6A8, 6K7, 6H6, 6F5, 42, 80	465	8-51,55
F85	Vol.	RV029	20	TM245-SS1				RC575	1/14/15	SR641					8	6A8, 6K7, 6H6, 6F5, 42, 80, 6U5	465	9-18,20
F86	Vol.	RV030	20	TM245-SS1				RC569	1/14/15	SR641					8	6A8, 6K7, 6H6, 6F5, 42, 80	465	8-51,55
F88	Vol.	RV029	20	TM245-SS1				RC575	1/14/15	SR641					8	6A8, 6K7, 6H6, 6F5, 42, 6U5, 80	465	9-21,25
F96	Vol.	RV035	20	DTM293-SS1				RC427	1	WE1650					9	6K7, 6A8, 6J5G, 6H6, 6F5, 42, 80	465	9-26,31
F107	Vol.	RV033	20	DTM293-SS1				RC428	1	WE3050					10	6K7, 6A8, 6J5G, 6H6, 6L6G, 5Z4	465	9-40,46
F135	Vol.	RV033	20	DTM293-SS1				RC427	14/15	Order from Mfr.					10	6K7, 6A8, 6J5G, 6H6, 6L6G, 5Z4	465	9-40,46
FA60	Vol.	RV022	15	UM162-SS12				RC429	14/15	Order from Mfr.					13	6K7, 6L7, 6J5G, 6H6G, 6L6G, 5Z3	465	9-49,56
FA61	Vol.	RV022	15	UM162-SS12				RC570	30/15	Order from Mfr.					6	6K7, 6A8, 6H6, 6F5, 6F6	175	8-23,26
FA80	Vol.	RV022	15	UM162-SS12				RC570	1/15	3S579	B14	RV200	248	C3	6	6K7, 6A8, 6H6, 6F5, 6F6	175	8-23,26
FB52, FB53, FB56, FB57	Vol.	RV023	17	MR55				RC571	1/15	3S579/BB42	B14	RV200	248	C3	8	6K7, 6A8, 6C5, 6H6, 6R7, 6N7	175	8-47,50
FB72, FB73, FB76, FB77	Vol.	RV023	17	MR55				RC572	13	TN120		RV201	W246	C3	5	1C7G, 2D5G, 1F7G, BB34	465	8-17,20
FD62	Vol.	RV037	17	TM249-SS1	M26			RC573	1	BB34					7	1C7G, 2D5G, 1F7G, 1H4G, 1J6G, 1E5G	465	8-37,40
FD100	Vol.	RV023	17	MR55				RC586	40	2S558					5	6A8, 6K7, 6Q7, 43, 25Z5, B149C	465	9-13,14
FD105	Vol.	RV023	17	MR55				K12J33-303	24	FPT309					8	1C7G, 2D5G, 1F7G, 25Z6G, 1F5G	465	
FD625	Vol.	RV037	17	TM249-SS1	M26			RC572	13	TN120					5	6A8, 6K7, 6Q7, 43, 25Z5, B149C	465	9-13,14
FE62	Vol.	RV031	20	TRP613				RC576	1/14/15	Order from Mfr.					6	6A7, 6K7, 6H6, 6F5, 42, 80	455	12-19,20

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replace- ment	*Note				
GENERAL ELECTRIC FE63	IC—Con- Vol.	RV028	20	TM245-SS1	M26			RC589	1/14/15	SR641					6	6A8, 6K7, 6116, 6F5, 41, 80	465	
FE67, FE68	Vol.	RV031	20	TRP613				RC576	1/14/15	Order from Mfr.					6	6A7, 6K7, 6116, 6F5, 42, 80	455	12-19,20
FE82	Vol.	RV030	20	TM245-SS1				RC427	1	WE1650					8	6K7, 6A8, 6116, 6F5, 42, 80	455	12-32
FE87	Vol.	RV030	20	TM245-SS1				RC427	1	WE1650					8	6K7, 6A8, 6116, 6F5, 42, 80	455	12-32
FE112	Vol.	RV034	20	TM248-SS1				RC583	1/14/15	3S579/BB64	B141				11	6K7, 6L7, 6J5G, 6116, 6F5, 6L6G, 6U5, 5Z3	455	12-57,58
FE116	Vol.	RV034	20	TM248-SS1				RC429	1	WE3050					11	6K7, 6L7, 6J5G, 6116, 6F5, 6L6G, 6U5, 5Z3	455	12-57,58
FE119	Vol.	RV034	20	TM248-SS1				RC429	1	WE3050					11	6K7, 6L7, 6J5G, 6116, 6F5, 6L6G, 6U5, 5Z3	455	12-57,58
G50	Vol.	RV038	18	MR55	M26			RC581	14/15	3S579/BB14	B144				5	6A7, 6D6, 75, 41, 80, 6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	455	9-3,4
G53	Vol.	RV040	20	TM246-SS1	M26			RC587	4	2S563					5	6A7, 6D6, 75, 41, 80, 6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	9-3,4
G55	Vol.	RV038	18	MR55	M26			RC587	4	2S563					5	6A7, 6D6, 75, 41, 80, 6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	9-3,4
G56	Vol.	RV040	20	TM246-SS1	M26			RC593	1	2N518					5	6A7, 6D6, 75, 41, 80, 6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	9-3,4
G57	Vol.	RV038	18	MR55	M26			12-8	4	2S563					5	6A7, 6D6, 75, 41, 80, 6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	9-3,4
G61	Vol.	RV041	17	TM259-SS1				RC594	1/13	3S584					6	6A8G, 6K7, 75, 76, 6AC5G, 5Y3G	455	10-5-8
G64	Vol.	RV040	124	TM246-SS1	M26			RC593	1	2N518					6	6A8G, 6K7, 6116, 6F5, 6K6G, 5Y3G	455	10-15,16
G66	Vol.	RV041	17	TM259-SS1				RC594	1/13	3S584					6	6A8G, 6K7, 75, 76, 6AC5G, 5Y3G	455	10-5-10
G68	Vol.	RV041	17	TM259-SS1				RC594	1/13	3S584					6	6A8G, 6K7, 75, 76, 6AC5G, 5Y3G	455	10-6-10
G69	Vol.	RV041	17	TM259-SS1				RC594	1/13	3S584					6	6A8G, 6K7, 75, 76, 6AC5G, 5Y3G	455	10-5-11
G75	Vol.	RV040	17	TM246-SS1	M26			RC593	1	2N518					7	6A8G, 6K7, 6116, 6F5, 6K6G, 5Y3G, 6U5	455	10-17,18
G76	Vol.	RV041	17	TM259-SS1				8-8-12	1/13	See Note	B3				7	6A8G, 6K7, 75, 76, 6AC5G, 6U5, 5Y3G	455	10-21
G78	Vol.	RV041	17	TM259-SS1				RC594	1/13	3S584					7	6A8G, 6K7, 6116, 6SF5, 76, 6AC5G, 5Y3G	455	10-19,20
G85	Vol.	RV051	17	TM259-SS1				12-8-8	1/13	2N518/BB63					8	6A8G, 6K7, 6Q7G, 76, 6AC5G, 6U5, 5Y3G	455	10-22-24
G86	Vol.	RV041	17	TM259-SS1				RC594	1/13	3S584					8	6A8G, 6K7, 6116, 6SF5, 76, 6AC5G, 6U5, 5Y3G	455	10-25,26
G95	Vol.	RV045	17	TM251-SS1				RC429	25	WE3050					9	6K7, 6A8, 6116, 6F5, 6J5G, 6V6G, 5U4G	455	10-27-30
G97	Vol.	RV035	20	DTM293-SS1				RC596	14/15	BB62/BB15					9	6K7, 6A8G, 6J5G, 6116, 6F5, 42, 5Y3G	465	9-47,48
G99	Vol.	RV051	17	TM259-SS1				RC247	1	WE1650					9	6K7, 6A8G, 6J5G, 6116, 6F5, 42, 5Y3G	465	9-47,48
G105, G106	Vol.	RV042	17	TM251-SS1				RC248	1	WE3050					9	6A8G, 6K7, 6116, 6F5, 76, 6AC5G, 6U5, 5Y3G	455	10-31,32
G105, G106	Vol.	RV042	17	TM251-SS1				RC591	14/15	See Note	B3				9	6A8G, 6K7, 6116, 6F5, 76, 6AC5G, 6U5, 5Y3G	455	10-31,32
G105, G106	Vol.	RV042	17	TM251-SS1				RC591	46	3S584					9	6A8G, 6K7, 6116, 6F5, 76, 6AC5G, 6U5, 5Y3G	455	10-31,32
G105, G106	Vol.	RV042	17	TM251-SS1				RC429	25	WE3050					10	6K7, 6A8G, 6116, 6F5, 6J5G, 6V6G, 6U5, 5U4G	455	9-32,39
G105, G106	Vol.	RV042	17	TM251-SS1				RC596	14/15	BB62/BB15					10	6K7, 6A8G, 6116, 6F5, 6J5G, 6V6G, 6U5, 5U4G	455	9-32,39
G655	Vol.	RV040	124	TM246-SS1	M26			RC597	1	SR647					6	6A8G, 6K7, 6116, 6F5, 6K6G, 5Y3G	455	10-15,16
GA62	Vol.	RV063S	18	TM227-SS1	M26			RC593	1	2N518					6	6A8G, 6K7, 6116, 6F5, 6K6G, 5Y3G	455	10-15,16
GA62	Vol.	RV063S	18	TM227-SS1	M26			RC5127S	74	ST595		RV202S	854	C3	6	6K7, 6A8, 6Q7, 6K6G, 6X5G	465	10-12
GB400	Vol.	RV059W	18	MR53				RC5118	12	Buffer	B14				4	1A7G, 1N5G, 1H5G, 1C5G	455	
GD41, GD41U	Vol.	RV043W	7	MR29	M26	EX300		RC598W	1	TN125					4	6D6, 6C6, 25L6G, 25Z5, L55F		9-6
GD44A, GD44B, GD41AU, GD41BU	Vol.	RV046W	7	MR28	M26			RC598W	1/15	TN125					4	6D6, 6C6, 25L6G, 25Z5, L55F		10-2
GD44A, GD44B, GD41AU, GD41BU	Vol.	RV047W	50	MR39				RC598W	1/15	TN125					4	6D6, 6C6, 25L6G, 25Z5, L55F		10-2
GD51	Phono. Vol.	RV053	6	MR18				RC5113	4/13	FPD208					4	6A8G, 6C6, 25L6G, 25Z6G, BL5518	455	10-11
GD51	Phono. Vol.	RV053	6	MR18				RC5114	1	BB24					4	6A8G, 6C6, 25L6G, 25Z6G, BL5518	455	10-11
GD51	Phono. Vol.	RV053	6	MR18				RC5115	4	BB27	B12				4	6A8G, 6C6, 25L6G, 25Z6G, BL5518	455	10-11
GD52	Vol.	RV050	20	TM249-SS1	M26			RC599	4	2P549					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z5, 49A	455	10-3
GD52A	Vol.	RV044	18	MR55	M26			RC5106	4	2P553	B12				5	6A8G, 6K7, 6Q7G, 25L6G, 25Z5, 49A	455	10-4
GD52A	Vol.	RV044	18	MR55	M26			RC599	4	2P549					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z5, 49A	455	10-4
GD60	Vol.		20	TM249-SS1	M26			RC599	1	2P549					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z5, 49A	455	10-3
GD60	Vol.		20	TM249-SS1	M26			RC5106	4	2P553	B12				5	6A8G, 6K7, 6Q7G, 25L6G, 25Z5, 49A	455	10-3

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC GD62, GD67	IC—Control Vol.	RV038	18	MR55	M26			RC596	10	2S558					5	6A7, 6D6, 75, 25L6G, 25Z6G, BL49B	465	10-13
GD63	Vol.	RV050	18	TM249-SS1	M26			RC5119 RC5114	24/15 24	FPT306 BB24		B12		4	6A8G, 6K7, 6Q7G, 25L6G, 25Z5, 49A	455	10-14	
GD400	Vol.		18	MR53				8	12	BB21				4	1A7G, 1N5G, 115G, 1C5G	455	10-37	
GD500	Vol.	RV056	6	MR24	M26	EX300		RC5120	24	FPD211				5	6K7GT, 6F5GT, 6J5GT, 25L6GT, 25Z6GT	455	10-38	
GD520, GD521	Vol.	RV060R	18	MR48	M26		A58	RC5125R	24	2N509				5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	10-39	
GD600, GD630	Vol.	RV053	6	MR18	M26			RC5121 RC5115	4 4	2P552 BB27		B12		5	6A8G, 6SK7, 6SF5, 25L6G, 25Z6G, BL49B	455	10-41,42	
GD610, GD620	Vol.	RV057	18	MR55				RC5121 RC5115	4 4	2P552 BB27		B12		5	6A8G, 6SK7, 6SQ7, 25L6G, 25Z6G, BL49B	455	10-40	
GE52	Vol.		18	MR55	M26			12-8-4	4/13	2S563 BB60				5	6A7, 6D6, 75, 41, 80	455	12-13,14	
GE53	Vol.		124	TM246-SS1	M26			8-8-4	1/13	3S584				5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	455	12-15,16	
GE54	Vol.		18	MR55	M26			12-8-4	4/13	2S563/BB60				5	6A8G, 6K7, 75, 6K6G, 5Y3G	455	12-17	
GE93, GE96	Vol.		17				A19	30	1	WE3050				9	6K7, 6L7, 6J5G, 6116, 6F5, 6L6G, 6U5, 5U4G	455	12-45,46	
GM11 H73, H77, H78, H79	Vol.		63	MR48	M26			20-4-4-25	1/13/15	Order from Mfr.				7	12A7	455	10-1	
H87	Vol.	RV069	124	TM251-SS1				RC5130	1	FPQ416				7	6SA7, 6SK7, 6116, 6SF5, 6J5G, 6Y6G, 5Y3G	455	11-1-5	
H91, H91R	Vol. Tone	7074	8	K				See Note A16	4	CS133				10	6SA7, 6SQ7, 6Y6G, 6J5G, 3Y3G, 6SK7 24, 27, 35, 37, 80	455	11-7-10	
H116, H118	Vol.	RV069	124	TM251-SS1				See Note A16	1	FPQ416				11	6SA7, 6SK7, 6116, 6SF5, 6J5G, 6U5, 6Y6G, 3Y3G	455	11-11,18	
H400	Vol.	RV056	6	MR24	M26	EX300		RC5137	24	2N514				4	12B7, 12F5GT, 50L6GT, 25Z5GT	455	10-45	
H406U	Vol.	RV084W	8	MR28	M26			RC5151W	24	2N506				4	12SK7GT, 12SF5GT, 50L6GT, 45Z5GT	455	11-24	
H500, 501, 510, 511, 520, 521 (W and X)	Vol.	RV070	124	MR55	M26			RC5135	24/15	FPT311				5	12A8GT, 12SK7, 12SQ7, 35L6GT, 25Z5GT	455	10-47,48	
H502	Vol.	RV080	18	MR48	M26			K12J33-306	24/15	FPT311				5	12SA7GT, 12B7, 12Q7GT, 35L6GT, 35Z5GT	455	11-53,54	
H503	Vol.	RV081	18	MR48	M26			K12J33-306	24/15	FPT311				5	12SA7GT, 12B7, 12Q7GT, 35L6GT, 35Z5GT	455	11-53,54	
H500U (W and X)	Vol. Vol.	RV086 RV070	18 17	MR48 MR55	M26 M26			RC5135	24/15	FPT311				5	12SA7GT/12A8GT, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	11-49,50	
H508	Vol.	RV079	18	MR48	M26			RC135	24/15	FPT311				5	12SA7GT, 12B7, 12Q7GT, 35L6GT, 35Z5GT	455	11-46	
H510U (W and X)	Vol. Vol.	RV086 RV070	18 17	MR48 MR55	M26 M26			RC5135	24/15	FPT311				5	12SA7GT/12A8GT, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	11-50-51	
H520U (W and X)	Vol. Vol.	RV086 RV070	18 17	MR48 MR55	M26 M26			RC5135	24/15	FPT311				5	12A7GT/12A8GT, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	10-47,48	
H530, 531, 532	Vol.	RV082	18	MR48	M26			K12J33-306	24/15	FPT311				5	12SA7GT, 12B7, 12Q7GT, 35L6GT, 35Z5GT	455	11-53,54	
H600, H601	Vol.	RV072	124	MR55	M26			RC5136	24	FPD214				6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT, BL42B	455	10-46	
H600U (W and X)	Vol.	RV087	18	MR48	M26			RC5136	24	FPD214				6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT	455	11-50,60	
H610, H611	Vol.	RV072	124	MR55	M26			RC5136	24	FPD214				6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT, BL42B	455	10-46	
H610U (W and X)	Vol.	RV087	18	MR48	M26			RC5136	24	FPD214				6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT	455	11-57,58	
H620, H621	Vol.	RV072	124	MR55	M26			RC5136	24	FPD214				6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT, BL42B	455	10-49	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC H620U (W and X)	IC—Continued Vol.	RV087	18	MR48	M26			RC5136	24	FPD214					6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT	455	11-59,60
H622, H623	Vol.	RV072	127	MR55	M26			RC5136	24	FPD214					6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT	455	11-65
H625	Vol.	RV072	124	MR55	M26			RC5136	24	FPD214					6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT, BL42B	455	10-50 11-67-70
H630, H631, H632, H633	Vol.	RV072	124	MR55	M26			RC5136	24	FPD214					6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT, BL42B	455	10-49
H630U, H632U (W and X)	Vol.	RV087	127	MR48	M26			RC5136	24	FPD214					6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT	455	11-59,60
H634, H638, H640	Vol.	RV067	124	TM250-SS1				RC5134	24/13/ 15	FPQ410					6	6SA7, 6SK7, 6SQ7, 6J5G, 25L6G, 25Z6G, BL42D	455	11-71-74
H639 (AC-DC)	Vol.	RV078	18	MR48	M26			RC5145	24	FPD214		RV203	Order from Mfr.		6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	11-80
H708	Vol.	RV088	18	TM230-SS1	M26			40-20-20 K12J33-113	10/13 10	FPT363 FPS129A					7	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25C6G, 25Z6GT	455	11-75,76
H736	Vol.	RV088	18	TM230-SS1	M26			40-20-20 K12J33-113	10/13 10	FPT363 FPS129A					7	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25C6G, 25Z6GT	455	10-75,76
HB402, HB403	Vol.	RV066	18	MR53	M27			RC5131	12	BB21					4	1A7G, 1N5G, 1H5G, 1Q5G	455	12-42
HB408	Vol.		18	MR53	M27			8	12	BB21					4	1A7G, 1N5G, 1H5G, 1Q5G	455	12-56
HB412	Vol.	RV066	18	MR53	M27			RC5156 RC5157	24 78	2N514 1C2501					4	1A7GT, 3ABGT, 1T5GT, 117L7GT	455	11-47,48
HB504	Vol.		18	MR53	M27			50-20-100	24/78	FPT309					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z4GT	455	11-55,56
HB505	Vol.		18	MR53	M27			50-20-100	24/78	FPT309					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z4GT	455	11-55,56
HE50	Vol.		124	TM251-SS1	M26			20-40-20-20	24/13/ 15	FPQ416					5	6SA7, 6SK7, 6SQ7, 6Y6G, 5Y3G	455	12-3-6
HE64L	Vol.		124	TM251-SS1	M26			20-40-20-20	46/15	FPQ416					6	6SA7, 6SK7, 6SQ7, 6Y6G, 6U5, 5Y3G	455	12-2-6
HE74	Vol.		17	2 Meg			A19	40-20-20-20	46/15	FPQ416					7	6SK7, 6K8, 6H6, 6Y6G, 6U5, 5Y3G	455	12-39,40
HE100, HE100H	Vol.		15	2 Meg			A19	K12J33-407 40	46/13/15 46	FPQ424 WE4050					10	6SK7, 6K8, 6H6, 6J5G, 6SF5, 6V6G, 6U5, 5U4G	455	12-46, 47-49
HE100L, HE100LH	Vol.		15	2 Meg			A19	K12J33-407 40	46/13/15 46	FPQ424 WE4050					10	6SK7, 6K8, 6H6, 6J5G, 6SF5, 6V6G, 6U5, 5U4G	455	12-46, 47,49
HE105	Vol.		15	2 Meg			A19	K12J33-407 40	46/13/15 46	FPQ424 WE4050					10	6SK7, 6K8, 6H6, 6J5G, 6SF5, 6V6G, 6U5, 5U4G	455	12-46, 48,49
HE105L	Vol.		15	2 Meg			A19	K12J33-407 40	46/13/15 46	FPQ424 WE4050					10	6SK7, 6K8, 6H6, 6J5G, 6SF5, 6V6G, 6U5, 5U4G	455	12-46,48
HE540	Vol.		124	TM251-SS1	M27			40-50-20-20	24/13/15	FPQ412					5	6SA7, 6SK7, 6SQ7, 25C6G, 25Z6G	455	12-66
HE640L	Vol.		124	TM251-SS1	M27			40-50-20-20	46/15	FPQ412					6	Ballast 6SA7, 6SK7, 6SQ7, 6U5, 25C6G, 25Z6G, 2Ballast	455	12-62
HJ119	Vol.	RV069	124	TM251-SS1				RC5130	46/15	FPQ416					11	6SA7, 6SK7, 6H6, 6SF5, 6J5G, 6U5, 6Y6G, 5Y3G	455	11-11-13
HJ514	Vol.	RV091	18	MR48	M26			RC5159	24	FPD221					5	12SA7GT, 12SK7GT/ 12SQ7, 50L6GT, 35Z5GT	455	11-52
HJ612	Vol.	RV092	18	MR48	M26			RC5136	24	FPD214					6	6SA7, 6SA7GT, 6SK7GT, 6Q7GT/ 6Q7G/6Q7, 6J5GT/ 6J5G, 25L6GT, 25Z6GT/25Z6G	455	11-61
HJ618 (AC)	Vol.	RV078	18	MR48	M26			RC5145	24	FPD214		RV203	Order from Mfr.		6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	11-62-64
HJ619	Vol.	RV078	18	MR48	M26			RC5145	24	FPD214		RV203	Order from Mfr.		6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC HJ624	IC—Continued Vol.	RV078	18	MR48	M26			RC5145	24	FPD214		RV203	Order from Mfr.	6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	11-66	
HJ628	Vol.	RV078	18	MR48	M26			RC5145	24	FPD214				6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	11-66	
HJ737	Vol.	RV088	18	TM230-SS1	M26			40-20-20 K12J33-113	10/13 10	FPT363 FPS129A				7	6SA7GT, 6SK7GT, 25L6GT, 25Z6GT	455	11-75,76	
HJ905	Vol.	RV067	127	TM250-SS1				RC5161 RC5160	10/15 10	FPQ416 FPS122				9	12SA7, 12SK7, 12J5GT, 12SF5/ 12SF5GT, 25C6G, 6AB5/6N5, 125Z6GT/125Z6G	455	11-77-79	
HJ908, HJ908B	Vol.	RV067	127	TM250-SS1				RC5161 RC5160	10/15 10	FPQ416 FPS122				9	12SA7, 12SK7, 12J5GT, 12SF5/ 12SF5GT, 25C6G, 6AB5/6N5, 125Z6GT/125Z6G	455	11-77-79	
HJ1005	Vol.	RV069	124	TM251-SS1				40-20-20-20	46/15	FPQ416				10	6SA7, 6SK7/6SK7GT, 6H6, 6SF5/6SF5GT, 6J5G/6J5GT/6J5, 6Y6G, 6Y3G, 6U5	455	11-81,82	
HJ1205	Vol.	RV069	124	TM251-SS1				RC5130	46/15	FPQ416				12	6SA7, 6SK7/6SK7GT, 6H6, 6SF5/6SF5GT, 6J5G/6J5GT, 6Y6G, 6U5, 6Y3G	455	11-83-86 11-79	
HM21 HM80, HM85A	Vol.	RV067	‡	TM250-SS1				RC5150 RC5148	24 46/15	FPD208 FPQ416				2 8	6A8G, 84, 6K8, 6SK7, 6SJ7, 6H6, 6SF5, 6Y6G, 5Y3G	2.1 mc. 455 kc.	12-41 11-19-22	
HM136, HM136A	Vol.	RV075	‡	‡		See Note A19		RC5141	46/15	FPQ429				13	6SK7, 6K8, 6U5, 6SJ7, 6SQ7, 6H6, 6J5G, 6L6G, 6Y3G	2.1 mc. 455 kc.	11-19-22	
HP558, HP559, HP560, HP561	Vol.		18	MR48	M26			30-20	24	2N514				5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-67	
HP657A	Vol.		75 22	MR48 MR48	M26			30-30	24	2N514				6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	12-73	
J51, J53, J54, J54W	Vol.	RV097	18	MR48	M26			RC5163	24	FPD214				5	12SA7/12SA7GT, 12B7, 12SQ7GT, 50L6GT, 35Z5GT	455	12-7.8	
J62	Vol.	RV099	18	TM230-SS1	M26			RC5160 RC5166	10 10	FPS129 FPD221				6	6SA7, 6SK7, 6SQ7, 6J5, 6J5G, 25L6G, 25Z6/25Z6GT	455	12-21,22	
J63	Vol. Tone	RV099	18	TM230-SS1	M26			RC5160	10	FPS129				6	6SA7, 6SK7, 6SQ7, 6J5, 25L6G, 25Z6	455	12-24	
J64	Vol.	RV098	124	TM249-SS1				RC5164	24/13	FPT362				6	6SA7, 6SK7, 6SQ7, 6J5GT, 6Y6G, 5Y3G	455	12-25-27	
J65	Vol.	RV078	18	MR48	M26			RC5145	24	FPD214				6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	11-66	
J71	Vol.	RV098	124	TM249-SS1				RC5164	24/13	FPT362				7	6SK7, 6SA7, 6SQ7, 6J5GT/6J5G, 6Y6G, 5Y3G	455	12-28-30	
J105	Vol.	RV098	124	TM249-SS1				RC5169	24/13	FPT383				10	6SK7, 6SA7, 6J5G/ 6J5GT, 6Y6G, 5Y3G	455	12-52-55	
J501, J501W, J502, J502W	Vol.	RV103W	18	MR48	M26			RC5170W	24	2N509				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-59	
J501, W, J502, W (RCVR Ser. No. 10,000 to 50,000)	Vol.	RV108	18	MR48	M26			RC5174	24	2N514				5	12SA7, 12SK7/12B7, 12SQ7, 50L6GT, 35Z5GT	455	12-60	
J512	Vol.	RV086	18	MR48	M26			RC5176	24	TN129		B8		5	12SA7GT, 12B7, 50L6GT, 35Z5GT, 12SQ7GT	455	.....
J602, J603	Vol.	RV120	18	MR48	M26			RC5183	24	2N515				6	12B7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-68	
J614	Vol.	RV120	18	MR48	M26			RC5183	24	2N515				6	12B7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-69	
J620	Vol.	RV099	18	TM230-SS1	M26			RC5160 RC5166	10 10	FPS129 FPD221				6	6SA7, 6SK7, 6SQ7, 6J5/6J5G, 25L6G, 25Z6/25Z6GT	455	12-21,22	
J629	Vol.	RV078	18	MR48	M26			RC5145	24	FPD214				6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	12-70	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC J644, J644W.....	IC—Control Vol.	RV112	18	MR48	M26			RC5178	24	FDP214	B211				6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT	455	12-72
J654, J654W.....	Vol.	RV112	18	MR48	M26			RC5178	24	FDP214	B211				6	6SA7, 6SK7, 6SQ7, 6J5GT, 25L6GT, 25Z6GT	455	12-72
J664.....	Vol.	RV120	18	MR48	M26			RC5183	24	2N515				6	12B7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-69	
J678.....	Vol.	RV119	18	MR48	M26			RC5145	24	FDP214				6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455	12-74	
J709.....	Vol.	RV088	18	TM230-SS1	M26			40-20-20 K12J33-113	10/13 10	FPT363 FPT129A				7	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25C6G, 25Z6GT	455	12-75	
J718.....	Vol.	RV098	124	TM249-SS1				RC5132	24/13/15	FPQ412				7	6SK7, 6SA7, 6SQ7, 6J5GT/6J5G, 6Y6G, 5Y3G	455	12-76-78	
J728.....	Vol.		124	TM249-SS1				RC5132	24/13/15	FPQ412				7	6SK7, 6SA7, 6SQ7, 6J5GT/6J5G, 6Y6G, 5Y3G	455	12-76-78	
J805.....	Vol.	RV098	124	TM249-SS1				RC5165	24/13	FPT383				8	6SK7, 6SA7, 6SQ7, 6J5GT/6J5G, 6Y6G, 5Y3G	455	12-79-81	
J808.....	Vol. Phono.	RV098 RV102	124 63	TM249-SS1 TM249-SS1				RC5168	24/13/15					8	6SK7, 6SA7, 6SQ7, 6J5GT/6J5G, 6Y6G, 5Y3G	455	12-82-86	
J809.....	Vol.	RV098	124	TM249-SS1				RC5168	24/13/15	FPQ429				8	6SK7, 6SA7, 6SQ7, 6J5GT/6J5G, 6Y6G, 5Y3G	455	12-82-86	
J818.....	Vol. Phono.	RV098 RV102	124 63	TM249-SS1 TM249-SS1				RC5168	24/13/15	FPQ429				8	6SK7, 6SA7, 6SQ7, 6J5GT/6J5G, 6Y6G, 5Y3G	455	12-82-86	
J828.....	Vol. Phono.	RV098 RV102	124 63	TM249-SS1 TM249-SS1				RC5168	24/13/15	FPQ429				8	6SK7, 6SA7, 6SQ7, 6J5GT/6J5G, 6Y6G, 5Y3G	455	12-82-86	
J1106.....	Vol.	RV098	124	TM249-SS1				RC5165	24/13	FPT383				11	6SK7, 6SA7, 6J5GT, 6SQ7, 6K6GT, 5Y3G	455	12-89-90	
J1108.....	Vol.	RV098	124	TM249-SS1				RC5165	24/13	FPT383				11	6SK7, 6SA7, 6J5GT, 6SQ7, 6K6GT, 5Y3G	455	12-89-90	
JA64.....	Vol.	RV063S	18	TM227-SS1	M26			RC5127S	74	ST595		RV202S	854	C3	6	6K7, 6A8, 6Q7, 6K6G, 6X5G	465	
JB72.....	Vol. Tone		140 140					30-10	1	FPT390	B14 B8	3698	245A	C3	7	6S7, 6K8, 6T7G, 6G6G, 6Z7G, 6AB5	455	12-33-35
JB372.....	Vol. Tone		140 140					30-10	1	FPT390	B14 B8	3698	245A	C3	7	6S7, 6K8, 6T7G, 6G6G, 6Z7G, 6AB5	455	12-33-35
JB508.....	Vol.	RV100W	18	UM161	M27		A96	RC5167W RC5143W	76 76	2N514 Buffer	B14			5	1A7GT, 1N5GT, 1I5GT, 1T5GT, 35Z4GT	455	12-30	
JB513.....	Vol.	RV100W	18	UM161	M27		A96	RC5167W RC5143W	76 76	2N514 IIC2501				5	1A7GT, 1N5GT, 1I5GT, 1T5GT, 35Z4GT	455	12-63	
JB514.....	Vol.	RV100W	18	UM161	M27		A96	RC5167W RC5143W	76 76	2N514 IIC2501				5	1A7GT, 1N5GT, 1I5GT, 1T5GT, 117Z6GT	455	12-63	
JB523.....	Vol.	RV100W	18	MR53	M27			RC5167W RC5143W	76 76	2N514 IIC2501				5	1A7GT, 1N5GT, 1I5GT, 1T5GT, 35Z4GT	455	12-63	
JB524.....	Vol.	RV111W	18	MR53	M27			RC5167W RC5143W	76 76	2N514 IIC2501				5	1A7GT, 1N5GT, 1I5GT, 1T5GT, 117Z6GT	455	12-63	
JB630.....	Vol.	RV100W	18	MR53	M27			RC5173W RC5177W	76 76	See Note BB15	B3			6	1A7GT, 1N5GT, 1I5GT, 3Q5GT, 35Z4GT	455	12-64,71	
JB631.....	Vol.	RV111W	18	MR53	M27			RC5167W RC5143W	76 76	2N514 IIC2501				6	1A7GT, 1N5GT, 1I5GT, 3Q5GT, 117Z6GT	455	12-64,71	
JE51.....	Vol.		124	TM251-SS1	M27			40-50-20-20	24/13/15	FPQ412				5	6SA7, 6SK7, 6SQ7, 25C6G, 25Z6G	455	12-9-12	
JE61.....	Vol.		124	TM251-SS1	M27			40-50-20-20	24/13/15	FPQ412				6	6SA7, 6SK7, 6SQ7, 25C6G, 25Z6G, 6U5	455	12-9-12	
JE61L.....	Vol.		124	TM251-SS1	M27			40-50-20-20	24/13/15	FPQ412				6	6SA7, 6SK7, 6SQ7, 25C6G, 6U5, 25Z6G	455	12-18	
JE81.....	Vol.		20	2 Meg.			A19	40-50-20-20	24/13/15	FPQ429				8	6SK7, 6J5G, 6V6G, 6SQ7, 5U4G, 6K8, 6U5	455	12-43, 44,51	
JE101.....	Vol.		20	TM249-SS1				40-20-5-40 8	24/13/15 13	FPQ429 BB31				10	6SK7, 6J5G, 6V6G, 6SF5, 5U4G, 6K8, 6U5	455	12-16, 50,51	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL ELECTRIC JE107.....	IC—Continued Vol.		20	TM249-SS1				40-20-5-40-8	24/13/15 13	FPQ429 BB31					10	6SK7, 6J5G, 6V6G, 6SF5, 5U4G, 6K8, 6U5	455	12-16, 50,51
JE510.....	Vol.		124	TM251-SS1	M27			40-50-20-20	24/13/15	FPQ412					5	6SA7, 6SK7, 6SQ7, 25C6G, 25Z6G	455	12-9-12
JE530, JE531, JE531X.....	Vol.		18	MR48	M26			40-20	24	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-65
JE810.....	Vol.		20	2 Meg.		A19		40-50-20-20	24/13/15	FPQ412				8	6SK7, 6K8, 6J5G, 6SQ7, 25C6G, 6U5, 25Z6G	455	12-88	
JM23 L500.....	Vol.	RV108	18	MR48	M26			RC5150 RC5174	24 24	FPD208 2N514				2 5	6A8G, 84 12SA7, 12SQ7, 12B7/ 12SK7, 50L6GT, 35Z5GT	455	12-1	
L510.....	Vol.	RV108	18	MR48	M26			RC5174	24	2N514				5	12SA7, 12B7/12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-61	
L550.....	Vol.	RV108	18	MR48	M26			RC5174	24	2N514				5	12SA7, 12B7/12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-61	
L560.....	Vol.	RV108	18	MR48	M26			RC5174	24	2N514				5	12SA7, 12B7/12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-61	
L678.....	Vol.	RV119	18	MR48	M26			RC5145	24	FPD214				6	6SA7GT, 6SK7GT, 6Q7GT, 6J5GT, 25L6GT, 25Z6GT	455		
LB530.....	Vol.	RV125	55	MR48				RC5189 .006	24/78	Order from Mfr. Buffer, B14	RV204	Order from Mfr.		5	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455		
N60.....	Vol. Tone	RV770 RT750	17 34	UM163-SS3 MR42	M26			RC779 .0075	4/15	CM175 Buffer, B14	RV750	294	C3	6	6F6, 6J7, 6K7, 6Q7, 6X5	175	7-7,8	
U50.....	Vol.		45	MR53				1	12	BB31				5	1A6, 3A, 30, 32, 1F4	175	8-7,8	
U51, U55.....	Vol.	RBV001	18	MR53	M26			RBC502 .01	46	TN127 Buffer, B14	RBV200	246	C3	5	1C6, 3A, 1B5, 1F4	456	8-12,16	
U70, U75.....	Vol. Tone	RBV002 RBT700	45 1	O UC502	7			RBC504 RBC503	1 1/13	RS207 RM259		Order from Mfr.		7	3A, 1C6, 30, 19	456	8-32,36	
For all other General Electric Models see the Cross Reference below.																		

CROSS REFERENCE OF GENERAL ELECTRIC—RCA VICTOR MODELS

A-90—See RCA Victor M30	J85—See RCA Victor R12	K62—See RCA Victor R11	M52—See RCA Victor 119
BX—See RCA Victor R17M	J86—See RCA Victor R72	K63—See RCA Victor 120	M55—See RCA Victor 214
B40—See RCA Victor M34	J87—See RCA Victor R75 (47's)	K64—See RCA Victor 121	M56—See RCA Victor 211
B52—See RCA Victor M116	J87A—See RCA Victor R75 (2A5's)	K64D—See RCA Victor 127	M61—See RCA Victor 128
B81—See RCA Victor 142B	J88—See RCA Victor R71	K65—See RCA Victor R38	M62—See RCA Victor 125
B86—See RCA Victor 241B	J100—See RCA Victor R100	K65P—See RCA Victor R38P	M63—See RCA Victor 124
C30—See RCA Victor 91B	J105—See RCA Victor R76	K66—See RCA Victor 220	M65—See RCA Victor 221
C41—See RCA Victor M105	J107—See RCA Victor R77	K66M—See RCA Victor 222	M66—See RCA Victor 226
C60—See RCA Victor M107	J109—See RCA Victor RE81	K78—See RCA Victor 330	M67—See RCA Victor 224
C61—See RCA Victor M123	J125—See RCA Victor R78	K79—See RCA Victor 331	M68—See RCA Victor Duo 321
C62—See RCA Victor 126B	J125A—See RCA Victor R78 (2)	K80—See RCA Victor 140 and 140E	M69—See RCA Victor 322
C67—See RCA Victor 223	JZ30—See RCA Victor SW2	K80X—See RCA Victor 141 and 141E	M81—See RCA Victor 143
C70—See RCA Victor 135B	JZ822—See RCA Victor R24	K82—GE K62 in clock cabinet	M85—See RCA Victor 243
C75—See RCA Victor 235B	JZ822A—See RCA Victor R24A (47)	K85—See RCA Victor 240	M86—See RCA Victor 242
D50—See RCA Victor M101	JZ826—See Victor R24	K88—See RCA Victor 340	M89—See RCA Victor 341
D51—See RCA Victor M104	JX82B-J88 with SW adapter	K88X—See RCA Victor 34E	M106—See RCA Victor 262
D52—See RCA Victor M108	JZ835—See RCA Victor R023	K105—See RCA Victor 261	M107—See RCA Victor 263
D72—See RCA Victor M109	K40—See RCA Victor R27	K106—See RCA Victor R90	M125—See RCA Victor 281
E52—See RCA Victor T5	K40A—See RCA Victor R18W	K106P—See RCA Victor R90P	M128—See RCA Victor Duo 380
H31—See Radiola 80	K41—See RCA Victor R17M	K107—See RCA Victor R260	M128H—See RCA Victor 380H/R
H32—See RCA Victor R50	K43—See RCA Victor 100	K126—See RCA Victor 280	M129—See RCA Victor 381
H51—See Radiola 82	K48—See RCA Victor 300	KZ-62P—See RCA Victor RE18, RE18A	N60—See Previous Page
H51R—See Radiola 82R	K50—See RCA Victor R2B	L50—See RCA Victor R22S	S22—See RCA Victor R7
H71—See Radiola 86	K50P—See RCA Victor R28P	L51—See RCA Victor R22W	S22X—See RCA Victor R7
H71R—See Radiola 86R	K51—See RCA Victor R2B	L52—See RCA Victor 112	S22D—See RCA Victor R7 DC
H72—See RCA Victor RAE 59	K51P—See RCA Victor R28P	L52A—See RCA Victor 112A	S42—See RCA Victor R9
H91, H91R—See Previous Page	K52—See RCA Victor 110	L53—See RCA Victor 114	S42B—See RCA Victor R43
J70—See RCA Victor R4	K53—See RCA Victor 111	M40—See RCA Victor 102	S42D—See RCA Victor R9 DC
J72—See RCA Victor R70 and R70N	K53M—See RCA Victor 115	M41—See RCA Victor 101	S132—See RCA Victor R10
J75—See RCA Victor R6	K54—See RCA Victor RE30	M42—See RCA Victor 103	SZ42P—See RCA Victor RE16
J80—See RCA Victor R8	K54P—See RCA Victor RE40P	M49—See RCA Victor 301	T12—See RCA Victor R5
J82—See RCA Victor R71	K55—See RCA Victor 210	M50—See RCA Victor 117	T11D—See RCA Victor R5 DC
J83—See RCA Victor R-73 with 47's	K58—See RCA Victor 310	M51—See RCA Victor 118	T12E—See RCA Victor R5X
J83A—See RCA Victor R73 with 2A5's	K60—See RCA Victor R37	M51—See RCA Victor 118 (mod)	T41—See RCA Victor Radiola 48
	K60P—See RCA Victor R37P		

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GENERAL HOUSEHOLD	OLD UTILITIES—See Gronow																	
GENERAL MOTORS	"Day-Fan"																	
"Little General"	Vol. 1202259	24	DRP309			A64	8	4	RS213					6	*24, 45, 80			
F	Tone 1202261	22	G12			See Note A45	12	4	RS215					6	*36, *38			
"Day-Fan" 5AC	Vol. 7	7	K															
"Day-Fan" 25, 26, 27, 28	Tone 11	11	A400P				2-2-1	3	See Note	B1				6	*27, B11		1-3	
"Day-Fan" 43, 48, 110	Vol. 5	5	K12				†	3	See Note	B1				9	*26, 27, *71, 80		1-10	
120, 130, 140 ("A", "B") Below serial 29100A-1700B	Vol. 5	5	K12				†	3	See Note	B1				9	*26, 27, *71, 80		1-10	
120, 130, 140 ("A", "B") Between serials 29100A & 62100A, & 1700B & 1964B	Vol. 24	24	DRP309			A64	8	4	RS213					6	*24, 45, 80		3-1	
120, 130, 140 ("A", "B") Above serial 62100A, 1964B	Tone 22	22	G12			See Note A45	12	4	RS215									
170E	Vol. 25	25	DRP310				3-2-4-4-5	†	See Note	B1				8	*24, *27, *45, 80		1-14	
180, 190	Tone 41	41	O															
200-201 (E2)	Vol. 24	24	DRP309			A64	3-2-4-4-5	†	See Note	B1				8	*24, *27, *45, 80		1-15	
211 (S9A, S9B)	Tone 25	25	DRP309			A64	8, 8, 8	3	RS213					8	*24, *27, *45, 80		1-16	
216, 217, 219 (S1A, S1B)	Vol. 41	41	O															
220 (S10A, S10B)	Vol. 29	29	SRP268											7	*32, 30, *31		1-17, 18	
250 (S1A, S1B)	Vol. 41	41	O															
251 (S2A, S2B)	Vol. 24	24	DRP309			A64	8	4	RS213					6	*24, 45, 80		3-1	
252, 253, 254, 255, 256, 257, 258 (S3A, S3B)	Vol. 22	22	G12			See Note A45	12	4	RS215									
281 (R1A)	Vol. 54	54	Y50MP	6										7	*32, 30, *31		3-3, 4	
290, 291, 292, 293 (S4A, S4B)	Tone 41	41	O															
A5003	Vol. 6	6	K12				8-8	1	CM172					6	*24, 35, 27, 47, 80	175	3-5, 6	
A5005	Tone 22	22	L											7	24, *35, *27, 47, 80	175	2-7, 8	
A5010	Vol. 8	8	Y10MP	6			206566	1	CM172					7	*35, *27, 24, 47, 80	175	2-13, 14	
A5020	Vol. 6	6	K12				1203346	28	RM261					7	24, *35, *27, 47, 80	175	2-7, 8	
5051 MG Set	Vol. 22	22	L				8	28	RS213					8	24, *35, *27, 47, 80	175	2-9, 10	
5052	Vol. 84	84	UC501	6			C6629	28	RS213									
5057	Vol. 22	22	L				8	28	RS213									
5060	Vol. 84	84	UC501	6			8, 8, 8	28	RS213					10	24, *27, *35, *45, 80	175	2-11, 12	
5065 AC	Vol. 44	44	K12				15	20	BB14					2	36, 37	535	3-7, 8	
5066	Vol. †	†	G7			See Note A44												
5077	Vol. 7	7	UC510	6			8, 8	1	RS213					10	24, *27, *35, *45, 80	175	5-1, 2	
5080	Vol. 22	22	†			See Note A5												
5091	Vol. 4	4	K12				5-3-3-1	3	See Note	B1				9	*26, 27, *45, 80		1-12	
A5003	Vol. 12	12	K12				1-3-5-4	3	See Note	B1				7	*24, 27, 80, *45		2-1, 2	
A5010	Vol. 4	4	M				1-3-3-5	3	See Note	B1				9	*26, 27, *45, 80		1-12	
A5020	Vol. 12	12	K12				1-3-4-5	3	See Note	B3				7	*24, 27, *45, 80		2-1, 2	
5051 MG Set	Vol. 26	26	L				2-12-4	3	See Note	B3				6	*01A		1-5	
5052	Vol. 26	26	K12											6	*01A		1-8	
5057	Vol. 26	26	Y				2-2-2	3	See Note	B1				7	*Kellog, B11		1-6	
5060	Vol. 26	26	Y											6	*01A		1-8	
5065 AC	Vol. 26	26	K12											6	*26, 27, 71		1-7	
5066	Vol. 26	26	K12															
5077	Vol. 2	2	K12				†	3	See Note	B1				9	*26, 27, *71, 80		1-11	
5080	Vol. 2	2	K12				†	3	See Note	B1				9	*26, 27, *71, 80		1-11	
5091	Vol. 4	4	G7				5-3-1-2	3	See Note	B1				9	*26, 27, *45, 80		1-13	
GENERAL TELEVISION	ION																	
"A", "B", "C", "E", "SW"	Vol. 6	6	K12		6		20-4-10	6/15	UR182	B110				4	12Z3, 43, 44, 77		*6-9	
"G", "GSW", "M", "MSW"	Tone 22	22	L		7													
457	Vol. 6	6	G12				4-4	4	See Note	B3				4	58, 57, 47, 80		*6-9	
557	Vol. 69	69	G12		6	EX300	2000	4	2S567					4	58, 57, 47, 80		*10-5	
GENERAL TELEVISION	ION & PR4																	
RADIO CORP.	Vol. 6	6	MR24				12-12-5-5	6/15	4S715					4	6F7, 6C6, 43, 25Z5		*9-4	
GILFILLAN																		
X	Vol. 17	17	†			See Note A3	8-12	24	2S563			292	C3	5	6A8, 6K7, 6Q7, 6F6, 84			
4T	Tone 22	22	†			See Note A3	10	15	BB12									
	Vol. 6	6	G12			A14	.01	23	Buffer	B14				4	2A5, 57, 58, 80		5-3	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GILFILLAN—Continued																		
5AD.....	Vol.		18	MR48	M26			20-20	1	2N509					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4	460	11-3
5B8.....	Vol.	A33005	18	MR48				10005	23	2S567					5	6A8, 6K7, 6Q7, 6F6, 5Z4	460	9-1
5C, 5T.....	Vol. Tone		18	N	6			8-4	23	2S567					5	2A5, 2A6, 57, 58, 80	175	5-3
5G-S, 5G-T.....	Vol. Tone		18	MR48				8-8	23	2S567					5	6SA7, 6SK7, 6SQ7, 6V6GT, 5W4	460	12-1
5G8, 5G8T.....	Vol. Tone	A33005	18	MR48				10005	23	2S567					5	6A7, 78, 75, 42, 80	460	9-1
5L.....	Vol.		18	MR48	M27			40-40-40	46	F1P1357					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z6GT	460	12-1
5SJ.....	Vol.		18	MR48				8-8	23	2S567					5	6A8, 6K7, 6Q7, 6F6, 5W4	460	10-2
5S8, 5S8T.....	Vol.	A33005	18	MR48				A10005	23	2S567					5	6A7, 78, 75, 42, 80, or 6A8, 6K7, 6Q7, 6F6, 5W4	460	9-2
5T8.....	Vol.		18	MR48	M26			A10005	23	2S567					5	6A8, 6K7, 6Q7, 6F6, 5W4 or 5Z4	460	
5 tubes all wave.....	Vol.		18	M	6			8-4	1	2N518					5	6A7, 78, 75, 42, 80	460	
5X.....	Vol.		6	H12				10	19	BB12					5	25Z5, 36, 39, 43	450	5-4
6B.....	Vol.		18	MR48				8-16	6	2N501					6	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 6X5GT	460	12-4
6C, 6T.....	Vol. Tone		15	N	6			8-8	4	2S567					6	2A5, 2A7, 55, 58, 80	262.5	5-1
6K, 6L, 6R.....	Vol.		18	MR48	M26			20-20	1	2N509					6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	460	12-2
6U.....	Vol. Tone		18	MR48				16-4	23	2S563					6	6K8, 6SK7, 6SQ7, 6V6GT, 6U5G, 6X5G	460	12-2
6X8.....	Vol. Tone		17	MR48	M26			8, 8	23	BB61					6	6A7, 78, 75, 42, 6U5, 80	175	9-2
7A.....	Vol.		15	UM154		See Note A96		8-8	1	2N518			296	C3	7	76, 177, 78, 85, 42, 84	175	6-7
7 tubes all wave.....	Vol.		18	M	6			10	15	BB12					7	6A7, 78, 75, 42, 80	460	6-9
7C8, 7T8.....	Vol. Tone		18	MR48				8	25	RS213					7	6A7, 78, 6116, 6F5, 42, 6T5, 80	460	9-3
8C, 8T.....	Vol. Tone		15	N	6			10	19	BB12					8	2A5, 2A7, 55, 56, 58, 80	262.5	5-1,2
8C8.....	Vol. Tone		45	MR48				8, 8	1	ST595					8	6K7G, 6A8G, 6116G, 6F5G, 6F6G, 5Y3, 6U5	460	9-4
8C8E.....	Vol. Tone		18	MR48				8, 8	1	ST595					8	6K7G, 6A8G, 6116G, 6F5G, 6F6G, 6U5, 5Y3	460	9-5
8T8.....	Vol. Tone		45	MR48				8, 8	1	ST595					8	6K7G, 6A8G, 6116G, 6F5G, 6F6G, 6U5, 5Y3	460	9-4
8T8E.....	Vol. Tone		7	MR48				8, 8	1	ST595					8	6K7G, 6A8G, 6116G, 6F5G, 6F6G, 6U5, 5Y3	460	9-5,6
8X.....	Vol. Tone	5-011-012-6590	7/83	DRP314	6			8-8	74	2N518		18318	294	C3	8	6K7, 6A8, 6R7, 6C5, 6F6, 84	265	7-1
11F, 11G.....	Vol. Phono.		20	500M			A19	40, 40	1	WE4050					13	6SK7, 6K8, 6116, 6F5GT/6J7GT, 6V6GT, 6SF5, 6U5, 6SJ7G, 6X5GT	460	12-3,4
13A.....	Vol. Phono.		18	500M			A19	40, 40	1	WE4050					13	6SK7, 6K8, 6116, 6F5GT/6J7GT, 6V6GT, 6SF5, 6U5, 6SJ7G, 6X5GT	460	12-3,4
13C8.....	Vol. Sen.		15	500M No. 1		See Note A19		18	1	WE2050					13	6K7G, 6A8G, 6116G, 6F5G, 6C5G, 6F6G, 5Y3, 6U5	460	9-7
13C8E.....	Vol.		18	500M No. 1		See Note A19		10	1	RS215					13	6K7G, 6A8G, 6116G, 6F5G, 6C5G, 6F6G, 6U5, 5Y3	460	9-7
30.....	Vol.		6	G12				18	1	WE2050					4	2A5, 57, 58, 80	175	5-3
32.....	Vol. Tone		17	N	6			4-4	4	CM172					5	2A5, 2A6, 57, 58, 80	175	5-3
34.....	Vol.		22	K12				8-4	4	CM172					5	2A5, 2A6, 57, 58, 80	175	5-3
35 with 71's.....	Vol.		6	H12				16-8	6	2N501					5	25Z5, 36, 39, 43	450	5-4
35 with 2A5.....	Vol. Tone		18	N	6			2-2-4	3	See Note B1					8	27, 71, 80	175	6-1
41.....	Vol. Tone		17	N	6			8-4	4	CM172					5	2A5, 2A6, 57, 58, 80	175	5-3

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GILFILLAN—Continued																		
42A.....	Vol.		6	H17			5-5	23	See Note	B3				4	42, 77, 78, 80		6-2	
43A.....	Vol.		6	G12	6		4-4	23	CM172					1	2A5, 57, 58, 80		6-2	
47, 50.....	Vol.		15	N	6		8-8	36	See Note	B3				8	2A5, 2A7, 55, 56, 58, 80	262.5	5-1, 2	
52A, 54A.....	Tone		85	K12										5	77, 78, 42, 80	460	6-5	
54A (Late).....	Vol.		6	H12			4-4	4	CM172					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y3G	460	§11-3	
55A, 55B.....	Vol.		18	MR48			8-8	23	2S567					5	25Z5, 36, 39, 43	450	5-4	
56S.....	Tone		22	MR33										5	6A7, 78, 75, 41, 80	460	10-1	
60.....	Vol.		6	H12			16-8	6	2N504									
62BX.....	Vol.		18	MR48			8-8	23	2S567					7	26, 27, 71, B11		1-2	
63B, 63X (AC).....	Tone		86	K12			2-2.3	3	See Note	B1				6	5Z4, 6F5, 6F6, 6H6, 6J7, 6K7	175	6-4	
66.....	Vol.		17	N	6		8-4	23	See Note	B3				6	5Z4, 6A8, 6F5, 6F6, 6H6, 6K7	460	6-4	
66S.....	Vol.		22	E12			10	19	See Note	B3				9	10, 27, 31		1-2	
67A, 67R.....	Vol.		18	MR48			12	25	ST596					6	6K8, 78, 75, 41, 80, 6U5	460	10-1	
77.....	Tone		22	K12			16, 16	25/13	ST597					6	6K7, 6A8G, 6Q7G, 6K6G, 84	252.5		
77R.....	Vol.		3	UM154		A96	A10002	4	2S567	B14	V5105	294	C3	8	12, 27, 80		1-1	
78B, 78X.....	Vol.		45	UM134		A96	.005	4	See Note	B14	V5105	294	C3	7	6K7G, 6A8G, 6H6G, 6F5G, 6F6G, 81	252.5		
87R.....	Tone		22	G12			†	3	See Note	B3				7	5Z4, 6A8, 6F5, 6F6, 6H6, 6K7	460	6-5	
	Vol.		17	UM154		A96	.005	4	Buffer	B14	V5105	294	C3	8	6K7G, 6A8G, 6H6G, 6F5G, 6C5G, 6N7G, 84	262.5		
	Tone		22	UM133		A96	.005	4	Buffer	B14	V5105	294	C3	8	6K7, 6A8, 6H6, 6C5, 6F6, 5Z4	460	6-6	
116B, 116X, 117B, 117X.....	Vol.		46	N	6		16	1	RS216					11	6K7, 6A8, 6H6, 6C5, 6F6, 5Z4	460	6-6	
402T.....	Tone		76	M			18	1	RS216									
410.....	Sen.		7	UC500			10	19	BB13									
412T.....	Vol.		6	H12		A14	5-5	23	CM172					4	78, 77, 42, 80		7-2	
501T.....	Vol.		6	G12		A14	4-4	23	CM172					4	57, 58, 2A5, 80		6-7	
510.....	Vol.		18	G12			4-4	23	CM172					4	58, 57, 2A5, 80		7-2	
515.....	Vol.		22	MR48			5, 5	23	ST595					5	6A7, 6D6, 75, 42, 80	460	9-8	
520.....	Tone		18	MR33			10	15	BB12					5	57, 58, 2A6, 80, 2A5	175	6-8	
521T-C.....	Vol.		22	N	6		8-4	23	CM172					5	6A7, 78, 75, 42, 80	460	6-9	
525.....	Vol.		18	K12			8-4	19	BB12					5	6A7, 78, 75, 42, 80	460	6-9	
615.....	Vol.		15	M	6		8-4	1	CM172					5	6A7, 78, 75, 42, 80	160	6-9	
625.....	Tone		22	N			10	19	BB13					6	2A7, 58, 55, 2A5, 80	262.5	6-10	
700.....	Vol.		15	K12			8-8	4	See Note	B3				6	2A7, 58, 55, 2A5, 80	262.5	6-10	
	Vol.		15	N	6		10	15	See Note	B3				6	2A7, 58, 55, 2A5, 80	262.5	6-10	
	Vol.		15	K12			8-8	1	See Note	B3				6	2A7, 58, 55, 2A5, 80	262.5	6-10	
	Vol.		15	UM154		See Note	A96	1	CM172			296	C3	7	42, 76, 77, 78, 84, 85	175	6-7	
	Vol.		15	UM154		See Note	A96	1	BB12					7	42, 76, 77, 78, 84, 85	175	6-7	
	Vol.		15	UM154		See Note	A96	1	Buffer	B14				7	42, 76, 77, 78, 84, 85	175	6-7	
711T.....	Vol.	8116	45	MR48	M26		8-4	23	CM172					7	6A8, 6K7, 6H6, 6G5, 6F5, 6F6, 5Y3	175	8-2	
715.....	Tone	8117	22	K12			8-4	1	See Note	B3				7	6A7, 78, 75, 42, 80	460	6-9	
723T-C.....	Vol.		18	M	6		8-8	19	See Note	B3				7	6A7, 78, 75, 42, 80	460	6-9	
725.....	Vol.		45	N			10	12	BB13					7	1C6, 334, 330, 32, 19	460	7-2	
731T-C.....	Tone		41	M			5	78	BB21					7	1C6, 334, 330, 32, 19	460	7-2	
815, 825.....	Vol.		18	M	6		8-8	1	CM172					7	6A7, 78, 75, 42, 80	460	6-9	
831T-C.....	Vol.		45	N			10	19	BB13					7	6A7, 78, 75, 42, 80	460	6-9	
	Tone		41	M			8-8	1	CM172					7	6A7, 78, 75, 42, 80	460	6-9	
	Vol.		124	MR48	M26		8-8	1	CM172					7	6A8, 6K7, 6H6, 6G5, 6F5, 6F6, 5Y3	460	8-3	
	Tone		22	K12			10	19	BB12					7	6A8, 6K7, 6H6, 6G5, 6F5, 6F6, 5Y3	460	8-3	
	Vol.		15	N	6		8-8	36	See Note	B3				8	2A7, 58, 55, 56, 2A5, 80	262.5	6-10	
	Tone		22	K12			8-8	36	See Note	B3				8	2A7, 58, 55, 56, 2A5, 80	262.5	6-10	
	Vol.	5-011-012	7/17	DRP314			16	1	WE1650					8	6K7, 6A8, 6H7, 6G5, 6F6, 5Y3	462	7-3	
	Tone	1-010-334	22	K12			18	1	WE2050					8	6K7, 6A8, 6H7, 6G5, 6F6, 5Y3	462	7-3	
1131C.....	Vol.		7/83	DRP314			10	19	BB12					11	6K7, 6A8, 6H7, 6G5, 6F6, 5Y3	462	7-4	
	Tone		44	K12			16	1	WE1650					11	6K7, 6A8, 6H7, 6G5, 6F6, 5Y3	462	7-4	
	Vol.		7/83	DRP314			18	1	WE2050					11	6K7, 6A8, 6H7, 6G5, 6F6, 5Y3	462	7-4	
	Tone		44	K12			8	13	BB61					13	6K7, 6A8, 6H7, 6G5, 6F6, 5Y3	462	7-4	
1331C.....	Vol.		7/46	DRP314			25	19	BB15					13	6K7, 6A8, 6H7, 6G5, 6F6, 5Y3	462	7-4	
	Tone		44	K12			16	1	RS216					13	6K7, 6A8, 6H7, 6G5, 6F6, 5Y3	462	7-4	
	Vol.		7/46	DRP314			8	13	BB61					13	6K7, 6A8, 6H7, 6G5, 6F6, 5Y3	462	7-4	
	Tone		44	K12			25	15	BB15					13	6K7, 6A8, 6H7, 6G5, 6F6, 5Y3	462	7-4	
GILT EDGE—See Air King																		
GLORIATONE—See U. S. Radio & Tel.																		

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GOLDENTONE																		
L5	Vol. Tone	P660 P661	18 34	N L	6			P474 P160 P304	32 32 15	WE450 2S567 BB12	B81				7	5Z4, 6F5, 6H6, 6K7, 6L7, 6C5, 6F6	456	
L6	Vol. Tone	P660 P661	18 44	N L	6			P474 P160 P304	32 32 15	WE450 2S567 BB12	B81				8	5Z4, 6C5, 6F6, 6K7, 6L7, 6Q7	456	
L7	Vol. Tone	P691 P682	45 44	SRP275 L	7			P391 .01-.01	1 1	2N516 Buffer	B14	P402	245C	C3	7	1C6, 19, 30, 34	456	
Z4	Vol. Tone	P680	45	SRP275	7			P391	1	2N516	B14	P402	245C	C3	6	1C6, 19, 30, 32, 34	456	
Z5	Vol. Tone	P691 P962	45 44	SRP275 L	7			.01-.01 P958	1 1	2N516 Buffer	B14	P402	245C	C3	6	1C6, 19, 30, 32, 34	456	
GOLD MEDAL																		
L5	Vol. Tone	P660 P661	18 34	N L	6			P474 P160 P304	32 32 15	WE450 2S567 BB12	B81				7	5Z4, 6F5, 6F6, 6H6, 6K7, 6L7, 6C5	456	
L6	Vol. Tone	P660 P661	18 44	N L	6			P474 P160 P304	32 32 15	WE450 2S567 BB12	B81				8	5Z4, 6C5, 6F6, 6K7, 6L7, 6Q7	456	
L7	Vol. Tone	P691 P682	45 44	SRP275 L	7			P391 .01-.01	1 1	2N516 Buffer	B14	P402	245C	C3	7	1C6, 19, 30, 34	456	
Z4	Vol. Tone	P680	45	SRP275	7			P391	1	2N516	B14	P402	245C	C3	6	1C6, 19, 30, 32, 34	456	
Z5	Vol. Tone	P691 P962	45 44	SRP275 L	7			.01-.01 P391	1 1	2N516 Buffer	B14	P402	245C	C3	6	1C6, 19, 30, 32, 34	456	
GOODRICH																		
R399	Vol.	P912	18	MR53	M26			5-5	23	RM262					5	6A7, 6D6, 75, 41, 80	456	12-1,2
R400	Vol.	P934	18	MR48	M26			P160	1	2N518					5	6A7, 6D6, 75, 42, 80	456	12-2,3
R401	Vol. Tone	P943	34	N	6			8-4	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5W4	456	12-4
R404	Vol. Tone	P1579 P1642	18 22	N L	6			P1591	23	2S567					6	6A7, 6D6, 75, 41, 6H5, 80	456	12-2,5
R405	Vol. Tone	P1749 P1750	139 139	TM227-SS1 UM160	M26			16-4 10	23 19	2S563 BB12	B33				7	6A7, 6D6, 76, 75, 42, 6U5, 80	456	12-1,2,7
R410	Vol. Tone	P1158 P1159	15 44	TM236-SS1 K12	M26			P1156 P1155	1 1	WE3050 WE1830					11	6K7, 6A7, 6H6, 6C5, 6F6, 6G5, 5Z3	456	12-6
	Vol. Tone	P1166 P1167	15 44	TM240-SS1 K12	M26		A4 A4	P1154 5	13 15	WE4030 BB12					8	6A7, 6D6, 76, 75, 42, 80	456	12-7
R411	Vol. Tone	P1821 P1822	140 140	TM236-SS1 UM160-SS1	M26			P1825 P1873	1/13 15	3S584 BB12					8	6A7, 6D6, 76, 75, 42, 80	456	12-7
R412	Vol.	P2935	18	MR48	M26			P2936	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5	455	12-8,10
R412A	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N514					5	12SA7GT, 12K7GT, 12SQ7GT	455	12-8,10
R413	Vol.	P2935	18	MR48	M26			P2936	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5	455	12-9,10
R413A	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N514					5	12SA7GT, 12K7GT, 12SQ7GT	455	12-9,10
R414	Vol.	P2450A	18	MR48	M26			P2456	23	BB61					5	6A7, 6D6, 75, 41, 80	456	12-11
R415A	Vol.	P3099	18	MR48	M26			P2936	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5	456	12-5,10
R416	Vol.	P3082	18	MR48	M26			P3086	1/15	3S581					6	6A7, 6D6, 75, 76, 41, 80	456	12-11
R419	Vol.	P3015	18	MK401	M27			P3024	12	BB21					4	1A7G, 1N5G, 1H5G, 1Q5G	455	12-13,2
R419B	Vol.	P3317	18	MK401	M27			P3024	12	BB21					4	1A7G, 1N5G, 1H5G, 1Q5G	455	12-12
R420	Vol. Tone	P691 P692	45 44	SRP275 L	7			P958 .01-.01	1 1	2N518 Buffer	B14	P402	245C		6	1C6, 34, 30, 32, 19	456	12-13,14
R421	Vol. Tone	P1677 P1764	44 44	N L	7			P958 .01-.01	1 1	2N518 Buffer	B14	P402	245C	C3	6	6D8G, 6S7G, 6T7G, 30, 19	456	12-15,27
R422	Vol. Tone	P2136 P2137	18 34	Order from L	Mfr. 7			P2140 .015	1/15 1	3S579 Buffer	B14	P1414	850	C3	6	6D8G, 6S7G, 6T7G, 6G6G, 6L5G, 6ZY5G	456	12-16
R423	Vol. Tone	P3335 P3337	18 22	MK401 MK401	M26			10-10	1	FPD231					6	6A7, 6D6, 75, 41, 76, 80	455	12-17
R424	Vol. Tone	P3335 P3337	18 22	MK401 MK401	M26			20-20-20	1/15	3N534					6	12SK7, 12SA7, 12SQ7, 35L6, 35Z5	455	12-3,14
R425	Vol. Tone	P1579 P1642	62 22	N L	6			10	19	BB12					5	1A6, 1A4, 30, 1G5G, 1B1 (Ballast)	456	12-18
R427, R428	Vol.	P2600	18	MK401	M27			P2602	19	BB15					4	1A7G, 1N5G, 1H5G, 1Q5G	455	12-19,14
R436	Vol. Tone	P3335 P3337	18 22	MK401 MK401	M26			P3419	1	FPD231					7	6A7, 6D6, 75, 41, 76, 80	455	12-17
R437	Vol. Tone	P3471 P3472	45 15	MK401 Order from	Mfr.			P1993 P3478	25 25/14	WE3050 FPD235					11	6A8G, 6K7G, 6J5G, 6F6G, 5Z3	455	12-20
R450	Vol.	P3746	18	MK401	M26			P3355	24	2N514					5	12SA7, 12SK7, 12SQ7, 50L6, 35Z5	455	12-21,14

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
GOODRICH—Continued																		
R451.....	Vol.	P4060.....	18	UM154.....	M26		A96	P4212.....	1	2N513.....				5	12SA7, 12SK7, 12SQ7, 50L6, 3Z5.....	455	12-19,23	
R452.....	Vol.	P4060.....	18	UM154.....	M26		A96	P3531.....	1/15	3N528.....				5	12SA7, 12SK7, 12SQ7, 50L6, 3Z5, BT1000.....	455	12-22,23	
R453.....	Vol.	P4089.....	62	TM231-SS22	M26			P4130.....	1/15	FPT339.....				6	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G.....	455	12-22,23	
R454.....	Vol. Tone	P4089..... P4193.....	62 22	TM231-SS22	M26			P4130.....	1/15	FPT339.....				7	6SK7, 6SA7, 6SQ7, 6K6G, 5Y3G.....	455	12-24,23	
R458.....	Vol. Tone	P4089..... P4193.....	62 22	TM231-SS22	M26			P4264.....	1/15	FPT383.....				7	6SK7, 6SA7, 6SQ7, 6K6G, 5Y3G.....	455	12-23,24	
R459.....	Vol.	P4349.....	124	Order from Mfr.....				P4372..... P1992.....	25/13 25	2S569..... WE3050.....				12	6AB7, 6SA7, 6SK7, 6SQ7, 6J5GT, 6F6G, 6AF6, 5U4G.....	455	12-25	
R460.....	Vol.	P3961.....	18	UM161-SS18	M27			P3971.....	1	FPQ409.....				6	1N5, 1A7, 1H5, 3Q5, 1I7Z6.....	455	12-15,10	
R470.....	Vol.	P2600.....	18	MK401.....	M27			P2602.....	19	BB15.....				4	1A7, 1N5, 1H5, 3Q5.....	455	12-21,14	
R471.....	Vol.	P3720.....	18	MK402.....	M27			P3024.....	12	BB20.....				5	1A7GT, 1P5GT, 1N5GT, 1H5GT, 1Q5GT.....	455	12-26,10	
R478.....	Vol.	P3720.....	18	MK402.....	M27			P3024.....	12	BB20.....				5	1A7GT, 1P5GT, 1N5GT, 1H5GT, 1Q5GT.....	455	12-26,10	
R480.....	Vol. Tone	P4089..... P4531.....	62 22	TM231-SS22	M26			P4264.....	1/15	FPT383.....				7	6SK7, 6SA7, 6SQ7, 6K6G, 5Y3G.....	455	12-26	
GOODYEAR																		
404.....	Vol. Fil.	101-26..... 101-25.....	1 29	Order from M4R.....	Mfr.....									4	1A6, 3Z2, 33.....	465	10-1	
504.....	Vol. Tone	101-56..... 101-72.....	18 22	MR53..... MR44.....	M27			119-28..... .005.....	1	2N516 Buffer.....	B14	126-4.....	246	C3	6D8G, 6S7G, 6T7G, 1F5G, 6N5.....	465	10-2	
522.....	Vol. Fil.	101-43..... 101-44.....	62 29	O..... C6R.....	6			119-22.....	19	BB12.....				5	1A6, 34, 30, 32, 950.....	465	11-1	
523.....	Vol. Fil.	101-69..... 101-44.....	15 29	MR53..... M6R.....	M26			119-22.....	19	BB12.....				5	1A6, 1A4, 30, 950.....	465	8-1	
525.....	Vol.	V601.....	17	N.....	6			C525.....	11	UR182.....	B31			3	6D6, 75, 43, 25Z5.....	456	11-2	
550.....	Vol.	P1008.....	17	N.....	6			P1003.....	4	2S567.....				5	2A7, 5B, 2A6, 2A5, 70.....	456	10-3	
566.....	Vol.	P101-41.....	18	UM154-SS17	M26			119-20..... .01.....	4	2S567..... Buffer.....	B14	126-1.....	294	C3	6A8, 6K7, 75, 41, 81/6Z4.....	465	11-3	
575.....	Vol.	101-10.....	6	Z12.....	6	EX100		P119-6.....	4	2S567.....				5	2A5, 357, 58, 80.....	175	6-2	
578 Ser. A.....	Vol.	101-35.....	56	O.....	6			103-6..... 103-7.....	4 4	RS213..... RS213.....				5	6A7, 6D6, 6B7, 42, 80.....	465	10-4	
580.....	Vol.	101-9.....	17	N.....	6			119-15..... .01.....	4	2S567..... Buffer.....	B14	142-4.....	299	C3	6D6, 6A7, 75, 42, 84.....	175	7-4	
585 Series A, B, C.....	Vol.	101-18.....	18	N.....	6			4-3..... P103-6..... P103-7.....	1 4 4	2N518..... RS213..... RS213.....	B20 B20			5	6P7, 6D6, 75, 42, 80.....	370, 465	10-5 9-1,2	
586.....	Vol.	P101-49.....	18	O.....	6			103-6..... 103-7.....	42 42	RS213..... RS213.....				5	6A7, 78, 75, 41, 80.....	465	11-4	
588.....	Vol.	101-71.....	18	MR53.....	M26			103-7..... 119-38.....	42 23	RS213..... SR633.....				5	7A8, 6K7, 6Q7, 6F6, 5Y3.....	465	8-3,4 10-7	
601 (Runs 1, 2).....	Vol. Tone	101-54..... 101-55.....	18 22	MR53..... MR53.....	M26			119-25.....	11	RM257.....				5	6A7, 78, 75, 43, 25Z5.....	465	8-2 & 10-8	
602.....	Vol.	101-77.....	18	MR53.....	M26			119-39..... 119-42.....	1 4	2S554..... 2P546.....	B20			5	6A8, 6K7, 6R7, 25L6, 25Z6, 1A9B.....	465	11-5	
660.....	Vol.	V603.....	17	N.....	6			C550.....	4	CM1172.....		V660.....	220B	6	6D6, 6A7, 75, 89, 6Z4.....	175	11-5	
661.....	Vol.	101-41.....	18	UM154-SS17	M26			119-37..... .005.....	4	2S567..... Buffer.....	B14	126-1.....	294	C3	6K7, 6A8, 6Q7, 41, 6N5.....	465	8-5	
666 (Runs 1, 2).....	Vol.	101-41.....	127	UM154-SS17	M26			119-21..... .01.....	1	2N518..... Buffer.....	B14	126-1.....	294	C3	6K7, 6A8, 6Q7, 6N6, 6N5/84.....	465	10-9,10	
667.....	Vol. Tone	101-73..... 101-45.....	17 22	UM147-SS17	M26			119-34..... .01.....	4	RM261..... Buffer.....	B14	126-1.....	294	C3	6K7, 6A8, 6Q7, 6F6, 6N5.....	262.5	8-6	
670.....	Vol.	101-9.....	17	N.....	6			P103-2..... 20.....	4 15	RM262..... BB15.....		142-1.....	299	C3	6C6, 6D6, 42, 75, 78, 84.....	175	6-3,4	
675.....	Vol.	101-11.....	18	N.....	6			.02..... P103-4..... P103-3.....	4 4 4	Buffer..... RS216..... RS216.....	B14			6	2A5, 2A6, 27, 57, 58, 80.....	370	6-5,6	
680.....	Vol.	P101-21.....	56	N.....	6	EC256		P119-17..... .01.....	4	CM1172..... Buffer.....	B14	142-4.....	299	C3	6D6, 6A7, 6B7, 42, 84.....	175	11-6	
685 (Runs 1, 2).....	Vol.	101-46.....	18	O.....	6			103-6..... 103-7.....	42 42	RS213..... RS213.....				6	6L7, 6K7G, 6Q7G, 6C5, 6F6G, 5Y3.....	465	11-7	
686 (Runs 1, 2).....	Vol. Tone	101-46..... 101-53.....	18 22	O..... K12.....	6			103-6..... 103-7.....	42 42	RS213..... RS213.....				6	6L7, 6K7, 6Q7, 6C5, 6F6, 5Y3.....	465	11-7	
690.....	Vol.	P101-21.....	56	N.....	6	EC256		P119-17..... .01.....	4	CM1172..... Buffer.....	B14	142-4.....	299	C3	6D6, 6A7, 6B7, 42, 84.....	175	12-6	
691.....	Vol.	101-93.....	18	MR53.....	M26			119-45.....	23	2S567.....				6	6L7, 6K7, 6Q7, 6F6, 6C5, 5Y3.....	465	10-11,12	
741.....	Vol. Tone	101-74..... 101-75.....	18 22	MR53..... MR44.....	M26			103-6..... 103-14.....	4 4	RS213..... WE1650.....				7	6A8, 6K7, 6Q7, 6C5, 6F6, 5Y3.....	465	8-7,8	
749.....	Vol. Tone	101-74..... 101-75.....	18 21	MR53..... SRP286.....	M26		See Note See Note	40-40.....	4	2S558.....				6	6A7, 6D6, 75, 25L6G, 25Z5, BM17C.....	456	10-20	
770.....	Vol. Tone	P101-37..... P101-38.....	56 21	TM236-SS1	M26			103-4..... 103-8.....	4 4	RS216..... RS216.....				7	6K7, 6C6, 6C5, 6B7, 12, 80.....	465	11-8	

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GOODYEAR—Continued																		
777 series A.....	Vol.	101-23.....	18	O.....	6			P103-4.....	4	RS216.....					7	6D16, 6C6, 76, 75, 42, 80.....	465	7-1,3
	Tone	101-24.....	57	M.....				P103-3.....	4	RS216.....					7	6D16, 6C6, 76, 6B7, 42, 80.....	465	7-1,3
777 series B.....	Vol.	101-23.....	56	O.....	6			P103-8.....	4	RS216.....					7	6K7, 6J7, 6C5, 6Q7, 6F6, 5Y3/5W4.....	465	11-9,10
	Tone	101-24.....	57	M.....				P103-4.....	4	RS216.....					7	6L7, 6K7, 6C5, 6G5, 6Q7, 6F6, 5W4.....	465	10-16
778.....	Vol.	101-17.....	124	TM236-SS1	M26			103-8.....	25	RS216.....					8	6K7, 6J7, 6Q7, 6F6, 6G5, 5Y3.....	465	9-3,4
	Tone	101-38.....	21	SRP286.....	8			103-6.....	25	RS213.....					10	6K7, 6L7, 6C5, 6I16, 6F6, 5Z4.....	465	10-13,14
787.....	Vol.	101-46.....	18	MR53.....	M26			103-7.....	23	RS213.....					11	6K7, 6J7, 6C5, 6I16, 6F5, 6F6, 5Z4.....	465	10-15
	Tone	101-53.....	22	MR53.....	M26			103-10.....	25	WE3050.....					11	6K7, 6J7, 6C5, 6I16, 6F5, 6F6, 5Z4.....	465	8-9,10
888, 889.....	Vol.	101-65.....	18	MR48.....	M26			103-6.....	23	RS213.....					11	6K7, 6J7, 6C5, 6I16, 6F5, 6F6, 5Z4.....	465	9-5,6
	Tone	101-53.....	22	MR33.....	M26			103-12.....	25	WE1830.....					11	6K7, 6J7, 6C5, 6I16, 6F5, 6F6, 5Z4.....	465	10-17-19
1070 (Runs 1, 2).....	Vol.	101-36.....	15	DTM287-SS1	M26			103-8.....	1	WE1650.....					11	6K7, 6J7, 6C5, 6I16, 6F5, 6F6, 5Z4.....	465	10-15
	Tone	101-40.....	31	SRP287.....	8			103-10.....	1	WE3050.....					11	6K7, 6J7, 6C5, 6I16, 6F5, 6F6, 5Z4.....	465	10-15
1170, 1171.....	Vol.	101-47.....	15	TM236-SS1	M26			119-19.....	15	2-BB15.....					11	6K7, 6J7, 6C5, 6I16, 6F5, 6G5, 6F6, 5Z4.....	465	10-15
	Tone	101-40.....	22	SRP287.....	8			103-8.....	25	WE1650.....					11	6K7, 6J7, 6C5, 6I16, 6F5, 6G5, 6F6, 5Z4.....	465	10-15
1173.....	Vol.	101-76.....	20	DTM287-SS1	M26			103-10.....	25	WE3050.....					11	6K7, 6J7, 6C5, 6I16, 6F5, 6F6, 5Z4.....	465	8-9,10
	Tone	101-62.....	22	SRP287.....	8			103-10.....	25	RS216.....					11	6K7, 6J7, 6C5, 6I16, 6F5, 6F6, 5Z4.....	465	8-9,10
1174.....	Vol.	101-36.....	20	DTM287-SS1	M26			103-5.....	30	RS213.....					11	6K7, 6J7, 6C5, 6I16, 6F5, 6F6, 5Z4.....	465	9-5,6
	Tone	101-40.....	22	SRP287.....	8			103-10.....	30	WE3050.....					11	6K7, 6J7, 6C5, 6I16, 6F5, 6F6, 5Z4.....	465	9-5,6
1175.....	Vol.	101-102.....	15	DTM287-SS1	M26			103-8.....	30	RS216.....					11	6K7, 6J7, 6C5, 6I16, 6F5, 6F6, 5Z4.....	465	10-17-19
	Tone	101-103.....	22	SRP286.....	8			103-10.....	25	WE3050.....					11	6K7, 6J7, 6C5, 6I16, 6F5, 6F6, 5Z4.....	465	10-17-19
01006.....	Vol.	49102.....	18	MR48.....	M26			31100.....	6/13	TN127.....					5	6A7, 6K7, 75, 25L6, 25Z5.....	470	12-1,2,4
01007.....	Vol.	49107.....	124			A19		31102.....	25	WE3050.....					6	6A8G, 6K7G, 6J5G, 6K5G, 6V6G, 5Y4G.....	470	12-2,4
01009 (Ch. 526F), 01010 (Ch. 526I).....	Vol.	101-107.....	18	UM154-SS18	M26			119-47D.....	23	2S560.....					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G.....	465	10-21
01018 (Runs 1, 2) (Ch. 880).....	Vol.	101-21.....	15	N.....	6	EC256		119-16.....	1	2S568.....		142-4	299	C3	8	6D16, 6A7, 85, 76, 84, 6A6.....	465	10-22
	Tone	101-39.....	22	MR39.....				.015.....		Buffer.....	B14				8	6K7, 6A8, 6R7, 6C5, 6V6, 0Z4.....	262.5	10-23
01020 (Ch. 881).....	Vol.	101-86.....	18	UM150-SS17				119-43.....	4	2S563.....		126-1	294	C3	8	6A8, 6K7, 6Q7, 6C5, 6U5, 6F6, 5Y3.....	465	10-24
01029 (Ch. 860).....	Vol.	101-97.....	18	MR53.....				103-6.....	4	RS213.....					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G.....	465	10-34
	Tone	101-98.....	22	MR44.....	M26			103-14.....	4	WE1830.....					5	6D8G, 6S7G, 6T7G, 6K6G, 6ZY5G.....	465	10-25
01030 (Runs 1, 2) (Ch. 582 Ser. A, B).....	Vol.	101-100.....	18	MK402.....	M26			119-48.....	4	2S567.....		126-6	850	C3	5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B.....	465	10-26
010211 (Ch. 602E).....	Vol.	101-77.....	18	MR53.....	M26			119-24B.....	4	SR633.....		126-6	850	C3	5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B.....	465	10-26
010219 (Run 1) (Ch. 415A).....	Vol.	101-56.....	56	MR53.....	M27			119-22.....	15	BB12.....					5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B.....	465	10-26
	Vol.	101-44.....	29	M6R.....				.008.....		Buffer.....	B14				5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B.....	465	10-26
	Tone	101-59.....	21	MR53.....				119-39.....	1	2S554.....					5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B.....	465	10-26
010219 (Run 2) (Ch. 415B).....	Vol.	101-56.....	56	MR53.....	M27			119-28.....	1	2N516.....		126-4	246	C3	4	1A6, 1F6, 1A4, 1F4.....	465	10-27
	Vol.	101-72.....	22	MR44.....				.005.....		Buffer.....	B14				4	1A6, 1F6, 1A4, 1F4.....	465	10-27
010219 (Runs 3, 4) (Ch. 489 Ser. A, Issue A, B).....	Vol.	101-91.....	18	O.....	7			119-28B.....	1	2N516.....		126-4	246	C3	4	6D8G, 6S7G, 6T7G, 6K6G.....	465	10-28
	Vol.	101-91.....	18	O.....	7			119-22.....	15	BB12.....					4	6D8G, 6S7G, 6T7G, 6K6G.....	465	10-28
	Vol.	101-91.....	18	O.....	7			.005.....		Buffer.....	B14				4	6D8G, 6S7G, 6T7G, 6K6G.....	465	10-28
010220 (Run 2) (Ch. 523B).....	Vol.	101-69.....	56	MR53.....	M26			119-22.....	19	BB12.....					5	1A4, 1A6, 30, 1G5G.....	465	10-33
010221 (Ch. 804).....	Vol.	101-66.....	18	MR48.....	M27			119-32.....	1	2N516.....		126-4	246	C3	6	6S7G, 6D8G, 6T7G, 6N5, 6I5G.....	465	10-31,32
	Tone	101-67.....	22	MR39.....				.005.....		Buffer.....	B14				6	6A8, 6K7, 6R7, 25L6, 25Z6, L49B.....	465	10-31,32
010222 (Ch. 602I).....	Vol.	101-77.....	18	MR53.....	M26			119-39.....	1	2S554.....					5	6A8, 6K7, 6R7, 25L6, 25Z6, L49B.....	465	10-26
015040.....	Vol.		6	MR21.....				40-10-20.....	1/15	3N534.....					4	6D6, 6F5G, 25L6G, 25Z5, 55A.....		10-35
015050.....	Vol.		18	UM154.....	M26		A96	40-10-20.....	1/15	3N534.....					5	6A7, 6D6, 75, 25L6G, 25Z5, BK49B.....	455	10-36
015060.....	Vol.		127	UM163.....			See Note	16, 16.....	9	BB24.....					6	6J8G, 6U7G, 6B6G, 25B6G, 25Z6G, 6U5, BK42C.....	455	10-37
	Vol.		124	UM163.....			See Note	30.....	9	See Note.....	B3				6	6J8G, 6U7G, 6B6G, 25B6G, 25Z6G, 6U5, BK42C.....	455	10-37
015070.....	Vol.		124	UM163.....			See Note	25.....	15	BB15.....					7	6J8G, 6U7G, 6I16, 6B6G, 25L6G, 6U5, 25Z6G.....	455	10-38-42
	Vol.		15	2 Meg.....			See Note	32-16-8.....	1/15	See Note.....	B3				7	6J8G, 6U7G, 6I16, 6B6G, 25L6G, 6U5, 25Z6G.....	455	10-38-42
015080.....	Vol.		15	2 Meg.....			See Note	25.....	1	WE3050.....					10	6A8G, 6U7G, 6J5G, 6I16, 6Q7G, 6U5, 6V6G, 5Y3G.....	455	10-39
	Vol.		15	1 Meg.....			See Note	20.....	1	WE1830.....					10	6A8G, 6U7G, 6J5G, 6I16, 6Q7G, 6U5, 6V6G, 5Y3G.....	455	10-39
015090.....	Vol.		15	1 Meg.....			See Note	30.....	24	WE3050.....					13	6B8G, 6A8G, 6U7G, 6J5G, 6I16, 6AE6G, 6AD6G, 6V6G, 5X4G.....	455	10-40-43
	Vol.		15	1 Meg.....			See Note	10/25.....	13/15	BB33/BB15.....					13	6B8G, 6A8G, 6U7G, 6J5G, 6I16, 6AE6G, 6AD6G, 6V6G, 5X4G.....	455	10-40-43
015100.....	Vol.	1012524126.....	18	UM161.....	M27		A96	1012118235.....	19	BB12.....					4	1A7G, 1N5G, 1H5G, 1A5G.....	455	10-44

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GOODYEAR—Continued																		
015110.....	Vol.	1012524124.	18	UM154.....	M26	.....	A96	1012118236. .004.	24	Order from Buffer.....	Mfr..... B14	34103.....	246	C3	4	6D8G, 6S7G, 6T7G, 6G6G.....	155	10-45
015120.....	Vol.	1022519789.	17	UM163.....	.....	.....	See Note	A96	1/15	3S579.....	B14	14840.....	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GH, 6G6G, 6A85.....	155	10-46
015130.....	Vol.	.....	18	UM154.....	.....	.....	See Note	A96	1/15	Buffer..... See Note..... Buffer.....	B14 B3 B14	.....	850	C3	6	6D8G, 6S7G, 6T7G, 6A85, 6G6G, 6ZY5G.....	455	10-49
015140, 015141.....	Vol.	.....	6	MR21.....	M26	.....	.....	.....	22/15	3N534.....	.....	.....	.....	.....	4	12K7GT, 12F5GT, 50L6GT, 35Z4GT.....	.....	12-5
015150, 015151.....	Vol.	1012524134.	18	UM154.....	M26	.....	.....	A96	1/15	3N534.....	.....	.....	.....	.....	5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT.....	155	12-7.8
100502 (Double Eagle) (Above Ser. 42,000).....	Vol.	101-109.....	18	TM238-SS18	M26	.....	.....	.....	4	2S568..... Buffer.....	B14	126-1.....	294	C3	6	6K7, 6A8, 6Q7, 6V6, 0Z4/6X5.....	465	10-47
101500 Wings Jr.....	Vol.	1012524119.	18	UM154.....	M26	.....	.....	A96	23	ST595..... Buffer.....	B14	34101.....	850	C3	5	6A7, 6D6, 6Q7G, 41, 81.....	456	9-7.8
101501 Wings All-Weather.....	Vol. Tone	1012524119. 1012426115.	18 22	UM154..... UM147.....	M26	.....	.....	A96	23	ST595..... Buffer.....	B14	34101.....	850	C3	6	6K7, 6A8, 6R7G, 6V6, 6X5G.....	262	9-9,10
101503.....	Vol. Tone	1012524120. 1012426116.	18 22	MR48..... MR48.....	M26	.....	.....	.....	4	2S558..... BB27.....	B12	.....	.....	.....	7	6A7, 6D6, 75, 25L6G, 25Z5, BM17C.....	156	9-11,12
103533.....	Vol. Tone	..... .....	18 22	UM154-SS22 M27	M27	.....	.....	.....	19	BB12.....	.....	.....	.....	.....	4	1A7G, 1N5G, 1A5G, 1H5G.....	155	10-50
GRAHAM-PAIGE																		
A355.....	Vol.	38425.....	15	UM162-SS14	.....	.....	.....	.....	1	2N518.....	.....	G7-38000.....	273C	.....	5	6D6, 6A7, 6B7, 76, 6B5.....	450	.....
GRAYBAR ELECTRIC CO.																		
GB4 (Graybarette).....	See RCA Model R5																	
GB8 (Midget).....	See RCA Model R7																	
GB8A.....	See RCA Model R7A																	
GB9.....	See RCA Model R11																	
GB100.....	See RCA Model R55																	
GB300.....	See RCA Model Rad. 16																	
GB310.....	See RCA Model Rad. 18																	
GB311.....	See RCA Model R33																	
GB320.....	See RCA Model Rad. 51																	
GB330.....	See RCA Model Rad. 60																	
GB340.....	See RCA Model R62																	
GB500.....	See RCA Model R34																	
GB550.....	See RCA Model R46																	
GB600.....	See RCA Model R66																	
GB678.....	See RCA Model R48																	
GB700.....	See RCA Model R80																	
GB770.....	See RCA Model R82																	
GB900.....	See RCA Model R86																	
GB989.....	See RCA Model R10																	
GC13.....	See RCA Model R16																	
GC14.....	See RCA Model R12																	
GG15.....	See RCA Model R6																	
GT7.....	See RCA Model R4																	
GT8.....	See RCA Model R8																	
GT8-56.....	See RCA Model R71																	
GT8-69.....	See RCA Model R72																	
GT10-69.....	See RCA Model R74																	
GT10-88.....	See RCA Model R76																	
GT10-99.....	See RCA Model R77																	
GREBE																		
AH1.....	Vol. Tone	..... .....	8 34	A1MP.....	6	.....	.....	.....	1	See Note..... See Note.....	B4 B9	.....	.....	.....	7	24, 27, 35, 80.....	.....	1-20
Challenger H1.....	Vol. Tone	..... .....	140 140	1 Meg. MR53.....	.....	.....	See Note	A19	40-25..... 10.....	1 15	2N514..... BB12.....	.....	.....	.....	6	6A7, 6D6, 76, 25L6, 25Z5, 6F5.....	156	.....
HS3.....	Vol. Tone	..... .....	6 22	GI2.....	6	.....	.....	.....	4	ST595.....	.....	.....	.....	.....	5	24, 35, 47, 80.....	175	3-1
HS4 1 Pentode.....	Vol. Tone	..... .....	7 22	E.....	6	.....	.....	.....	3	RS213.....	.....	.....	.....	.....	7	35, 24, 27, 47, 80.....	175	1-21,23
HS4 with 45PP.....	Vol. Tone	..... .....	6 22	F12.....	6	.....	.....	.....	3	RS213.....	.....	.....	.....	.....	8	24, 27, 35, 80.....	175	1-22
HS5.....	Vol. Tone	..... .....	7 22	E.....	6	.....	.....	.....	3	RS213.....	.....	.....	.....	.....	8	27, 35, 24, 37, 80.....	175	1-23
HS6.....	Vol. Tone	..... .....	15 22	N..... Y100MP.....	6	.....	See Note	A16	8, 8, 8.....	3	RS213.....	.....	.....	.....	10	27, 35, 37, 80.....	175	3-3
HS7.....	Vol. Tone	7 22	E.....	6	3	RS213.....	7	24, 27, 35, 47, 80.....	175	3-4
HS8.....	Vol. Tone	64 22	N..... L.....	6	26	RS213.....	8	35, 27, 47, 80.....	175	3-5

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
GREBE—Continued																		
HS11.....	Vol. Sil. Tone	45 12 34	N A5MP L	6	See Note	A14	6, 6, 6	3	RS213					11	435, 427, 447, 80, 24	175	4-5
HS12.....	Vol. Supp. Vol.	45 12 56	N A400MP N	6			8, 8, 8	3	RS213					11	427, 435, 24, 447, 80	175	3-6
61R.....	Vol.	.....	56	N				8-8 5 .025	1 15	2N518 BB12 Buffer		292	C3	6	6A7, 37, 41, 78, 84, 85	456	4-2,3
89.....	Vol.	.....	6	E12				8, 8	4	RS213				8	356, 358, 359, 80	175	4-4
111B.....	Vol. Supp. Vol.	.....	18 8	M UC500				16-8	35	RM265	B8			11	46, 55, 56, 58, 57, 82	175	4-1
428 Console.....	Vol.	.....	26	A3MP					1	See Note	B4			11	426, 27, 71A, 781, 750, 80		1-14
762.....	Vol. Tone Vol.	.....	140 140	1 Meg. MR53		See Note	A19	40-25 10, 10	1 15	2N514 BB12				6	6A7, 61D6, 76, 6F5, 25L6A, 25Z5	456	
782.....	Vol. Tone Vol.	.....	37 37	1 Meg. No. 1 MR53		See Note	A19	40-25 10, 10	6 15	2N514 BB12				6	6A7, 61D6, 6Q7G, 25L6, 25Z5, 6-141	456	9-11,12
GRIGSBY - GRUNO	W—See	Majestic																
GRUNOW †																		
2A (1101).....	Vol. Tone	.....	27971 28403	P O				27710 27711 27715	28 28 13/20	WE850 RS213 CM172				11	478, 6F7, 6B7, 85, 37, 45, 5Z3	262	4-17,21 5-20
4A (450, 451).....	Vol.	.....	29119	G12	6			29168 24789	1 15	CM172 CM172 BB12				4	6F7, 42, 84	455	5-1,2 7-1
4B (460, 461), 4BX (460X, 461X).....	Vol.	.....	31222	F7	6	3		31208	4	CM172				4	6A7, 6F7, 42, 80	455	5-3,7-2
4C (470).....	Vol.	.....	33407	F7	6	3		31208	4	CM172				4	6A7, 6F7, 41, 80	465/490	6-1,2
4NB (410, 411).....	Vol.	35120	M	6			35202 32987	1 15	CM172 BB12 Buffer		35211	245	C3	4	1A6, 1A4, 75, 41	465	8-1
5A (500).....	Vol.	.....	27834	O	6			.0075 27713 27712	1 1	RS213 RS213				5	6F7, 78, 75, 47, 80	455	4-1,2
5AB (508, 509).....	Vol.	39725	MR48	M27			27838 24789 39769	17 20 1	BB12 BB12 3S582	B8	39770	294	C3	5	61D8G, 6S7G, 6T7G, 41, 84	465	
5AD.....	Vol.	.....	39939	MR33	M26			32987 39941	15 1	BB12 Buffer 2N506	B14			4	61D6, 6C6, 25L6, 25Z5		
5B (501, 520, 530, 550).....	Vol.	.....	27163	N	6			27151	11/15	SR618				5	6F7, 25Z5, 43, 75, 78	455	6-3,4
5C (502, 503).....	Vol. Fil.	.....	26099 26098	G12 R										5	32, 30, 34, 33	455	4-5,6
5D (570, 571).....	Vol.	.....	31396	O	6			29562 27711	4 4	RS216 RS213				5	6A7, 6D6, 75, 42, 80	455	6-7,8
5E (560).....	Vol.	.....	31785	N	6			31477 24789	13 15	RS215 BB12				5	6A7, 6D6, 75, 42, 80	455	6-5,6
5G (580, 581).....	Vol.	.....	33300	TRP604	6			31849 31857 33369	1 15 4	2N518 TN111 RS215				5	6A7, 6D6, 42, 75, 80	465/490	6-9,10
5H (532).....	Vol.	.....	34733	E	6	2		33469 33371	4 14	RS216 ST587				5	6A7, 6D6, 76, 41, 80	465	8-24
5J (542).....	Vol.	.....	34624	M	6			32987 35181	15 4	BB12 RS215				5	6A7, 6D6, 76, 41, 80	465	8-24
5K (551, 553).....	Vol.	.....	35624	TRP623	6			34744 34813	4 4	RS215 RS215				5	6A8, 6K7, 6Q7, 6F6, 5W4	465	8-38
5L (555, 572).....	Vol.	.....	35649	TRP623	6			34669 33469	4 4	RS215 RS216				5	6A8, 6K7, 6Q7, 6F6, 5W4	465	8-3,4
5M (590).....	Vol.	.....	35119	M	6			33369 33469	4 4	RS215 RS216				5	6A8, 6K7, 6Q7, 6F6, 5W4	465	8-5,6
5N (592, 594).....	Vol.	.....	35119	M	6			35177	4	CM164				5	6A8, 6K7, 6Q7, 25A6, 25Z6	465	8-7,8
5NB (510).....	Vol.	.....	34941	MR44	M23									5	6A7, 61D6, 75, 43, 25Z5	465	9-4
5P (599).....	Vol.	.....	37576	TRP623	6									5	1A4, 1A6, 11B5, 33	465	8-2
5Q (573).....	Vol.	.....	35649	TRP623	6			33369 33469	4 4	RS215 RS216				5	6A7, 6D6, 75, 42, 80	465	9-3
5R (564).....	Vol.	.....	36404	E	6			33369 33469	4 4	RS215 RS216				5	6A8, 6K7, 6Q7, 6F6, 5W4	465	8-11,13
5S (566).....	Vol.	.....	36404	E	6	2		36350	4	2S567				5	6A7, 6D6, 76, 41, 80	465	8-9
5T (576, 578).....	Vol.	.....	36404	E	6			36350	4	2S567				5	6A7, 6D6, 76, 41, 80	465	8-10,11
5U (587, 589).....	Vol.	.....	37576	TRP623	6			36350 33369	4 4	2S567 RS215				5	6A7, 6D6, 76, 41, 80	465	9-1
5UA (585).....	Vol.	.....	37576	TRP623	6			33469	4	RS216				5	6A7, 6D6, 75, 42, 80	465	
5V (596, 598).....	Vol.	.....	39463	MR44	M26			39546	4	2S569				5	6A7, 6D6, 75, 42, 80	465	
5VB (544, 545).....	Vol.	.....	39302	MR48				36350	4	2S567				4	6A7, 6D6, 75, 41, 80	465	
5W (583, 585, 586, 588).....	Vol.	.....	38453	MR44	M26									5	1C6, 3A, 1F6, 33	465	
6A Early (650, 651).....	Vol. Tone	.....	29404 29406	TRP610 M	6			36350 29557 29086	4 4 4	2S567 CS133 RS216				6	6A7, 6D6, 75, 41, 80, 6F7, 6D6, 42, 75, 80	465 262	9-2 5,7-8 7-11

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous section.

† Rider references will be found under General Household Utilities.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
GRUNDY—Continued																			
6B (622)	Vol.	38083	18	MR44	M26			38608 38610 38709	23 23 13	RS207 RS207 2N500					5	6A8, 6K7, 6Q7, 25L6, 25Z5	465	9-5	
6C Early (660, 661, 662)	Vol. Tone	29404 29406	17 22	TRP610	6			29562 29557	23 23	RS216 CS133					6	6D6, 6A7, 75, 42, 80	262	5-9,10	
6D (670, 671)	Vol. Tone	30077 30078	17 22	O				30091	4/13 15/19						6	6D6, 6A7, 75, 42, 80	455	5-11,12	
6E (663)	Vol.	38994	18	TRP623	6			33369 33469	4 4	SR614 RS215 RS216					6	6K7, 6A8, 6Q7, 6F6G, 80	465	9-8	
6F (690, 691)	Vol. Tone	29623 29621	17 22	TRP608	6			30091	4/13 15/19	SR614 RS215 RS216					6	6D6, 6A7, 75, 42, 80	455	6-14	
6G (680, 681)	Vol.	33300	18	TRP604	6			33369 33469 33371 32987	4 4 14 15	RS216 RS216 ST587 BB12					6	6A8, 6K7, 6I16, 6F5, 6F6, 5Z4	465/ 490	6-15,16 7-15,16	
6H (632)	Vol.	38937	18	MR44	M26			33369 33469	4 4	RS215 RS216					6	6K7, 6A8, 6Q7, 6F6G, 80	465	9-7	
6HB (620, 621)	Vol.	33775	15	P	7			33943	12	WE825					6	1C6, 34, 30, 32, 19	465	7-6,8	
6J (640, 641)	Vol.	33300	17	TRP604	6			33369 33370 33371 33469 32987	4 4 14 15	RS215 WE1835 ST587 RS216 BB12					6	6A7, 6I16, 42, 75, 80	465/490	6-11,12 7-9,10	
6K (623, 627)	Vol.	37576	18	TRP623				38608 38610 38611	4 4 13	RS207 RS207 BB20					5	6A8, 6K7, 6Q7, 25L6, 25Z5	465	9-6	
6L (653)	Vol.	38614	18	TRP623	6			33369 33469	4 4	RS215 RS216					6	6A8G, 6K7G, 6I16G, 6F5G, 6F6G, 80	465		
6M (631, 643)	Vol.	35649	18	TRP623	6			33469	4	RS216					6	6A8, 6K7, 6Q7, 6F6, 5W4	465	8-17,18	
6N (654)	Vol.	37722	18	M	6			33369	4	RS215					6	6A8G, 6K7G, 6Q7G, 6F6G, 80	465	8-19,20	
6Q (624)	Vol.	38083	18	MR44	M26			38608 38610 38709	4 4 13	RS207 RS207 2N500					5	6A8, 6K7, 6Q7, 25L6, 25Z5	465	9-5	
7A (700, 701)	Vol. Tone	27419 27420	20 22	TRP610 M				27414	1	RS213					7	78, 37, 75, 42, 80	262	4-7,8	
7B (750, 751, 752, 753)	Vol. Tone	29536 29537	17 22	TRP610 Order from	6 Mfr.			29558	1	CS136					7	6D6, 6A7, 6F7, 75, 76, 42, 80	262	5-13,16	
7C (760, 761)	Vol.	33119	20	TM234-SS1				29562 31052 29559	1 23 23	RS216 CS133 CS133		B10							
7DB (720, 721)	Vol.	33775	15	P	7			33369 33371 33469	4 14 1	RS215 ST587 RS216					7	6K7, 6A8, 6I16, 6F5, 6F6, 5Z4	175/ 455	7-20,22	
7M (723, 731, 733, 735)	Vol.	35649	18	TRP623	6			33169	15	TN111					6	1C6, 34, 30, 32, 19	465	7-17,19	
7NB (711)	Vol.	35121	18	TRP608				33369 33469 35202	4 4 1	RS215 RS216 CM172			35211	245	C3	7	6A8, 6K7, 6Q7, 6F6, 5W4, 6F5	465	8-21,23
7Q (755)	Vol.	37722	18	TRP623	6			35154 35340 .0075	24 1 1	ST587 Order from Buffer	Mfr. B14								
8A (801)	Vol. Tone	27687 27646	17 34	TRP610 M	6			33369 33469	4 4	RS215 RS216					7	6K7G, 6A8G, 6Q7G, 6F6G, 80, 6G5	465	8-29,30	
8B (821)	Vol. Tone	27687 27646	17 22	O M	6			27414	1	RS213					8	78, 37, 85, 6B7, 42, 80	262	4-9,10	
8D (861)	Vol. Tone	31910 29537	17 22	TRP610 Order from	6 Mfr.			27413 29562 27668	1 23 15	RS213 RS216 BB12					8	6D6, 6A7, 76, 75, 42, 80	455	6-19,22	
8E (871)	Vol.	33119	17	TM234-SS1				29558 30152 33852	23 13 24	RS216 CS136 CS133					8	6K7, 6A8, 6I16, 6C5, 6F6, 5Z4	455	7-23,25	
8H (823, 831, 833, 835)	Vol.	33119	20	TM234-SS1				33598 33469 33371 32987	1 1 14 15	RS215 RS216 ST587 BB12					8	6K7, 6A8, 6I16, 6F5, 6F6, 6F5, 5Z4	455	8-31,34	
9A Early (901, 902)	Vol. Tone	27645 28316	17 41	TRP610 O	6			27710 27711 27670 28400	1 1/23 14/15 1	WE850 RS213 RM262 RM262					9	78, 37, 85, 45, 6B7, 80	262	4-11,12	

‡ Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
GRUNOW—Continue																		
9A (901, 902) Revised	Vol. Tone	27645 28316	17 41	TRP610 O	6			27710 28400 27670	1 24 14/15	RS213 RM262 RM262					9	78, 37, 61B7, 85, 745, 80	262 5-19	
9B (1101)	Vol. Tone	27971 28403	1 41	P O				27710 27711 27715 27710 27711	1 1 24 28 28	WE850 RS213 CM172 WE850 RS213					11	78, 6F7, 6B7, 85, 37, 745, 5Z3	262 4-17, 21 5-20	
9C (921)	Vol. Tone	27687 28316	17 41	TRP610 O	6			27710 27711 29562 27670 24789 33852 33598 33469 33371 32987	28 28 28 14/15 15 24 1 1 14 15	WE850 RS213 RS216 RM262 BB12 RS215 RS215 RS216 ST587 BB12				9	78, 6A7, 85, 37, 76, 745, 80	262 7-26		
9E (941)	Vol.	33119	20	TM234-SS1				36752 36720 36721	1 1 14	WE3050 WE3035 RS215					9	6K7, 6A8, 6116, 6C5, 6F6, 6E5, 5Z4	455 8-35, 37	
10D (1067)	Vol. Tone	36727 38074	20 20	TM234-SS1 TM236-SS1	M26 M26		A4	36752 36720 36721	1 1 14	WE3050 WE3035 RS215					10	6K7, 6A8, 6116, 6C5, 6F6G, 5Z3	465 9-9, 10	
10G (1091)	Vol.	38267	20	TM234-SS1	M26			36752 36720 36721	1 1 14	WE3050 WE3035 RS215					10	6K7, 6A8, 6J7, 6116, 6N7, 6F6G, 5Z3	465 9-11, 12	
11A Type 1 (1151, 1152)	Vol. Tone	29626 29627	17 41	O N	6			27710 27711 27715 29632 24789	1 1/23 14/19 13 15	WE850 RS213 CM172 CS133 BB12					11	6D6, 6A7, 476, 85, 745, 5Z3	262 5-17, 18 6-23, 26	
11A Type 2 (1151, 1152, 1161, 1162)	Vol. Tone	29626 29627	17 41	O N	6			31743 31629 27715 29632 24789	1 1/23 14/19 13 15	WE1250 WE1835 CM172 CS133 BB12					11	6D6, 6A7, 476, 85, 745, 5Z3	262 6-27, 28	
11B (1151, 1152, 1161, 1162)	Vol. Tone	29626 29627	17 41	O N	6			31743 31629 27715 29632 24789	28 28 4/19 13 15	WE1250 WE1835 CM172 CS133 BB12					11	6D6, 6A7, 476, 85, 745, 5Z3	262 6-27, 28	
11C (1171)	Vol.	33265	17	TRP608				31743 31629 27715 29632 24789 33645 33768 34466 33371 33169 33646	28 28 4/19 13 15 3 3 3 13 15 19	WE1250 WE1835 CM172 CS133 BB12 WE850 RS215 RS216 ST587 TN111 BB11					11	6K7, 6A8, 6116, 6C5, 6F5, 6F6, 5Z4	455 7-27, 30 5-17	
11G (1191)	Vol.	36727	17	TM234-SS1	M26			36719 36752 36720 36721	46 46 46 46	WE2050 WE3050 WE3035 RS215					11	6C5, 6K7, 6A8, 6116, 6C5, 6F6, 5Z3	465 8-41, 43	
11H (1181, 1183, 1185)	Vol.	38267	20	TM234-SS1	M26			36752 36720 36721	1 1 14	WE3050 WE3035 RS215					11	6K7, 6A8, 6J7, 6116, 6C5, 6L6G, 5Z3	465 9-13, 14	
12A (1241)	Vol.	33265	20	TRP608				33947 33946 34466 33646 33169	33 33 33 33 15	WE850 WE1250 RS216 BB11 TN111					12	5Z4, 6A8, 6C5, 6F5, 6F6, 6116, 6K7	455 7-31, 33	
12B (1291), 12W (1297)	Vol. Vol.	36728	18 18	TM234-SS1 M	M26 6		A4	36752 36720 36721 33371 33169 36776	46 46 46 14 15 15	WE2050 WE3050 RS215 ST587 TN111 BB12					12	6K7, 6A8, 6J7, 6C5, 6116, 6L6, or 6F6, 5Z3	465 7-34, 36 8-44, 46	
15W (1541)	Vol.	36503	18	TRP608				36290 36596 34466 36597 33646	31 31 31 14 19	HS690 WE1250 RS216 BB22 BB11					15	6K7, 617, 6J7, 6116, 6R7, 6C5, 6F6, 5Z4	455 7-37, 42	
99 and 99A	Vol.		6	G12				8-4	1	2N518					5	24, 35, 47, 80	175	
513	Vol.		6	Y				1-12-4		UR182					5	6F7, 78, 75, 43, 25Z5	455	
614-618	Vol.	34003	18	TM241-SS12				33390 .005	1/15	4S718 Buffer		35133	294	C3	6	6K7G, 6A8G, 6Q7G, 6F6G, 6X5G	262 8-14, 16	
625	Vol. Tone	34003 34242	17 22	TM241-SS12 MR53				34119	1/15	4S718		35312	2731D		6	6K7G, 6A8G, 6R7G, 6C5G, 6A6	262 8-15, 16	
GULBRANSEN—See	Wells-Gardner																	

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HALLICRAFTERS																		
DD1.....	Vol. AF	25-038	1	N	6			42-022	1	RS216				25	6J5G, 6K7, 6L7, 6116, 6J7, 6K6, 1851, 2A3, 5Z3	455	10-1-6	
	Tone	25-037	22	L				42-019	1	RS216								
	Vol. AF	25-038	16	M	6			42-007	13	BB62								
	RF							45-012	1	BB21								
	Meter	25-122	7	A3MP				42-025	15	BB15								
	RF Bal.	25-033	1	Order from Mfr.				42-023	15	BB25								
	Phase Adj.	22-068	1	A20MP		See Note A68		42-007	13	BB62								
	Meter							42-003	15	BB13								
	Adj.	22-026	8	A550P		See Note A68												
H8PA.....	Vol.		18	500M No. 1		See Note A19		8-8	22	2N518				8	6K7, 6A7, 75, 76, 6G5, 80	465	8-2	
	Tone		22			See Note A3		10, 10	15	BB12								
S9, SK9.....	Vol.	2502	45	500M No. 1		See Note A19		4210	1	ST575				9	6K7, 6L7, 6116, 6F5, 6C5, 6F6, 5Z4	156	7-5-6	
	Tone	2503	22	UM160-SS1				4200	15	BB12								
	Gain	2500	7	UC501														
S10 "Ultra Sky Rider".....	Vol.	2512	140	500M No. 1		See Note A19		4216	1	RS216				10	6K7, 6L7, 6C5, 6R7, 6J7, 6Q7, 6F6, 5Z4	1600	9-1-3	
	Tone	2513	140	1M160-SS1	M26			4203	15	BB13								
	Sil.	2511	8	UC501														
	BFO.	2514	1	N														
S11 (Super Sky rider 1937).....	Vol.		18			See Note A19		16, 16	1	ST597				11	6K7, 6L7, 6C5, 6G5, 6R7, 6L6, 5Z3	465	8-3-4	
	Tone		22			See Note A3		10	15	BB12								
	Gain		7	UC501														
S12 (Commercial Sky rider).....	Vol.		18			See Note A19		16, 16	1	ST597				11	6K7, 6L7, 6C5, 6G5, 6R7, 6L6, 5Z3	1600	8-6	
	Tone		22			See Note A3		10	15	BB12								
	Gain		7	UC501														
S14 (Sky Chief).....	Vol.		18	MR48				12	4	ST596				7	6D6, 6A7, 6F7, 75, 615, 80, 6G5	465	8-8	
	Tone		57	MR48				8	4	ST595								
	Gain		7	UC501														
S15 (Sky Challenger).....	Vol.		18	MR48				16	1	ST597				9	6K7, 6L7, 6C5, 6Q7G, 6F6G, 80	465	8-9	
	Tone		57			See Note A3		10	15	BB12								
	Gain		7	UC501														
S19R (Sky Buddy).....	Vol.		17	MR53				10-10-10-10	1/13/15	FPQ434				6	6K8G, 6K7G, 6Q7G, 41, 76, 80	455	10-7-9	
S20 (Sky Champion).....	Vol.	25-031	17	N				42-021	1/15	3S579				8	6L7, 6K7, 6Q7, 6F6, 80, 6J5	455		
	Tone	25-028	57	N	6													
	RF Gain	25-029	7	Order from Mfr.														
S20R.....	Vol.		17	MR48				30-10-10-10	1/13/15	FPQ429				9	6SK7, 6K8, 6SQ7, 6116, 6J5GT, 6F6G, 80	455	11-1-3	
	RF Gain		7	Order from Mfr.														
S22 (Sky rider Marine).....	Vol.	25-041	18	MR48				42-026	1	RS208				7	6K7, 6L7, 6J5, 6Q7, 2516, 25Z5	465	9-4-6	
	Tone	25-040	57	MR48				42-025	15	BB15								
	Gain	25-039	7	MR29														
S22R (Sky rider Marine).....	Vol.		17	MR48				40-40-30	1/13	FPT357				8	6SK7, 6K8, 6SQ7, 2516, 6J5, 25Z5	1600	12-1-2	
	Tone		57	MR48				10	15	BB12								
	RF Gain		7	MR28														
S27.....	Vol.		56	MR48				30-10-10-20	3/15	FPQ429				15	956, 954, 1852, 1853, 6SK7, 6116, 6C8G, 955, 6J5, 5Z3, VR150, 6V6	5.25mc.	12-3-5	
	RF Gain		7	MR19				30, 30	15	BB17								
	Zero Adj.		1			A3												
S29 (Sky Traveller).....	Vol.		18	MR48				60-60	1					9	1T4, 1R5, 1P5GT, 1H5GT, 3Q5GT, 1G4GT, 50Y6GT	455	12-11-12	
	RF Gain		12	MR50				60-100-40	78/13									
S30 (Radio Compass).....	Vol.		17	MR48				8-8	1	2N518		R21	725	C3	6	6SK7, 6K8, 6SQ7, 6C6G, 6U5	175	12-13-15
	RF Gain		7	Order from Mfr.				30-30	1	2N513								
								10	15	BB12								
								.01		Buffer								
SX16 (Super Sky rider 1938).....	Vol.	25-023	37	1 Meg. No. 1		See Note A19		42019	1	RS216				11	6K7, 6L7, 6J5, 6J7, 6R7, 6V6, 5Z3	465	8-11-12	
	Tone	25-013	37	MR53	M26			42002	15	BB12								
	Meter	25-022	7	A550P														
	B.F.O.	25-024	1	MR48	M26													
	Sen.	25-021	7	E	6													
SX17 (Super Sky rider).....	Vol.	25-023	37	1 Meg. No. 1		See Note A19		42019	1	RS216				13	6K7, 6L7, 6J5G, 6R7G, 6V6G, 6J7, 6J7G, 6J5, 5Z3	465	9-7 to 11	
	Tone	25-013	37	MR53	M26			42002	15	BB12								
	B.F.O.	25-024	1	MR18	M26													
	Meter	25-022	7	A550P	6													
	Gain	25-021	7	E	6													
SX23.....	Vol.		15	N				16, 16	1	RS216				11	6SK7, 6SA7, 6SQ7, 6SJ7, 6F6, 6B8, 6116, 80	455	10-11-14	
	Tone		21	N	6			20	15	BB15								
	Sen.		7	Order from Mfr.														
	Meter		26	A550P														
SX24.....	Vol.		17	N	6			30-10-10-10	1/13/15	FPQ429				9	6SK7, 6K8, 6SQ7, 6116, 6F6, 76, 80	455	10-15	
	Sen.		7	Order from Mfr.														
	Meter		26	A550P		See Note A68												

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Slider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HALLICRAFTERS— SX25(SuperDefiant)	Continued																	
	Vol. RF Gain		17	MR48				30-10-10-10	1/13/15	See Note	B3				12	6SK7, 6K8, 6J5GT, 6SQ7, 6F6GT, 80, 6116	455	11-4-6
	Vol. Tone		15	MR48				30-30-40	1/15	See Note	B3				15	6SK7, 6SA7, 6L7, 6118, 6116, 6J5, 6SC7, 6V6GT, 5Z3	455	12-7-10
	RF S Meter A.N.L.		7	Order from Mfr.	M26			10-10	13/15									
5PA "Sky Buddy" 5T (Sky Buddy)	Vol.		18	MR31				4214	23	RM261	B3				5	6A7, 6F7, 75, 42, 80	465	8-1
	Vol.		18	MR48				8	23	ST595					5	6A7, 6F7, 75, 42, 80	465	8-1
HALSON "Dual Range"	Vol. Tone		7	G				8, 8	4	RS213	B3				6	35, 24, 47, 80		3-2
	Vol.		22	O				8-8	1	2N518		220B			5	6A7, 78, 75, 42, 84	456	4-5
"Roadmaster"	Vol.		15	N				5	15	BB12					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT, L19B		9-1
A-5	Vol.	2280C	6	MR29	M26			2575	1/15	3N525					4	6K7GT, 6K7GT, 607GT, 25L6GT, 25Z6GT		9-1
A5S	Vol.	1845-8	18	MR48	M26			2561	1	2N506					5	6K8GT, 6K7GT, 607GT, 25L6GT, 25Z6GT	456	10-6
AW6	Vol.	1555	45	M		6		1572	23	2P552					6	6A7, 6D6, 6116, 6J7, 43, 25Z5, or 6A7, 61D6, 76, 6C6, 43, 25Z5	456	7-2
C-6	Vol.	1845A	18	MR48	M26			2444A	23	2P553					5	6A7, 6D6, 75, 25L6G, 25Z5, L42D	456	9-1
MA63	Vol. Tone	1585	45	M				1591	25/13	3S584					6	6A8, 6K7, 6116, 6J7, 6F6, 5Y3	456	7-8
MG5	Vol.	1616	22	Y				16-8-5-5	6/15	4S715					4	6K7, 6J7, 43, 25Z5, 55A1		7-1
NS40	Vol.		6	UC509		6	EX150	4-16-4	8	UR193					4	78, 77, 43, 25Z5		1-3
NS50	Vol.		7	G		6	1	4-16-8	8	UR193					5	6A7, 78, 75, 43, 25Z5	456	4-3
NS60	Vol.		7	G		6	2	4-16-16	8	UR182					6	78, 6A7, 75, 43, 25Z5	456	4-3
S5	Vol.	1845-8	18	MR48	M26			2561	1	2N506					5	6K8GT, 6K7GT, 607GT, 25L6GT, 25Z6GT		10-6
5L-E	Vol.	1748	6	†			See Note A5	16-12-4-5-5	24/15	4S715/BB20					4	6D6, 6C6, 43, 25Z5, L19B		7-1
6L6	Vol.	1811	45	M				1652	25	RS213					7	6A7, 6D6, 76, 6C6, 615, 42, 80	456	7-3
10	Vol.	1908D-10	18	MR48	M26			1835	25/13	2N518					5	6A7, 6D6, 75, 25L6G, 25Z5, L42B	456	9-2
20	Vol.	1908E	18	MR48	M26			40	23	BB27					6	6A7, 6D6, 76, 6F5, 41, 80	456	9-3
20A	Vol.		6	G7		6	1	16	23	BB24					6	6A7, 6D6, 76, 6F5, 41, 80	456	9-3
20B, 20B "European"	Vol.		7	G		6	1	2353	25/13	RS216					6	6A7, 6D6, 76, 6F5, 41, 80	456	9-3
25	Vol.	1908D-2	18	N		6		2308-2	25/13	2N518					5	78, 77, 43, 25Z5		4-1
30	Vol.	1908-30	17	MR48	M26			8-4	6	2N502					5	6A7, 78, 77, 43, 25Z5	456	4-1-2
35	Vol.	1908D-2	18	N		6		5	15	BB12					5	6A7, 78, 77, 43, 25Z5	456	4-1-2
40A1	Vol.	1908-D-10	18	MR48	M26			2263	23	2P552					5	6A7, 6D6, 75, 43, 25Z5	456	8-1
40B2X	Vol.	1908E	45	MR48	M26			2634	11	TN129					6	6A7, 6D6, 75, 25L6G, 25Z5, L15B	456	9-4
40C3X	Vol.	1908-D-3	15	MR48	M26			2270	23	RS213					5	6A7, 6D6, 75, 41, 80	456	8-2
45	Vol.	1105	6	SRP263		6		2271	23	WE825					5	6K8G, 6K7G, 607G, 25L6G, 25Z6G, L42B	456	11-2
50S	Vol.	1542	18	M		6		2612	23	2P553					5	6K8, 6D6, 76, 6F5, 41, 80	456	11-3
50X	Vol.	1970	18	N		6		2353	25	RS216					6	6A7, 6D6, 76, 6F5, 41, 80, 605	456	11-4
52	Vol.	1209	6	SRP263		6		2308-2	25/13	2N518					6	6D6, 6C6, 43, 12Z3		6-1
51	Vol.	1209	6	SRP263		6		2308-2	1/13	2N518					5	6A7, 6K7, 75, 43, 25Z5	456	7-4
60L	Vol.	1811	18	M		6		2369	15	BB15					5	6A7, 6K7, 75, 43, 25Z5, L42B	456	7-5
60M	Vol.	1811	18	M		6		1408	6/15	UR189	B9B				4	6D6, 6C6, 41, 76, 80		6-1
66AW	Vol.	6601	8	†			See Note A5	1533	10	2P552					5	6D6, 6C6, 43, 25Z5, 76		6-2
								1818	6/15	TN127					6	6A7, 6D6, 75, 43, 6E5, 25Z5	456	7-7
								1437	25	BB61					5	6A7, 6K7, 75, 43, 25Z5, L42D	456	7-6
								1440	38	2P546					5	6A7, 6D6, 75, 43, 25Z5	456	7-7
								6606	8	UR182					6	6A7, 6D6, 75, 43, 25Z5	456	6-3
								6611	15	BB11					6	6A7, 6D6, 75, 43, 25Z5	456	6-3

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HALSON—Continued																		
100, 100M.....	Vol.	1952.....	18	N.....				1961.....	6/15	TN127.....				5	6A7, 6D6, 75, 43, 25Z5 (L42B)	456	7-9	
102.....	Vol.	1908D-2.....	18	N.....	6		2302.....	6	2N514.....				5	6A7, 6D6, 75, 25L6G, 25Z5	456	8-3		
103.....	Vol.	1908D-2.....	18	N.....	6		2302.....	15	BB12.....				6	6A7, 6D6, 75, 6C5, 25L6G, 25Z5	456	8-3		
104.....	Vol.	1908D-2.....	18	N.....	6		10.....	6	2N514.....				6	6A7, 6D6, 75, 6C5, 25L6G, 25Z5	456	8-3		
106.....	Vol.	1908D-2.....	18	N.....	6		1652.....	25	RS213.....				6	6A7, 6D6, 76, 6F5, 41, 80	456	8-4		
161.....	Vol.	2202-2A.....	98	E.....	6	A14	2308-2.....	25/13	RM261.....				7	6A7, 6D6, 76, 6C5, 6F5, 41, 80	456	8-4		
162.....	Vol.	2202-2A.....	98	E.....	6	A14	1652.....	25	RS213.....				4	6A7, 6C6, 25L6G, 25Z5, L49D	456	8-5		
163.....	Vol.	1845A.....	18	MR48.....	M26		2412.....	23	2P552.....				5	6A7, 6C6, 25L6G, 6E5, 25Z5, L42D	456	8-5		
310.....	Vol.	1908D-3.....	45	MR48.....	M26		2444A.....	23	2P553.....				5	6A7, 6D6, 75, 25L6G, 25Z5, L42D	456	9-1		
410.....	Vol.	1289.....	6	SRP263.....	6	EX300	2444-1.....	23	2P553.....				10	6A7, 6D6, 6C5, 6F5G, 25L6G, 376	456	8-6		
412.....	Vol.	1908-D-3.....	18	MR48.....	M26		1194.....	25	BB61.....				4	6D6, 6C6, 42, 80	456	5-1		
							2302.....	63	2N514.....				7	6A7, 6D6, 75, 25L6, 6C5, 25Z5	456	9-5		
							2357.....	63	ST587.....									
							10.....	15	BB12.....									
515.....	Vol.		6	G12.....			8.....	4	ST595.....				5	35, 24, 47, 80		3-1		
515SW.....	Vol.		6	G12.....	6		6.....	4	ST595.....				5	35, 24, 47, 80		3-1		
516.....	Vol.		3	G12.....	6		8.....	4	ST595.....				5	39, 38, 333		3-3		
520.....	Vol.	1209.....	6	SRP263.....	6		6.....	4	ST595.....				5	6A7, 6D6, 6C6, 42, 80	456	5-2		
530.....	Vol.	1209.....	6	SRP263.....	6		1320.....	7	3S582.....				5	6A7, 6D6, 6C6, 43, 12Z3	456	5-3		
535.....	Vol.	1209.....	6	SRP263.....	6		1392.....	38	UR190.....				5	6A7, 6D6, 6C6, 43, 12Z3	456	5-3		
536.....	Vol.	1908.....	18	N.....	6		1921.....	1	RS213.....				5	6A7, 6K7, 75, 41, 80	456	6-4		
580.....	Vol.	1366.....	6	SRP263.....	6		1914.....	1	RS213.....				5	6A7, 6K7, 75, 41, 80	456	7-10		
606.....	Vol.	1908A.....	45	MR48.....			1381.....	27	2P544.....				5	6A7, 6D6, 6C6, 43, 12Z3	456	6-5		
610.....	Vol.	1072.....	18	N.....	6		1652.....	25	RS213.....				7	6A7, 6K7, 6F5, 76, 42, 80, 6E5	456	9-6		
612.....	Vol.	1908D-3.....	45	MR48.....	M26		1835.....	25	ST595.....				6	6A7, 6D6, 75, 42, 80	456	5-4		
							1088.....	1/13	3S584.....				9	6A7, 6D6, 76, 6C5, 6F5, 41, 80	456	9-7		
							2353.....	1	RS216.....									
							2308-2.....	1	RM261.....									
							2369.....	15	BB15.....									
620, 630.....	Vol.	1240.....	18	L.....	6		1230.....	38	UR190/BB20.....				6	6A7, 6D6, 75, 43, 25Z5	456	5-5,6		
711.....	Vol.	1908D-3.....	45	MR48.....	M26		2444-1.....	23	2P553.....				10	6A7, 6D6, 6C5, 6F5G, 25L6G, 376	456	8-6		
770 AW.....	Vol. Tone		17	M.....				1	See Note.....	B3			7	56, 57, 58, 2A6, 2A5, 80	456	6-6		
770 AW (Late).....	Vol. Tone		22	P.....									7	57, 56, 58, 2A6, 2A5, 80	456	9-8		
1200.....	Vol.	2166.....	18	MR48.....	M26		8, 8.....	1	ST595.....				7	57, 56, 58, 2A6, 2A5, 80	456	9-8		
							2061-1.....	3	RS207.....				11	6K7, 6L7, 6J5, 6C5, 6R7, 25N6, 25Z6, L85CC	456	9-10		
							2186-1.....	3	2N513.....									
							2061-1.....	12	RS207.....									
							2172.....	15	BB12.....									
1900.....	Vol.	2047.....	18	MR44.....	M26		2601-1.....	3	RS207.....				18	6K7, 6L7, 6J5, 6C5, 6116, 6C5, 25A6, 25Z6, L75CC	456	9-9		
							2059-1.....	1/3	TN127.....									
							2070-1.....	1	RS207.....									
							2062.....	15	3-BB12.....									
HAMMARLUND MF C. CO.																		
"Comet Pro" Battery.....	Vol. Tone		7	H.....									7	477, 78, 42	465			
"Comet Pro" Dec. 1931.....	Vol. Tone		22	Y.....	6								7	477, 78, 42	465			
"Comet Pro" July 1932.....	Vol. Tone		7	H.....			8, 8.....	1	RS213.....				8	24A, 35, 47, 80, 27	465	3-1		
"Comet Pro" Sept. 1932.....	Vol. Tone		34	L.....	6		8.....	16	BB12.....				8	24A, 35, 80, 27	465	3-1		
"Comet Pro" Oct. 1932.....	Vol. Tone		7	H.....			8, 8, 8.....	3	RS213.....				8	24A, 35, 80, 27	465	3-1		
"Comet Pro" Feb. 1933.....	Vol. Tone		34	Y.....	6		8.....	15	BB12.....				8	257, 58, 47, 80	465	3-2		
"Comet Pro" Standard Model.....	Vol. Tone		7	H.....			8, 8, 8.....	3	RS213.....				8	257, 58, 47, 80	465	3-2		
"Comet Pro" (Crystal).....	Vol. Tone		34	G12.....	6		8.....	19	BB12.....				8	257, 58, 47, 80	465	3-2		
							8, 8, 8.....	3	RS213.....				8	257, 58, 2A5, 80	465	2-1		
							8.....	18	BB12.....				8	257, 58, 2A5, 80	465	2-1		
							8, 8, 8.....	3	RS213.....				8	257, 58, 2A5, 80	465	4-1, 4		
							8.....	19	BB12.....				8	257, 58, 2A5, 80	465	4-1, 4		
							8, 8, 8.....	3	RS213.....				8	257, 58, 2A5, 80	465	4-1, 4		
							8.....	19	BB12.....				8	257, 58, 2A5, 80	465	4-1, 4		
							8, 8, 8.....	3	RS213.....				8	257, 58, 2A5, 80	465	4-1, 4		
							8.....	19	BB12.....				8	257, 58, 2A5, 80	465	4-1, 4		

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HAMMARLUND—Continued																		
"Comet Pro" AVC Model	Vol. Gain		15	M				8, 8, 8	3	RS213					9	657, 458, 2B7, 2A5, 80.	465	5-1,2
Super Pro	A.F.	3889	18	M		6		8	19	BB12				16	6D6, 6A7, 6C6, 6B7, 76, 42, 5Z3, 1V	465	7-1,4	
	I.F.	3891	9	K				3833	3/14	118690								
	R.F. Tone	3890	9	O				3832	1	ST597								
SP110 Series	Vol. Sen.	3888	31	K12				3832	2/14	ST597				16	6L7, 6J7, 6K7, 6D6, 6B7, 6C6, 6C5, 6F6, 5Z3, 80	465	9-1,4	
	I.F. Sen.	4816	45				See Note A3	3834	1	3S584								
HQ120X	Vol. Sen.	6095	15	N		6		3835	15	BB19				12	6S7, 6K8, 6F6, 6H6, 6SF5, 6V6, 6J7, 5Z4G, VR150	455	10-1	
	I.F. Sen.	6096	7	G				6085	3	See Note	B3							
HQ120X (Late)	Vol. Sen.		15	N		6		6171	15	BB17				12	6K8, 6S7, 6F6, 6Z7G, 6P8G, 6SF5, 6V6G, 6J7, VR150, 5V4G	455	12-1	
	I.F. Sen.		7	G							B3							
HARRIS																		
100A	Vol. Tone		63	MR48	M26			8, 8	1	ST595		M26		4	6C5, 6F6, 5Z4			9-4
500	Vol. Tone		41	MR39										7	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	8-1	
	Vol. Tone		75	MR48	M26			8-8	4	2S567				7	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	8-2	
501W	Vol. Tone		41	MR39										7	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	8-1	
	Vol. Tone		75	MR48	M26			8-8	4	2S567				7	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	8-1	
600	Vol. Tone		41	MR39										7	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	8-1	
	Vol. Tone		75	MR48	M26			8-8	4	2S567				7	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	8-1	
700	Vol. Tone		41	MR39										7	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	8-1	
	Vol. Tone		75	MR48	M26			8-8	4	2S567				7	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	8-1	
701W	Vol. Tone		41	MR39										7	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	8-2	
	Vol. Tone		75	MR48	M26			16-16-8	63	TN127				7	6A8, 6K7, 6H7, 25A6, 25Z6	465	8-3	
800	Vol. Tone		18	MR48	M26									7	6A8, 6K7, 6H7, 25A6, 25Z6	465	8-3	
	Vol. Tone		41	MR39										7	6A8, 6K7, 6H7, 25A6, 25Z6	465	8-3	
900	Vol. Tone		75	MR48	M26			8-8	4	2S567				7	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	8-2	
	Vol. Tone		41	MR39										7	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	8-2	
1000	Vol. Tone		18	MR48	M26			16-16-8	63	TN127				7	6A8, 6K7, 6H7, 25A6, 25Z6	465	8-4	
	Vol. Tone		41	MR39										7	6A8, 6K7, 6H7, 25A6, 25Z6	465	8-4	
1201W	Vol. Tone		75	MR48	M26			8-8	4	2S567				7	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	8-2	
HEIRO																		
6 Tube AC	Vol. Tone		17	N		6		8	4	RS213				6	6D6, 6A7, 6B7, 42, 80	456	6-11	
6 Tube AC-DC	Vol. Tone		34	K12				10	15	BB12								
	Vol. Tone		17	N		6		30	4	WE3050				6	6A7, 6D6, 6B7, 43, 25Z5	456	6-12	
8 Tube Superhet	Vol. Tone		34	K12				C2092	6/15	3N528								
	Vol. Tone		15	P				10	15	BB12				8	2A7, 458, 55, 56, 2A5, 80	456	6-13,14	
9 Tube Air Ace	Vol. Tone	S341N	18	N		6		604	3	RM262				9	6D6, 6A7, 85, 42, 80, 76	456	6-15,16	
	Vol. Tone	TC900	44	K12				490	15	BB12								
9 Tube Air Ace (Rev.)	Vol. Tone	S341N	18	N		6		30	1	WE3050				9	6K7, 6A8, 6R7, 6C5, 6H5, 5Z3	456	7-4	
	Vol. Tone	TC900	22	K12				14	1	RS216								
6 LB, 6 SB	Vol. Tone	734	18	N				10	15	BB12				6	1C6, 34, 1B5, 330	456	6-4	
	Vol. Tone	735	21	O				24	4	BB26				5	6A8, 6K7, 6Q7, 25A6, 25Z6	456	7-1	
F9 to F12	Vol. Tone		17	N				16	4	BB24								
	Vol. Tone		80	500M No. 1		See Note A19		30	4	WE3050				6	6A8, 6K7, 6Q7, 6F6, 80	456	7-2	
F13 to F20	Vol. Tone		80	N				16	4	RS216								
	Vol. Tone		80	N				10	15	BB12								
F21 to F28	Vol. Tone		37	500M No. 1		See Note A19		24	27	BB26				6	6A8, 6K7, 6Q7, 25A6, 25Z6	456	7-3	
	Vol. Tone		37	N				16	27	BB24								
H47, H48	Vol. Tone	215	18	MR48				1703	23	2S567				6	6A8, 6D6, 6Q7, 41, 6G5, 80	465	9-12	
	Vol. Tone	304A	34			See Note A3												
H61, H62	Vol. Tone	1211962	18	MR44	M26			1211445	25	RS216				5	6A8G, 6K7G, 6Q7G, 6K6G, 5V4G	456	9-1	
	Vol. Tone	1211398	57	MR48				1211444	25	RS216								
HP61, HP62	Vol. Tone	1211962	17	MR44	M26			1212000	13	BB40				5	6A8G, 6K7G, 6Q7G, 6K6G, 5V4G	456	9-1	
	Vol. Tone	1211398	21	MR48				1211445	25	RS216								
H63, HP63	Vol. Tone	1211396	75	TRP623	6			1211972	25	RS216				8	6A8, 6K7, 6H6, 6F5, 6G5, 6L6, 5V4G	456	9-3	
	Vol. Tone	1211398	57	MR48				1211870	25	RS213								
H64, HP64	Vol. Tone	1211396	75	TRP623	6			1211455	19	BB12								
	Vol. Tone	1211398	57	MR48				1211931	13	WE825								
HA67	Vol. Tone		18	UM154			A96	8-8	1	2N518			See Note	C8	6	6D6, 6L7, 76, 6B5, 75	465	9-5
	Vol. Tone		22	UM144			A96	.005		Buffer								

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HETRO—Continued H45, HP85	Vol. Tone	1211936	45	TM220-SS1 MR48				1211972	25	RS216				8	6K7, 6A8, 6H6, 6F5, 6L6, 6C5, 5V4G	456	9-7	
		1211398	57					1211870	25	RS213								1211931	13	WE825
H87, HP87	Vol. Tone	1211396	75	TRP623 MR48	6			1211455	19	BB12				7	6A8G, 6K7G, 6H6, 6F5G, 6F6, 6G5, 5Z4	456	9-9	
		1211398	57					1211441	25	RS216								1211445	25	RS216
H93, HP93	Vol. Tone	1211936	75	TM220-SS1 MR48				1212000	13	BB40				8	6K7, 6A8, 6H6, 6G5, 6F5, 6L6, 5V4G	456	9-7	
		1211398	57					1211972	25	RS216								1211870	25	RS213
22	Vol. Tone		6	H12		EX200		1211931	13	BB40				8	58, 57, 47, 56, 80	115	6-1	
			22					8-8	1	See Note								B3
31	Vol. Tone		77	Y				8-8	1	See Note	B3			8	57, 58, 55, 47, 80	175	6-2	
			44															
71	Vol. Tone		56	Y				10-25-10	11	UR182	B31			5	6D6, 75, 43, 25Z5	456	6-3	
		207	17					N	6	623	4							ST595	B3
209	Vol. Tone	84	17	N		6		490	15	BB12				5	2A7, 58, 2A6, 2A5, 80	456	6-5	
			17					N	6	623								4	ST595	B3
251	Vol. Tone	161	6	H12		EX250		490	15	BB12				4	57, 58, 2A5, 80		6-7	
		257, 259	17					N	6	428								4	2S567
293	Vol. Tone		6	Y		EX200		2023	23	CM164				1	6D6, 6C6, 43, 25Z5	456	7-4	
		295	17					N	6	466								11	UR182	B31
297	Vol. Tone	84	17	N		6		490	15	BB12				5	6A7, 6D6, 75, 43, 25Z5	456	6-9	
			17					N	6	466								11	UR182	B31
412, 466	Vol. Tone	658	17	N				490	15	BB12				6	6D6, 6A7, 75, 43, 25Z5	456	6-10	
		10310, 10410, 10510, 10610 Series B	22					L	6	C2092								6/15	3N528
14610, 14710	Vol. Tone	215	18	MR48				10	15	BB12				6	6A7, 6D6, 75, 25L6, 6C5, 25Z5, L49C	465	9-11	
			18					MR48		8-4								23	2S567
14810, 14890, 14910, 14990	Vol. Tone		18	MR48		See Note	te A3	8-4	23	2S567				6	6A7, 6D6, 75, 42, 80, 6C5	465	9-14	
			22							8-4								23	2S567
15010, 15110	Vol. Tone		18	MR48		See Note	te A3	8-4	23	2S567				6	6K7, 6A8, 6Q7, 6F6, 6C5, 5Y3	465	9-13	
			18					MR48		8-4								23	2S567
15210	Vol. Tone		18	MR48		See Note	te A3	8-4	23	2S567				7	6K7, 6A8, 6Q7, 6F6, 6C5, 5Y3	465	9-13	
			34							8-4								23	2S567
HERBERT H. HORN	Tiffany Vol. Tone		6	MR18				5-5	23	2S567				1	6D6, 6C6, 41, 80	465	9-1	
		4T	6					SRP263		4-4								23	CM172
5A	Vol. Tone		6	Y				5-5	23	2S567				5	57, 58, 56, 2A5, 80	465	6-1	
		5	6					K12		5-5								23	2S567
5MT	Vol. Tone		22	SRP263				5-5	23	2S567				5	6J7, 6K7, 6C5, 6F6, 5Z4	465	6-2	
		5MTD	6							5-5								23	2S567
7MT	Vol. Tone		18	N				5-5	23	2S567				5		465	7-2	
			22					K12		8-8								23	2S567
9MT, 9MTC	Vol. Tone		62	N				8-8	23	2S567				7	6A8, 6K7, 6H6, 6C5, 6F6, 5Z4	465	6-3	
			22					K12		16, 16								23	RS216
10MT	Vol. Tone		83	N				8-8	23	CM172	B3			9	6K7, 6A8, 6H6, 6C5, 6F6, 5Z4	1600	6-4, 7-3	
			22					K12		10	19							BB12
11A	Vol. Tone		83	N				10	19	BB12				10	6K7, 6L7, 6C5, 6H6, 6C5, 6J7, 6F6, 5Y3	1600	7-4	
			22					K12		16								1	RS216
15	Vol. Tone		80	750M		See Note	te A19	5, 5	1/13	ST595				11	6A8, 6K7, 6J5, 6J7, 6F6, 5Y3	465	9-2	
			80					MR48		8, 8								4	RS213
15M	Vol. Tone		6	H7				8, 8	4	ST595				6	24, 45, 80		3-1, 2	
			22					L		8, 8								4	ST595
16MT	Vol. Tone		6	D7				8, 8	4	ST595				6	27, 47, 80, 35		6-5	
			22					G12		8, 8, 8								30	ST595
17MT	Vol. Tone		83	M		See Note	te A3	8, 8, 8	15	BB13				16	6K7, 6A8, 6H6, 6C5, 6F6, 5Z4	1600	8-1	
			22							10								15	BB12
21	Vol. Tone		83	N				16-8-8-8	1	See Note	B3			17	6K7, 6L7, 6C5, 6H6, 6C5, 6F6, 5Y3	1600	7-5	
			22					UC513		8	15							BB13
24	Vol. Tone		6	UC501				4-8	23	CM172				4	57, 58, 47, 82		4-1	
			22					G12	6	4-4								4	CM172
25	Vol. Tone		6	SRP263				8-4	23	CM172				4	2A7, 57, 2A5, 80	465	4-2	
			22					G12	6	8-4								23	CM172
36	Vol. Tone		17	N				4-4	4	See Note	B3			5	6A7, 78, 6B7, 42, 80	465	4-2	
			22					N	6	4-4	4							See Note	B3
49	Vol. Tone		6	C12				8-8	1	See Note	B3			5	24, 45, 80			
		50, 50B	18					MR48		5-5	23							2S567

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HERBERT H. HORN	Continued																	
51	Vol.		18	Z				8-8	23	2S567					5	6A7, 6D6, 75, 42, 80	465	7-6
52	Vol.		18	Z				8-8	23	2S567					5	6A8†, 6K7†, 75, 6F6†, 5Y3	465	7-7
55	Tone		22	K12											5	57, 58, 2A6, 2A5, 80	465	6-1
58	Vol.		56	Z				8, 8	23	ST595					5			
58	Tone		22	Y											7	2A7, 58, 56, 57, 2A5, 80	465	4-3
58 (1933)	Vol.		15	Z	6			8-8	1	2N518	B3			7				
58	Tone		76	Z				10	15	BB12				7				
59	Vol.		15	Z				8-8	1	2N518	B3			7	2A7, 58, 56, 2A5, 80, 57	465	4-3	
59	Tone		21	Z				10	15	BB12				8	27, 51, 47, 80	175	3-3	
62	Vol.		7	G				8-8	1	2N518	B3			8				
62	Tone		39	M										5	6A8†, 6K7†, 75, 6F6, 5Y3	465	7-6	
63	Vol.		18	Z				8-8	23	2S567				5	6A8, 6K7, 75, 6F6, 5Y3	465	7-8	
63	Tone		22	K12										6	6A8, 6K7, 6116, 6J7, 6F6, 5Z4	465	6-9, 7-1	
66	Vol.		15	Z				8-8	23	2S567	B3			6	6A8, 6K7, 6116, 6J7, 6F6, 5Z4	465	9-3	
66MT	Vol.		75	Z				5-5	23	CM172	B3			6	6A7, 6D6, 75, 42, 80, 6U5	465	3-3	
66MT	Tone		22	K12										6				
67	Vol.		18	MR48				5-5	23	2S567				6	6A7, 6D6, 75, 42, 80, 6U5	465	9-3	
67	Tone		22	MR33										8	27, 51, 47, 80	465	3-3	
69	Vol.		7	G				8, 8	1	ST595	B3			7	35, 24, 27, 47, 80	175	3-4, 5	
69	Tone		39	M										7	6A8, 6K7, 6116, 6J7, 6F6, 6P5, 5Y3	465	7-4	
70, 71	Vol.		6	GI2	6			8, 8	4	RS213				7	2A7, 58, 55, 2A5, 80	465	6-1	
76	Vol.		75	Z				8-8	23	See Note	B3			7				
76	Tone		22	K12										7				
77	Vol.		83	Z				8-8	23	See Note	B3			7				
77	Tone		22	Y										8	27, 51, 47, 80	175	6-7, 8	
79	Vol.		6	GI2				8-8	4	See Note	B3			8				
79	Tone		22	M										7	6A8, 6K7, 6116, 6G5, 6J7, 6F6, 5Y3	465	7-8	
83	Vol.		83	Z				8-8	23	CM172	B3			7	6K7, 6A8, 6U5, 75, 6V6†, 5Y3†	465	9-1	
83	Tone		22	K12										8	27, 51, 47, 80	175	3-3	
87, 87C	Vol.		18	MR48				12	23	RS215				9	6K7, 6A8, 6Q7, 6U5, 6F6, 6C5, 5Y3	465	9-4	
87, 87C	Tone		22	MR33				12	23	WE1625				8				
90	Vol.		7	G				8-8	1	See Note	B3			11	27, 34, 24, 47, 80	175/550SW	2-1, 2	
90	Tone		39	M										12	24, 27, 35, 47, 80	175	3-6, 8	
97, 97C	Vol.		18	MR48				10	25	RS215				9				
97, 97C	Tone		22	MR48				12	25	WE1625				8				
99	Vol.		6	GI2				8-8	4	See Note	B3			11				
99	Tone		22	M										10	27, 35, 47, 80	175/550SW	2-1, 2	
101	Vol.		15	M				8-8	4	See Note	B3			11				
101	Tone		39	N										12	24, 27, 35, 47, 80	175	3-6, 8	
101B, 102B	Tunlgt.		4	A10MP				8-8	1	See Note	B3			8	27, 51, 47, 80	175	6-7, 8	
101B, 102B	Vol.		15	Z	6									10	27, 35, 47, 80	175/550SW	2-1, 2	
101B, 102B	Tone		39	Z										12				
109	Tunlgt.		4	A10MP				8-8	4	See Note	B3			8	27, 51, 47, 80	175	6-7, 8	
109	Vol.		6	GI2										10	27, 35, 47, 80	175/550SW	2-1, 2	
109	Tone		22	M				8-8	4	See Note	B3			10				
110	Vol.		15	Z				8-8	4	See Note	B3			10				
110	Tone		39	Z										12	58, 2A7, 56, 2A3, 5Z3	175	5-1	
112A	Tunlgt.		4	A10MP				8-8-4	32	See Note	B3			12				
112A	Vol.		15	Z										5	2A7, 2B7, 58, 2A5, 80	465	5-2	
156	Vol.		56	Z				4-4	23	See Note	B3			5	2A7, 58, 2B7, 2A5, 80	465	6-2	
156	Tone		22	Z										5				
156AW	Vol.		56	Z				4-4	23	See Note	B3			5				
156AW	Tone		22	Z										7	2A7, 58, 56, 57, 2A5, 80	465	4-4	
158 (1933)	Vol.		15	Z				8-8	1	See Note	B3			5	6A7, 6D6, 75, 42, 80, 6A7, 6D6, 75, 42, 81	465	9-3	
158 (1933)	Tone		21	Z										5				
518	Vol.		18	MR48				5-5	23	2S567				5	6A7, 6D6, 75, 42, 80, 6A7, 6D6, 75, 42, 81	465	7-7	
535	Vol.		56	Z				4-4	4	See Note	B3	294	C3	5	6A7, 6D6, 75, 42, 81	465	7-7	
536	Vol.		56	Z				4-4	4	See Note	B3	294	C3	5	6A7, 6D6, 75, 42, 81	465	7-7	
536	Tone		22	K12				4-4	4	See Note	B3	294	C3	5	6A7, 6D6, 75, 42, 81	465	7-7	
537, 538	Vol.		18	MR48				5-5	23	2S567				5	6A8, 6K7, 6Q7, 6F6, 81	465	8-2	
537, 538	Tone		22	K12				.01	1	See Note	B3	294	C3	5	6A7, 78, 6B7, 42	172	5-2	
1934	Vol.		56	Z				4-4	1	See Note	B3			5				
1934	Tone		22	K12														
HOWARD																		
AA25	Vol.		6	H12	†	EX300		16-12	4	2P516				4	6D6, 6C6, 43, 25Z5	175	6-3	
AP	Vol.	2399	16	†	†	See Note A5		2335	3	CS133				9	55, 56, 58, 42, 80			
AP	Tone	1953	41	P	6			1948	3	RS213				9				
A SW Converter								2209	3	CS133				4	24, 35, 27			
AVH (45, 60)	Vol.	1881	94	N				1976	3	RS213				9	27, 35, 47, 80	175	2-6, 7	
AVH (45, 60)	Tone	1881	44	N				1859	1	ST595				4				
AVO (35-A)	Vol.	1881	35	N				1883	3	3S584				8	35, 27, 47, 80	175	3-11	
AVO (35-A)	Tone	2269	34	L	6			2282	16	BB12				8				
A12	Vol.		6	H12	†	EX300		16-12	4	2P516				4	6D6, 6C6, 43, 12Z3			

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HOWARD—Continued																		
B13.....	Vol.		17	N.....				8-16-12.....	27	UR182.....	B115				5	6A7, 6D6, 75, 43, 25Z5.....	456	6-1
CC23, CC24.....	Vol.		17	N.....				8, 8.....	1	ST595.....					6	6D6, 75, 42, 76, 80.....	456	6-3
D4 (Cable-Nelson)...	Vol.	2202.....	8	..... †		See Note		1869.....	1	CS133.....					4	51, 24, 47, 80.....		2-12
D8.....	Vol.	3120.....	19	TRP606.....	6			2209.....	1	CS133.....					8	78, 6A7, 85, 76, 42, 80.....	465	6-17
EX (Dual Range)...	Vol.	1968.....	8	G.....				3004.....	28	RM262.....					8	78, 6A7, 85, 76, 42, 80.....	465	6-17
E5B.....	Vol.	1881.....	44	N.....	6			1948.....	28	RS213.....					8	78, 6A7, 85, 76, 42, 80.....	465	6-17
E14, E107.....	Vol.		18	N.....	6			4.....	12	BB31.....					4	1C6, 1A4, 1F6, 1F4, 1B1.....	465	9-1
E57 (Long Wave)...	Vol.	6208.....	18	N.....	6			8-4.....	23	CM172.....					6	6C6, 6D6, 75, 42, 80, 76.....	456	6-2
E256.....	Vol.		45	MR48.....	M26			8815.....	11	2N504.....					5	6A7, 6D6, 75, 43, 25Z5.....	456	7-12,13
E259.....	Vol.		18	MR48.....	M26			8816.....	11	BB21.....					6	6A7, 6D6, 76, 6K5, 25B5, 25Z5, K42B.....	465	9-1
F.....	Vol.	3120.....	15	N.....				40-10.....	6	2N514.....					5	6A7, 6D6, 75, 42, 80.....	465	9-2
F (with 45's).....	Vol.	3119.....	22	Y.....				3288.....	1	CM172.....					12	6A7, 6D6, 75, 42, 80, 85, 42B.....	465	6-4
Series 1 (Grand)....	Vol.	3121.....	9	Y10MP.....				3004.....	1	RM262.....					12	6A7, 78, 85, 76, 42, 80.....	465	6-4
	Vol.	1968.....	8	G.....				1948.....	18	RS213.....					7	24, 27, 45, 80.....		2-1
	Vol.	1881.....	44	N.....	6			1748.....	1	RS213.....					7	24, 27, 45, 80.....		2-1
	Vol.	1939.....	24	..... †		See Note									7	24, 27, 45, 80.....		2-1
	Vol.	1938.....	41	UC504.....	6										7	24, 27, 45, 80.....		2-1
	Vol.		15	N.....	6										19	76, 6C6, 78, 80, 85, 42, 84, 5Z3.....	175	6-15,16
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6										19	78, 76, 6C6, 85, 42, 5Z3, 80, 84.....	465	7-1,2
	Vol.		15	N.....	6					</								

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HOWARD—Continued																		
M (420)	Vol. 2349	13	M				2335	3	CS133					13	55, 56, 58, 42, 84	175	3-6,7	
	Supp. 2372	18	M		6													
	Tone 1953	41	P		6													
O (20, 25, 30, 32)	Vol. 1981	8	†			See Note A5	1858	1	2S567					7	51, 27, 47, 80	175	2-8,9	
	Tone 1863	21	†			See Note A5	1859	1	BB60									
Q	Vol. 2808	15	M				2303	28	CM172					7	78, 6A7, 76, 12A5, 80, 77	170	4-2,3	
	Tone 2809	22	M		6		2127	28	CS133									
R9	Vol. 2808	15	M				2803	3	CM172					9	76, 77, 78, 6B7, 42, 80	465	5-1,3	
	Tone 2988	22	†			See Note A5	2427	3	CS133									
SG "A," "C," (R.F. chassis)	Vol. P1900	24	DRP24											4	24, 27		1-6	
SG "A," SG "C" (A.F. Chassis)	Vol. P1937	8	G				P1080	3	MN275					3	45, 80		1-7	
SG "B"	Tone P1938	21	P		6		1748	1	RS213					6	24, 27, 45, 80		2-14	
SG "T"	Vol. 1877	8	F		6	3	1868	1	CM172					5	51, 24, 47, 80		2-10,11	
S2, S7	Vol. 2787	15	†			See Note A5								8	1A6, 30, 32, 34, 349	175	4-1,7-9	
W 1st Type	Vol. 2863	15	N											10	56, 57, 58, 2A7, 2B7	465	5-4,12	
	Tone 2862	22	N		6													
	Supp. 2890	8	G															
	AVC 2865	15	Y1000MP															
W 2nd Type	Vol. 2862	22	N		6									10	56, 57, 58	465	5-5,12	
	Tone 2862	22	N		6													
	Supp. 2865	12	G12															
	Tanlgt. 2865	17	Y1000MP															
W 2nd Revision	Vol. 3121	8	N		6		8	13	BB61					19	2A7, 56, 58, 2A5, 83V	465	6-13,14	
	Tone 3121	22	N		6		10	15	BB13									
W (Power Amplifier)			Y10MP															
							2851	3/14	1S692/UR191	BB16				9	83V, 2A5, 56		5-6	
							2850	4	CM162									
							2427	15	BB12									
X2, X3, X8	Vol. 2725	15	N		6		1918	3	RS213					7	6A7, 6B7, 78, 77, 12A5, 80	175	4-4,5	
							1976	3	RS213									
							2427	15	BB12									
							30-266	1	FDP231					6	6J8G, 6D6, 75, 6V6G, 6U5, 80	465	10-11	
X275	Vol. 11-278	18	MR48	M26			1948	3	RS213					10	6A7, 6B7, 78, 77, 12A5, 80	175	4-6,7	
Z4	Tone 2725	45	N		6		2209	3	CS133									
	Vol. 23-281	18	MR48				4	12	BB31					4	1A7G, 1N5G, 1H5G, 1C5G	465	10-1	
4B	Vol. 39-281	18	MR48	M27			36-266	12	FPS143					4	1A7G, 1N5G, 1H5G, 1C5G	465	10-2	
4BT	Vol. 20-281	18	MR48	M27			23-266	12	ST595					4	1C6, 1A4, 1F6, 1F4, 1B1	465	8-1,3	
5B	Vol. 6232	18	MR48	M27			8, 8, .005	1	BB31		9605	245C	C3	6	6D8G, 1A4, 6T7G, 30, 19	465	9-4	
6B	Tone 17-281	124	MR48				20-266	1	2N519	BB14	9605-1	246	C3	6	6D8G, 6S7G, 6T7G, 30, 19	465	9-4,5	
6B-A	Vol. 6223	22	N		7		20-266	1	2N519	BB14	9605-1	246	C3	6	6D8G, 6S7G, 6T7G, 30, 19	465		
6B-T	Vol. 17-281	124	N		7		8-16	1	2S563	BB14		245C	C3	5	6D8G, 6S7G, 6T7G, 41, 6L5G	465	9-6	
7BT	Vol. 18-281	18	MR48	M26			10, .005	15	BB12	BB14								
							10	12	BB22	BB14								
12B	Vol. 70-281	18	MR48	M27			47-266	1	FDP211					6	1P5GT, 1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z6GT	465	11-2	
14ACB	Vol. 6207A	6	H12	6	EX300		8812	27	2P546					5	6A7, 6D6, 75, 43, 25Z5, K49B	465	8-2	
47A	Vol. 6207A	6	H12	6	EX300		8812	27	2P546					5	6A7, 6D6, 75, 43, 25Z5	465	7-12,14	
50SW	Vol. 6207A	6	H12	6	EX300		8812	27	2P546					5	6A7, 6D6, 75, 43, 25Z5	465	7-15,16	
50 (Series 2)	Vol. 6207A	6	H12	6	EX300		8812	27	2P546					5	6A7, 6D6, 75, 43, 25Z5, K49C	465	9-26	
56	Vol. 6208	18	N		6		8815	11	2N504					6	6A7, 6D6, 6H6, 6F5, 43, 25Z5	456	7-12,14	
57A, 57AUS	Vol. 6221	18	N		6		8816	11	BB21					6	6A7, 6D6, 6H6G, 6F5G, 42, 80	465	8-15	
58 (B5)	Vol. 6221	18	N		6		8817	1	2N518					6	6A7, 6K7, 6Q7, 6B5, 80, 6J5	465	7-17,18	
59	Vol. 6221	18	MR48	M26			3003	15	BB12					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Y3	465	7-19,20	
60 (Series 1), 60 (Short Wave)	Vol. 6229	18	MR48	M26			8826	15	2S567					6				
67, 67C, 67T	Vol. 6212	75	N		6		3004	1	RM262					7				
68	Vol. 6223	22	MR48				8814	14	BB60									
77C, 77T	Vol. 6216	75	N		6		3003	15	BB11									

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HOWARD—Continued																		
99, 99C, 99T	Vol. Tone	6210 6211	15 41	N N	6			3001 8814 3003 17-266 8826	1 14 15 1 1/13	RM262 BH50 BH11 RS213 2S567					9 6 11	6K7, 6A8, 6H6, 6C5, 6F6, 5Z4 6K7, 6A7, 6H6, 6F5, 6C5, 6F6G, 6G5, 80	465	7-23,24 8-7,9
118	Vol. Tone	6222 6223	75 22	O N	6													
135AC (395, 445, 470, 495)	Vol.		10	GK				P1603A	3	See Note	B2				7	26, 27, 10, 81		1-8
135 D. C.	Vol.	P1750	10	E12														
200	Vol.		6	Order from	Mfr.										4	6K7GT, 6J7GT, 25L6, 25Z5		9-26 10-5-7
210, 211	Vol.	21-281	1	Order from	Mfr.										12	6A7, 1V		
214	B. Tone	8-278	1	MR53	M26										13	6K7G, 6L7G, 6J5G, 6H6, 6C5, 6F5, 6V6G, 80	465	8-11,12
218	Vol. Tone	6222 6223	12 22	O N	6			17-266 8826	1 1/13	RS213 2S567					11	6K7, 6A7, 6H6, 6F5, 6C5, 6F6G, 6G5, 80	165	8-7,9
220	Vol.	26-281	18	MR53				31-277	1	FPD231					5	6A7, 6D6, 75, 41, 80	465	10-7-9
221	Vol.	36-281	18	MR48	M26			32-266 10 28-266	27 13 1	2P549 BH22 2S567					5	6A7, 6D6, 75, 25L6G, 25Z5, K49B	465	10-10
225, S225	Vol. Tone	23-281 11-278	18 22	MR18 MR48	M26										5	6A7, 6D6, 75, 41, 80	465	9-9,11
240-1	Vol. Tone	29-281 14-278	18 21	MR48 MR48	M26			28-266	1	2S567					6	6A7, 6D6, 75, 6U5, 41, 80	465	9-7,8
240-2	Vol. Tone	29-281 14-278	18 21	MR48 MR48	M26			28-266	1	2S567					6	6A7, 6D6, 75, 6U5, 41, 80	465	9-7,8
250, S250	Vol. Tone	23-281 11-278	18 22	MR48 MR48	M26			28-266	1	2S567					5	6A7, 6D6, 75, 41, 80	465	9-9,11
256, S256	Vol.		18	MR48	M26			4-8	1	2N518					5	6A7, 6D6, 75, 42, 80	465	8-10
259, S259	Vol.	18-281	45	MR48	M26			40-10	6	2N514					6	6A7, 6D6, 76, 6K5, 25B5, 25Z5, K24B	465	8-13
260, S260	Vol. Tone	23-281 11-278	18 22	MR48 MR48	M26			28-266	1	2S567					6	6A7, 6D6, 75, 6U5, 41, 80	465	9-10,11
266	Vol. Tone	19-281	45	N	6			24-266	1/19	3S579					6	6A7, 6D6, 76, 6F5G, 42, 80	465	8-4,6
268	Vol. Tone	6229 6223	45 22	N N	6			19-266	1/13	3S584	B79				7	6A7, 6K7, 76, 6F5G, 6B5, 80, 6C5	465	8-1,4
270	Vol.	26-281	18	MR53				31-277	1	FPD231					5	6A7, 6D6, 75, 41, 80	465	
271	Vol.	36-281	18	MR48	M26			32-266 10 29-266	27 13 1	2P549 BH22 2N518					5	6A7, 6D6, 75, 25L6G, 25Z5, K49B	465	10-10
275, 275C, 275T, 280	Vol. Tone	23-281 11-278	18 21	MR48 MR48	M26										6	6A7, 6D6, 75, 6V6G, 6U5, 80	465	9-11,11
300	Vol.	50-281	18	MR48	M26			39-266	1/15	FPT332					5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 80	465	11-3,5
300A (301, 303, 304)	Vol.	50-281	45	MR48	M26			40-266	1/15	FPT339					6	6A8GT, 6SK7, 6J5GT, 6Q7GT, 6V6GT, 80	465	11-4,5
302	Vol.		45	MR48	M26			40-266	1/15	FPT339					6	6A8GT, 6K7GT, 6J5GT, 6Q7GT, 6V6GT, 80	465	
302R, 302RT (RA)	Vol. Tone Mike		22	UM151 UM163	M26		A3 A96 A96	40-266 45-266	1/15 13	FPT339 FPS143					7	6A8GT, 6SK7GT, 6Q7GT, 6V6GT, 5W4GT, 6U5	465	12-1,6 11-9,10
302S, 302APC	Vol.	50-281	45	MR48	M26			40-266	1/15	FPT339					6	6A8GT, 6SK7, 6J5GT, 6Q7GT, 6V6GT, 80	465	11-8
305	Vol.	43-281	18	MR48				39-266	1/15	FPT332					5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 80	456	11-11
306	Vol.		18	MR48	M26			39-266	1/15	FPT332					5	6A8GT, 6SK7, 6Q7GT, 6K6GT, 80	465	11-12,5
307	Vol. Tone		18 57	MR48 MR48				39-266	1/15	FPT332					5	6A8GT, 6SK7, 6Q7GT, 6K6GT, 80	465	11-13
308 (APC, C, TT)	Vol. Tone		18 21	MR48 MR48				37-266	1	FPT339	B8				8	6A8GT, 6SK7, 6Q7GT, 6J5GT, 6K6GT, 6U5, 5W4GT	465	11-11
318	Vol. Tone	24-281 11-278	124 21	MR53 MR48	M26			8824 8826-5	1 1/13	WE850 2S567					10	6K7, 6A7, 6U5, 6Q7G, 6C5G, 6V6G, 80	465	9-15,18
318D	Vol. Tone	29-281 11-278	18 21	MR48 MR48	M26			10-10-10	1/15	FPT332					7	6K8G, 6D6, 75, 6V6G, 6A7, 6U5, 80	465	10-14-20
325	Vol. Tone	24-281 11-278	124 21	MR53 MR48	M26			8824 8826-5	1 1/13	WE850 2S567					10	6K7, 6A7, 6Q7G, 6C5G, 6V6G, 6U5, 80	465	9-15,18
325D	Vol. Tone	29-281 11-278	18 21	MR48 MR48	M26			10-10-10	1/15	FPT332					7	6K8G, 6D6, 75, 6V6G, 6A7, 6U5, 80	465	10-14-16
368	Vol. Tone	24-281 11-278	124 21	MR53 MR48	M26			19-266	1/13	3S584					8	6A7, 6K7, 6H6, 6F5G, 6V6G, 6U5, 80	465	9-15,18
368A (with Aut. Tuning)	Vol. Tone	24-281 11-278	124 21	MR53 MR48	M26			19-266	1/13	3S584					9	6A7, 6A8, 6K7, 6H6, 6U5, 6F5G, 6V6G, 80	465	

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
HOWARD—Continued																		
375	Vol. Tone	29-281	18	MR48				19-10-10	1/15	FPT332					7	6K8G, 6A7, 6D6, 75, 6V6G, 6U5, 80	465	
377	Vol. Tone	41-281	18	MR48	M26			31-266	1	FPD231					6	6A7, 6D6, 75, 41, 80	262	10-15
400	Vol. Tone	25-281	1	DRP232				17-266	1	RS213					12	6K7, 6L7, 6J5, 6Q7G, 6U5, 6F5, 6V6G, 80	465	9-19,25
400A	Vol. Tone	25-281	1	DRP232				29-266	1/14	2N567					12	6K7, 6L7, 6J5G, 6Q7G, 6U5, 6F5, 6V6G, 80	465	9-20,25
400X	Vol. Tone	12-278	1	MR53	M26			8-4	14	2N518					11	6K7, 6A7, 76, 6F5, 6J5G, 6V6G, 6U5, 80	465	10-4
418	Vol. Bass	37-281	45	DRP232				8821	1	WE850					12	6K7, 6K8G, 6A7, 6Q7G, 6F5G, 6J5G, 6V6G, 6U5, 80	465	10-18
425	Vol. Tone	17-278	1	UM159-SS1	M26			30-266	1/14	FPD231					14	6K7, 6L7, 6J5G, 6U5, 6F5, 6V6G, 6L6G, 80	465	9-19,25
425A	Vol. Tone	25-281	1	DRP232				17-266	1	RS213					14	6K7, 6L7, 6J5G, 6U5, 6F5G, 6F5, 80	465	9-20,25
430 Type 2	Vol. Tone	12-278	1	MR53	M26			29-266	1/14	2N518					14	6K7, 6L7, 6J5G, 6U5, 6F5G, 6F5, 80	465	9-20,25
435	Vol. Tone	38-281	18	MR48				31-266	1	FPD231					6	6K8G, 6C5, 6K7, 6Q7G, 41, 5W4	465	10-21,22
436	Vol. Tone	35-266	13/15	FPT332				37-266	1	FPT389	B8				6	6K8G, 6SK7, 6SQ7, 6K6G, 6C5, 80	465	12-10
437	Vol. RF Gain	37-266	13/15	FPT332				37-266	1	FPT389	B8				7	6K8G, 6SK7, 6SQ7, 6U5, 6F5G, 6C5, 80	465	12-10
438	Vol. Tone	35-266	13/15	FPT332				37-266	1	FPT389	B8				9	6SK7, 6K8G, 6SQ7, 6K6G, 6C5, 6U5, 80	465	12-11
440 (Ser. 1, 2)	Vol. Tone	35-266	13/15	FPT332				10-10	1	FPD231					8	6K7, 6C5, 6K8G, 6Q7G, 41, 80	465	
450, 450A	Vol. Sen. Meter	10-10	13	FPD231				10-10	13	FPD231					9	6K8G, 6K7, 6Q7G, 6J7G, 6V6G, 80	465	10-25
450, 450A	Vol. Sen. Meter	26-281	124	MR53				8	1	RS213					12	6K7, 6L7, 6J5G, 6Q7G, 6J5G, 6V6G, 80	450	10-27,29
450, 450A	Vol. Sen. Meter	13-278	22	MR48				8-8	1, 13	RM262					12	6K7, 6L7, 6J5G, 6Q7G, 6J5G, 6V6G, 80	450	10-27,29
468	Vol. Bass	28-281	7	MR14	M26			30-281	7	MR11					9	6K8G, 6K7, 6A7, 6U5, 6Q7G, 6V6G, 6F5G, 80	465	
518, 518S, 518APC	Vol. Bass	37-281	1	DRP232				17-278	1	UM159-SS1	M26				12	6SK7, 6A8GT, 6J5GT, 6F5GT, 6V6GT, 80, 6U5	465	11-15,5
520APC	Vol. Bass	37-281	1	DRP232				17-278	1	UM159-SS1	M26				12	6SK7, 6A8GT, 6J5GT, 6F5GT, 6V6GT, 80, 6U5	465	11-16
525	Vol. Bass	37-281	1	DRP232				17-278	1	UM159-SS1	M26				14	6K7, 6K8G, 6A7, 6U5, 6Q7G, 6V6G, 6J5G, 83V, 6U5	465	11-17,5
565 (6 Volt)	Vol. Tone	39-266	15	FPT332				005	15	Buffer	B14	5-967	850	C3	6	6D8G, 6S7G, 6T7G, 6L5G, 6Z7G, 6ZY5G, 6L6G, 6U5, 80	465	11-17,5
565 (12 Volt)	Vol. Tone	39-266	15	FPT332				005	15	Buffer	B14	6-967	G850	C3	6	6D8G, 6S7G, 6T7G, 6L5G, 6Z7G, 6ZY5G, 6L6G, 6U5, 80	465	11-17
568	Vol. Tone	33-266	13	FPT389				005	13	FPT389	B14				9	6SK7, 6A8GT, 6Q7GT, 6J5GT, 6V6GT, 80, 6U5	465	11-18,5
568R (RA)	Vol. Tone	33-266	13	FPT389				005	13	FPT389	B14				10	6SK7, 6A8GT, 6Q7GT, 6J5GT, 6V6GT, 80, 6U5	465	11-19,20
575	Vol. Tone	40-266	15	FPT339				40-266	15	FPT339					6	6A8GT, 6SK7, 6Q7GT, 6V6GT, 6U5, 80	465	11-21,5
580, 580APC, 580C	Vol. Tone	37-266	1	FPT389				37-266	1	FPT389	B8				8	6A8GT, 6SK7, 6Q7GT, 6J5GT, 6V6GT, 80, 6U5	465	11-22,5
585	Vol. Tone	32-266	4	2P549				32-266	4	2P549					6	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 6N5, 35Z5GT	465	12-1,5
626	Vol. Tone	6212	75	N	6			8817, 3003	15	2N518, BB12					6	6A7, 6D6, 6U5, 6F5G, 42, 80	465	8-14,16
650 (Pre. Amp.)	RF Gain	46-281	7	MR14				31-266	1	FPD231					3	6A8GT, 6V6GT, 6U5, 80	465	12-17,18
660 (Freq. Monitor)	Att. Vol.	42-281	1	MR14				31-266	24	FPD231					2	6K6GT, 1V, 12S8GT	465	12-11
700	Vol. Tone	69-281	18	MR48	M26			47-266	1	FPD211					5	12S8GT, 12SK7, 12SQ7, 50L6GT, 35Z5GT	465	11-2
702	Vol. Tone	69-281	18	MR48	M26			47-266	1	FPD211					5	12S8GT, 12SK7, 12SQ7, 50L6GT, 35Z5GT	465	12-16

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replace- ment	*Note				
HOWARD—Continued																		
718.....	Vol. Tone Phono.	.....	22	MR48 MR55	.....	.....	A3	51-266	1/13	FPT390	.....	.....	.....	.....	12	6SK7, 6SA7, 6U5, 6116, 6SP5, 6J5GT, 6V6GT, 5Y3G	465	12-19
765 (6 Volt).....	Vol. Tone	72-281 72-281	18 57	MR53 MR53	.....	.....	.....	39-266 .005	1/15	FPT332 Buffer	B14	5-967	850	C3	6	6SA7, 6SK7, 6T7G, 6L5G, 6Z7G, 6Z5Y5G	465	12-20,22
765 (12 Volt).....	Vol. Tone	72-281 72-281	18 57	MR53 MR53	.....	.....	.....	39-266 .0075	1/15	FPT332 Buffer	B14	6-967	G850	C3	6	6SA7, 687G, 6T7G, 6L5G, 6Z7G, 6Z5Y5G	465	12-20,22
768.....	Vol. Tone	72-281 72-281	18 22	MR53 MR53	.....	.....	.....	51-266	1/13	FPT390	.....	.....	.....	.....	10	6U5, 6SK7, 6SA7, 6SQ7, 6J5GT, 6K6GT, 80	465	12-20,22
780.....	Vol. Tone	72-281 72-281	18 22	MR53 MR53	.....	.....	.....	51-266 20	1/13 15	FPT390 BB15	.....	.....	.....	.....	8	6U5, 6SK7, 6SA7, 6SQ7, 6V6GT, 80	465	12-21,22
1626.....	Vol.	6212	75	N	6	.....	.....	8817 3003	1 15	2N518 BB12	.....	.....	.....	.....	6	6A7, 6D6, 6116G, 6F5G, 42, 80	465	8-14,16
HUDSON-ROSS																		
38.....	Vol.	.....	6	M	6	EX250	.....	8-8 10	24 15	2N502 BB12	.....	.....	.....	.....	4	6D6, 6C6, 38, 12Z3	.....	5-1
48.....	Vol.	.....	6	M	6	EX250	.....	16-12 10	1 15	2N506 BB12	.....	.....	.....	.....	4	6D6, 6C6, 38, 25Z5	.....	5-1
59.....	Vol.	.....	6	G7	6	2	.....	20-20 10	6 15	2N509 BB12	.....	.....	.....	.....	5	6A7, 6D6, 75, 43, 25Z5	456	5-2
69.....	Vol.	.....	6	G7	6	2	.....	20-20 3	6 13	2N509 BB40	.....	.....	.....	.....	6	6A7, 6D6, 85, 43, 25Z5	456	5-3
80 "Legion"	Vol. Vol.	718	18 6	N M	6 6	EX250	.....	10 701 8-8 10	15 23 24 15	BB12 2S567 2N502 BB12	.....	.....	.....	.....	5 4	6A7, 6D6, 75, 42, 80 6D6, 6C6, 38, 12Z3	456	5-4 §6-13
HUDSON-TERRAPL																		
CI-6.....	ANE (A) Vol. Tone	so see R. C. A	-Victor 17 22	r. Zenith.) TM239 UM140	.....	.....	See Note See Note	8 8-10-10 .01-.01	1 1/15	RS213 ST595/TN111 Buffer	B14	.....	249	C3	6	6D6, 6A7, 85, 6C5, 6A6	260	9-1
DB-37.....	Vol. Tone	72558-6	17 22	TM239-SS4 UM140	.....	.....	See Note See Note	12234 12238 .01-.01	1 1/15	RS213 ST595/TN111 Buffer	B14	12236	249	C3	6	6D6, 6A7, 6K7, 85, 6C5, 6A6	260	9-3,7
DB38.....	Vol./ Tone	156391	45/22	Order from Mfr.	.....	.....	.....	8-8 10-10-10 .01-.01	1 15	2N518 TN111/BB12 Buffer	B14	.....	249	C3	7	6K7G, 6ABG, 6116G, 6J5G, 6V6G	260	10-1
DB39.....	Vol. Tone	114363 114481	17 22	.....	.....	.....	A19 A3	114258 110377 .01	1 15	BB61 BB12 Buffer	B14	114300	851	C3	7	6K7G, 6J7G, 6R7G, 6V6G, 0Z4	262	11-1,3-5
DB40.....	Vol. Tone	118216 117965	15 22	SM306	.....	.....	A3	117314 118485 .01	1/15 13	FPT332 BB31 Buffer	B14	116202	851	C3	7	6SK7, 6A8, 6116, 6SP5, 6V6GT, 6X5	455	11-6,7, 9-12
DB41.....	Vol. Tone	160954 161156	17 22	UM162	.....	.....	See Note A3	161025 161168 110377 .01	1 14/15	BB62 BB62 BB12 Buffer	B14	160796	854	C3	8	6SK7, 6SA7, 6SQ7, 6J5GT, 6V6GT, 0Z4	262	12-3,4,6
Hudson H6.....	Vol.	.....	56	UM147	.....	.....	See Note	4961 4958 .02-.02	1 1/15	RS213 3S579 Buffer	B14	.....	294	C3	6	6D6, 6A7, 6B7, 41, 84	260	.....
JA40.....	Vol.	.....	18	MR48	M26	.....	.....	15-10-20 .005	24/15	FPT328 Buffer	B14	.....	294	C3	5	6K8GT, 6K7GT, 6SQ7, 6V6GT, 0Z4	455	12-1
JA41.....	Vol.	161019	18	UM161	M26	See Note	See Note	161024 161025 .01	74 75	BB62 BB62 Buffer	B14	160796	851	C3	5	6SA7, 6SK7, 6SQ7, 6V6GT, 6X5GT	455	12-2,4
SA37.....	Vol.	72558-54	45	UM147-SS4	.....	.....	.....	13114 .01-.01	1	2N518 Buffer	B14	12236	249	C3	5	6D6, 6A8, 6K7, 6B7, 42	260	9-7,9
SA38.....	Vol.	.....	56	UM147	.....	.....	See Note	8-8 .01-.01	1	2N518 Buffer	B14	.....	294	C3	6	6K7G, 6BBG, 6V6G, 6X5G	260	10-1
SA39.....	Vol.	114364	18	UM154	M26	See Note	See Note	114258 .01	25	BB61 Buffer	B14	114300	854	C3	6	6K7G, 6J7G, 6Q7G, 6K6G, 6X5G	262	11-2
SA40.....	Vol.	118216	17	SM306	.....	.....	.....	117314 118485 .01	1/15 19	FPT332 BB31 Buffer	B14	116202	851	C3	6	6SK7, 6A8, 6SQ7, 6K6GT, 6X5	455	11-8-12
SA41.....	Vol.	160954	17	UM162	.....	.....	See Note	161024 161025 .01	74 74	BB62 BB62 Buffer	B14	160796	854	C3	6	6SK7, 6SA7, 6SQ7, 6V6GT, 6X5GT	455	12-4,6
650HD, 651HE, 660TD, 660TE...	Vol. Tone	63-321 63-330	17 34	UC511 K12	6	.....	.....	22-236 .02	1/15	SR628 Buffer	B14	.....	292	C3	6	6D6, 6F7, 75, 42, 84	252.5	.....
680.....	Vol.	48019	18	N	6	EC256	.....	22-347 .01	4	CM172 Buffer	B14	.....	294	C3	6	6D6, 6C6, 75, 42, 84	252.5	.....
IMPERIAL RADIO																		
5M-17.....	Vol.	B16970	6	K12	6	.....	.....	B16973 B17042	27 27	RS207 RS207	.....	.....	.....	.....	4	6D6, 6C6, 43, 25Z5	.....	.....
6M-27.....	Vol. Tone	B17010 B17047	17	O M	6	B17041-3 B17197	4 4	RS208 RS208 RS208	5	6A8G, 6K7G, 6Q7G, 25B6G, 25Z6G	456

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
IMPERIAL—Continued																		
6L-107, 6L-137, 6C-607.....	Vol. Tone	B165422..... B16540-2.....	18 34	O..... UC502.....	6			B16466..... B16467-2.....	4 4	RS216..... WE825.....					6	6A8G, 6K7G, 6Q7G, 6G5, 6K6G, 5Y3...	456	.....
7U-117, 7L-147, 7C-707.....	Vol. Tone	B16542-2..... B16540-2.....	18 34	O..... UC502.....	6			B16466..... B16567-2.....	4 4	RS216..... WE825.....					7	6L7G, 6C5G, 6K7G, 6Q7G, 6G5, 6F6G, 5Y3.....	456	.....
8C-807.....	Vol. Tone	B16542-2..... B16540-2.....	18 44	O..... UC502.....	6			A15236-3..... A15237-2.....	25 25	WE3050..... RS215.....					8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, 6F6G, 5Y3.....	456	.....
8U-127.....	Vol. Tone	B16542-2..... B16539-2.....	18 44	O..... SRP284.....	6 8			A15236-3..... A15237-2.....	25 25	WE3050..... RS215.....					8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, 6F6G, 5Y3.....	456	.....
10C-1007.....	Vol. Tone	B16553-2..... B16540-2.....	17 22	TRP618..... UC502.....	6			B16551-3..... B15427..... B16551-4.....	1 1 15	WE3050..... RS216..... TN111.....					10	6K7G, 6L7G, 6C5G, 6Q7G, 6G5, 6F6G, 5Z3.....	456	.....
INSULINE CORP.																		
"Classic".....	Vol.		17	N.....	6			32-16..... 5-5.....	27 15	2P553..... TN111.....					5	6A7, 78, 6B7, 43, 25Z5.....	132	5-6
"Conqueror" AVC Super Seven, AVC Long Wave 110V DC.....	Vol.		8	D.....		2		2-4-4.....	3	See Note.....	B3				5	51, 27, 47, 80.....		2-6
"Elite".....	Vol.		6	G7.....	6	2		8.....	39	See Note.....	B11				7	39, 85, 37, 43.....	175/115	4-3
"Envoy".....	Vol.		8	G.....		2		32-16.....	27	2P553.....					5	6A7, 78, 6B7, 43, 25Z5.....	132	5-5
"Envoy Midget".....	Vol.		8	C.....	6			4-4.....	1	ST595.....					6	51, 24, 47, 80.....		2-1
"Envoy Midget" DC.....	Vol. Tone		8	C.....	6			8-4.....	1	See Note.....	B3				5	51, 24, 47, 80.....		2-1
"Envoy DC" Broadcast—Long Wave.....	Vol.		21	M.....	6			8.....	39	See Note.....	B11				5	36, 33.....		2-2
"Envoy AC" Broadcast—Long Wave.....	Vol.		6	E12.....	6			8.....	39	See Note.....	B11				5	36, 33.....		2-3
"Envoyette" AC.....	Vol.		8	A2MP.....	6	2		8-4.....	1	See Note.....	B3				5	51, 24, 47, 80.....		2-4
"Envoyette" DC.....	Vol.		8	G.....	6	2		8-4.....	1	See Note.....	B3				5	58, 57, 47, 80.....		3-2
5T Rec.....	Vol.		8	G.....	6	2									5	39, 37, 43.....		3-2
"Envoyette" AC 5T Receiver—Long Wave.....	Vol.		8	G.....	6	2									5	58, 57, 47, 80.....		3-2
ICA-ette.....	Vol.		6	H12.....	6			25..... 24-12.....	17 6	See Note..... BB15.....	B3				5	6A7, 6D6, 6C6, 43, 12Z3.....	456	6-14
"Icasix".....	Vol.		17	N.....	6			10-10..... 8-8.....	15 1	TN111..... See Note.....	B3				6	6D6, 6A7, 80, 75, 42.....	462.5	5-3
LW 4 Tube Midget AC.....	Vol.		8	G.....	6	2		5-5.....	15	TN111.....					4	51, 24, 47, 80.....		2-5
"Insulette & Mascot" 4 Tube Midget AC.....	Vol.		8	G.....	6	2		4-4.....	1	See Note.....	B3				4	51, 24, 47, 80.....		2-5
"Super-Conqueror" Short and Long Wave AC.....	Vol. Tone		8 22	G..... Z12.....	6 3			8-8-8..... 25.....	3 17	See Note..... BB15.....	B3				8	57, 58, 55, 47, 80.....	115	2-7
"Super-Conqueror" AC 108-250 V w/ Noise Suppressor.....	Vol. Supp.		18 32	N..... A5MP.....				8-8-8..... 5.....	3 17	See Note..... BB11.....	B3				9	55, 57, 58, 47, 80.....	115	4-14
Super Six AVC LW.....	Vol.		6	G7.....		2		8-8.....	1	See Note.....	B3				6	55, 57, 58, 47, 80.....	115	4-4
Super Six AVC Broadcast.....	Vol.		6	G7.....	6	2		25.....	17	BB15.....					6	55, 57, 58, 47, 80.....	175	4-5
"Super Seven" AC LW.....	Vol.		17	N.....	6			8-8..... 25.....	1 17	See Note..... BB15.....	B3				7	55, 57, 58, 47, 80.....	115	4-16
"TransPacific".....	Vol. Sen.		15 7	N..... G.....	6			10..... 6-6-6.....	3 3	BB13..... CM175.....					8	6A7, 78, 6B7, 77, 45, 80.....	1580	5-2
"Universal Companion" AC-DC Battery Portable.....	Vol.		8	E.....		2		5-5.....	15	TN111.....					5	36, 37, 38.....		2-8,9
"Universal Mascot" AC-DC.....	Vol.		7	M.....	6	EX300		8-8-4..... 5-5.....	8 15	TN120..... TN111.....					5	39, 37, 36, 43, 25Z5.....		2-8
"Universal Companion" AC-DC Battery Portable (Revised).....	Vol.		4	C.....				4-4.....	1	2N500.....					7	36, 37, 33.....		2-9
"Trans-Atlantic".....	Vol. Sen.		15 7	N..... G.....	6	2		6-6-6..... 5-5.....	3 15	CM175..... TN111.....					8	6A7, 78, 6B7, 77, 45, 80.....	1580	5-1

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replace- ment	*Note				
INSULINE CORP.—Continued																		
"Americus" 5T Unaradio Super AC-DC	Vol.		17	N	6			32-16 5-5	27 15	2P553 TN111					5	6A7, 78, 6B7, 43, 25Z5	132	4-6
"Aiglon" 5T Unaradio Super. AC-DC	Vol.		17	N	6			4-8-8 5-5	8 15	TN120 TN111					5	6A7, 78, 6B7, 43, 25Z5	132	4-7
"Bijou" 5T Unaradio Super. AC-DC	Vol.		17	N	6			4-8-8 5-5	8 15	TN120 TN111					5	6A7, 78, 6B7, 43, 25Z5	132	4-9
"Atlantic" 5T Unaradio Super. AC-DC	Vol.		17	N	6			32-16 5-5	4 15	2P553 TN111					5	6A7, 78, 6B7, 43, 25Z5	132	4-8
"Latinic" 5T Unaradio Super. AC-DC	Vol.		17	N	6			32-16 5-5	27 15	2P553 TN111					5	6A7, 78, 6B7, 43, 25Z5	132	4-10
"Mignon" 5T Unaradio Super. AC-DC	Vol.		17	N	6			4-8-8 5-5	8 15	TN120 TN111					5	6A7, 78, 6B7, 43, 25Z5	132	4-11
"Uni-Nine"	Vol. Sil.		18 ↓	N E	6			32-16 10, 5, 5	27 15	2P553 BB12					9	78, 6A7, 85, 77, 443, 25Z5	115	4-15
"Gnome" 5T Unaradio Super AC-DC	Vol.		17	N	6			4-8-8 5-5	8 15	TN120 TN111					5	6A7, 78, 6B7, 43, 25Z5	132	4-12
"Pacific" 5T Unaradio Super. AC-DC	Vol.		17	N	6			32-16 5-5	4 15	2P553 TN111					5	6A7, 78, 6B7, 43, 25Z5	132	4-13
"Superheterodyne" 6T AC	Vol.		6	G7	6	2		8-8	1	See Note	B3				6	35, 24, 47, 80	175	3-1
"Superheterodyne" 7T 220V DC	Vol.		6	G7	6	2		8	39	See Note	B11				7	39, 36, 37, 71	175	3-1
INTERNATIONAL RADIO CORP.—"Kadette"	Vol.		77	M	6			A124	11	UR193	B31				5	6A7, 6D6, 6B7, 43, 25Z5	262.5	4-1,2
All Wave Duo	Vol. Tone Tone	R135 R134	22 6 22	M K12 UC501 M				8-8	4	See Note	B3				8	24, 27, 35, 47, 80		
Chassis D, DSP, (DA8, DA9, DA10, D11, D12, D14)	Vol.		56	M	6			A430	11	UR193	B31				5	6A7, 6D6, 6B7, 43, 25Z5	262.5	5-7
CB (Battery)	Vol.	R143	9	M	6			A416	19	BB15					5	1A6, 32, 30, 31, 33	262.5	5-3
CM	Vol.	R143	6	M	6			A414	27	2P542					5	6D6, 76, 38, 12Z3	262.5	5-4,8
CMS	Vol.	R143	6	M	6			A414	4	2P542					5	6A7, 6D6, 76, 38, 12Z3	262	5-3
CS	Vol.	R102	6	G7	6	3		A404	4	CM170	B3				5	35, 24, 47, 80	175	3-3,4
DAC (A7, BW, CD)	Vol.	R144	56	M	6			A429	27	2P544					5	6A7, 6D6, 6B7, 43, 25Z5	262.5	5-5
DAS (A8, A9, A10, AD11, AD12)	Vol.	R144	56	M	6			A430	11	UR193	B31				5	6A7, 6D6, 6B7, 43, 25Z5	262.5	5-6,8
ES (ES19, ES20, ES25)	Vol. Tone Vol.	R105 R104	56 22 7	M K12 UC509				A412	27	SR620					5	6A7, 6D6, 6B7, 43, 25Z5	262.5	5-8
Kadette	Vol.		7		6	EX150		A407	1	2N500					4	39, 36, 38, 1V		3-2
"F" Kadette Jr.	Vol.	R102	6	G7	6	3		A408	15	SR619					2	6F7, 12A7		4-3
"J" "JS"	Vol. Tone Vol.	R130	22 7 22	G K12	6	See Note 1	te A5	A427	1/15	UR183					5	35, 24, 47, 80	175	3-1,5
"KS"	Vol. Tone	R130	7 22	G K12	6	1		A404	4	CM170					8	35, 24, 27, 47, 80	175	3-1
"K6" (K6St, Regis)	Vol.	R106	17	UM154	M26	See Note	te A96	A402	1	2N518		G100	296	C3	6	6D6, 6F7, 75, 42, 84	262.5	5-1,2
K10	Vol.	R155	18	MR48				A417	15	BB12	B14				5	6A7, 6D6, 6B7, 43, 25Z5, 165R1	448	9-1
K25 to K28	Vol.	R184	18	MR48				A470	9/13	UR190/BB31	B163				5	6A7, 6D6, 6B7, 43, 25Z5, 165R1	448	9-2
K41, K43 (1938)	Vol.	R186	6			See Note	te A5	A467	4	2P552					3	6K7, 6J7, 25A7		9-2
KR20	Vol.	R198	18	MR48				30-8	1	2N512	B66				5	6K8, 6K7, 6B7, 25L6, 25Z6, 165R1	448	10-2
KRC2 (Tunemaster)	Vol.	R199	6	MR48				A482	24	2N514					4	6K8, 6K7, 6B8, 25Z6, K72B	1570	10-1
"M" (K40 Regal)	Vol. Tone Vol.		6 22 7	G12 G12				A3	4	BB61					4	35, 24, 47, 80		3-6
"P"	Vol.	R131	7			See Note	te A5	A4	1	BB60					4	78, 77, 38, 1V or 39, 36, 38, 6Z3		9-8
"T"	Vol.	R101	6	G7	6	3		A407	15	SR619					4	35, 24, 47, 80		3-5
"TS"	Vol.	R102	6	G12	6	3		A408	4	CM170					4	35, 24, 47, 80		3-5

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
INTERNATIONAL R	AUDIO C	ORP.	Continued															
10, 11, 12, 13, 14, 15, 16.....	Vol.	R155	17	MR48				A447	1	2N514				5	6D6, 6Q7, 25B5, 25Z5	448	8-1	
21, 22, 24.....	Vol.	R161	6	UC513		See Note A3		A417	15	BB12				4	6D6, 6C6, 43, 25Z5		8-1	
25.....	Vol.	R118	88	UC513		EX100		A449	4	SR620				4	6D6, 6C6, 41, 80		6-3	
26.....	Vol.	R128	88	UC513		EX200		A437	1/15	3S579				4	6J7G, 6F6G, 5Z4		6-1,2	
35.....	Vol.	R161	18	MR48				A438	1/15	3S579				5	6D6, 75, 41, 80	448	8-2	
	Tone	R165	22	MR33				A453	1/15	3S579				5				
36.....	Vol.	R162	18	N				A451	4	2N563				6	6D6, 76, 75, 41, 80	448	8-3	
	Tone	R163	31	K12										6				
40 (Jewel).....	Vol.	R111	88	UC513	6	EX200		A421	1/15	UR183				3	6C6, 12A7		6-4,7-1	
50.....	Vol.	R109	6	UC509	†	EX250		A419	4	CM172				4	57, 47, 80		6-4	
52.....	Vol.	R121	88	UC513	†	EX200		A438	1/15	3S579				5	6A8G, 6K7G, 6J7G, 6F6G, 5Z4	448	6-5,6	
53 (Early, Late).....	Vol.	R119	6	UC509		EX250	A27	A439	1	2N518				5	6A8G, 6K7G, 75 or 6J7G, 5Z4, 6F6G	448	6-7,8	
	Tone	R115	17	N			A4	A417	15	BB11				5				
55.....	Vol.	R122	34	K12	6									4	57, 47, 80		6-10	
"AW" 55.....	Vol.	R109	6	UC509		EX250		A419	4	CM172				6	24, 56, 58, 47, 80	445	3-4	
56.....	Vol.	R132	7	H	6	2		8-4	4	CM172				4	6D6, 6C6, 41, 80		6-3	
56X.....	Vol.	R118	88	UC513		EX100		A437	1/15	3S579				5	6A7, 6D6, 75, 25B5, 25Z5, 165R4	448	8-4	
	Vol.	R170	18	MR48				A456		2N512				5	6A7, 6D6, 6B7, 43, 25Z5	262	6-10	
60.....	Vol.	R105	56	M				A412	27	SR620				5	6A7, 6D6, 6B7, 43, 25Z5	448	6-11,12	
	Tone	R104	22	K12										5	6A7, 6D6, 6B7, 43, 25Z5	262	6-13	
61.....	Vol.	R115	56	N				A440	6	2N509				5	6A8G, 6K7G, 6B7, 43, 25Z5	448	6-11,12	
	Tone	R122	22	K12	6			A417	15	BB11				5	6A7, 6D6, 6B7, 43, 25Z5	262	6-13	
65.....	Vol.	R105	56	M				A412	27	SR620				5	6A7, 6D6, 6B7, 43, 25Z5	448	6-11,12	
	Tone	R104	22	K12										5	6A7, 6D6, 6B7, 43, 25Z5	262	6-13	
66.....	Vol.	R139	6	UC509	6	EX150		A422	4	2P552				5	6D6, 76, 43, 25Z5	448		
66X.....	Vol.	R159	6	L	6	EX250		A443	4	2P552				5	6D6, 6C6, 43, 25Z5, 165R4 Ballast Tube	448	7-1,2	
70.....	Vol.	R113	40	K12				A416	19	BB15				5	1A6, 32, 30, 33	262	6-13	
	Tone	R112	22	K12										5				
71.....	Vol.	R117	56	N				A416	19	BB15				5	1A6, 34, 25S, 30, 33	456	6-14	
	Tone	R116	22	K12										5				
71C.....	Vol.	R117	56	N				A431	12	BB20				5	1C6, 34, 25S, 30, 33	456	6-14	
72.....	Vol.	R123	17	N				A442	12	BB31				5	1C6, 31, 25S, 30, 19	448	6-15,16	
76, 76X.....	Vol.	R154	6	SRP263	6	EX300		A450	4	2P552				5	6D6, 6C6, 43, 25Z5, 165R4 Ballast Tube	448	8-4	
77 (777, 778, 779).....	Vol.	R151	6	UC509	6	EX250		A444	4	SR620				6	6A7, 6D6, 76, 43, 25Z5	448	7-3,4	
85.....	Vol.	R105	56	M	6			A412	27	SR620				5	6A7, 6D6, 6B7, 43, 25Z5	456	6-17,18	
86.....	Vol.	R159	6	L	6	EX250		A443	4	2P552				5	6D6, 6C6, 43, 25Z5, 165R4 Ballast Tube	448	7-2	
86X.....	Vol.	R170	18	MR48				A456	1	2N512				5	6A7, 6D6, 75, 25B5, 25Z5, 165R4	448	8-4	
87 Series.....	Vol.	R157	17	N	6			A444	4	SR620				6	6A7, 6D6, 75, 43, 25Z5, 878R48 Ballast Tube	448	7-5,6	
90.....	Vol.	R145	17	M				A425	1/15	UR183				4	6D6, 6C6, 75, 12A7	262/456	6-19,20	
96.....	Vol.	R160	6	L	6	EX250		A443	4	2P552				5	6D6, 6C6, 43, 25Z5, 165R4 Ballast Tube	448	7-2	
105, EL105.....	Vol.	R115	56	N				A435	1	ST595				6	6A7, 6D6, 85, 76, 42, 80	456	6-21,22	
	Tone	R114	22	K12	6			A436	1	ST595				6				
120.....	Vol.	R115	15	N				A417	15	BB12				7	6K7G, 6A8G, 6H6G, 6C5G, 6F6G, 5Y3	448	6-23,24	
	Tone	R122	22	K12	6			A439	1	2N518				4	6A8, 6K7, 6Q7, 25A7	448	8-5	
150, 151.....	Vol.	R183	18	MR48	M26			A417	15	BB12				2	6J8G, 25Z5		9-8	
210 (Converter).....	Vol.	R128	88	UC513		EX200		A480	1	2N500				4	6J7, 6F6, 5Z4		6-1,2	
226.....	Vol.	R152	17	N	7			A438	1/15	3S579				4	1C6, 34, 25S, 950	448	7-8	
400.....	Vol.	R156	17	N	7			A417	15	BB12				5	1C6, 334, 25S, 33	448	7-9,10	
500.....	Vol.	R119	6	UC509		EX250	A27	A462	4	2P552				5	6A8G, 6K7G, 6J7 or 75, 6F6G, 5Z4 or 5Y3	448	6-7,9	
553 (Early, Late).....	Vol.	R115	17	N			A4	A417	15	BB11				5	6D6, 6C6, 43, 25Z5, 165R4	448	9-2	
	Tone	R122	22	K12	6	EX250								5	6A7, 6D6, 6H7, 43, 25Z5, 165R4	448	9-3	
617.....	Vol.	R159	6	MR39		EX250		A443	4	2P552				6	6D6, 75, 41, 76, 80	448	9-3	
630AC.....	Vol.		18	MR48				A159	9	3S582				5	6A7, 6D6, 6H7, 43, 25Z5, 165R4	448	9-3	
	Vol.							A460	9/13/15	3S582				6	6D6, 75, 41, 76, 80	448	9-3	
634, 635.....	Vol.	R162	18	MR48				A151	4	2N563				5				
	Tone	R163	34	K12										5				
661.....	Vol.	R115	56	N				A440	6	2N509				3	6A8G, 6K7G, 6B7, 43, 25Z5	448	6-11,12	
	Tone	R122	22	K12	6			A417	15	BB11				5	6D6, 76, 43, 25Z5	448		
666.....	Vol.	R139	6	UC509	6	EX250		A422	4	2P552				5	6D6, 6C6, 43, 25Z5, 165R4 Ballast Tube	448		
676.....	Vol.	R154	6	SRP263	6	EX300		A450	4	2P552				6	6A7, 6D6, 6H6, 6C5, 43, 25Z5, 140R4	448	9-3	
735.....	Vol.	R182	75	MR48				A459	9	3S582				6	6A7, 6D6, 6H6, 6C5, 43, 25Z5, 140R4	448	9-3	
	Vol.							A460	9/13/15	3S582				6	6A7, 6D6, 6Q7, 25B5	448	9-5	
739.....	Vol.	R176	18	MR48				A157	9	UR192/BB33				6	6A7, 6D6, 6Q7, 25B5, 76, 25Z5, 140H8	448	9-5	
	Tone	R179	44	K12				A458	9/13	3S582				6				

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS								CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
INTERNATIONAL RADIO 777, 778, 779.....	ADIO C Vol.	ORP.—Continued R151	6	UC509	6	EX250		A444	4	SR620					6	6A7, 6D6, 76, 343, 25Z5	448	7-3	
845.....	Vol. Tone	R251 R179	75 34	MR48 K12				A457 A458	9 9/13	UR192/BB33 3S582					7	6A7, 6D6, 6116, 76, 6K5, 25B5, 25Z5, 120R8	448	10-1	
950.....	Vol. Tone	R176 R179	75 44	MR48 K12				A457 A458	9 9/13	UR192/BB31 3S582					8	6A7, 6D6, 76, 6K5, 6116, 6K5, 25B5, 25Z5, 100R8	448	9-5	
1019.....	Vol.	R185	62	M	6			8-8-8-12	29	UR190	B89				7	6A7, 6D6, 76, 741, 25Z5	448	8-6	
1030, 1035.....	Vol.	R185	62	M	6			A468	29	UR190	B89				7	6A7, 6D6, 76, 741, 25Z5, 320R4, 200R, 250R	448	9-9	
1050.....	Vol. Tone	R115 R114	56 22	N K12				A435 A436 A417 A469	1 1 15 9	ST595 ST595 BB12 UR190					6	6A7, 6D6, 85, 76, 42, 80	456	6-22	
1129.....	Vol. Tone	R191 R192	62 34	MR48 K12				A469	9	UR190					8	6A7, 6D6, 76, 741, 25Z5, 300R4, 200R, 250R	448	9-7	
1140.....	Vol. Tone	R191 R189	62 149	MR48 K12				A469	9	UR190					8	6A7, 6D6, 76, 741, 25Z5, 300R4, 200R, 250R	448	9-9	
1149.....	Vol. Tone	R191 R192	62 34	MR48 K12				A469	9	UR190					7	6A7, 6D6, 76, 25Z5, 300R4, 200R, 250R	448	9-7	
1159.....	Vol. Tone	R188 R189	62 34	MR48 K12				A469	9	UR190					8	6A7, 6D6, 76, 741, 25Z5, 300R4, 200R, 250R	448	9-7	
1200, 2200.....	Vol. Tone	R115 R122	62 34	N K12				A439 A417	1 15	2N518 BB12					7	6K7G, 6A8G, 6H6G, 6C5G, 6F6G, 5Z4	448	6-23, 24	
3734.....	Vol. Tone	R162 R163	18 31	MR48 K12				A451	4	2S563					6	6D6, 75, 41, 76, 80	448	9-3	
INTEROCEAN RADIO 202.....	O CORP. Vol.	—Also see Zenith P1008	17	MR48	M26			P1003	4	RM262					5	2A7, 58, 2A6, 2A5, 80	456	10-1	
204.....	Vol.	V600	7	Z12	6			C538	11	UR182					4	6A7, 6E7, 43, 25Z5	175	10-2	
500, 515, 516.....	Vol. Tone	63-235 63-232	15 34	N	6			22-173 22-172	23 23	CS133 CS130					8	58, 56, 75, 59, 80	456	7-1.2	
505.....	Vol.	256	18	MR48	M26			106	11	UR193					5	6A7, 6D6, 75, 43, 25Z5	456	10-2	
508.....	Vol. Tone	E608 E635	18 22	N K12	6			E607 E636	1/13 15	3S584 BB12				6	58, 2A7, 2A6, 2A5, 80	456	10-3		
511.....	Vol. Tone	E608 E635	18 34	N K12	6			E607	1/13	3S584					8	58, 2A7, 2A6, 2A5, 80, 56	456	10-3	
520, 521, Chassis 2035.....	Vol. Tone	63-231 63-232	20 41	TM230-SS1 N	M26			22-167 22-169	28 15	WE850 BB13					10	56, 57, 58, 59, 80	175	5-1.2	
522 (Ch. 508).....	Sen. Vol. Tone	63-234 E608 E635	7 18 22	K N K12	6			E607 E636	1/13 15	3S584 BB12					6	58, 2A7, 2A6, 2A5, 80	456	10-3	
524 (Ch. 511).....	Vol. Tone	E608 E635	18 34	N K12	6			E607	1/13	3S584					8	58, 2A7, 2A6, 2A5, 56, 80	456	10-3	
525, 525A (Ch. 508).....	Vol. Tone	E608 E635	18 22	N K12	6			E607 E636	1/13 15	3S584 BB12					6	58, 2A7, 2A6, 2A5, 80	456	10-3	
527, 527A (Ch. 511).....	Vol. Tone	E608 E635	18 34	N K12	6			E607	1/13	3S584					8	58, 2A7, 2A6, 2A5, 56, 80	456	10-3	
530, 531, 533, Chassis 2038.....	Vol. Tone	63-231 63-232	20 41	TM230-SS1 N	M26			22-167 22-169	28 15	WE850 BB13					12	56, 57, 58, 59, 80	175	5-3, 4	
JACKSON BELL CO. S.....	LTD. Vol. Reg.		3	C	6			4-2	1	See Note	B1				8	26, 27, 71, 80			
4.....	Vol. Tone		6	G12	6			4, 4	23	ST595					4	27, 47, 80		7-1	
5A.....	Vol.		10	C				2-2	1	See Note	B1				5	26, 27, 71A, 80		5-1	
8.....	Vol. Reg.		3	C	6			4-2	1	See Note	B1				8	26, 27, 71, 80			
8 (45 Output).....	Vol. Reg.		6	C	6			4-1-2	3	See Note	B1				8	26, 27, 45, 80			
24.....	Vol. Tone		6	A G12	6			4, 4	23	ST595					4	27, 47, 80	175	3-1	
25.....	Vol.		6	M				4, 4	4	ST595					5	35, 24, 47, 80	175	3-2	
25A, 25U.....	Vol.		6	G12	6			4, 4	4	ST595					5	24, 58, 47, 80	175	3-3	
26.....	Vol.		6	G7	6	2		8, 8	4	ST595					5	24, 47, 80		3-4	
26S, B, L.....	Vol.		6	G7	6	3		8-4	23	2S567					6	50, 57, 58, 47, 80	175	3-6	
27 Type 1.....	Vol.		6	G12	6			8, 8	4	ST595					7	51, 24, 27, 47, 80	175	3-5	
27 Type 2.....	Vol. Tone		6 22	G12	6			8, 8	23	ST595					7	24, 27, 35, 47, 80	175	3-6	
28.....	Vol. Tone		6 22	G12 G12	6			8, 8	4	ST595					8	35, 27, 24, 47, 80	175	3-7, 8	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	=Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
JACKSON BELL—Continued																		
29.....	Vol. Tone		22	N. G12	6			8, 8	23	ST595					9	24, 27, 35, 47, 80	175	3-9, 10
33.....	Vol. Tone		6	D12	6			4-4	1	2N518					3	24, 27, 80	840	2-1
50.....	Vol. Tone		22	G12				8-8	4	28567					5	24, 45, 80		7-2
59.....	Vol. Tone		6	C12				2-4	1	See Note	B1				7	26, 27, 71, 80		7-3
60.....	Vol. Tone		6	C				8, 8	1	ST595					7	24, 26, 71A, 80		7-3, 5
62, 63, 64.....	Vol. Tone		6	D7				8	41	RS213				6	24, 45, 80		3-3	
62 Series 2 and 3.....	Vol. Tone		22	G12				2-4	41	See Note	B3			6	24, 45, 80		7-4, 5	
68.....	Vol. Tone		6	D7	6	3		8, 8	4	RS213				8	24, 27, 45, 80		7-5, 6	
69 DC.....	Vol. Tone		85	G12				8, 8	25	RS213				8	24, 27, 45, 80		7-5, 6	
69 DC.....	Vol. Tone		12	H12				8-8	1	See Note	B3			7	32, 30, 31			
79.....	Vol. Tone		22	G12				8, 8	4	RS213				8	35, 24, 27, 45, 80	175		
81 "Peter Pan".....	Vol. Tone		7	D	6			10	15	BB12				4	24, 47, 80		6-1	
86.....	Vol. Tone		6	G12	6	2	EX300	4, 4	23	ST595				4	24, 47, 80		5-2	
87.....	Vol. Tone		6	G12	6	2		4, 4	23	ST595				6	24, 27, 35, 47, 80	175	5-2	
88.....	Vol. Tone		6	D7	6	1		4	23	RS213				7	27, 35, 17, 80, 24	175	6-2	
88.....	Vol. Tone		22	N				8	23	RS213				8	24, 27, 35, 47, 80	175	6-3	
89.....	Vol. Tone		6	G7	6	1		8, 8	23	ST595				8	24, 27, 35, 47, 80	175	6-3	
89.....	Vol. Tone		22	N														
89.....	Vol. Tone		7	D7	6	2		4, 4, 4	3	ST595				8	27, 24, 35, 47, 80	175	4-1	
89A.....	Vol. Tone		41	G12				10	15	BB12				9	24, 27, 35, 47, 80	175	6-4	
96.....	Vol. Tone		6	G7	6	1		4-4	1	2N518				6	24, 27, 35, 47, 80		5-2	
96.....	Vol. Tone		39	N			EX300	4, 4	1	ST595				6	24, 27, 47, 80		5-2	
99.....	Vol. Tone		6	D7	6	1		4	13	CS131				9	24, 27, 35, 47, 80	175	5-1	
205 Auto.....	Vol. Tone		39	N				4-4	13	CS131				9	24, 27, 35, 47, 80	175	5-1	
645M.....	Vol. Tone		118	M	6			4	13	CS131				5	55, 57, 58, 17	465	3-1	
845S.....	Vol. Tone		21	C	6			5	19	BB11				6	27, 45, 80		7-1	
845S.....	Vol. Tone		6	C	6			4-1	1	See Note	B1			8	27, 45, 80		7-1	
845S.....	Vol. Tone		39	N														
JACKSON RADIO & TELEVISION CO.																		
417, J104, J01A.....	Vol. Tone		6	G12	6	EX250		1, 4	1	ST595				4	24, 47, 80		5-8	
SP547, 504B, J105, LK447.....	Vol. Tone		69	G7				1, 4	1	ST595				5	57, 47, 80 or 82		5-4	
JACKSON RESEARCH CO.																		
NJ8.....	Vol. Tone		12	K12				2-2	1	See Note	B1			8	24, 27, 45, 80	175	5-15	
JEFFERSON																		
616SPAMP.....	Vol. Tone		82	TRP609				16, 16	12	CS136				8	6J7, 6N7, 6F6, 6L6, 783			
								8, 8	2	CS133								
								2	13	CS130								
								10	15	BB13								
KADETTE—Also see																		
L25.....	Vol. Tone	International	18	MR44	M26			20-12	1	2N509				5	12SA7, 12SK7, 12SQ7, 35L6, 35Z5		1	5-11-4
L40.....	Vol. Tone		18	MR44	M26			20-12	1	2N509				5	12SA7, 12SK7, 12SQ7, 35L6, 35Z5		1	5-11-4
L41.....	Vol. Tone		18	MR48				20-12	1	2N509				5	12SA7, 12SK7, 12SQ7, 35L6, 35Z5		1	5-11-4
KARADIO CORP.																		
56.....	Vol. Tone		17	UM147				See Note	A96					6	77, 78, 6F7, 75, 741	456	5-9	
57B.....	Vol. Tone		18	UM147				See Note	A96	8-4			296	6F7, 741, 75, 77, 78, 84	456			
	Vol. Tone		44	UM147				See Note	A96	.01				7	6F7, 741, 75, 77, 78, 84	456		
COLIN B. KENNEDY																		
5F AC-DC.....	Vol. Tone	Y CORP.	6	K			A34	D324	11	UR182	B118			4	6E7, 6D7, 43, 25Z5			
F.....	Vol. Tone		15	N				3288	1	CM172				12	78, 6A7, 85, 76, 742, 780	465	6-4	
	Vol. Tone		22	Y				3004	1	RM262								
	Vol. Sen.		7	Y10MP				1948	18	RS213								
Royal.....	Vol. Tone		11	A10MP			18/26	8-8-8	3	RM265				8				1-5
10.....	Vol. Tone		406	A10MP			A18	302	3	RM265				8	27, 45, 80			1-4
20.....	Vol. Tone		406	A10MP			A18	317	3	RM265				8	24, 27, 45, 80			1-3, 4
22.....	Vol. Tone		25	CG				6-6	24	See Note	B11			7	22, 312A, 71A			2-1, 2
26.....	Vol. Tone		25	CG				8-8-8	3	RM265				8	24, 27, 45, 80			1-6
	Vol. Tone		22	K12														
30, 32.....	Vol. Tone		12	A10MP				8-8-8	3	RM265				8	24, 27, 45, 80			1-7
	Vol. Tone		12	K12														
34.....	Vol. Tone		12	G12										3	24			1-8, 9
36, 38, 40.....	Vol. Tone		117406	CG				6-6	24	See Note	B11			7	22, 312A, 71A			2-1, 2
42 "Coronet".....	Vol. Tone		117406	K12	6			6-16	1	See Note	B3			6	24, 27, 45, 80			1-11

1 Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
COLIN B. KENNEDY	Y—Cont	inued																
42B.....	Vol.	6	G7	6	1		8-8	1	See Note	B3				6	251, 27, 47, 80		4-1	
44.....	Vol.	40	G12				8-16	1	See Note	B3				6	24, 27, 45, 80		2-4	
48.....	Vol.	12	G12				8-8-8	3	See Note	B3				8	24, 27, 45, 80		2-5	
	Tone	22	K12	6														
50.....	Vol.	16406	G7		1		15302	1	RS213					5	35, 24, 47, 80		2-6	
	Vol.	16302					16302	1	RS213									
52.....	Vol.	16406	G7		1		16302	1	RS213					5	35, 27, 47, 80	175	2-7	
	Tone	15369	K12	6			17302	1	RS215									
55.....	Vol.	6	G7	6	1		1-10-302	1	CM172					4	58, 57, 47, 80		4-2	
56.....	Vol.	26406	G7	6	1		16302	1	RS213					8	251, 24, 27, 47, 80	175	2-12	
	Tone	25369	K12	6			17302	1	RS215									
"Royal" 60.....	Vol.	35	N				1.5-1-4	3	See Note	B1				7	26, 27, 71A, 80		1-5	
62.....	Vol.	17406	N	6			16302	3	RS213					10	35, 27, 47, 80	175	2-13, 14	
	Tone	16369	K12	6			27302	3	RS213									
							48302	3	CS133									
62A.....	Vol.	14	N				16302	3	RS213					10	27, 35, 47, 80	175	3-1, 2	
	Tone	22	K12	6			27302	3	RS213									
							48302	3	CS133									
62D (882).....	Vol.	127	N	6			8	3	RS213	B3				10	55, 57, 56, 58, 47, 80	175	3-3, 4	
	Tone	44	K12	6			8	3	RS213	B3								
	Sil.	8	G															
63, 63A (563A).....	Vol.	17	N	6			110302	1	CM172					5	55, 57, 58, 47, 80	175	3-5, 6	
64.....	Vol.	6	G7	6			10, 10	1	RS215					10	24, 35, 27, 47, 80	175	2-15	
	Tone	22	K12	6														
64B (164B).....	Vol.	6	G7	6	1		10, 10	1	RS215					10	35, 37, 58, 47, 80	175	3-7, 8	
	Tone	22	K12	6														
64C (882).....	Vol.	127	N	6			8, 8	3	ST595					10	55, 56, 57, 58, 47, 80	175	3-9, 10	
	Tone	41	K12	6			8	3	BB61									
	Sil.	8	G															
66, 66A.....	Vol.	16	N	6			16302	3	RS213					12	24, 27, 35, 47, 80	175	3-11, 12	
	Tone	22	K12	6			27302	3	RS213									
							48302	3	CS133									
66B (266B, 366B).....	Vol.	16	N	6			16302	3	RS213					12	56, 57, 58, 40, 47	175	3-13, 14	
	Tone	22	K12	6			27302	3	RS213									
							48302	3	BB61									
80.....	Vol.	35	N				1-1.5-4	3	See Note	B1				9	26, 27, 71, 80		1-12	
164B (Chassis 64B).....	Vol.	6	G7	6	1		10, 10	1	RS215					10	58, 57, 56, 47, 80	175	3-7	
	Tone	22	K12	6														
266B (Chassis 66B).....	Vol.	16	N	6			8, 8	3	RS213					12	58, 57, 56, 47, 80	175	3-13	
	Tone	22	K12	6			8	3	BB61									
366B (Chassis 66B).....	Vol.	16	N	6			8, 8	3	RS213					12	58, 57, 56, 47, 80	175	3-13	
	Tone	22	K12	6			8	3	BB61									
826B.....	Vol.	25	GK	6			8-8-8	3	RM265					11	24, 27, 45, 80		1-12	
	Tone	22	K12	6														
	Reg.	12	G12															
KING MFG. CORP.	—See Sears Roebuck																	
KINGSTON PRODUCTS CORP.	CTS CORP.																	
"Gypsy".....	Vol.	6	G7	6	3		8-8	1	2N502					5	77, 78, 38, 1V	456	5-1	
	Vol.	6	G12	6			5-5	15	TN111									
55.....	Vol.	6	G12	6			12-8-12-12	6/15	3N526/BB15					5	78, 77, 38, 12Z3	456	5-1	
500, 500A.....	Vol.	E17065	N	6			10	15	BB12					5	6A7, 61D6, 75, 42, 80	456	5-2	
600A, 600B, 610B.....	Vol.	E17020	N	6			6-6	15	2N518					6	78, 6A7, 75, 42, 80		5-3	
	Tone	21	N	6			4-17080	15	BB12									
			N	6			6-6	15	2N518									
			BB12				10	15	BB12									
700, 700A, 700B.....	Vol.	E17020	N	6			E17125	1/15	CM172					7	76, 61D6, 75, 42, 80		5-4	
	Tone	34	L	6			E17217	1	RS213									
							12	15	BB12									
KNIGHT —See "Allied"																		
KOLSTER RADIO, Inc.																		
6F, 6J, 6K, 6L, 6M, 6N.....	Vol.	29	†		See Note	te A48	2-2-2	30	See Note	B1				7	26, 27, 71, 80		1-2	
7 Tube (600 & 250).....	Vol.	5	†		See Note	te A5	2-2-2	30	See Note	B1				8	26, 27, 71A, 80			
K20.....	Vol.	10	H12				2-2-2	30	See Note	B1				7	26, 27, 71, 80		1-3	
K21, K22, K23.....	Vol.	10	H12				2-2-1	30	See Note	B1				8	26, 27, 71A, 80		1-3, 4	
K24 (210 O.P., 250 O.P.).....	Vol.	4	H12				3-4-2	30	See Note	B2				9	26, 27, 10 or 50, 81		1-5	
K25, K27, K28.....	Vol.	40	Y				2-2-1	30	See Note	B1				7	26, 27, 71A, 80		1-3, 4-1	
K30, K32.....	Vol.	10	Y											6	01A, 71A		1-6	
K38.....	Vol.	14	K12				3-2-2	30	See Note	B2				9	27, 50, 81, 886		4-2	
K42.....	Vol.	40	Y	6			2-2-2	30	See Note	B1				8	26, 27, 71, 80		1-7	
K43, K43A.....	Vol.	25	DRP244				2-1-5	30	See Note	B1				8	24, 27, 45, 80		1-8	
K44.....	Vol.	25	DRP244				2-2	1	See Note	B2				9	24, 27, 45, 81		1-9	
K45.....	Vol.	4	†		See Note	te A3	2-2	1	See Note	B2				11	24A, 27, 50, 81		1-10	
K48.....	Equal	40	Y		See Note	te A3	2-2-1	41	See Note	B3				7	24, 27, 45, 80		1-10	
		7	A1MP		See Note	te A3												

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
KOLSTER - Continued																		
K60, K62	Vol.		8	A5M1				8-8-8	26	See Note	B3				7	24, 35, 47, 80, 27	175	1-11, 2-4
K63	Vol.		10/12	DRP239				4	12	See Note	B11				7	36, 37, 38	175	3-1
K70, K72	Vol.		59	1112				8-8-8	26	See Note	B3				8	24, 27, 35, 47, 80	175	1-12, 2-5
K73	Vol.		10/12	DRP239				4	12	See Note	B11				7	36, 37, 38	175	3-1
K80, K82	Vol.		59	1112				8-8-8	26	See Note	B3				9	24, 27, 35, 47, 80	175	1-13
K83	Vol.		10/12	DRP239				4	12	See Note	B11				9	34, 37, 38	175	3-2
K90, K92	Vol.		59	1112				8-8-8	26	See Note	B3				10	24, 27, 35, 47, 80	175	1-14
K93, K103	Vol.		40/12	DRP239				4	12	See Note	B11				9	36, 37, 38	175	3-1, 2
K110	Vol.		15	Z				6-6-6	26	CM175					8	56, 58, 17, 80	175	3-3, 4
K113	Vol.		15	Z				4	12	See Note	B11				8	37, 38, 39	175	3-9
K114	Vol.		15	Z				8	12	BB31					9	30, 34	175	3-6
K120, K122	Vol.		15	Z	6			6-6-6	26	CM175					8	56, 58, 17, 80	175	3-3, 4
K123	Vol.		15	Z				4	12	See Note	B11				8	37, 38, 39	175	3-9
K130, K132	Vol.		15	Z	6			6-6-6	5	CM175					9	56, 58, 17, 80	175	3-7, 8
K133	Vol.		15	Z				4	12	See Note	B11				10	37, 38, 39	175	3-5
K140, K142	Vol.		15	Z	6			8-8-8	26	CM175					10	56, 58, 17, 80	175	3-10, 11
K143	Vol.		15	Z				4	12	See Note	B11				10	37, 38, 39	175	3-5
K165 "Intern'T"	Vol.		15	K12				6-6-6	10/23	CM175					8	56, 58, 17, 80	535	
K175 "Intern'T"	Vol.		15	Z	6			6-6-6	10/23	CM175					8	56, 58, 17, 80	505	
S.W. "Converter"	Vol.		11	K12				6-6-6	10/23	CM175					3	56, 57, 58		3-12
KYLECTRON - See United Reproducers																		
LAFAYETTE RADIO & TELEVISION CO.																		
Fireside No. 1	Vol. Tone		7	F	6		A14	8, 8	34	ST595					7	35, 24, 27, 47, 80	175	8-1
Fireside No. 2	Vol. Tone		22	K12														
2Y2280	Vol.		8	G	6			8, 8	4	ST595					7	58, 57, 56, 17, 80	175	8-1
Mighty Atom	Vol.		6	MR39	M26			2-2-1	4	See Note	B1				5	51, 24, 17, 80		9-2
Thriller	Vol.		6	MR18				4, 4	4	ST595					5	57, 58, 17, 80	175	9-8
A7	Vol. Tone	512	6	G	6	2		533	4	CM170					7	56, 57, 58, 17, 80	115	5-2
AM8	Vol. Tone	1315	18	M				721	4	BB61					8	6A7, 75, 76, 78, 43, 25Z5	175	5-1
AM10	Vol. Tone	1317	21	M				1085/1295	8	UR182					7	76, 77, 78, 43, 25Z5	115	5-1
AM10	Vol. Tone	1296	6	G12	6			1085, 1295	8	UR182					7	76, 77, 78, 43, 25Z5	115	5-1
AM10	Vol. Tone	1317	22	M	6			928	15	BB15					5	77, 78, 43, 25Z5	175	5-5
A11	Vol. Tone		6	G12	6			928	15	BB15					5	77, 78, 43, 25Z5	175	5-5
A12	Vol. Tone	535	76	N	6			496	4	CM170					5	6A7, 78, 75, 42, 80	175	5-5
A14	Vol. Tone	534	76	M				928	19	BB15					5	78, 6A7, 75, 43	175	5-6
A14	Vol. Tone	535	18	N	6			1085	8	UR182					5	78, 6A7, 75, 43	175	5-6
A15	Vol. Tone	534	21	M				928	15	BB15					5	77, 78, 43, 25Z5	175	5-2
A15	Vol. Tone	853	6	G12	6			1085	8	UR182					5	77, 78, 43, 25Z5	175	5-2
A19	Vol. Tone	512	6	G12	6	2		928	15	BB15					6	77, 78, 43, 25Z5	115	5-6
A20	Vol. Tone	534	22	M				928	15	BB15					7	56, 58, 2A6, 2A5, 80	175	6-7
A20	Vol. Tone		18	N				8, 8, 8	4	RS213					7	56, 58, 2A6, 2A5, 80	175	6-7
A70	Vol. Tone		21	M											7	78, 75, 76, 42, 80	456	12-6
A77	Vol. Tone		17	MR48				4-4-4	4	3S584	B3				7	78, 75, 76, 42, 80	456	12-6
A77	Vol. Tone		21	MR44											7	78, 75, 76, 42, 80	456	12-6
A81, A81L	Vol. Tone	19-1296	6	G7	6			18-1085	8	TN122					5	6A7, 78, 77, 43, 25Z5	175	10-10
A81, A81L	Vol. Tone	19-1291	76	MR48	M26			18-1271	1	CM172					5	6A7, 78, 75, 42, 80	456	10-10
A81, A81L	Vol. Tone	19-1317	76	MR44				18-928	19	BB15					5	6A7, 78, 75, 42, 80	456	10-10
AM20	Vol. Tone		18	UM151			See Note A96	6-6	2	See Note	B3		296	C3	6	75, 77, 78, 41, 84	175	6-8
AM25	Vol. Tone	1296	6	G12	6			25	15	BB15					6	75, 77, 78, 41, 84	175	6-8
AM25	Vol. Tone		6	G12	6			.015	8	Buffer	B14				5	77, 78, 43, 25Z5	115	5-3
AM26	Vol. Tone	1291	17	N	6			1295	8	UR182					5	77, 78, 43, 25Z5	115	5-3
AM26	Vol. Tone		17	N	6			928	15	BB15					5	77, 78, 43, 25Z5	115	5-3
AM26	Vol. Tone		17	N	6			721	25	See Note	B3				5	6A7, 75, 78, 42, 80	175	5-3
AS-5	Vol. Tone		6	MR18				1379	25	See Note	B3				5	6A7, 75, 78, 42, 80	175	5-3
AS-5	Vol. Tone		6	MR18				928	19	BB15					5	6A7, 75, 78, 42, 80	175	5-3
AS-6	Vol. Tone		17	MR18				14-8	6	2N501					1	6D6, 6C6, 43, 25Z5		9-3
AS-6	Vol. Tone		17	MR18				8-5	15	TN111					5	6A7, 6D6, 75, 43, 25Z5, L55-S1	465	9-3
B30	Vol. Tone		7/15	DRP315	6			10-20	6	2N507					5	6A7, 6D6, 75, 43, 25Z5, L55-S2	465	9-3
B30	Vol. Tone		7/15	UC504				10-10	15	TN111					12	46K7, 75, 76, 36F6, 80	456	10-3
B30	Vol. Tone		7/15	DRP315				30	25	WE3050					12	46K7, 75, 76, 36F6, 80	456	10-3
B30	Vol. Tone		7/15	UC504				18	25	RS216					12	46K7, 75, 76, 36F6, 80	456	10-3
B30	Vol. Tone		7/15	DRP315				125	19	HC5001					12	46K7, 75, 76, 36F6, 80	456	10-3
B30	Vol. Tone		7/15	UC504				16	25	RS216					12	46K7, 75, 76, 36F6, 80	456	10-3
B35, B36	Vol. Tone		7/15	DRP315	6T			125	19	HC5001					10	46K7, 75, 76, 345, 80	456	10-5
B35, B36	Vol. Tone		7/15	UC504				11	4	RS216					10	46K7, 75, 76, 345, 80	456	10-5
B35, B36	Vol. Tone		7/15	UC504				18	4	RS216					10	46K7, 75, 76, 345, 80	456	10-5
B51, B52, B53, B54	Vol. Tone	P96008	17	P	6			4	13	RS203					12	55, 56, 58, 45, 82	175	5-4
B51, B52, B53, B54	Vol. Tone	P97006	41	UC504				P80984	2/13	UR191/BB21	B164				12	55, 56, 58, 45, 82	175	5-4
B60	Vol. Tone	P96009	15	O				44	4	BB31					9	30, 34, 10AB	175	5-5, 6
B60	Vol. Tone	P97005	41	UC502				P80968	12	BB31					9	30, 34, 10AB	175	5-5, 6
B61	Vol. Tone	P96001	6	TRP602	14			P80968	12	CS131					5	32, 34, 30, 19	175	11-4

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
LAFAYETTE—Continued																		
B62	Vol.	P96017	17	P	6			P82002	2/15	CM175		P2229	286S	C3	5	6C6, 6D6, 75, 41	175	6-12
	Vol.	P96014	56	N	6			.007		Buffer	B14				6	6F7, 6D6, 6B7, 12A5, 12Z3	175	11-5
B64	Vol. Tone	P97011	34	UC502				P81016	23	2S567					6	6F7, 6D6, 6B7, 12A5, 12Z3	175	11-6
B65	Vol.	P96012	45	O				.015		Buffer	B14				7	34, 30, 19	175	11-6
BB75	Vol.	36X275	124	Order from MR55	Mfr.			P81014	24	CM164		R19A33D	248	C3	6	6SK7, 6SA7, 6B8G, 6K6G, 6N7G	456	12-7, 8
B78	Vol. Tone	40X212F	22	Order from MR55	Mfr.			40-20-20	24/15	FPT346					16	6K7, 376, 6F7, 6B7, 2A3, 45, 35Z3	456	10-11, 15
	Vol. Tone		7/15	Order from MR55	Mfr.			.008		WE3050								
	Vol. Tone		34	O				30	3	RS208								
	Vol. Tone							60	13	CM172/BB34								
B90 (N) Late	Vol. Tone		17	UM163-SS3	M26			4-1-16	13/1	BB42					6	6D6, 6C6, 75, 41, 84	175	10-18
	Vol. Tone		34	UC502				12	13	3S579		294	C3	6	6D6, 6C6, 75, 41, 84	175	10-17	
B90 (R) Early	Vol. Tone		17	UM163-SS3				8-5-4	4/15	Buffer	B14				6	6D6, 6C6, 75, 41, 84	175	10-17
	Vol. Tone		34	UC502				.0075	4/15	3S579		294	C3	6	6D6, 6C6, 75, 41, 84	175	10-17	
B92 (K) Early	Vol. Tone	36X217	56	Order from MR55	Mfr.			8-5-4	4/15	Buffer	B14				6	6K7, 6J7, 6B7, 41, 6A6	175	10-20
	Vol. Tone	40X212	22	O				12-8-12	1/15	SR601/BB12		248	C3	6	6K7, 36C5, 6U6, 6C5, 36L6, 35Z4MG	456	8-10, 12	
B97, B98	Vol. Tone		65	MR55			A19	.005		Buffer	B14				13	6K7, 36C5, 6U6, 6C5, 36L6, 35Z4MG	175	11-1
C10 (Late)	Vol. Tone		15	N	6			12	2	RS215					10	58, 57, 55, 47, 80	175	11-1
	Vol. Tone		21	O				P80923	30	CM175								
	Vol. Tone			N				80873	30	CS133								
C20	Vol.		6	G7				80878C	13	BB20					5	6A7, 6D6, 6C6, 43, 12Z3	456	10-1
C25	Vol.		18	MR48				8-8	1	2N518					5	6A7, 6D6, 75, 42, 80	456	8-4
C40	Vol.		18	MR48				4-1	15	TN111					6	6C6, 6D6, 75, 42, 80, 76	175	8-8
C60	Vol.		17	UM154		See Note A96		8-8	1	2N518		294	C3	6	6A7, 6D6, 75, 41, 84	175	6-11	
	Vol.							.0015	15	BB11					6	6A7, 6D6, 75, 43, 76, 25Z5	456	9-8
C78, C78L	Vol. Tone		18	MR48				20-12-8	8	TN125					6	6A7, 6D6, 75, 43, 76, 25Z5	456	9-8
	Vol. Tone		22	MR39				5	15	BB12					6	6A7, 6K7, 6U6, 6P5, 43, 25Z5	456	7-5, 6
C79, C80	Vol. Tone		75	MR48				20-12	6	2N509					6	6A7, 6K7, 6U6, 6P5, 43, 25Z5	456	7-5, 6
D9	Vol.	24-144	18	UM154	M26		A96	18-236	1	2N514					6	6SA7GT, 6P5GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	455	12-2
	Vol.														4	6A7, 6C6, 42, 80	456	8-3
D10	Vol.		6	MR48		EX300		12	4	RS215					5	6A7, 6D6, 75, 42, 80	456	8-3
D11	Vol.		18	MR48				16	4	RS216					6	6A7, 6D6, 75, 42, 80	456	8-3
D20A	Vol.		124	MR48				8-8	23	2S567		B3			6	6A7, 6D6, 75, 41, 80	465	12-3
D30, D31	Vol. Tone		17	MR48				8-8	4	RS213		B3			7	6D6, 76, 75, 42, 80, 6U5	456	8-6
	Vol. Tone		22	MR39				10	15	BB12					7	6A7, 76, 6D6, 75, 41, 80, 6G5	465	12-3
D31A	Vol.		124	MR48				16-8	23	2S563					7	6A7, 76, 6D6, 75, 41, 80, 6G5	465	12-3
D42	Vol.	24-144	18	UM154	M26		A96	18-254	1	TN139		B192			7	6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 6P5GT, 6U5, 5W4GT	455	12-5
	Vol.							18-243	19	BB15					7	6SA7GT, 6SK7GT, 6P5GT, 6U5, 6SQ7GT, 6K6GT, 5W4GT	455	12-4
D69	Vol.	24-144	45	UM154	M26		A96	18-256	1	FPD234		B117			8	6SA7GT, 6SK7GT, 6P5GT, 6U5, 6SQ7GT, 6K6GT, 5W4GT	455	12-4
	Vol.							18-243	19	BB15					8	6SA7GT, 6SK7GT, 6P5GT, 6U5, 6SQ7GT, 6K6GT, 5W4GT	455	12-4
D71	Vol.	24-144	45	UM154	M26		A96	18-256	1	FPD234		B117			8	6SA7GT, 6SK7GT, 6P5GT, 6U5, 6SQ7GT, 6K6GT, 5W4GT	455	12-4
	Vol.							18-243	19	BB15					8	6SA7GT, 6SK7GT, 6P5GT, 6U5, 6SQ7GT, 6K6GT, 5W4GT	455	12-4
D90	Vol.	24-146	45	UM154	M26		A96	18-254	1	TN139		B192			6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	12-5
	Vol.							18-243	19	BB15					6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	12-5
D93	Vol.	24-150	18	MK402				18-263	76	2N509					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-2
	Vol.							18-262	76/78	FPD208					5	58, 57, 55, 359, 80	115	7-3, 4
E20	Vol. Tone NSC	9296	124	MR48	M26			9193	3	3S584					10	58, 57, 55, 359, 80	115	7-3, 4
	Vol. Tone NSC	9295	22	K12				9197	14	BB41								
	Vol. Tone NSC	9297	1			See Note A5		9196	15	BB15								
E204	Vol. Tone NSC	9296	1	MR48	M26			8876	15	BB11					10	58, 57, 55, 359, 80	115	7-3, 4
	Vol. Tone NSC	9295	22	K12				9197	14	BB41								
	Vol. Tone NSC	9297	1			See Note A5		9196	15	BB15								
EB8	Vol.	4106A	18	MR48	M26			8876	15	BB11					4	6A7, 6D6, 75, 25A7	456	8-2
EB9	Vol.	4108A	6	MR21	M26			20-12	27	2P549					4	6D6, 6C6, 43, 25Z5	465	8-2
F20	Vol.	9611	70	H12		EX250		4806A	27	2P544					5	32, 30, 34, 33	465	8-5
FE5	Vol.	101-127	18	UM161-SS18	M26			119-53E	1/15	3N534					6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	465	12-1
J50	Vol.		45			See Note A5		8-4-10	1/15	3S579		285XS	C3	6	1C6, 34, 30, 32, 33	465	10-1	
	Vol.							.01-.01		Buffer	B14							
J60	Vol. Tone		45	MR48		See Note A5		8-4	1	See Note	B3		285XS	C3	6	1C6, 34, 30, 19	465	
	Vol. Tone		22					.01-.01		Buffer	B14							

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
LAFAYETTE--Continued																		
JB3	Vol.		6	MR44	M26			30-8	4	2P552					6	6A7, 6D6, 76, 243, 25Z5, 60R30	456	9-2
JS177, JS178	Vol.	50.51A	18	MR48	M26			20.103A	1	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT, 6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	456	12-10
JS179, JS180	Vol. Tone	50.47A, 55.20	18 22	MR48 MR48	M26			20.122	1	2N513					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	456	12-10
JS181	Vol. Tone		18 22	MR48 MR48	M26			20.121 20.105 16 16 8	63 24 63 63 58	2N513 2-BB26 BB24 BB24 RS213	B12				6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6	456	12-9
L1, L2, L3, L4	Vol. Tone Sen.		45 41 8	Z12 UC502 E				4 4 4	58 58 19	RS213 BB60 BB40					12	56, 57, 58, 46, 82	175	5-9
L11, L12	Vol. Tone Sen. Fil.		45 22 29	N UC502 R		7									9	60, 334	175	5-10
L16, L17, L18, L19	Vol. Tone	P91041 P90993	59 34	SRP271 UC502											7	57, 58, 47, 80	175	5-11, 12
L20 (Nomad)	Vol.	P91019C	6	G12	6	EX300									5	77, 78, 43, 25Z5	262	11-2
L22, L23	Vol.	P91066	17	UM154	M26		A96								6	78, 77, 75, 41, 84	262	11-3
L30	Vol. Tone		18 22	M UC502	6			8-8 10-10 01	1 15 1	2N518 TN111 Buffer		2080 2110	253 253	C3 C3	6	75, 77, 78, 84, 41	262.5	5-13, 14
LW10	Vol.	8401	17	N	6			2210 2212 2211 .025-.025	1 15 15 1	2N518 TN113 BB12 Buffer			294	C3	6	6D6, 5A7, 75, 41, 84	175	5-7, 8
M14-20	Vol.		12	K12				5 1	15 1	BB12 See Note	B4				5	78, 37, 48		6-6
M15	Vol.		12	K12											4	34, 32, 33		7-7
M31 (1936)	Vol.		18	MR48											6	6A7, 6D6, 75, 76, 48	465	9-5
M31-71	Vol.		6	MR18	M26			4-8	1	2N518					5	57, 58, 47, 80	175	9-6
M35, 37	Vol. Tone		12 22	N M				4-8-4	4	See Note	B3				7	55, 56, 58, 47, 80	175	6-9, 8-7
M41	Vol. Tone		15 21	MR48 MR44				4-4	60	2S567 ST595					8	58, 55, 47, 56, 80	520	10-8
M43	Vol. Tone		15 21	MR48 MR44				4-4	60	2S567 ST595					8	58, 55, 47, 56, 80	520	10-8
M44	Vol. Tone		75 22	MR48 MR33				4-4 01-01	1	2N518 Buffer	B3 B14		285XS	C3	6	1C6, 34, 30, 19	456	8-7
M47	Vol. Sen.		124 8	N G12	6			4-4-8	26	See Note	B3				10	55, 56, 58, 47, 80	520	6-10
M65	Vol. Tone		124 21	MR48 MR44				4-4-4	26	CM175					10	58, 56, 55, 47, 80	175	10-9
M69, 70	Vol. Tone	512 534	6 21	G M	6	2		533 721	1 8	CM170 CS133 TN125	B3				7	56, 57, 58, 47, 80	115	5-2
M99 (Pigmy) PA	Vol.		6	MR18											5	77, 78, 43, 25Z5	175	9-7
P15754	Vol.		6	MR18											4	39, 36, 01A, 71A		9-5
R71	Vol.		6	G				8, 8 4-4	1	ST585 See Note	B3				6	77, 37, 48		7-16
S61, S62	Vol. Tone		76 76	MR48 MR53				20-12 8	11 11	2P549 BB21					9	6A8, 6K7, 6116, 6C5, 243, 6C5, 25Z5, 2600, 2601	456	9-7
S17762	Vol.		56	N				8-16 4 .01	1 15	2S563 BB12 Buffer			210	C3	6	77, 78, 85, 41	262	5-15, 16
SL45	Vol.		7	D7	6	2		10 6 10	1 1 15	ST596 ST595 BB12	B14				5	58, 2A7, 57, 2A5, 80	175	8-8
SL71 (Early and Late) T21	Vol.		7	MR44	M26			10 12-8-10-10	15 6/15	BB12 48715					4	78, 6F7, 43, 12Z3		8-9
U145	Vol. Tone		6 45	K12 MR48				16-8	11	2P544					4	6B7, 6D7, 43, 25Z5 or 6D6, 6C6, 43, 25Z5		9-4
U155	Vol. QAVC		22 20 12	MR33 TRP616 E	M26			6-4-4	3	3S581					8	58, 56, 57, 47, 80	507	9-9
XP15949	Vol.		6	K12				8-4-4 5 8 12, 12, 12 25	3 13 19 3	3S581 BB41 BB13 ST596				3	6C6, 80		7-16	
2A5 (1st Minstrel) 10, 12	Vol. Vol.		6 12	MR18 K12				8, 8 8, 8, 8 5 25	1 1 15	ST595 ST595 BB12					5	24, 51, 47, 80	175	9-1
10C10	Vol. Tone	P90980 P90986B	78 41	N P	6			P80900 P80901	30 30	RS213 RS213					10	27, 35, 47, 80	175	6-2, 5

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
LAFAYETTE—Continued																			
40A	Vol.	90983	8	A5MP			A27	80873B	30	BB60					8	24, 27, 35, 47, 80	175	6-13, 14	
	Vol.	90988	14	N			A4	80874	30	BB60									
	Tone	90984	34	UC502				80875	30	BB60									
								80878	30	BB40									
53	Vol.		127	N		†		4-8-4	4	See Note	B3				7	55, 56, 58, 47, 80	175	6-9	
	Tone		22	M															
80M (2 Types)	Vol.	90983	8	A5MP			See Note	80873B	30	BB60					8	24, 27, 35, 47, 80	175	6-13, 14	
	Vol.	90988	14	N			See Note	80874	30	BB60									
	Tone	90984	31	UC502				80875	30	BB60									
								80878	30	BB40									
100A	Vol.		†	NN				8	2	ST595	B3				5	57, 59, 83		6-16	
102A	Vol.		15	N				8	2	ST595	B3				9	57, 53, 2A3, 83		6-16	
	Tone		21	N				5-5	4	2P542									
								5-5	15	TN111									
106A	Vol.		15	N				8-8	2	See Note	B3				6	53, 56, 3B5, 83		6-17	
	Tone		21	N				25	15	BB15									
115A	Vol.		15	N				8-8	2	See Note	B3				9	53, 2A3, 4A5, 83		6-18	
								10-10-10	26	See Note	B3								
120A	Vol.		15	O				8-4-16	2/12	See Note	B3				4	6C6, 6A6, 3B5		6-17	
	Tone		21	N				25	15	BB15									
132A, 133A	Vol.		15	N				8-8	2	See Note	B3				6	75, 6A6, 3B5, 5Z3		7-8	
								25	15	BB15									
137X	Vol.		18	MR48				8-4	23	See Note	B3				6	6A7, 6D6, 75, 242, 80	156	7-10	
143, 144	Vol.		18	MR48				8-4	23	See Note	B3				6	6A7, 6D6, 75, 242, 80	156	7-11	
149	Vol.		18	MR48				8-4	23	See Note	B3				6	6A7, 6D6, 75, 242, 80	156	7-11	
150X	Vol.		18	MR48				8-4	23	See Note	B3				6	6A7, 6D6, 75, 242, 80	156	7-10	
151, 154	Vol.	3120	15	TRP606	6			3288	1	2N518					12	78, 6A7, 85, 376, 342, 380	165	7-12, 14	
	Tone		22	Y				3004	25	RM262									
	Sen.	3121	7	Y10MP				1948	25	RS213									
158P	Vol.		6	G12			See Note	8	2	See Note	B3				13	53, 55, 57, 58, 2A5, 59, 83		6-18	
	Vol.		15	N			See Note	32	2	See Note	B3								
								25	15	BB15									
								5	15	BB12									
171X	Vol.		18	MR48				8-4	23	See Note	B3				6	6A7, 6D6, 75, 242, 80	156	7-10	
186, 188	Vol.	3120	15	TRP606	6			3288	1	2N518					12	78, 6A7, 85, 376, 342, 380	165	7-12, 14	
	Tone		22	Y				3004	25	RM262									
	Sen.	3121	7	Y10MP				1948	25	RS213									
324	Vol.		114	N				8-8-8	26	See Note	B3				8	58, 2A7, 2A6, 2A5, 345, 80	456	7-15	
	Tone		114	P				4	15	BB12					10	56, 57, 58, 347, 80		6-1	
"Orthotone"	Vol.		15	†			See Note	6-4-4	3	See Note	B3								
	Supp.		12	J				8	17	BB13									
480	Vol.		18	MR48	6			8-4	1	2N518			See Note	C8	4	6A7, 34, 115, 41	456	9-10	
								10	15	BB12									
								.01		Buffer	B14								
1102	Vol.	101-234	15	MK401	M26			119-112	1/13	FPT383					11	6SK7, 6SA7, 6SQ7, 6J5G1, 36V6G7, 615, 5Y3G	155		
								119-69	13	BB44									
2001 (Minstrel 1932)	Vol.		6	MR18				5-5	4	28567					5	24, 51, 47, 80	175	9-1	
LANG RADIO CO.																			
BA5	Vol.		40	D12				8	4	ST595					5	24A, 45, 80		1-1	
BA5P	Vol.		40	D12				4	4	ST595									
	Tone		22	K12				8, 8	4	ST595					5	24A, 47, 80		2-2	
BD5P	Vol.		40	D12											5	36, 37, 33		1-1	
	Tone		22	K12															
BD6	Vol.		40	D12											6	30, 31, 32		1-1	
BD6P	Vol.		40	D12											6	36, 37, 33		1-2	
	Tone		22	K12															
DC6	Vol.		6	G12											6	39, 37, 348			
	Tone		44	K12															
F7 110V DC	Vol.		10	D12															
F9	Vol.		34	L											7	312A, 371A		2-1	
J7	Vol.		34	L											9	312A, 371A		1-2	
M7	Vol.		12	A5MP											7	322, 312A, 371A		1-2	
	Tone		34	L											7	24, 345, 80, 27		1-3	
MA7	Vol.		6	G7	6	2		8, 8	4	ST595					7	24, 27, 35, 47, 80	175	2-3	
	Tone		22	K12															
MA8	Vol.		62	N	6			8-8	4	See Note	B3				8	24, 27, 35, 47, 80	175	3-1	
	Tone		22	K12				5	15	BB12									
MD7	Vol.		6	G7	6	3									7	36, 37, 33	175	2-3	
	Tone		22	K12															
MD8	Vol.		15	N	8										8	33, 36, 37, 39	175	3-1	
	Tone		22	K12															
SA7	Vol.		6	G12				16-8	4	28563					7	24, 35, 47, 80	175	2-4	
	Tone		22	K12															
SA8	Vol.		6	G12				4-8-4	26	See Note	B3				8	24, 27, 35, 47, 80	175	2-4	
	Tone		22	K12															
UG5B	Vol.		6	G12	6	EX200		12-8-10-10	6 15	UR189	B98				5	6C6, 6D6, 43, 12Z3	456	5-1	
UG5H	Vol.		7	E	2			12-8-10-10	6 15	UR189	B98				5	6A7, 6196, 6C6, 43, 12Z3	456		
40UL	Vol.		6	G12	6	EX120		E1153A	6 15	UR189	B98				4	6A7, 6C6, 43, 25Z5	470	6-1	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
LANG—Continued																		
50AS.....	Vol.		6	G12				4-8-12	4/12	See Note.....	B3				5	6A7, 6D6, 76, 38, 80	470	6-2
50UP.....	Vol.		6	G12	‡	EX120		12-8-10-10	6/15	UR189.....	B98				5	6A7, 6D6, 76, 43, 25Z5	470	6-2
50US.....	Vol.		6	G12	6	EX120		E1153A	6/15	UR189.....	B98				5	6A7, 6D6, 76, 43, 25Z5	470	6-1
60AA.....	Vol.		18	N				8-8.....	4	See Note.....	B3				6	6D6, 6A7, 75, 41, 80	470	6-3
60UP.....	Vol.		6	G12	‡			4-4.....	13	2N516.....					5	6A7, 6D6, 76, 43, 25Z5	470	6-2
80UA.....	Vol.		17	N				5.....	15	BB12.....					8	6D6, 6A7, 75, 43, 25Z5	470	6-4
502UA.....	Vol.		7	E		2		12-8-10-10	6/15	UR189.....	B98				5	6A7, 6D6, 6C6, 43, 12Z3	456	
502US.....	Vol.		14	E	6	2		E1153A	6/15	UR189.....	B98				5	6A7, 6D6, 6C6, 43, 12Z3	456	5-2
503AS.....	Vol.		17	N				12-8-5	4/15	See Note.....	B3				5	2A7, 58, 2A6, 2A5, 80	175	5-3
503US.....	Vol.		7	E	6	2		8-12-10-10	6/15	UR189.....	B98				5	6A7, 6D6, 6C6, 43, 25Z5	470	5-1
508UT, 508UT.....	Vol.		17	O				8-16-8	6	UR190.....	B3				5	6A7, 6D6, 75, 43, 25Z5	470	6-5
703US.....	Vol.		17	N				10.....	15	BB12.....					7	6A7, 6D6, 85, 43, 12Z3	175	5-4
								16-8-8	11	UR190.....	B3							
								6.....	12	BB21.....								
								5.....	15	BB12.....								
LARKIN CO.																		
83.....	Vol. Tone		21	F7				3-2-2	30	See Note.....	B1				6	‡	175	\$6-20
88.....	Vol. Tone		42	G				8-8	4	See Note.....	B3				7	24, 27, 35, 47, 80	175	5-1
90.....	Vol.		21	O				5.....	15	BB12.....					6	77, 78, 85, 41	175	5-1
91.....	Vol.		17	N				5.....	15	BB12.....					7	6A7, 78, 85, 41, 84	175	5-2
								6-10	1	See Note.....	B3		292	C3				
								5.....	15	BB12.....								
								.015		Buffer.....	B14							
LAUREHK MFG. CO.																		
K(D-C).....	Vol.		6	E12														
L4B.....	Vol.		18	MR48	M27			8	12	BB21.....					5	‡36, 38		\$10-7
L44T.....	Vol.		6	G7				8-8	4	2S567.....					4	1A7C, 1N5G, 1H5G, 1C5G		\$10-7
L55T.....	Vol.		6	G7				10.....	15	BB12.....					4	6K7, 6J7, 6F6, 80		\$7-8
L67.....	Vol. Tone		17	MR48				8-8	4	2S567.....					5	6K7, 6J7, 6F6, 80		\$7-8
L69 (Musique).....	Vol.		22	MR24				10.....	15	BB12.....					6	6K7, 6A8, 6Q7, 6V6, 5Y4	456	11-2
L69 (Musique).....	Vol.		6	G7				15-15	1	2S569.....					4	6D6, 6C6, 43, 25Z5, L53B		\$8-5
L600 (Musique).....	Vol.		18	MR53				10.....	15	BB12.....					5	6A8, 6A7, 6H7, 25L6, 25Z6, L49B		\$8-5
LA35.....	Vol.		18	MR48				5-14	12/18	2N504.....					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	11-1
								40-16	22	2N514.....								
								10.....	15	BB12.....								
LEWOL MFG. CO.																		
LW4, LW4DW.....	Vol.		6	SRP263		EX300		110	27	UR182.....	B115				4	6D6, 6C6, 43, 25Z5		5-1
60MS.....	Vol.		20	‡		See Note	te A19	8-16-4	11	UR193.....	B31				6	78, 6A7, 85, 43, 25Z5	456	5-2
63.....	Vol.		20	‡		See Note	te A19	8-16	4	See Note.....	B3				6	78, 6A7, 85, 42, 80	262.5	5-3,4
64.....	Vol.		20	‡		See Note	te A19	12-16-6	11	UR182.....	B31				6	78, 6A7, 85, 43, 25Z5	262.5	5-2
9682.....	Vol. Tone		64	N	7			8-4	1	See Note.....	B3		285XS	C3	6	1C6, 34, 30, 19	465	
			22	‡		See Note	te A5	.01-.01		Buffer.....	B14							
LINCOLN RADIO CORP.																		
"Hollister" AC8.....	Vol.		12	D12														
DCSW8.....	Vol.		12	K12														
R9.....	Vol.		16	N				8	1	RS213.....					8	‡30, 31, 43		4-1
"DeLuxe" 10.....	Vol. Sen.		12	K				8	1	RS213.....					11	‡56, 58, 75, 80	480	4-1
31.....	Vol.		58	F				2-2-2	3	See Note.....	B1				11	‡24, 27, 45, 80		3-1
SW32.....	Vol.		7	K				2-4	1	See Note.....	B1				11	‡24, 27, 45, 80		1-1
SW33.....	Vol.		4	K				4	1	RS213.....					11	‡27, 42, 45, 80		3-1
SW33.....	Vol. Sen.		23	NN	6			8	4	RS213.....					11	‡35, 50, 45, 80		4-2,3
			98	K														
LONG RADIO CORP.																		
70.....	Vol.		6	G12				8-8	1	See Note.....	B3				6	‡24, 27, 45, 80		
R. H. MACY & CO.																		
MB5.....	Vol.		6	UC501				8	1	See Note.....	B3				5	24, 31, 47, 80		3-1
56, 58.....	Vol. Tone		22	‡		See Note	te A5	8-8	4	See Note.....	B3				5	55, 57, 58, 47, 80		3-1
MB92.....	Vol. Tone		6	G12		See Note	te A5	2	3	See Note.....	B2				9	55, 56, 58, 46, 80		3-3
MB710.....	Vol. Tone		22	M				8-8	3	See Note.....	B3							
			6	G12				4	15/17	BB12.....					7	55, 58, 56, 47, 80	175	3-2
			22	L				8-4	1	See Note.....	B3							
								4	17	BB11.....								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. H. MACY & CO. 410 AC-DC	-Continued Vol. Tone		17 41	MR48 MR48				30-12 20-5 10	6 24 15	2N512 2N507 BB12				7	6A7, 6D6, 6R7, 43, 25Z5	456	7-1	
706-70623	Vol. Tone		18 41	MR48 N				30-16 16 20	1 18 12	2N514 BB24 BB25				10	6A7, 6K7, 85 or 6R7, 43, 25Z5	456	7-2	
MAGNAVOX A101P (Amplifier)	Vol.	224354	50	MR39	M26			274212 274201	29 29	RS216 RS216				3	6D6, 43, 25Z5			
A106P (Amplifier)	Vol.	224354	50	MR39	M26			274212 274236	27 15	RS216 BB15				3	6D6, 43, 25Z5			
A307P2 (Amplifier)	Vol. Treble	222383 222556	‡ ‡	Order from MR24	Mfr. M26			274212 270001 274165 270092	11 13 15 8	RS216 BB22 BB15 BB25				5	6C5, 25L6, 25Z5			
A307P4 (Amplifier)	Vol.	223555	15	MR53	M26			279993 279911 279912	15 1 15	BB15 FPT231 2-BB15				3	6J5G, 25L6G, 25Z5			
A401 (Amplifier)	Vol.	223495	50	MR48				274238 274250 274334	1 1 15/17	WE450 WE850 2-BB14				3	6J5G, 6F6G, 80			
A501 (Amplifier)	Vol. Treble	222383 222556	‡ ‡	Order from MR24	Mfr.			273610 270003 273611 274194 274224	1 17 15 1 15	FPT342 BB19 BB15 1H664 2-BB14		B117 B192		3	57, 2A3, 80			
A501B (Amplifier)	Vol. Treble	222383 222556	‡ ‡	Order from MR24	Mfr.			273610 270003 273611 274194 274224	1 17 15 1 15	FPT342 BB19 BB15 1H664 2-BB14		B192		3	57, 2A3, 80			
A3001A (Amplifier)	Vol. Treble Bass	222444 222445 222444	‡ ‡ ‡	MR53 MR41 MR53				273610 270007 12-12 10, 10	1 13/15 1 15	FPT342 FPT351/BB100 2S568 BB12		B192		4	6C5, 6L6, 5Z3			
A3001B (Amplifier)	Vol. Treble Bass	222444 222445 222444	‡ ‡ ‡	MR53 MR41 MR53				273610 270007 12-12 10, 10	1 13/15 1 15	FPT342 FPT351/BB100 2S568 BB12		B192		4	6C5, 6L6G, 5Z3			
CR101, CR101M	Vol. Tone	223258 223257	127 ‡	M O				12-12 10, 10	1 15	SR644 BB12				8	6D6, 6A7, 6H6, 6C5, 6F5, 6C5, 80	465	10-1	
CR102, 103, 104, 105	Vol. Tone	223327 223358	18 21	N N	6			‡ ‡	23	See Note	B3			6	6A7, 6D6, 6Q7G, 6G5, 6N6, 80	456	10-5	
CR106	Vol. Tone	223327 223358	75 57	N N	6			14-8-4	1/13	See Note	B3			7	6A7, 6D6, 6H6, 6K5G, 6N6G, 6G5, 80	455	10-7	
CR107	Vol. Tone	223327 223358	18 22	N N	6			50-32-16	8	See Note	B3			8	6A8G, 6K7G, 6R7G, 6N5, 25L6G, 25Z6G	455	10-9	
CR108M	Vol. Tone	223258 223257	45 ‡	M O	6			12, 12	1	SR644				9	6D6, 6A7, 6H6, 6F5, 6C5, 6N5, 80	455	10-11, 12	
CR109	Vol. Tone	223327 223358	75 57	N N	6			14-8-4	1/13	See Note	B3			7	6A7, 6D6, 6H6, 6K5G, 6N6G, 6G5, 80	455	10-7	
CR110	Vol. Tone	223327 223358	18 22	N N	6			32-50-16	8	See Note	B3			8	6A8G, 6K7G, 6R7G, 6N5, 25L6G, 25Z6G	455	10-9	
CR111	Vol. Tone	223327 223358	75 57	N N	6			14-8-4	1/13	See Note	B3			7	6A7, 6D6, 6H6, 6K5G, 6N6G, 6G5, 80	455	10-7	
CR112	Vol. Tone	223327 223358	18 22	N N	6			50-32-16	8	See Note	B3			8	6A8G, 6K7G, 6R7G, 6N5, 25L6G, 25Z6G	455	10-9	
CR113, 114, 115	Vol. Tone	223327 223358	75 21	N N	6			14-8-4 50	1/13 15	See Note	B3			7	6A7, 6D6, 6H6, 6J5G, 6L6G, 6G5, 80	455	10-17	
CR117	Vol. Tone	220003 220002	17 22	N K12	6			10-10	1	FPT231				5	6A7, 6D6, 75, 6B6G, 80	455	10-19	
CR118	Vol. Tone	223327 223358	75 57	N N	6			14-8-4 50	1/13 15	See Note	B3			7	6A7, 6D6, 6H6, 6J5G, 6L6G, 6G5, 80	455	10-17	
CR119, 120	Vol. Tone	223327 223358	18 22	N N	6			50-32-16	8	See Note	B3			8	6A8G, 6K7G, 6R7G, 6N5, 25L6G, 25Z6G	455	10-9	
CR121	Vol. Treble Bass	223605 223603 223604	127 21 ‡	MR48 MR53 K12	M26			30-10 20	1 15	FPT342 BB15		B192		8	6A8G, 6K7, 6H6, 6J5G, 6U5, 26V6G, 5U4G	455	10-21, 22	
CR122	Vol. Tone	223258 223257	45 ‡	N O	6			12, 12	1	SR644				9	6D6, 6A7, 6H6, 6F5, 6C5, 6N5, 80	455	10-11, 13	
CR123	Vol. Tone	223703 223704	127 21	N N	6			30-10 40	1 15	FPT342 BB17		B192		6	6K8, 6K7, 6H6, 6J5G, 6L6G, 80	455	10-25	
CR124	Vol. Treble Bass	223605 223603 223604	127 21 ‡	N O	6	See Note A3		30-10 20	1 15	FPT342 BB15		B192		8	6A8G, 6K7, 6H6, 6U5, 6J5G, 26L6G, 5U4G	455	10-27, 28	
CR125	Vol. Tone	223327 223358	75 21	N N	6			14-8-4 50	1/13 15	See Note	B3			7	6A7, 6D6, 6H6, 6J5G, 6L6G, 6G5, 80	455	10-17	
CR126, 127	Vol. Tone	223327 223358	18 22	N N	6			50-32-16	8	See Note	B3			8	6A8G, 6K7G, 6R7G, 6N5, 25L6G, 25Z6G	455	10-9	
CR128	Vol. Tone	223703 223704	127 21	O N	6			30-10 40	1 15	FPT342 BB17		B192		6	6K8, 6K7, 6H6, 6J5G, 6L6G, 80	455	10-25	
CR133	Vol.	220009	18	MR48	M27			270006	19	BB12				4	1A7G, 1N5G, 1H5G, 1C5G	455	11-3	

‡ Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MAGNAVOX—Conti																		
CR134.....	Vol. Tone	220008	127	MR53			273610	1	FPT342	B192				6	6SA7, 6SK7, 6H6, 6J5G, 6L6G, 80	455	11-1-4	
CR136.....	Vol. Tone	220007	22	MR48	M26		273705	15	BB17					8	6SA7, 6SK7, 6H6, 6J5G, 6L6G, 6U5, 5U4G	455	11-5-6	
	Treble Bass	223605	127	MR48			273610	1	FPT342	B192								
CR137.....	Vol. Tone	220011	39	Order from Mfr.			273611	15	BB15					7	6SA7, 6SK7, 6H6, 6J5G, 6L6G, 80, 6U5	455	11-1-2	
	Treble Bass	220012	127	MR53	M26		273610	1	FPT342	B192								
CR140.....	Vol. Tone	220008	15	MR53			273705	15	BB17					8	6SA7, 6SK7, 6H6, 6J5G, 6L6G, 80, 6U5	455	11-7-8	
	Treble	220017	39	MR53	M26		273610	1	FPT342	B192								
CR141.....	Vol. Tone	220008	15	MR53			273611	15	BB15					6	6SA7, 6SK7, 6H6, 6J5G, 6L6G, 80	455	11-13,14	
	Treble	220007	57	MR48	M26		273610	1	FPT342	B192								
CR142.....	Vol. Tone	220008	15	MR53			273705	15	BB17					7	6SA7, 6SK7, 6H6, 6J5G, 6L6G, 6U5, 80	455	11-13,14	
	Treble	220007	57	MR48	M26		273610	1	FPT342	B192								
CR143.....	Vol. Tone	220008	15	MR53			273705	15	BB17					9	12SA7, 12SK7, 12J5GT, 50L6GT, 35Z4GT, 6N5	455	11-15,16	
	Treble	220015	39	MR53	M26		270004	1	FPT214									
CR144.....	Vol. Tone	220008	127	MR53			270010	12	BB27					7	6SA7, 6SK7, 6H6, 6J5G, 6L6G, 6U5, 80	455	11-1-4	
	Treble	220007	22	MR48	M26		273611	15	BB15									
CR145.....	Vol. Tone	220008	15	MR53			273610	1	FPT342	B192				8	12SA7, 12SK7, 12J5GT, 50L6GT, 35Z4GT	455	11-15,16	
	Treble	220015	39	MR53	M26		270004	1	FPT214									
CR146.....	Vol. Tone	223605	15	MR48			270010	12	BB27					9	6SA7, 6SK7, 6H6, 6J5, 6V6G, 6U5, 5U4G	455	11-17,18	
	Treble Bass	220011	39	Order from Mfr.			273611	15	BB15									
CR147.....	Vol. Tone	220012	15	MR34	M26		273610	1	FPT342	B192				9	6SA7, 6SK7, 6H6, 6J5, 6L6G, 6U5, 5U4G	455	11-19,20	
	Treble Bass	223605	15	MR48			273611	15	BB15									
CR148.....	Vol. Tone	220011	39	Order from Mfr.			273610	1	FPT342	B52				9	6SA7, 6SK7, 6H6, 6J5, 6L6G, 6U5, 5U4G	455	11-21,22	
	Treble Bass	220012	15	MR34	M26		270012	14	BB61									
CR149.....	Vol. Tone	223605	15	MR48			273610	1	FPT342	B192				12	6SK7, 6SA7, 6H6, 6J5, 6L6G, 6U5, 5Y3G, 6E5	455	12-1,2,5	
	Treble Bass	220011	39	Order from Mfr.			270012	14	BB61									
CR150, CR151.....	Vol. Tone	220012	15	MR34	M26		273610	1	FPT342	B192				8	6SA7, 6SK7, 6H6, 6J5G, 6V6G, 6U5, 5U4G	455	.....
	Treble	220008	15	MR53			273611	15	BB15									
CR152.....	Vol. Tone	223605	15	MR48			273610	1	FPT342	B192				12	6SK7, 6SA7, 6H6, 6AB7, 6J5, 6L6G, 6E5, 5Y3G, 6E5	455	12-3,4,6	
	Treble Bass	220011	39	Order from Mfr.			273611	15	BB15									
CR153.....	Vol. Tone	220012	15	MR34	M26		270012	14	BB41					9	6SA7, 6SK7, 6H6, 6J5, 6V6G, 5U4G, 6U5	455	11-9,10	
	Treble	223605	15	MR48			273610	1	FPT342	B192								
CR154.....	Vol. Tone	220011	39	Order from Mfr.			273610	1	FPT342	B192				12	6SK7, 6SA7, 6H6, 6AB7, 6J5, 6L6G, 6E5, 5Y3G	455	12-7, 8,11	
	Treble Bass	220012	57	MR34	M26		270012	13	BB41									
CR155.....	Vol. Tone	223605	15	MR48			273610	1	FPT342	B192				11	6SK7, 6AS7, 6H6, 6AB7, 6J5, 6V6G, 6E5, 5Y3G	455	12-9,12	
	Treble	220011	39	Order from Mfr.			270012	14	BB41									
CR156.....	Vol. Tone	220012	57	MR34	M26		270015	14	BB60					9	6SA7, 6SK7, 6H6, 6J5GT, 6V6G, 5Y3G, 6U5	455	12-15, 16,19	
	Treble Bass	220011	39	Order from Mfr.			273610	1	FPT342	B192								
CR157.....	Vol. Tone	223603	57	MR53	M26		273610	1	FPT342	B192				8	6SA7, 6SK7, 6H6, 6J5G, 6V6G, 5U4G, 6U5	455	.....
	Treble	220008	15	MR53			273611	15	BB15									
CR158 (FM Tuner).....							273610	1	FPT342	B192				11	6SA7, 6SK7, 6AC7, VR150, 6AF6G, 6H6, 6J5, 6SC7, 5Y3G	4300	12-13,14	
							273611	15	BB15									
CR159.....	Vol. Tone	220008	15	MR53			273610	1	FPT342	B192				6	6SA7, 6SK7, 6H6, 6J5G, 6L6G, 80	455	11-13,14	
	Treble	220007	57	MR48	M26		273611	15	BB15									
CR160.....	Vol. Tone	223605	15	MR48			273705	15	BB17					9	6SA7, 6SK7, 6H6, 6J5, 6V6G, 6U5, 5U4G	455	.....
	Treble Bass	220011	39	Order from Mfr.			270012	14	BB41									
CR161.....	Vol. Tone	220012	15	MR34	M26		273610	1	FPT342	B192				12	6SK7, 6SA7, 6H6, 6AB7, 6J5, 6L6G, 6E5, 5Y3G	455	12-3,4,6	
	Treble Bass	223605	15	MR48			273611	15	BB15									
CR165.....	Vol. Tone	220011	39	Order from Mfr.			270012	14	BB41					10	12SA7, 12SK7, 12J5GT, 50L6GT, 6N5, 35Z4GT	455	12-17, 18,20	
	Treble	220012	57	MR34	M26		273611	15	BB15									
MAJESTIC† 7BP3, 7BP6.....							3-4-3-3	47	See Note	B121				80			1-6,7	
							2-3-3-2	47	See Note	B121				80			1-2,4	
							2-6-2-2-1	47	See Note	B121				80			1-9	
							2-2-3-1-1	47	See Note	B121				81			

† Data not substantiated.

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§ Indicates miscellaneous section.

† Note: Rider's references will be found under Grigsby-Grunow.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MAJESTIC—Continued																		
913, 916								4-4-1-2	47	See Note	B121				80		1-24	
10 (11)								6433	1	CM172					3 24, 80	1000	3-14, 15	
15 Below 65149	Vol. Tone	8394 5214	6 22	G7 Y50MP	6	3		5414 8385	4 4	CS133 CM172				5 24, 47, 51, 80	175	2-4, 5		
15, 15B (151, 153, 154, 155, 156) Above 65150	Vol. Tone	4682 5214	6 22	G7 Y50MP	6	EX300		5414 8385	4 4	CS133 CM172				5 24, 51, 47, 80	175	2-6, 7		
20 (21, 22, 23)	Vol.	3899	8	UC501	6			2-2	1	See Note	B1			8 27, 51, 45, 80	175	1-14, 15		
25 (251, 253, 254)	Vol. Tone	5316 5635	8 44	F Z12	6	2		.07 4713 5414	3 3	See Note CS133 CS133	B9			9 27, 51, 47, 80	175	2-8, 9		
25B (251B, 253B, 254B)	Vol. Tone	5587 5634	15 44	F12 L	6			5608 4713	3 3	CS133 CS133				9 27, 51, 47, 80	175	2-10, 15		
30 (31)	Vol.	3638	24	DRP122	6	See Note A24		.15 mf .35 mf	1	See Note See Note	B9 B12			6 24, 45, 80		1-16		
35 (351, 353)	Vol. Tone	5723 5743	15 22	F12 G12	6			.1 4713 5806	1 1	See Note CS133 CS133	B9 B1			10 27, 51, 45, 80	175	2-12, 15		
44, 49 (Chassis 440)	Vol.		6	F7	6	3		.15 10536	1/15	See Note SR629	B9 B12			4 6A7, 6F7, 41, 6Z5	456	4-12		
50 (51, 52)	Vol.	3169	24	DRP122				3-2 .09	1	See Note See Note	B1 B9			8 27, 24, 45, 80	175	1-18, 19		
F50	Vol. Tone		15 22	M M	6			16-16-10-20	2/15	UR191/TN111	B3			10 56, 58, 47, 82	175	5-1		
55 (56, 57, 58)	Vol. Tone	4682 5214	6 22	G7 Y50MP	6	2		6501	4	CM172				6 24, 27, 35, 47, 80	175	3-1, 2		
55, 59 (Chassis 500)	Vol.		17	M	6			10827	1/15	CM172/BB12				5 6A7, 6F7, 6B7, 42, 80	456	4-24		
58 (Chassis 10)	Vol.							6433	1	CM172				3 24, 80	1000	3-14		
60 (61, 62)	Vol.	4098	7	SRP223				2-2-2-1 4-3-3-1 .07 .25	3 3	See Note See Note See Note See Note	B1 B1 B9 B12			9 27, 51, 24, 45, 80	175	1-20, 22		
66	Vol. Tone	10003 10004	17 22	M K12	6			9979 10067 .008-.008	4 15	CM172 BB12 Buffer		10073	220B	C3	6 6E7, 6A7, 6C7, 89, 6Y5	175	4-1, 6	
67 (68, 69)	Vol. Tone		18 22	M M				16 8 10	1 1 15	RS216 RS213 BB12	B14 B3			6 58, 2A7, 55, 2A5, 80	175			
70, 70B (71, 72)	Vol.	105	40	G12				10827	1/15	CM172/BB12				8 26, 27, 37, 80		1-1, 2		
75 (Chassis 500)	Vol.		17	M	6			8721	1	RS216				5 6A7, 6F7, 6B7, 42, 80	456	4-24		
77 (Chassis 330)	Vol. Tone	7236 7316	15 22	M M	6			8722 8118	1 15	RS213 BB15				7 58, 56, 55, 59, 80	175	3-29		
85, 86 (Chassis 800)	Vol. Tone	11016 11015	127 22	M M	6			11017 11200 11099	25 25/13 15	RS216 RM261 BB15				8 58, 2A7, 45, 56, 55, 80	175	1-30, 31		
90, 90B (91, 92, 93)	Vol. Equal	559 393	7 7	Z SRP160				2-2-2-1 4-4-2-1	2 2	See Note See Note	B1 B1			8 27, 45, 80		1-11, 12		
95 (Chassis 520)	Vol.	11378	7	M	7			See the						3 31, 1A6, 25, 33	175	4-27		
100 (101)	Vol. Equal	771 393	7/63 7	DRP222 SRP160		See Note A49		913, 916						7 27, 45		1-11		
100B (102, 103)	Vol. Equal	1714 393	7/16 7	DRP312 SRP160				2-2-2-1 4-4-2-1	2 2	See Note See Note	B1 B1			8 27, 45, 80		1-12		
105 (Chassis 520)	Vol.	11378	18	M	7									5 31, 1A6, 25, 33	175	4-27		
110	Vol.	5072	15	Y100MP										7 36, 37, 38		2-17, 4-7		
114	Vol.	8695	8	M				8 8286 784-2	1 15 15	BB61 BB12 BB15				6 39, 38, 85	175	3-48, 4-8		
116 (Type 1)	Vol.	9825	33	M				9337	4	CM172		220B		6 57, 58, 75, 89, 6Z5	175	3-14, 15		
116 (Type 2, 3)	Vol.	9825	33	M				9337	4	CM172		220B		6 57, 58, 85, 89, 6Y5	175	3-46		
116 (Type 4)	Vol.	9825	33	M				9979	4	CM172		220B		6 57, 58, 75, 89, 6Z5	175	3-47		
118, 118P	Vol.	10391	17	SRP251				10369 10488	4 15	CM172 BB12		220B		6 6E7, 6A7, 6C7, 42, 6Y5		175 5-2		
120 (121)	Vol.	4762	24	GG	7									6 30, 32, 33	175	2-18, 19		
120B (123)	Vol.	4760	24	GG										6 30, 32, 33	175	56-10		
130A (131, 132, 133)	Vol.	890	8	A1MP				2-2-2 4-4-2	3 3	See Note See Note	B1 B1			7 24, 45, 80	175	1-13		
150	Vol. Tone Phono.	8394 5214 5464	6 22 63	G7 Y50MP W	6	3		5414 8385	4 4	CS133 CM172				5 24, 51, 47, 80	175	2-21		
151, 153, 154, 155, 156 (Chassis 15)	Vol. Tone		6 22	G7 K12	6	3		5414 8385	4 4	CS133 CM172				5 24, 51, 47, 80	175	2-4, 6		
160 (163)	Vol.	4098	8	SRP223				2-2-2-1 4-3-3-1 .07 .25	3 3	See Note See Note See Note See Note	B1 B1 B9 B12			9 27, 51, 24, 45, 80	175	1-23		

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
MAJESTIC—Continued																		
174 (Chassis 570)...	Vol. Tone		18 22	M. M.				12038-1 12039-1 12026-2	25 25 15	RS216 RS213 BB15/BB12					6	*58, 2A7, 55, 2A5, 80...	175	5-3
180 (181).....	Vol.	164	7	DRP222		See Note	A49								9	*27, 50, 7B1		1-8, 10
194 (Chassis 440)...	Vol.		6	F7	6			10536	1/15	SH629					4	6A7, 6F7, 41, 6Z5	456	4-12
195 (Chassis 500)...	Vol.	10868	15	M.	6			10827	1/15	CM172/BB12					5	6A7, 6F7, 6B7, 42, 80	456	1-24
200 (201, 203, 204)...	Vol. Tone	6284 6286	15 22	N. K12	6			6277 6433	28	CM175					8	*35, 27, G2S, 47, 80...	175	3-3, 6
204 (Chassis 10, Chassis 200).....	Vol. Tone	6284 6286	15 22	N. K12	6			6277 6433	28 1	CM175 CM172					11	*35, 27, G2S, 47, *24, *80	175	3-3
210 (211, 214, 215)...	Vol. Tone	6115 6157	15 44	M. L.	6			4713 6324	3 3	CS133 CS133					10	*35, *27, *47, 80, G2S...	175	3-7, 9
220 (221, 223).....	Vol. Tone	6585 6586	15 22	M. K	6			4713	3	CS133					12	*27, *35, *50, *81, G2S...	175	3-10, 13
230A (233 Comet)...	Vol.	1316	8	DRP313				2-2-2 4-4-2	3 3	See Note See Note	B1 B1				7	*24, *45, 80...		1-13
251, 253, 254 (Chassis 25).....	Vol. Tone	5316 5635	8 44	F. Z12	6	2		4713 5414	3 3	CS133 CS133					9	*27, *51, *47, 80...	175	2-8
251B, 253B, 254B (Chassis 25B).....	Vol. Tone	5587 5634	15 44	F12 L.	6			5608 4713	3 3	CS133 CS133					9	*27, *51, *47, 80...	175	2-10
290 (291, 293, 294)...	Vol. Tone Supp.	7236 7235 7369	15 22 12	M. K12 E12	6			7173 7278 7402	2 14 15	CS133 CM172 BB12					9	*53, 56, 57, 47, 82, 4S	175	3-16, 17
294 (Chassis 10, Chassis 290).....	Vol. Tone Supp.	7236 7235 7369	15 22 12	M. K12 E12	6			7173 7278 7402	2 14 15	CS133 CM172 BB12					12	*58, 56, 4S, 57, 47, *24, *80	175	3-14, 16
300, 300A (303, 304, 307).....	Vol. Tone Supp.	7236 7316 7427	15 22 12	M. Y.	6			7489 7278 7402	2 14 15	CS136 CM172 BB12					11	*58, 56, *57, *47, 82, G4S	175	3-18, 20
310A (311).....	Vol. Tone	7236 7235	15 22	M. K12	6			7784 7824	15 1	BB15 2S563					7	*58, 55, 56, 47, 80...	175	3-21, 24
310B (314, 315).....	Vol. Tone	7236 7235	15 22	M. K12	6			8118 7824 8118	16 1 16	BB15 2S563 BB15					7	*58, 56, 55, 47, 80...	175	3-22, 25
320 (324).....	Vol. Tone Supp.	7236 7316 7427	15 22 12	M. M. Y.	6			7402 7489 7988	15 2 14	BB12 CS136 CS133					12	*58, 56, *57, *47, 82, *4S	175	3-26, 28
330 (331, 336, 77)...	Vol. Tone	7236 7316	15 22	M. M.	6			7784 7402 8721	15 19 1	BB15 BB12 RS216					7	*58, 56, 55, 59, 80...	175	3-29, 30
340, 340B (344).....	Vol. Tone Supp.	9006 9005 9079	15 22 12	M. M. Y.	6			8722 8118 8722	1 15 3	RS213 BB15 RS213					11	56, *56, *57, *59, 82, 55	175	3-31, 32
351, 353 (Chassis 35).....	Vol. Tone	5723 5743	15 22	F12 G12	6			8721 7988 8118	2 14 15	RS216 CS133 BB15					10	*27, *51, *45, 80...	175	2-12
360 (363).....	Vol. Tone Supp.	9006 9005 9079	45 22 12	M. M. Y.	6			5806 .15 .35	1 1 1	CS133 CS133 See Note	B1 B9 B12				11	*58, *56, *57, *59, 82	175	3-33, 35
370 (371, 373).....	Vol.	9231	6	Y.	6	EX250		8721 7988 8118	2 14 18	RS216 CS133 BB15					5	*57, 58, 59, 80...	456	3-36, 38
380 (381).....	Vol.	8759	6	Y50MP	6	EX250		9019 9219 9019	19 1 15	BB12 CM172 BB12					4	57, 58, 89, 84		3-39
390 (393).....	Vol. Tone	9006 9005	17 22	M. M.	6			8774 8722 8721	15 1 1	BB12 RS213 RS216					8	*56, *58, 55, 53, 80...	175	3-40, 41
400 (411, 413) 400A (411A, 413A)...	Vol. Vol.	9663 9663	6 6	Y. Y.	6	EX250		8118 9661	15 6/15	BB15 SR630					5	*57, 58, 43, 25Z5	456	3-42
440 (44, 49, 194)...	Vol.		6	F7	6	3		9661	6/15	SR630					5	*6D7, 6F7, 43, 25Z5	456	4-10
460 (461, 463).....	Vol. Tone	10183 10242	18 22	M. M.	6			10536 10207	1/15 1	SR629 RS216					4	6A7, 6F7, 41, 6Z5	456	4-11, 12
490 (491, 493).....	Vol. Tone	10664 11597	18 22	M. M.	6			10193 10208	1 15	RS213 TN111					6	*58, 2A7, 55, 2A5, 80...	175	4-13, 14
500 (55, 59, 75, 195, 560, 566).....	Vol.	10868	15	M.	6			10630 10946 .008-.008	4/15 18	CM172/BB12 TN111 Buffer		F220C F294	C11 C11		6	*6E7, 6A7, 85, 42, 6Y5	175	4-15, 21
	Vol.							10827	1/15	CM172/BB12					5	6A7, 6F7, 6B7, 42, 80	456	4-23, 24

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replace- ment	*Note				
MAJESTIC—Continued 520 (95, 105)..... 570.....	Vol.	11378.....	18	M.....	7										5	3A, 1A6, 25, 33.....	175	4-25,29
	Vol.	12041.....	18	M.....				12038-1.....	25	RS216.....					6	5B, 2A7, 55, 2A5, 80.....	175	5-3
	Tone	12040.....	22	M.....	6			12039-1.....	25	RS213.....								
600 AC-DC.....	Vol.	11535.....	17	M.....	6			12026-2.....	15	BB15/BB15.....					6	6A7, 6E7, 6C7, 43, 25Z5.....	456	5-4
800 (85, 86, 998)...	Vol.	11016.....	127	M.....				16-8.....	6	2N504.....					8	5B, 2A7, 56, 53, 80, 4S.....	175	4-30,31
	Tone	11015.....	22	M.....	6			10.....	15	BB12.....								
998.....	Vol.	11016.....	127	M.....				11017.....	25	RS216.....					8	5B, 2A7, 4S, 56, 53, 80.....	175	4-30,31
	Tone	11015.....	22	M.....	6			11099.....	15	BB15.....								
	Tone	11015.....	22	M.....				11017.....	25	RS216.....								
	Tone	11015.....	22	M.....				11200.....	25/13	RM261.....								
	Tone	11015.....	22	M.....				11099.....	15	BB15.....								
MAJESTIC RADIO Charlie McCarthy 1-2.....	Vol.	Y-VC-15.....	18	MR48.....	M26			40.....	25	BB27.....					5	6A8GT, 6K7GT, 25L6GT, 25Z6GT, L49B, 6Q7GT.....	455	9-1
1A50A, F, H, AB, FH, HB.....	Vol.	Y-VC-30.....	18	MR48.....	M26			Y-CE-43.....	1/19	2N519/BB15.....					5	6A7, 6D6, 75, 41, 80.....	455	11-1
1A59, 1A59B.....	Vol.	Y-VC-30.....	18	MR48.....	M26			Y-CE-51.....	1	2N518.....					5	6A7, 6D6, 75, 41, 80.....	455	10-1
1B59.....	Vol.	Y-VC-30.....	18	MR48.....	M26			Y-CE-51.....	1	2N518.....					5	6A7, 6D6, 75, 41, 80.....	455	10-1
1A50, 1A50B.....	Vol.	Y-VC-30.....	18	MR48.....	M26			Y-CE-43.....	1/19	2N519/BB15.....					5	6A7, 6D6, 75, 41, 80.....	455	11-1
1D50MB.....	Vol.	Y-CV-25.....	17	†.....			A5	Y-CE-46.....	1/†	3N534.....					5	6A8GT, 6U7G, 6Q7G, 25L6G, 25Z6G.....	455	11-1
1D59L.....	Vol.	Y-VC-30.....	18	MR48.....	M26			Y-CE-50.....	1	BB26.....					4	6A7, 6D6, 75, 25L6G, 25Z5.....	455	12-1
1M401, R, W.....	Vol.	Y-VC-40.....	18	UM154-SS3	M26			Y-CE-50.....	1	BB26.....					4	12SA7GT, 12K7GT, 12Q7GT, 70A7GT.....	455	11-3
2A50F, FH, FM, FMB.....	Vol. & Tone	Y-VC-33.....	18/57	Order from	Mfr.....			Y-CE-43.....	1/19	2N519/BB15.....					5	6A7, 6D6, 75, 41, 80.....	455	11-5
2C60.....	Vol. & Tone	Y-VC-33.....	18/†	Order from	Mfr.....			Y-CE-43.....	1	2N519.....					6	6K8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 5Y3G.....	455	12-3
2C60AP.....	Vol. & Tone	Y-VC-33.....	18/†	Order from	Mfr.....			Y-CE-43.....	1	2N519.....					6	6K8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 5Y3G.....	455	12-2
2C60P.....	Vol. & Tone	Y-VC-42.....	18/†	Order from	Mfr.....			Y-CE-60.....	1	2N519.....					6	6K8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 5Y3G.....	455	12-3
2D60.....	Vol.	Y-VC-21.....	18	MR48.....	M26			CE-46.....	1/15	3N534.....					5	6K8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6G.....	455	12-1
3C70.....	Vol. & Tone	Y-VC-35.....	18/†	Order from	Mfr.....			Y-CE-52.....	1	2N519.....					7	6SA7, 6SK7, 6Q7G, 76, 6AC5G, 5Y3G, 6U5.....	455	11-6
3C80, 3C80P.....	Vol. & Tone	Y-VC-39.....	18/†	Order from	Mfr.....			Y-CE-52.....	1	2N519.....					8	6K8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 5Y3G, 6U5.....	455	11-7
3SC80, 3SC80B.....	Vol. & Tone	Y-VC-39.....	18/57	Order from	Mfr.....			Y-CE-52.....	1	2N519.....					8	6K8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 5Y3G, 6U5.....	455	11-8
3C90.....	Vol. & Tone	Y-VC-39.....	18/57	Order from	Mfr.....			Y-CE-52.....	1	2N519.....					9	6K8G, 6U7G, 6Q7G, 6K6G, 5Y3G, 6U5.....	455	11-9
3SC90.....	Vol. & Tone	Y-VC-39.....	18/57	Order from	Mfr.....			Y-CE-52.....	1	2N519.....					9	6K8G, 6U7G, 6Q7G, 6K6G, 5Y3G, 6U5.....	455	11-9
4C10.....	Vol.	Y-VC-43.....	18	MR48.....	M27			CE-35.....	12	BB21.....					4	1A7GT, 1N5GT, 1H5GT, 1C5GT.....	455	12-1
4PWO.....	Vol.	Y-VC-36.....	151	†.....			A5	Y-CE-54.....	1/15	†.....	B3				4	12Q7GT, 50L6GT, 12SA7GT, 3Z5GT.....		11-10
5BD, 5BDR.....	Vol.	Y-VC-38A.....	18	†.....			A5	CE-62.....	24/13/ 78	FPQ407.....					5	1A7GT, 1N5GT, 1H5GT, 1D8GT, 70L7GT.....	455	12-5
5ADA.....	Vol.	Y-VC-30.....	18	MR48.....	M26			Y-CE-43.....	1/15	2N519/BB15.....					5	6A7, 6D6, 75, 41, 80.....	455	12-4
5BDA, 5BEA.....	Vol. & Tone	Y-VC-33.....	18/57	Order from	Mfr.....			Y-CE-43.....	1/19	2N519/BB15.....					5	6A7, 6D6, 75, 41, 80.....	455	11-11
5CAA.....	Vol.	Y-VC-21.....	18	MR48.....	M26			CE-46.....	1/15	3N534.....					5	6K8GT, 6K7GT, 6Q7GT, 25L6G, 25Z6G.....	455	12-1
5T, 5TO.....	Vol.	Y-VC-21.....	18	MR48.....	M26			Y-CE-55.....	1	2N514.....					5	12SA7GT, 12K7GT, 12Q7GT, 50L6GT, 35Z4GT.....	455	11-12

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	AND T. Vol.	CONTROLS						CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
		Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement					*Note
MAJESTIC RADIO 5ULBD.	Vol.	LEVISION-Y-VC-38A	Continued 18	used †			A5	CE-62	24/13/78	FPQ407					5	1A7GT, 1N5GT, 1H5GT, 1D8GT, 70L7GT	455	12-5
6UL51	Vol.	Y-VC-21	18	MR48	M26			Y-CE-40	1	BB24					5	6A7, 6D6, 75, 25L6G, 25Z5	455	11-10
42	Vol.	Y-VC-16	6	MR33		EX300		16, 16	1	BB24				4	6K7, 6J7, 25L6		9-1	
50 (1937)	Vol.	B16970	6	K12	6			B16973, B17042	4	RS207				4	6D6, 6C6, 43, 25Z5		8-1	
51B, 51P, 51W (Ch. 151)	Vol.	Y-VC-2	6	K12				Y-CE-2	4	BB25				4	6D6, 6C6, 25L6G, 25Z5, HK55B		10-3	
52	Vol.	Y-VC-15	18	MR48	M26			16, 40	25	BB24, BB27				5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	9-1	
55B, P, W (Ch. 155)	Vol.	Y-VC-2	6	K12				Y-CE-4	1/15	3N534				4	6A7, 6C6, 25L6G, 25Z5, HK55B	455	10-4	
56 (Ch. 156)	Vol.		18	MR48				16-8-10	1/19	3S578				5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y3G	455	10-5	
60 (1937)	Vol. & Tone	B17010	17	O				B17011-3	4	RS208				5	6A8G, 6K7G, 6Q7G, 25B6G, 25Z6G	456	8-2	
62A	Vol.	B17047	17	M	6			B17197	1	RS208				6	6A7, 6D6, 75, 41, 80, 76	455	9-2	
65, 66 (1937)	Vol. & Tone	Y-VC-18	18	MR53				CE43	1/19	2S563/BB15				6	6A8G, 6K7G, 6Q7G, 6G5, 6K6G, 5Y3	456	7-1	
67, 68 (Ch. 167, 1673)	Vol.	B16542-2	18	O	6			B16466	4	RS216				6	6A8G, 6U7G, 6J5G, 6F5G, 6K6G, 5Y3G	455	10-6	
75, 76 (1937)	Vol. & Tone	B16540-2	22	UC502			See Note A19	B16467-2	4	RS213				7	6L7G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3, 6C5G	456	7-2, 8-5	
85, 86	Vol. & Tone	B16542-2	18	O	6			A-15236-3	25	WE3050				5	6C5G, 6F6G, 6G5, 5Y3	456	7-3	
130, 130U	Vol.	B16539-2	44	SRP284	8			A-15237-2	25	RS215				3	1A7GT, 1N5GT, 1D8GT	455		
140	Vol.	MR48	18	MR48				CE-58	12	BB20				4	12SA7GT, 12K7GT, 12Q7GT, 70A7GT	455	11-12	
148	Vol.	Y-VC-15	18	MR48	M26			Y-CE-56	1	†	B3			4	12SA7GT, 12K7GT, 12Q7GT, 70A7GT	455	11-12	
149L, 149N, 149W	Vol.	Y-VC-29	18	MR48	M26			Y-CE-50	1	BB26				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	10-1	
150L	Vol.	Y-VC-29	18	MR48	M26			Y-CE-46	1/15	3N534				5	12SA7GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-13	
167	Vol. & Tone		20	†			A19	16-16	1	2S569				6	6A8G, 6U7G, 6J5G, 6F5G, 6K6G, 5Y3G	455		
250, 250M	Vol.	Y-VC-21	18	MR48	M26			Y-CE-55	1	2N514				5	12SA7GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	455	12-1	
260	Vol. & Tone	Y-VC-33	18/†	Order from Mfr.				Y-CE-43	1	2N519				6	6K8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 5Y3G	455	12-2	
310UL	Vol.		18	MR48				CE-58	12	BB20				3	1A7GT, 1N5GT, 1D8GT	455	11-14	
360	Vol. & Tone	Y-VC-35	18/†	Order from Mfr.				Y-CE-52	1	2N519				7	6SA7, 6SK7, 6Q7G, 76, 6AC5G, 5Y3G, 6U5	455	11-6	
380	Vol. & Tone	Y-VC-39	18/†	Order from Mfr.				Y-CE-52	1	2N519				8	6K8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 5Y3G, 6U5	455	11-7	
390	Vol. & Tone	Y-VC-39	18/57	Order from Mfr.				Y-CE-52	1	2N519				9	6K8G, 6U7G, 6Q7G, 6K6G, 5Y3G, 6U5	455	11-9	
410	Vol.	Y-VC-43	18	MR48	M27			CE-35	12	BB21				4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	12-1	
419B	Vol.	Y-VC-26	18	MR48	M27			CE-35	12	BB21				4	1A7G, 1N5G, 1H5G, 1C5G	455	11-14	
420, 420PL	Vol.	Y-VC-26	18	MR48	M27			CE-35	12	BB21				4	1A7G, 1N5G, 1H5G, 1C5G	455	11-14	
421, 421PL	Vol.	Y-VC-26	18	MR48	M26			CE-35	12	BB21				4	1A7G, 1N5G, 1H5G, 1C5G	455	11-14	
511, 511A, 519P, 519PA	Vol.	Y-VC-17	18	MR48				CE-34	1	BB41				5	6A7, 6D6, 75, 41, 80	455	9-3	
551	Vol.	Y-VC-11	18	MR53				Y-CE-43	1/19	2N519/BB15	B10			5	6A7, 6D6, 75, 41, 80	455	9-3	
620	Vol. & Tone	B17010	15	MR53				CE-38	1	BB41				5	6A8G, 6K7G, 6L16G, 6K6G, 5Y3G	456	8-4	
639, 639B	Vol.	B17047	17	MR44				B16466	25	RS216				6	6A7, 6D6, 75, 41, 80, 6J5	455	9-4	
	Vol.	Y-VC-19	18	MR48				B16467-2	25	RS213				6	6A7, 6D6, 75, 41, 80, 6J5	455	9-4	
	Vol.		18	MR48				CE43	1/19	2S563/BB15				6	6A7, 6D6, 75, 41, 80, 6J5	455	9-4	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MAJESTIC RADIO	AND TONE	LEVISION—	Continued															
650 (1937)	Vol.	B16542-2	18	O				B16466	4	RS216					6	6A8G, 6K7G, 6Q7G,	456	7-1,8-5
651EB	Tone	B16540-2	34	UC502	6			B16467-2	4	RS213					5	6K6G, 6C5, 5Y3, 6A7, 6D6, 75, 25L6G, 25Z5, L49B	455	10-7
670, 671, 672, 673 (Ch. 167, 1673)	Vol.	Y-VC-21	18	MR48	M26			Y-CE-46	1/19	3N534								
699P	Vol.	Y-VC-22	18	†		See Note	te A19	†	1	See Note	B3				6	6A8G, 6U7G, 6J5G, 6F5G, 6K6G, 5Y3G	455	10-6
739	Vol.	Y-VC-6	20	†		See Note	te A19	Y-CE-7	1/19	3S578					6	6A7, 6D6, 75, 41, 6J5, 80	455	11-15
750 (1937)	Tone	Y-TC-1	21	†		See Note	te A3	CE7	1/15	3S579					7	6K8, 6K7, 6J5G, 6Q7, 6K6G, 6U5, 5Y3G, 6C5G, 6L7G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3	455	9-5
800	Vol.	B16542-2	18	O	6			B16466	4	RS216					7	6A8G, 6K7G, 6Q7G, 25L6, 25Z5, 26G, 6G5	456	7-2,8-5
850 (1937)	Tone	B16540-2	34	UC502				B16467	4	RS213					7	6A8G, 6K7G, 6Q7G, 6C5G, 6G5, 6F6G, 5Y3	456	8-7
939	Vol.	†	17	†		See Note	te A19	†	1	See Note	B3				9	6K7, 6K8, 6U5, 6Q7, 6J5G, 6K6G, 80	455	7-3,8-5
1050	Vol.	B16553-2	17	TRP618	6			B16554-2	1	WE3050					10	6K7G, 6L7G, 6Q7G, 6C5G, 6G5, 6F6G, 5Z3	456	9-7
1056X	Tone	B16540-2	22	UC502				B15427	1	RS216					10	6J7G, 6A8G, 6J5G, 6U7G, 6Q7G, 6V6G, 6U5, 5Y3G	455	7-4
1058X	Vol.	Y-VC-5	18	†		See Note	te A19	B16551-3	15	TN111					10	6J7G, 6A8G, 6J5G, 6U7G, 6Q7G, 6V6G, 6U5, 5Y3G	455	10-9
1250	Vol.	Y-VC-5	18	†		See Note	te A19	Y-CE-10	1/15	3S578					10	6J7G, 6A8G, 6J5G, 6U7G, 6Q7G, 6V6G, 6U5, 5Y3G	455	10-5
1250	Tone	†	15	†	6			CE-25	1	BB12					12	6K7G, 6L7G, 6H6G, 6C5G, 6G5, 6F5G, 6L6G, 5Z3	456	8-9
1356X (Ch. 11356X)	Vol.	TRP610	15	MR53	M26			B16613-2	1	2S568					13	6U7G, 6L7G, 6J5G, 6H6G, 6Q7G, 6F5G, 6V6G, 6U5, 5X4G	455	10-11
1656X (Ch. 11656X)	Vol.	B16566-2	22	P				B16614-3	14/15	CM172					13	6U7G, 6L7G, 6J5G, 6H6G, 6Q7G, 6F5G, 6V6G, 6U5, 5X4G	455	10-12
1656X (Ch. 11656X)	A.F.C.	Y-VC-9	15	MR53	M26			Y-CE-15	1	WE3050					16	6U7G, 6L7G, 6J5G, 6H6G, 6Q7G, 6F5G, 6V6G, 6U5, 5X4G	455	10-11
1673	Vol.	Y-PA-12	8	UC500				Y-CE-13	13/15	BB34/TN111					16	6U7G, 6L7G, 6J5G, 6H6G, 6Q7G, 6F5G, 6V6G, 6U5, 5X4G	455	10-12
Chassis 1870	Vol.	†	20	†				CE-15	13	BB60					16	6U7G, 6L7G, 6J5G, 6H6G, 6Q7G, 6F5G, 6V6G, 6U5, 5X4G	455	10-12
11056, 11058	Vol.	MR14	15	†		See Note	te A19	CE-13	13	WE4030					6	6A8G, 6U7G, 6J5G, 6F5G, 6K6G, 5Y3G	455	
11356	Vol.	M	21	†		See Note	te A19	CE-26	13	BB60					8	6U7G, 6A8G, 6G5, 6J5G, 6F5G, 6K6G, 5Y3G	455	10-8
11656	Vol.	Y-CV-5	18	MR48				16-16-10	1/15	3S578					10	6U7G, 6A8G, 6J5G, 6Q7G, 6V6G, 6G5, 5Y3G	455	9-9
11656	Vol.	Y-VC-9	127	MR53	M26			10	15	BB12					12	6U7G, 6L7G, 6J5G, 6H6G, 6Q7G, 6F5G, 6V6G, 6U5, 5X4G	455	9-11
11656	Vol.	Y-VC-9	45	MR53	M26			Y-CE-13	1	WE4050					12	6U7G, 6L7G, 6J5G, 6H6G, 6Q7G, 6F5G, 6V6G, 6U5, 5X4G	455	9-13
11656	Sen.	Y-PA-12	7	UC500				Y-CE-15	14/15	BB34/TN111					16	6U7G, 6L7G, 6J5G, 6H6G, 6Q7G, 6F5G, 6V6G, 6U5, 5X4G	455	9-11
								CE-26	13	BB60					16	6U7G, 6L7G, 6J5G, 6H6G, 6Q7G, 6F5G, 6V6G, 6U5, 5X4G	455	9-11
								CE15	22	WE3050					16	6U7G, 6L7G, 6J5G, 6H6G, 6Q7G, 6F5G, 6V6G, 6U5, 5X4G	455	9-11
								CE13	22	WE4030					16	6U7G, 6L7G, 6J5G, 6H6G, 6Q7G, 6F5G, 6V6G, 6U5, 5X4G	455	9-11
								R17042	14	RS207					16	6U7G, 6L7G, 6J5G, 6H6G, 6Q7G, 6F5G, 6V6G, 6U5, 5X4G	455	9-11
								CE25	15	BB12					16	6U7G, 6L7G, 6J5G, 6H6G, 6Q7G, 6F5G, 6V6G, 6U5, 5X4G	455	9-11
								CE27	13	BB40					16	6U7G, 6L7G, 6J5G, 6H6G, 6Q7G, 6F5G, 6V6G, 6U5, 5X4G	455	9-11
P. R. MALLORY & CO.	O.																	
"B" Eliminator																		
Types 1 to 4 incl.								15233	3	On Order	B125							
Types 5 and 6								15233	3	On Order	B125							
"B" Eliminator 10 to 14 Incl. 1933-34																		
VF223								16736	3	On Order	B125							
"Vibrapacks"								16737	3	On Order	B125							
VP540								16738	3	On Order	B125							
VP551								FPT390	1/13	FPT390								
VP552																		
VP553								101650	1	See Note	B125							
VP554								A40980-3		Buffer	B125							
VP555								A40980-1		Buffer	B125							
VP-G556								A40980-1		Buffer	B125							
VP557								A40980-1		Buffer	B125							
VP-F558								A40980-1		Buffer	B125							
								A40980-6		Buffer	B125							
								101411	1	On Order	B125							
								A40980-1		Buffer	B125							
								A42086-1		Buffer	B125							
								X-26080	1	On Order	B125							

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MARCONIPHONE																		
"Vanity" (1937)	Vol. Tone		18	MR48				25-16-8	6/13	See Note	H3				6	6A7, 78, 75, 6G5, 43, 25Z5, L42E	456	10-1
"Vanity" (1938)	Vol.		22	K12				5-5	15	TN111					8	6A7, 6D6, 76, 6C5, 443, 6G5, 25Z5, D9085	456	10-1
D, DE (1937)	Vol. Phono.		18	MR48				5, 25	1	BB26					7	6116, 6A7, 6H7, 443, 25Z5, L17D	175	10-2
D8 (1938)	Vol. Tone		63	MR33				16, 16, 10	6	TN127					7	6116, 6A7, 6H7, 443, 25Z5, L17D	175	10-3
	Vol. Phono.		18/7	DRP314	6			25	12	BB26					7	6116, 6A7, 6H7, 443, 25Z5, E658A	175	10-3
	Tone Phono.		41	N				40	1	BB27					9	6D6, 6A7, 6H6, 6G5, 6H7, 443, 25Z5, E658B	175	10-4
D10 (1938)	Vol. Phono.		63	MR33				25	1	BB26					7	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 6L5, 25Z6G	456	§11-5
	Vol. Phono.		18/7	DRP314	6			40	1	BB27					9	6D6, 6A7, 6H6, 6G5, 6H7, 443, 25Z5, E658B	175	10-4
	Tone Phono.		41	N				25	1	BB26					7	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 6L5, 25Z6G	456	§11-5
D11	Vol. Tone		63	MR39				30	15	BB17					7	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 6L5, 25Z6G	456	§11-5
	Vol. Tone		18	MR48	M26			32-32	63		H3				7	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 6L5, 25Z6G	456	§11-5
	Vol. Tone		22	MR33				12	63		H3				7	6SA7GT, 6K7GT, 6SQ7GT, 25L6G, 6L5, 25Z6G	456	§11-5
MEISSNER																		
8	Vol. Tone Sen.		15	N				8, 8, 8	3	RS213					8	6K7, 6A8, 6C5, 6H6, 6F5, 6F6, 5Z4		
			22	UC501	6			10	15	BB12					8	6K7, 6A8, 6C5, 6H6, 6F5, 6F6, 5Z4		
			7	J														
METEOR—See Airing																		
MID-WEST RADIO CORP.		"Miraco"																
AC6 '33 Model	Vol.		83	N	6			4-4	25	CM170					6	55, 56, 58, 59, 80	450	
AC6 Midget	Vol. Tone		6	G7	6	2		8-8	1	See Note	H3				6	24, 27, 45, 80		
	Vol. Tone		22	G12														
AC8 ('32)	Vol. Tone		83	N	6			8, 8	1	RS213					8	55, 56, 57, 58, 2A5, 80	450	
AC8-33 (4 Bands)	Vol. Tone		22	K12														
	Vol. Tone		83	N	6			8-8	1	2N518					8	57, 56, 58, 55, 2A5, 80	450	8-27
AC8 ('33) 5 Bands	Vol. Tone		83	N	6			8-8	1	2N518					8	55, 56, 57, 58, 59, 80	456	8-27
AC9 (1SG, 227 Type)	Vol.		7/12				See Note A5	2-2-2	3	See Note	H3				9	24, 27, 45, 80		
	Vol. Tone		6	Y				1		See Note	H9				9	24, 27, 45, 80		
AC9-4SG	Vol. Tone		22	G12				8, 8, 8	28	RS213					9	24, 27, 45, 80		3-2
AC9 Pentode Super (2 Types)	Vol. Tone		62	N				8-8	4	See Note	H3				9	24, 27, 35, 47, 80	175	3-4
	Vol. Tone		22	N			See Note A27											
	Vol. Tone		22	L			See Note A1											
AC9 T.R.F.	Vol.		14				See Note A5	4-2-2-1	3	See Note	H1				9	26, 27, 71A, 80		3-4
AC10	Vol. Tone		6	G12				8-8	1	See Note	H3				10	24, 27, 45, 80	175	
AC11 '31	Vol. Tone		44	G12														
	Vol. Tone		149	UC513				8-8	4	See Note	H3				11	35, 24, 27, 47, 80	175	3-4
AC12	Vol. Tone Sen.		45	N				8	3	RS213					12	55, 58, 42, 80, 57	450	
	Vol. Tone Sen.		7	UC500				8-8	3	See Note	H3							
	Vol. Tone Sen.		7	UC500				25	15	BB15					6	30, 34, 19	456	8-5
Battery 6 Super	Vol.		15	N														
Battery 7 (2 Volt Model)	Vol.		10	M														
Battery 8 (Super-2 Volt)	Vol. Tone		76	M				24	12	See Note	H3				8	30, 34		
C4-1932 Converter "Imperial"	Vol. Tone		76	M				8-8	1	2N518					4	57, 56, 58, 80		9-1
	Vol. Tone		16	NN				16	3	RS216					18	6116, 6C6, 76, 6B7, 2A5, 5Z3	456	8-61, 63
	Vol. Tone		8	Order from Mfr.				8	3	RS213								
	Supp. Att.		12	K12				10	15	BB33								
	Vol. Att.		25	Order from Mfr.				25	15	BB15					9	24, 26, 27, 71, 80		4-1
Miraco 1SG-226	Vol.		25	DRP240				4-2-2-1-1	3	See Note	H1				16	55, 56, 57, 58, 42, 46, 80, 82	450	3-3
Miraco 16 Tube ('32)	Vol. Tone		45	N	6			4	1	HS691	H3							
	Vol. Tone		22	K12				8	1	HD683	H3							
	Supp.		7	UC500				4-4-8	3	See Note	H3							
	Supp.		7	UC500				8	13	RS213								
"Portable" (1940)	Vol.		17	MR33	M27			40-20-10-70	76/78	See Note	H3				5	1A7, 1N5, 1T5, 25Z6, 1115	456	12-1
Regal (1936)	Vol. Tone		18	N				25	3	WE3050					22	6K7, 6116, 6L7, 6C5, 6J7, 6N6, 5W4, 80, 2M2	456	8-65, 68
	Vol. Tone		1	N				24	3	WE3050								
	Vol. Tone		40	N				20	13	WE1625								
	Vol. Tone		60	N				20	15	BB17								
Regal (1937)	Vol. Tone		75	N				25	3	WE3050					22	6K7, 6C5, 6J7, 6H6, 6L7, 6N6, 80, 2M2, 5W4	456	9-18, 20
	Vol. Tone		1	N				40	3	WE4050								
	Vol. Tone		24	N				24	3	WE3050								
	Vol. Tone		60	N				20	15	BB17								
	Vol. Tone		20	N				16, 16	1	WE2050								
"Royale"	Vol. Tone Att.		75	N				16, 16	37	WE1650					24	6K7, 6C5, 6116, 6J7, 6F6, 5Y3 or 5Z4	456	7-1, 4
	Vol. Tone Att.		133	L				16, 16	15	BB22								
	Vol. Tone Att.		1	Order from Mfr.				10	15	BB22								
SW5-36 (AC-DC)	Vol.		6		6		See Note A5	20-12-5	27/15	UR182	H221				5	6A8, 6K7, 75, 43, 25Z5	456	8-1

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MID-WEST—Continued																		
Z4 Short Wave Converter																		
6DC (110 Volt)	Vol.		56	N				8-8	1	See Note.	B3				4	24, 227, 80	†	
6-Tube Battery	Vol.		15	MR48											6	37, 78, 85, 243	175	
5-36	Vol.		17	UM154	M26	See Note	te A96	8-8	1	2N518			294	C3	5	34, 30, 19	†	
	Tone		22	UM137		See Note	te A96	.01-.01		Buffer	B14				6	6A7, 6D6, 75, 41, 0Z4	456	
6-33	Vol.		83	N	6			4-4	1	CM170					6	58, 56, 55, 59, 80	450	
6-34	Vol.		83	N				8, 8	25	RS213					6	58, 2A7, 2B7, 2A5, 80	450	
	Tone		18	K12														
6-37	Vol.		147	N	6			20-12	27	2P549					5	6A7, 6D6, 75, 43,		
	Tone		17	N														
6-37 (Auto)	Vol.		17	UM154-SS17	M26			8-8	1	2N518			294	C3	6	25Z5	456	
	Tone		22	MR39				5-5	15	TN111					6	6D6, 6A7, 75, 41, 84	175	
	Tone		22					.025-.025		Buffer	B14							
6-38 (AC-DC) (Export)	Vol.		18	MR48	M26			20-12	4	2P549					5	6A8, 6K7, 6Q7, 25B6,		
	Tone		147	MR48												25Z5, L49B	456	
7-36	Vol.		56	N				8, 8	25	RS213					7	58, 56, 55, 2A5, 80	456	
	Tone		22	N														
7-36 (AC-DC)	Vol.		75	N	6			20	63	RS207					7	6A7, 6K7, 6116, 6F5,		
	Tone		22	L				12-25-5-5	63/15	2N512/TN111						43, 25Z5	450	
7-36 (Batt.)	Vol.		45	N				8-20	1	See Note.	B3		245	C3	7	1C6, 334, 330, 19	465	
	Tone		22	K12	6			.02		Buffer	B14							
7-36 (Metal Tube)	Vol.		56	N				8, 8	25	RS213					7	6K7, 6C5, 85, 42, 80	456	
	Tone		22	N														
7-37	Vol.		18	N	6			8, 8	25	RS213					7	6K7, 6C5, 6Q7, 6F6,		
	Tone		22	K12												5Y3	156	
7-37 (AC-DC)	Vol.		75	N	6			20	6	RS207					7	6A8, 6K7, 6116, 6F5,		
	Tone		22	N				10	15	BB12						25A6, 25Z6	456	
7-37 (Batt.)	Vol.		75	N				8	1	BB31			245	C3	7	6A7, 315, 376, 19, 6C5,		
	Tone		22	K12	6			10	15	BB12							465	
	Tone		22	N				.02		Buffer	B14							
7-38 (AC-DC)	Vol.		18	MR48	M26			12-20	4	2P549					5	6A8, 6K7, 6Q7, 25B6,		
	Tone		147	MR48												25Z5	456	
7-38 (AC-DC) (Export)	Vol.		18	MR48	M26			20-12	4	2P549					6	6A8, 6K7, 6Q7, 25B6,		
	Tone		147	MR48												25Z5, 6C5, L49B	456	
7-38 Battery (Export)	Vol.		75	MR18	M26			8-8	1	2N518			245	C3	7	6D8, 6S7, 6L5, 6Z7,		
	Tone		22	MR18				10-10	15	TN111						or 1J6, 6N5	456	
7-39	Vol.	C363	45	TM231-SS1	M26			.015	1	Buffer	B14	V13	245	C3	7	6A8, 6S7, 6L5, 6Z7,		
	Tone		22					.015		Buffer	B14					6N5	456	
8-31 (Batt.)	Vol.		129	M				24	19	BB15					8	32, 430	†	
	Tone		129	M													8-24	
8-38 (AC-DC)	Vol.		18	MR48	M26			12-20	4	2P549					6	6A8, 6K7, 6Q7, 6C5,		
	Tone		147	MR48												25B6, 25Z5	456	
8-38 (AC-DC) (Export)	Vol.		18	MR48	M26			20-12	4	2P549					7	6A8, 6K7, 6Q7, 6C5,		
	Tone		21	MR48				8-8	1	2N518		15	245	C3	7	25B6, 25Z5, K17R,		
8-38 (Batt.)	Vol.		45	MR48	M26			10	15	BB12						6D8, 6S7, 6L5, 6N5,	456	
	Tone		22	MR48				.015		Buffer	B14					1J6	456	
8-39 (AC-DC)	Vol.	C363	62	TM231-SS1	M26			C240	1	2N509					7	6A8, 6K7, 6P5, 6C5,		
	Tone		22													25L6, 25Z5, L49B,	456	
8-39	Vol.	C363	62	TM231-SS1	M26			C240	1	2S569					8	6A8, 6K7, 6116, 6P5,		
	Tone		22													6AC5G, 6C5, 80	456	
9-31 (3SG)	Vol.		7	K				6-2-4	3	See Note.	B3				9	24, 27, 245, 80		
	Tone		41	N													8-24	
9-31 (4SG)	Vol.		6	MR24				8, 8, 8	28	ST595					9	24, 247, 245, 80		
	Tone		22	MR18														
9-32	Vol.		107	N				8-8	4	CM172					9	35, 24, 27, 247, 80	175	
	Tone		39	N														
9-34	Vol.		83	N				8, 8	1	RS213					9	55, 56, 57, 58, 2A5, 80	456	
	Tone		149	K12														
	Sen.		7	UC500														
9-34 (RT9, G9, F9, H9)	Vol.		83	N				8, 8	1	RS213					9	58, 57, 56, 55, 2A5, 80	456	
	Tone		149	K12				1	12	CS130								
	Sen.		7	UC500														
9-38 (AC-DC)	Vol.		18	MR48	M26			20-12	4	2P549					7	6A8, 6K7, 6Q7, 6C5,		
	Tone		39	MR48												25B6, 25Z5	456	
9-38 (AC-DC) (Export)	Vol.		18	MR48	M26			20-12	4	2P549					7	6A8, 6K7, 6Q7, 6C5,		
	Tone		39	MR48												25B6, 6C5, 25Z5,	456	
	Tone		39	MR48												K17R	456	
10A-33-34	Vol.		62	N				8, 8	1	RS213					10	56, 58, 2A5, 80	456	
	Tone		22	K12				1	12	CS130							6-5	
	Sen.		7	UC500														
10-34	Vol.		62	N				8, 8	1	RS213					10	56, 57, 58, 2A5, 80	456	
	Tone		22	K12				2	13	CS130								
	Sen.		7	UC500				1	13	CS130								

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MID-WEST—Continued																		
10-35	Vol. Tone		62	N	6		8	1	RS213					10	*56, *58, *2A5, 80	456	6-12, 13	
	Sen.		22	K12			16	1	RS216									
			7	UC500			20	12	CS130									
10-37	Vol. Tone		18	N	7		20	12	RS207					10	*6K7, 6A7, 85, 443, *25Z5	456	8-37, 38	
	Sen.		44	L	6		25-12	6	UR182	B18								
			7	D														
10-38 (AC-DC)	Vol. Tone		18	MR48	M26		20-12	4	2P549					8	6A8, 6K7, 6Q7, 6G5, 6C5, *25B6, 25Z5	456	8-39	
	Sen.		39	MR48												175	8-40	
11-31	Vol. Tone		107	N	6		8, 8	4	RS213					11	*35, *24, *27, *47, 80			
	Sen.		149	M														
11-36	Vol. Tone		75	N	6		16	1	RS216					11	*6K7, *6C5, 6H6, *6P6, 5Z4	456	7-3, 4	
	Sen.		21	K12			8	1	RS213									
							2	14	CS130									
							12	15	BB12									
11-37	Vol. Tone		75	N	6		24	1	WE3050					11	*6K7, *6C5, 6H6, *6P6, 5Z3	456	8-41, 44	
	Sen.		21	N			40	1	WE4050									
11-37 (AC-DC)	Vol. Tone		75	N	6		25	1	RS207					11	*6K7, *6C5, 6H6, *25B6G, 25Z6	456	8-42, 44	
	Sen.		21	N			40	1	RS208							450	8-45, 46	
12-33	Vol. QAVC		83	N			8-8	3	RS213					12	*58, 55, 57, *42, 80			
			7	UC500			5	15	2N518									
							24	1	BB11									
12-38 (AC)	Vol.		†	MR48	M26		40	1	WE3050					12	*6K7, 6L7, *6C5, 6H6, 6J7, 6C8, *6V6, *0	456	8-47, 49	
							10	15	BB12				245					
12-38 (Batt.)	Vol.		†	TM230-SS1			24	1	WE3050					12	*6S7, 6L7, *6L5, 6J7, 6H6, 6N5, *6K6	456	8-48, 49	
							25	15	BB15									
12-39	Vol.	C363	†	TM231-SS1	M26		.005	1	Buffer	B14				12	*6K7G, 6L7G, 6H6G, *6P5G, 6J5G, 6J7G, *6V6G, 80	456	9-10	
							24	1	WE3050									
							40	1	WE4050									
12-40	Vol.	C363	†	TM231-SS1	M26		C248	1/15	F1PT339					12	6A8G, *6K7G, 6J5G, 6J7G, 6H6G, *6P5G, *6V6G, 80	456	11-2	
14-37	Vol. Tone		75	N	6		16	25	RS216					14	*6K7, 6H6, *6C5, *6P6, 5Z3	456	8-50, 54	
	Sen.		21	N			20	25	WE2050									
							8	13	RS213									
							25	15	BB15									
14-37A	Vol. Tone		75	N	6		24	1	WE3050					14	*6K7, *6C5, 6H6, *6P6, 5Z3	456	8-52, 54	
	Sen.		21	N			40	1	WE4050									
14-40	Vol. Tone		45	MR48	M26		C248	1	F1PT339	B192				14	6A8GT, 6K7GT, *6P5G, *6AC5G, *80, 6AF6G	456	11-3	
	Sen.		21	MR48														
14Z9	Vol.	C363	75	TM231-SS1	M26		C268	1	WE3050					14	6L7G, 6J5, *6K7G, 6H6G, *6P5G, *6J5G, *6AC5G, *80	456	10-3	
							C269	1	WE4050									
15-40	Vol.	C363	45	TM231-SS1	M26		C248	1	F1PT339	B192				15	6A8GT, *6K7GT, *6P5GT, *6AC5G, *80, 6AF6G	456	11-4	
16-33	Vol. Tone		83	N			4	3	HS691					16	*58, *56, 55, 42, *46, 80, 83	456	3-3, 6-2	
	Sen.		22	K12			4	3	RS213	B3								
			7	UC500			8	3	RS213	B3								
							25	15	BB15									
16-34 (RT16, A16, B16, D16, PR16, RM16)	Vol. Tone Supp.		15/22	MN			8, 8, 8	26	RS213					16	6D6, *76, 6B7, 2A5, *37, *45, 5Z3, 56	450	6-7, 8	
			22	K12			25	19	BB14									
			†	K12			10	19	B.313									
							12	15	BB12									
							25	15	BB15									
16-35 1935 Deluxe (J-16, L-16, M-16, S16), (EP16)	Vol. Tone		†	MN			8, 8	3	RS213					16	*6D6, *76, 6B7, 2A5, *45, 6C6, 5Z3	456	6-9, 14	
			†	Order from Mfr.			16	3	RS216									
							10	17	BB13									
							25	15	BB15									
							10	15	BB12									
16-37	Vol. Tone		75	N			25	1	WE3050					16	*6K7, *6C5, 6H6, 6J7, *6N6, *80	456	8-55, 56	
	Sen.		21	N			40	1	WE4050									
16-37 AFC	Vol. Tone		83	MR48			24	1	WE3050					16	*6K7, 6L7, 6H6, *6C5, 6J7, *6N6, *80	456	9-11	
	Sen.		21	MR48			40, 40	1/13	WE4050									
16-38	Vol.		75	TM230-SS1			24	1	WE3050					16	*6K7, 6L7, *6C5, *6H6, 6J7, *6V6, *80	456	8-57, 9-11, 12	
							40	1	WE4050									
							10	15	BB12									
17-39	Vol.	C363	†	TM231-SS1	M26		C268	1	WE3050					17	*6K7G, 6L7G, *6J5G, 6J7G, 6H6G, *6P5G, *6AC5G, *80	456	10-2	
							C269	1	WE4050									
18-36	Vol. Tone		64	N			8	3	RS213					18	*6K7, *6C5, *6H6, *6P6, *5Z4, or *5Y3	456	7-4, 5	
			132	N			16	3	RS216									
							2	13	BB20									
							8-25-25	15	BB31/2-BB15									

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MID-WEST—Continued																		
18-36A	Vol. Tone		75	N				20	1	WE2050				18	6K7, 6C5, 6H16, 6J7, 6L7, 6N6, 780	456	8-59,60	
			†	N				40	1	WE4050								
								8-25-25	13/15	BB31/ 2 BB17								
18-37	Vol. Tone		75	N				25	1	WE3050				18	6K7, 6C5, 6H16, 6J7, 6L7, 6N6, 780	456	7-6, 9-14,15	
			†	Order from Mfr.				40	1	WE4050								
								20	14	RS207								
								60	15	BB19								
18-37 AFC	Vol. Tone		75	MR48				24	1	WE3050				18	6K7, 6L7, 6H16, 6C5, 6J7, 6N6, 780	456	9-16	
18-38AC	Vol.		21	MR48				40, 10	1/13	WE1050								
			75					24	1	WE3050				18	6K7, 6L7, 6H16, 6C5, 6J7, 6V6, 780	456	8-64	
								40	1	WE4050								
								10	15	BB12								
20-38	Vol.		75	500M No. 1				24	1	WE3050				20	6K7, 6L7, 6H16, 6C5, 6J7, 6R7, 6V6, 780	456	8-69,70	
								40	1	WE4050								
								10	15	BB12								
35-5-SW AC DC Super.	Vol. Tone		7	G				12-20	6	2N509				5	6A7, 6D6, 6C6, 12Z3, 43	465	6-6, 9-2	
			22	L				5-5	15	TN111								
51BT	Vol. Tone	C363	18	TM231-SS1	M26			10	19	BB13				5	1B7G, 1N5GT, 1H5GT, 2I05GT	456	12-3	
		C374	21	MR48														
51	Vol. Tone	C363	18	TM231-SS1	M26			C248	1/15	FPT339				5	6A8GT, 6K7GT, 6S07GT, 5Y3, 6K6G	456	12-2	
		C374	21	MR48														
TD51	Vol. Tone	C363	18	TM231-SS1	M26			C248	1/15	FPT339				5	7A8, 7B7, 7C6, 35Z3, 35A5	456	12-4	
		C374	57	MR48														
90	Vol.		45	MR48	M26			C248	1/15	FPT339				9	6A8GT, 6K7GT, 6P5GT, 6AF6G, 6V6G, 80	456	11-5	
170	Vol.	C363	†	TM231-SS1	M26			C248	1	FPT339	B192			17	6A8G, 6K7G, 6J5, 6J7, 6H16, 6P5, 6AF6G, 6AC5G, 730	456	11-6	
746M & 747M (31-32)	Vol.		6	E12				8-8	4	See Note	B3			8	24, 27, 35, 47, 80	175		
MISSION BELL RADIO CO.																		
4A	Vol.		96	UM133				10	15	BB13				4	39, 38		3-1	
6A	Vol.		61	UM147				25	15	BB15				6	39, 37, 24, 47		3-2	
10A	Vol.		15	UM154				4-4	1	See Note	B3	292	C3	6	36, 39, 84, 85, 41	252	4-1	
								.02	1	Buffer	B14							
11, 12	Vol.		18	UM147				4-4	1	See Note	B3	292	C3	6	75, 77, 78, 42, 84	252	5-1	
								25, 25	15	BB15								
								.05	1	Buffer	B14							
14	Vol.		18	UM154				4-8	1	See Note	B3	292	C3	5	77, 78, 75, 42, 84	456	5-2	
								25	15	BB15								
16	Vol.		18	UM154	M26			.05	23	See Note	B3	292	C3	5	6A7, 6D6, 75, 41, 84	465	6-1	
								4-1	23	See Note	B3							
16 Auto.	Vol.		18	UM154				.02-.02	23	Buffer	B14			5	6A7, 6D6, 75, 41, 84	456	7-1	
								6-6	23	2S567								
17, 18	Vol. Tone		22	UM147				.006	23	Buffer	B14			5	6A7, 78, 75, 41, 84	456	7-1	
			15	MR48				6-6	23	2S567								
			22	M				10	15	BB12				7	6K7, 6A8, 6R7, or 6H6 and 6C5, 6F6, 84	262	7-2	
								.006	1	Buffer	B14							
19, 19A	Vol.		15	UM154				4-8	1	See Note	B3	Order from Mfr.		5	57, 58, Wunderlich, 41, 1V	252	4-2	
								10	15	BB12								
25A	Vol. Tone		15	UM154				4-8	1	See Note	B3	292	C3	6	77, 78, 75, 42, 84	252	5-3	
			22	L				25	15	BB15								
								.05	23	Buffer	B14							
35	Vol.		18	G12	6	EX300		4-4	23	See Note	B3			4	6D6, 76, 42, 80	465	6-1	
40	Vol.		18	N	6			4-4	23	See Note	B3			5	2A7, 58, 2A6, 2A5, 80	456	5-3	
40 All-Wave	Vol.		18	N	6			4-4	4	See Note	B3			5	2A7, 58, 2A6, 2A5, 80	465	5-4	
41AW, 41 Skip Band	Vol.		18	N	6			4-4	4	See Note	B3			5	6A7, 6D6, 75, 42, 80	165	6-2	
383	Vol.		18	N	6			4-4	4	See Note	B3			5	6A7, 6D6, 6Q7G, 41, 80	465		
384 (Revised)	Vol. Tone		106	MR48				8, 8	23	See Note	B3			5	6A7, 6D6, 75, 41, 80	465		
			106	M					23	RS213								
384, 384 (Special)	Vol.		106	MR48				8-8	23	2S567				5	6A7, 6D6, 75, 41, 80	165	10-1	
386 (Above 40161)	Vol. Tone		106	N				8-8	23	2S567				6	6A7, 6D6, 6H16, 6F5, 6V6G, 80	465	10-1	
386AW	Vol. Tone		106	M				8, 8	23	RS213				5	6K8, 6D6, 75, 41, 80	465		
			106	N					23									
387	Vol.		6	F12				16-16	23	CM164				4	6A7, 6F7, 25L6, 25Z5, L55B	465		
388	Vol. Tone		106	MR48				8, 8	23	RS213				6	6A7, 6D6, 75, 76, 41, 80	465		
			106	MR44														
389AW	Vol. Tone		106	N				12	25	RS215				8	6K8, 6K7G, 76, 6F5, 41, 80, 6T5	465		
			106	M				30	25	WE3050								
390, 391	Vol.		56	MR48				8, 8	23	RS213				5	6A7, 6D6, 6Q7G, 41, 80	465		
392	Vol.		6	F12				20-20	4	UR192				4	78, 76, 25L6G, 25Z5, L55B	465		
395	Vol.		18	500M				8-8	23	2S567				5	6A7, 6D6, 6Q7, 41, 80	465	10-2	
400	Vol.		18	MR48	M27			4	12	BB20				4	1A7G, 1N5G, 1H5G, 1C5G	165	10-4	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MISSION BELL—Continued																		
401, 402.....	Vol.		18	MR48.....				40, 40.....	10	BB27.....					5	6A7, 78, 75, 25L6G, 25Z5, L49B.....	465	10-3
404.....	Vol.		15	MR48.....	M26			8-8.....	24	2N518.....					5	6K7, 6I8, 6N7, 5W4.....		11-1
407, 408.....	Vol.		18	MR48.....	M26			40.....	4	BB27.....					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT.....	465	11-1
407 (Late).....	Vol.	113244079	18	UM154-SS3	M26			1132040751, 1132040753	4	BB27, BB25					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT.....	465	11-2
410.....	Vol.		18	MR48.....	M26			40.....	4	BB27, BB24					6	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT.....	465	11-2
411.....	Vol.	113244119	127	MR48.....	M26			1132041153	23	2S567					5	6A7, 6D6, 75, 41, 80	465	11-3
412.....	Vol.		18	MR48.....	M26			40.....	4	BB27, BB25					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT.....	465	11-1
415.....	Vol.		18	MR48.....				10-10.....	1	2S568					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y3G.....	465	§12-3
416.....	Vol. Tone		18	MR44.....				10-10.....	1	2S568					7	6A8GT, 6K7, 6SQ7, 6I5GT, 6F6G, 5Y3G.....	456	11-4
417.....	Vol. Tone		18	MR44.....				10-10.....	1	2S568					7	6A8GT, 6K7, 6I5GT, 6SQ7, 6F6G, 5Y3G.....	465	11-5
498 (Record Player)	Vol.		63	MR48.....	M26			40-40.....	24	BB27					2	6L5G, 70I7G, K90G		11-3
500, 501.....	Vol.		18	MR48.....	M27			4.....	12	BB20					4	1A7G, 1N5G, 1H5G, 1Q5G.....	465	10-5
504.....	Vol.		18	MR48.....				10-20.....	24	2N514, 11C2501					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 11Z6GT.....	465	11-6
638A.....	Vol.		75	UM154.....				8-8.....	40	See Note	B3		294	C3	6	6A7, 6K7, 6I16, 75, 41, 81.....	267.5	
3710.....	Vol. Tone		75	MR48.....				.006.....	23	WE1250					8	6A7, 76, 6K7, 6I16, 6F5, 342, 80.....	465	10-7
3716.....	Vol.		18	UM154.....				6-6.....	23	2S567			See Note	C6	5	6A7, 6K7, 75, 41, 84.....	267.5	10-8
3749.....	Vol. Tone		106	N.....				.006.....	23	2S567					5	6A7, 6D6, 75, 41, 80.....	465	10-1
3817A.....	Vol.		75	UM154.....				8-8.....	40	See Note	B3		294	C3	6	6A7, 6K7, 6I16, 75, 41, 81.....	267.5	
3849.....	Vol. Tone		106	MR48.....				8-8.....	23	2S567					6	6A7, 6D6, 76, 75, 41, 80.....	465	10-10
3859.....	Vol. Tone		106	MR48.....				8-8.....	23	2S567					6	6A7, 6D6, 75, 41, 80.....	465	10-10
3869.....	Vol. Tone		106	MR48.....				8, 8.....	23	BB61					5	6A7, 6K7G, 75, 25L6G, 25Z5.....	465	10-7
3871.....	Vol.		18	MR48.....				40.....	23	BB27					4	6K8, 75, 25L6G, 25Z5, L55B.....	465	10-9
3882.....	Vol.		6	F12.....				20-20.....	4	UR192					4	78, 76, 25L6G, 25Z5, L55B.....		
3891.....	Vol. Tone		196	MR48.....				8, 8.....	23	BB61					5	6A7, 6K7G, 75, 25L6G, 25Z5.....	465	10-7
MONARCH																		
L5.....	Vol. Tone	P660, P661	18, 34	N.....	6			P474.....	32	WE450					7	5Z4, 6F5, 6F6, 6I16, 6K7, 6L7, 6C5.....	456	
L6.....	Vol. Tone	P660, P661	18, 41	N.....	6			P160, P304, P474.....	32, 15, 32	2N518, BB12, WE450					8	5Z4, 6C5, 6F6, 6K7, 6L7, 6CQ7.....	456	
L7.....	Vol. Tone	P691, P682	45, 41	SRP275.....	7			P391.....	1	2N516		P402	215C	C3	7	1C6, 19, 330, 331.....	456	
Z4.....	Vol. Tone	P680, P682	45, 41	SRP275.....	7			.01-.01.....	1	2N516		P402	215C	C3	6	1C6, 19, 330, 32, 31.....	456	
Z5.....	Vol. Tone	P691, P962	45, 41	SRP275.....	7			.01-.01.....	1	2N516		P402	215C	C3	6	1C6, 19, 330, 32, 31.....	456	
A31.....	Vol.		18	N.....				8-4.....	23	2S567					5	6A7, 6D6, 75, 42, 80	456	§5-13
54.....	Vol.		18	UM154.....				6-10.....	4	See Note	B3		294	C3	5	6A7, 6D6, 75, 42, 84.....	456	
64.....	Vol.		18	UM154.....				.02.....	4	See Note	B3		294	C3	6	6D6, 6A7, 75, 42, 81.....	456	
161.....	Vol.		7	MR22.....	M26			.02, 3220.....	27	See Note	B14				4	6D6, 6C6, 43, 25Z5.....		
MONTGOMERY WARD & CO. (Airline)																		
Note: The prefix "62" or for "62" in indicates																		
Auto Radio.....	Vol.		45	N.....				4.....	15	BB12			205		6	36, 37, 330, 38.....	262	3-11, 12
Troubadour (32W).....	Vol.		6	G7.....				8, 8, 8.....	31	RS213					7	324, 27, 215, 80.....		2-1
AE10 (Two Types).....	Vol.	P911, P917	60, 60/15	E12, DRP243.....				1-1-2.....	3	See Note	B1				9	24, 26, 245, 80.....		2-18, 19
AE11.....	Vol.		8	A400P.....				1-1.5-1-1.....	3/13	See Note	B1				8	27, 371, 80.....		
AE51, 52, 53, 54.....	Vol.		8	A400P.....				1-1.5-1-1.....	3/13	See Note	B1				8	27, 371, 80.....		

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued	Vol. 062.	2.2" or for	45	Radio Division in Montgomery-Ward Catalog.				4.	15	BB12			205	6	36, 37, 38, 39	262		
7GM.	Vol. 13, 15, 16, 16X, 17, 18, 18X.	Tone	7/56	DRP314.	6			44X10.	23	RS216.				6	6K7, 6B7, 76, 6F6, 80	456		
	Vol. 17 (31) "Turret Cond."		34	UC502.				44X11.	23	RS216.				6				
	Vol. 20W.		6	G12.				972.	1	2N518.				5	24, 35, 47, 80.	262	4-1	
	Vol. 22.		6	G7.				927.	4	See Note.	B1			9	24, 35, 47, 27, 80.	175	3-13	
	Vol. 26P, 26PX.		22	G7.		See Note A5		928.	4	See Note.	B1			9				
	Vol. 26W.		6	G7.				972.	14	2N518.				4	24, 71A, 80.			
	Vol. 27W, 27WX (1500, 15000, Collegian).		22	UC502.				8-8.	25	See Note.	B3			8	24, 27, 45, 80.		2-11	
	Vol. 49.		6	G7.				8.	3	RS213.				5	24, 45, 80.			
	Vol. 62.		22	UC502.				8-6.	1	2N518.				5				
	Vol. 77.	96001.	97	TRP602.				2678.	1	RS213.				5				
	Vol. 87.		17	N.				8, 8.	1	RS213.				5			2-7	
	Vol. 95.	96001.	97	TRP602.				8, 8.	1	RS213.				5	24, 27, 45, 80.		2-17	
	Vol. 102.	P101-9.	17	N.	6			8, 8.	1	RS213.				5				
123 (Series 7D).	Vol. Tone		56	N.	6									5	24, 26, 01A, 71A.		1-1, 2-3	
			34	UC502.										6	36, 37, 38, 39.	262		
131 (71D), 133 (71D), 142 (7D), 144 (71D)	Vol. Tone		56	N.	6									5	30, 32, 33, 19.	175	4-18	
			34	UC502.										6	75, 77, 78, 41, 81.	262	4-19, 25	
181.	Vol. Tone		7	D.										5	30, 32, 33, 19.	175	4-18	
187.	Vol. Tone		41	O.										6	6D6, 6C6, 78, 75, 42, 84.	175		
500 Dictator.	Vol. Tone		7	D.	(1st Type)									6				
	Vol. 500 Dictator.		6	D7.	(2nd Type)									6				
	Vol. 811 Solo (62-1711).		8	A400P.										6				
	Vol. 839, 921, 923, 924, 1111 Fantasy (62-1611).		7	F.										5				
	Vol. 1238, 1238X.		7	O.	6									7	24, 27, 35, 47, 80.	175	2-12, 13	
	Vol. 1355 Minstrel (62-1955).		12	K12.	13									5	22, 312A, 71A.		2-10, 11	
	Vol. 2655, 2822, 2827 (Balboa), 2895, 2897 (DeSoto).		7	F.		2								7	24, 27, 35, 47, 80.	175	2-12, 13	
	Vol. 2955, 2955X, 2957, 2957X.		95	O.	6									7	27, 35, 47, 80.	262	2-14	
	Vol. 3035, 3037, 3065, 3067.		15	O.	6									9	27, 35, 47, 80.	262	2-15, 16	
	Vol. 10,000 Serenader.		34	UC502.										9	24, 27, 45, 80.		2-18, 19	
	Vol. 11,000 Challenger (2 Types).		15	O.	44									9				
	Vol. 14,000 Commander, 62,000 Cavalier.		44	UC502.										9				
	Vol. 62-010.		1/15	DRP243.										9	24, 27, 45, 80.		2-18, 19	
	Vol. 62,020 (51).		8	A400P.										7	24, 27, 45, 80.		2-20	
	Vol. 62-030.		41	N.										7				
	Vol. 62-040 Commodore.		8	A400P.										7	24, 27, 45, 80.		2-8, 9	
	Vol. 62-060 Challenger, Jr., 62-070 Princess (1800).		24	GG.										8	24, 27, 45, 80.		3-16	
	Vol. 62-078.		41	O.										8				
			6	G7.		3								8	24, 27, 45, 80.		3-7	
			41	N.										6	24, 45, 80.		3-8	
			8	Y25MP.										8	24, 27, 45, 80.		3-7	
			8	Y25MP.										8	24, 27, 45, 80.		3-7	
			6	G7.		3								8	24, 27, 45, 80.		3-7	
			7	D.										7	24, 27, 45, 80.		2-2	
			6	G7.	6	3								5	24, 45, 80.		2-7	
			6	H7.	6	3								5	57, 35, 47, 80.			

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & Note: The prefix "62-" or for 62-080	Vol.	CO.—Continued in "62-" indicates	6	Radio Division	in	Montgomery-Ward Catalog	8	3	RS213					7	24, 45, 27, 80	‡		
62-090	Tone		22	G7		See Note A5	8-6	3	2N518					7	24, 27, 45, 80	‡		
62-1, 62-2	Vol.		6	G7		See Note A5	8	3	RS213					10	27, 35, 47, 80	175	3-14	
62-7, 62-8	Tone		15	L	6		8, 8	25	2N518					7	24, 27, 47, 80, 35	175	3-15	
62-9	Vol.		44	L			8, 8	4	RS213	B3				8	24, 27, 35, 47, 80	175	3-15	
62-11, 62-12, 62-14 (1st Type)	Tone		7	H	6		8, 8	4	RS213	B3				8	24, 27, 35, 47, 80	175	3-15	
62-11, 62-14 (2nd Type)	Vol.		22	Y	6		8, 8	4	RS213	B3				8	24, 27, 35, 47, 80	175	3-15	
62-16	Vol.		8	A5MP			4-2-6	30	See Note	B3				8	24, 27, 35, 47, 80	175	2-4, 5	
62-19 (1st Type)	Tone		34	UC502			4	19	BB20					8	24, 27, 35, 47, 80	175	2-6	
62-19 (2nd Type)	Vol.		14	N			4-2-4	30	See Note	B3				8	24, 27, 35, 47, 80	175	2-6	
62-20, 62-20X	Tone		34	UC502			4	19	BB20					10	24, 27, 35, 47, 80	175	6-8	
62-21, 62-22	Vol.	62A10, 62A11	13	O	6		62-A12	4	RS213	B3				8	24, 27, 35, 47, 80	175	2-4, 5	
62-23	Tone		8	Y5MP			4-2-6	30	See Note	B3				8	24, 27, 35, 47, 80	175	2-4, 5	
62-25	Vol.		34	UC502			4	19	BB20					8	24, 27, 35, 47, 80	175	2-6	
62-26	Tone		14	N			4-2-6	30	See Note	B3				8	24, 27, 35, 47, 80	175	2-6	
62-27 (1st Type)	Vol.		34	UC502			4	19	BB20					7	24, 35, 47, 80	175	2-23, 24	
62-27 (2nd Type)	Tone		59	SRP272			8, 8	43	RS213					7	24, 35, 47, 80	175	2-23, 24	
62-29 (1st Type) (Models 11, 12, 16 and 33)	Vol.		34	UC502			4	13	BB20					7	24, 27, 35, 47, 80	262	3-1, 2	
62-29 (11, 12 2nd Type)	Tone		15	N			4-2-4	28	See Note	B3				7	24, 27, 35, 47, 80	175	2-6	
62-30	Vol.	6647	7	SRP255			928	1	RS213	B3				7	24, 35, 47, 80	175	3-4, 5	
62-34 (Washington)	Vol.	6653	15	N			928	1	RS213	B3				7	24, 27, 35, 47, 80	175	3-6	
62-35	Tone	6652	22	M			929	1	RS213	B3				8	24, 27, 35, 47, 80	262	3-1, 2	
62-36	Vol.		15	N			4-2-4	28	See Note	B3				8	24, 27, 35, 47, 80	262	3-1, 2	
62-38, 62-40, 62-38X, 62-40X	Tone		22	UC502			8-8	1	2N518					8	35, 27, 47, 80	262	9-1	
62-41	Vol.		15	O			8	19	BB21					7	24, 27, 35, 47, 80	175	3-6	
62-42	Tone		22	UC502			8	1	RS213	B3				7	35, 27, 47, 80	262	3-9	
62-43, 62-43X	Vol.		15	N			928	1	RS213	B3				7	24, 27, 35, 47, 80	175	3-6	
62-44	Tone		22	Y200MP			929	1	RS213	B3				7	35, 27, 47, 80	262	3-9	
62-45	Vol.		15	O			8-8	19	2N518					7	35, 27, 47, 80	262	3-9	
62-46	Tone		22	UC502			8	1	BB21					10	27, 35, 47, 80	262	3-9, 10	
62-47	Vol.		41	M			8	14	BB21					9	30, 34	175		
62-49	Tone		45	N			4	12	BB31					7	24, 27, 35, 47, 80	262	3-1	
62-50, 62-50X	Vol.		22	UC502			4-2-4	28	See Note	B3				7	24, 27, 35, 47, 80	262	3-1	
62-51	Tone		15	N			8-8	4	See Note	B3				5	35, 57, 47, 80	262		
	Vol.		6	H7	6	3	8-8	4	CM170					5	56, 57, 58, 47, 80	‡	6-18	
	Tone		41	E12	6	EX200	8-8	1	See Note	B3				6	27, 35, 47, 80	262	3-9, 10	
	Supp.		7	M			8	19	BB21					7	56, 57, 58, 47, 80	455		
	Vol.		34	G7			8-8	19	See Note	B3				7	56, 57, 58, 47, 80	455		
	Tone		15	Y200MP			8	19	BB13					8	35, 27, 47, 80	262		
	Vol.		34	O			8-8	19	2N518					7	56, 57, 58, 47, 80	455		
	Tone		6	UC502			8	1	BB21					9	56, 57, 58, 46, 80	262		
	Vol.		34	G7			8-8	19	See Note	B3				7	56, 57, 58, 47, 80	455		
	Tone		15	Y200MP			8	19	BB13					9	56, 57, 58, 46, 80	262		
	Vol.		22	M			8-8-8	28	RS213	B3				9	27, 35, 47, 80	262	3-9, 10	
	Supp.		7	L			4	19	BB11					9	27, 35, 47, 80	262	3-9, 10	
	Vol.		15	F			8-8	1	2N518					9	27, 35, 47, 80	262	3-9, 10	
	Tone		41	O			8	13	BB31					12	56, 57, 58, 46, 82	175		
	Supp.		45	Y200MP			8	14	BB31					12	56, 57, 58, 46, 82	175		
	Vol.		41	Z12			8	30	11D682					12	56, 57, 58, 46, 82	175		
	Supp.		8	UC502			8	30	RS213					12	56, 57, 58, 46, 82	175		
				E			4	30	RS213					12	56, 57, 58, 46, 82	175		
							4	19	BB31					12	56, 57, 58, 46, 82	175		

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & Note: The prefix "62-" or for m of "62-" indicates	Vol. 15	CO.—Continued	Radio Division	in	Montg	omery-	Ward Catalog	4-2-6	30	See Note	B3				10	24, 27, 35, 47, 80	175	
62-52	Tone		N					4-2-6	14	BB31					7	57, 58, 47, 80	175	
62-53	Vol.		SRP271					8-8	23	CM172					6	55, 56, 58, 47, 80	465	6-22
62-PC55	Tone		UC502		6			4	14	BB31					5	57, 35, 47, 80	262	
62-57	Vol.		O					8-4	4	CM172					9	27, 35, 47, 80	262	3-9, 10
62-58	Tone		L					8-8	4	See Note	B3							
			H7		6	3		8-8	1	See Note	B3							
62-64, 62-64X	Vol.		M					8	19	BB21								
	Tone		Z12					8	14	BB31								
	Supp.		UC502					8	30	1D682								
			E					8	30	RS213								
								4	30	RS213								
62-PC64	Vol.		N					4	19	BB20								
	Tone		L					PC642	7	2S567								
	Supp.		Y100MP					PC643	7	2S567								
62-67	Vol.		N					PC642	15	BB12								
	Tone		K12					8-8	1	2N518								
62-68, 62-68X	Vol.		M					8-8	28	2N518								
	Tone		L					8	28	ST595								
	Supp.		F					4	19	BB11								
62-PC68	Vol.		L		6			8, 8, 8	3	RS213								
	Tone		L															
	Sen.		H															
62-69	Vol.		M					8-8	28	2N518								
	Tone		K12					8	28	ST595								
								8-8	13/19	UR180								
62-70, 62-70X	Vol.	U4489	G7					U4116	1	2N518								
	Tone	U4488	M		6			U4119	19	BB13								
62-71	Vol.		SRP271					8-8	23	CM172								
	Tone		UC502					4	14	BB31								
62-72, 62-72X	Vol.	U4489	G7					U4116	1	2N518								
	Tone	U4488	M		6			U4119	19	BB13								
62-74, 62-74X	Vol.		SRP271					8-8	23	CM172								
	Tone		UC502					4	14	BB31								
62-75	Vol.		N					4	12	BB31								
	Tone		UC502					4	12	BB31								
62-76	Vol.		N					12-4-4	30	See Note	B3							
	Tone		O					4	13	BB31								
62-79	Vol.		M					8-8	28	2N518								
	Tone		L					8	28	ST595								
			K12					8	28	UR180								
								8-8	13/19	UR180								
62-80	Vol.		N					8-8	1	2N518								
	Tone		K12					4	19	BB11								
62-81	Vol.		Y		6			8-8	1	2N518								
								4	19	BB11								
62-82	Vol.		N					8-8	1	2N518								
62-83	Vol.		N					4	13	BB31								
	Tone		K12					8-8	28	2N518								
62-84, 62-84X	Vol.		M					8-8	28	ST595								
	Tone		K12					8-8	13/19	UR180								
								4-8-8	3	See Note	B3							
62-86, 62-86X	Vol.		TRP606					8	18	BB13								
	Tone		N					8	18	BB13								
	Supp.		DRP316			A107		8-8-8	28	See Note	B3							
62-88	Vol.		M					4	19	BB11								
	Tone		L					8	19	BB11								
	Supp.		F					8	19	BB11								
62-89	Vol.	P96005	P		6			P80984	2/13/44	UR191/BB21	B164							
	Tone	P97003	UC504					8-8	1	See Note	B3							
62-90	Vol.		G7					8	19	BB13								
	Tone		M					P80968	12	BB31								
62-91	Vol.	P96003	O					8-8	4	See Note	B3							
	Tone	P97001	UC502					8-8	12	BB31								
62-92	Vol.		H7		6	3		8-8	4	See Note	B3							
62-93	Vol.	P96004	O					P80989	12	BB31								
	Tone	P97002	K12					8	28	2N518								
62-94, 62-94X	Vol.		M					8	28	ST595								
	Tone		K12					8	28	UR180								
								8	13/19	UR180								
62-96	Vol.	P91019C	G7		6	3		P80944	11	UR193	B31							
								P80878C	20	BB20								
								P80936C	15	BB11								
62-97, 62-97X	Vol.		N					8-8	1	2N518								
	Tone		K12					8	15	BB12								
62-98	Vol.	P91019C	G7		6	3		P80944	11	UR193	B31							
								P80878C	12	BB20								
								P80936C	15	BB11								
62-99, 62-99X	Vol.		N					8-8	1	2N518								
	Tone		K12					8	15	BB12								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS								CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
MONTGOMERY WARD & CO. —Continued <i>Note: The prefix "62"- or form of "62"- indicates Radio Division in Montgomery-Ward Catalog.</i>																			
62-156, 62-156X, 62-164, 62-164X Series "B" & "C"	Vol.	P101-18	18	N	6		P103-6 P103-7	1 1	RS213 RS213					5	6F7, 6D6, 75, 42, 80.	465	6-15,16		
62-158	Vol. Tone	P96014 P97011	56 34	N UC502	6		P80916 P81032 P81043 P81042	23 23 23 23	RS213 RS213 RS216 RS216					7	6D6, 76, 6B7, 42, 80.	456	10-1		
62-166	Vol. Tone	P36X200 P40X201	17 22	UC511 M.	6		P45X204 P45X203 P45X204 TN111	1 15 15	2N518 RS216 P19A14			253	C3	6	6D6, 6C6, 75, 41, 84.	175	6-19,20		
62-167	Vol. Tone	P96005 P97011	15 21	P UC502	6		P81058 P81039 P81056 P82000	48 48 48 48	WE1650 RS216 2N516 BB19	B14				12	6D6, 76, 42, 80.	456	6-5,7		
62-169	Vol. Batt.	P101-26	97	Order from M4R	Mfr.									4	1A6, 3Z, 33	465	7-12		
62-171	Vol. Batt.	P101-26 P101-25	97 29	Order from M4R	Mfr.									4	1A6, 3Z, 33	465	7-12		
62-173, 62-175, 62-176, 62-177	Vol. Tone	36X205 40X204	56 34	N UC502	6		44X10 44X11	23 23	RS216 RS216					7	6D6, 6B7, 76, 42, 80.	456	6-24,26		
62-178	Vol.	36X201	97	TRP617	14		P45X28	12	BB31					5	30, 32, 34, 19	175	6-27,29		
62-179	Vol. Tone	P36X206 P40X205	7/15 65	DRP315 UC504	6T		44X10 44X11 44X18	4 4 13	RS216 RS216 RS203					10	76, 6K7, 345, 80.	456	6-31,34		
62-181 (Battery Super) 62-181 "Sovereign"	Vol. Vol. Tone	P36X201	6 7 11	TRP617 D. O.	14		P45X28 1-1-1	12 26	BB31 See Note	B1				5 8	30, 32, 34, 19 24, 27, 345, 80	175	6-27,29 2-2		
62-185, 62-187	Vol. Tone	36X204 40X204	7/56 34	DRP314 UC502	6T		44X10 44X11	23 23	RS216 RS216					7	76, 6K7, 6B7, 6F6, 80	456	6-35,37		
62-188	Vol. Tone	36X205 40X204	56 34	N UC502	6		44X10 44X11	23 23	RS216 RS216					7	6D6, 6B7, 76, 42, 80.	456	6-23,26		
62-189	Vol.	36X201	97	TRP617	14		P45X28	12	BB31					6	30, 32, 34, 19	175	6-27,29		
62-190	Vol. Tone	36X204 40X204	7/56 34	DRP314 UC502	6T		44X10 44X11	23 23	RS216 RS216					7	76, 6K7, 6B7, 6F6, 80	456	6-35,37		
62-192	Vol. Tone	36X210 40X206	7/15 21	DRP315 UC504	6		44X21 44X11 44X20	25 25 19	WE1830 RS216 RS216					12	46K7, 76, 6F6, 80	456	7-3,6		
62-193	Vol. Tone	36X205 40X204	56 34	N UC502	6		44X10 44X11	23 23	RS216 RS216					7	6D6, 76, 6B7, 42, 80.	456	6-23,26		
62-194	Vol. Tone	36X206 40X205	7/15 65	DRP315 UC504	6T		44X10 44X11 44X18	4 4 13	RS216 RS216 RS203					10	76, 6K7, 345, 80.	456	6-31,34		
62-195	Vol. Tone	36X210 40X206	7/15 21	DRP315 UC504	6T		44X21 44X11 44X20	25 25 19	WE1830 RS216 IC5001					12	46K7, 76, 6F6, 80	456	7-3,6		
62-196	Vol. Tone	36X204 40X204	7/56 34	DRP314 UC502	6T		44X10 44X11	23 23	RS216 RS216					7	76, 6K7, 6B7, 6F6, 80	456	6-35,37		
62-197	Vol. Tone	36X212 40X208	1 21	Order from O.	Mfr.		30 60 4-16-4 P82002	3 19 13/19 1/15	WE3050 RS208 UR193 CM175					16	46K7, 76, 6F7, 6B7, 45, 42A3, 35Z3	456	7-7,11		
62-199	Vol.	P96017	17	P	6		007 4-5-8	5	Buffer 3S579	B14				5	6D6, 6C6, 75, 41	175	6-39,40		
62-202	Vol. Tone	36X202 40X207	17 34	UM163 UC502	M26	A96	0075 44X17	12	Buffer RS207	B14				6	6D6, 6C6, 75, 41, 84.	175	7-13,14		
62-203, 62-205	Vol. Tone	36X207 40X203	45 44	UC502	14									7	1C6, 34, 330, 19	456	6-41,44		
62-206	Vol. Tone	36X206 40X205	7/15 65	DRP315 UC504	6T		44X10 44X11 44X18 45X46	4 4 13 12	RS216 RS216 RS203 2N516					10	76, 6K7, 345, 80.	456	6-31,34		
62-207	Vol. Tone	36X208 40X203	15 44	P UC502	14									9	34, 330, 19.	456	7-15,18		
62-208	Vol. Tone	36X207 40X203	45 44	O UC502	14		44X17	12	RS207					7	1C6, 34, 330, 19.	456	6-41,44		
62-209	Vol. Tone	36X208 40X203	15 44	P UC502	14		45X46	12	2N516					9	34, 330, 19.	456	7-15,18		
62-211	Vol.	36X201	97	TRP617	14		P45X28	12	BB31					5	30, 32, 34, 19	175	6-27,29		
62-212	Vol. Tone	36X207 40X203	15 44	O UC502	14		44X17	12	RS207					7	1C6, 330, 334, 19	456	6-41,44		
62-215	Vol. Tone	36X209 40X203	15 44	O UC502	7		44X17	13	RS207					7	34, 1C6, 330, 19.	456	7-19,22		
62-216	Vol. Tone	36X206 40X205	7/15 65	DRP315 UC504	6T		44X10 44X11 44X18 44X17	4 4 13 12	RS216 RS216 RS203 RS207					10	76, 6K7, 345, 80.	456	6-31,34		
62-217	Vol. Tone	36X207 40X203	45 44	O UC502	14									7	1C6, 34, 330, 19.	456	6-41,44		
62-218	Vol. Tone	36X206 40X205	7/15 65	DRP315 UC504	6T		44X10 44X11 44X18	4 4 13	RS216 RS216 RS203					10	76, 6K7, 345, 80.	456	6-31,34		

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
MONTGOMERY WARD & CO. — Contin- Note: The prefix "62-" or for 62-219	Vol.	36X207	45	O	14		Ward Catalog 44X17	12	RS207						7	1C6, 13A, 130, 19	456	6-41, 44	
62-221	Tone	40X203	44	UC502	14		45X46	12	2N516						9	13A, 130, 19	456	7-15, 18	
62-226, 62-228	Vol.	36X208	15	P	6T		44X10	23	RS216						8	*6K7, 6C5, 6Q7, 6F6, 5Z4MG, 6G5	456	8-5, 7	
	Tone	40X203	44	UC502			44X11	23	RS216										
	Vol.	36X215	17	TRP612	6T		44X209	15	BB12										
	Tone	40X211	34	Order from	Mfr.		P44X25	1	WE3050						6	*6D6, 6A7, 85, 43, 6A6	175	7-23, 25	
62-229 (32 Volt DC)	Vol.	36X213	18	N	6		P45X207	15	BB12										
62-230 (2 Volt Wet Battery)	Vol.	40X209	44	Z12			BE119-22	19	BB12						5	1A6, 34, 30, 32, 950	465	9-2	
62-232	Vol.	101-43	62	O	6		8, 8, 8	28	RS213						7	24, 27, 45, 80	465	2-1	
62-233	Vol.	P101-35	56	O		3	103-6	4	RS213						5	6A7, 6D6, 6B7, 42, 80	465	7-26	
62-235	Vol.	101-18	18	N	6		103-7	4	RS213						5	6F7, 6K7, 75, 6F6, 80	465	7-27, 28	
62-236	Vol.	36X234	18	UM154-SS3	M26		P103-6	4	RS213						5	6F7, 6K7, 75, 6F6, 80	465	7-27, 28	
62-240 (2 Volt Dry Battery)	Vol.	40X207	22	UC502		A96	P103-7	4	RS213			294	C3	6	*6D6, 6C6, 75, 41, 84	175	8-8, 10		
62-242	Vol.	101-43	62	O	6		5-8	4	CM172						6	*6D6, 6C6, 75, 41, 84	175	8-8, 10	
62-248	Vol.	101-18	18	N	6		.0075	4/15	3S579			294	C3	6	*6D6, 6C6, 75, 41, 84	175	8-11, 13		
62-249	Vol.	101-46	18	O	6		BE119-22	19	BB12						5	1A6, 34, 30, 32, 19	465	9-2	
62-251	Vol.	101-53	22	K12	M26		5-8-4	4/15	3S579			294	C3	6	*6D6, 6C6, 75, 41, 84	175	8-11, 13		
62-254	Vol.	101-50	62	M	7		.0075		Buffer	B14					5	6F7, 6K7, 75, 6F6, 80	465	7-27, 28	
62-255	Vol.	101-51	21	M			P103-6	4	RS213						7	6L7, 6C5, 6K7, 6Q7, 6F6, 5W4, 6G5	465	9-3	
62-258	Vol.	101-51	21	M			P103-7	4	RS213						8	1A6, 1A4, 130, 134, 19	465	9-3	
62-259	Vol.	36X233	18	O	6		BE103-6	23	RS213						7	1A6, 1A4, 130, 134, 19	465	9-3	
62-261	Vol.	36X233	18	O	6		BE103-7	23	RS213						8	1A6, 1A4, 130, 134, 19	465	9-3	
62-263	Vol.	36X233	18	O	6		BE103-11	12	RS203						7	1A6, 1A4, 130, 134, 19	465	9-3	
62-264	Vol.	40X212	22	Order from	Mfr.		45X212	12	BB31						4	1A6, 34, 1B5, 1F4	456	8-15, 16	
62-267	Vol.	40X212	22	Order from	Mfr.		BE103-11	12	RS203						7	1A6, 1A4, 130, 134, 19	465	9-3	
62-274	Vol.	36X215	17	TRP612	6T		45X219	1/15	3S579	B14	19A30	248	C3	6	*6K7, 6J7, 6B7, 41, 6A6	175			
62-276	Vol.	40X211	34	Order from	Mfr.		.0055		Buffer	B14					6	*6K7, 6J7, 6B7, 41, 6A6	175		
62-280	Vol.	36X219	62	TM247-SS1	M26		44X10	23	RS216						8	*6K7, 6C5, 6Q7, 6F6, 6G5, 5Z4MG	456	8-5, 7	
62-282, 62-284 (Series B)	Vol.	40X211	34	Order from	Mfr.		44X11	23	RS216						8	*6K7, 6C5, 6Q7, 6F6, 6G5, 5Z4MG	456	8-5, 7	
62-288, 62-290	Vol.	36X215	17	TRP612	6T		44X209	15	BB12						11	*6K7, 6C5, 6G5, 6F6, 5Z4MG	456	9-5, 8	
62-292	Vol.	40X211	34	Order from	Mfr.		44X10	25	RS216										
62-294	Vol.	40X211	34	Order from	Mfr.		44X11	25	RS216										
62-297	Vol.	36X234	18	UM147-SS3	M26		44X213	13/15	2N504		19A25	294	C3	6	*6D6, 6C6, 75, 41, 84	175			
62-301, 62-301X	Vol.	40X207	22	UC502			45X210	4	CM172	B14					6	*6D6, 6C6, 75, 41, 84	175		
62-302	Vol.	101-64	56	MR53	M27		.0075		Buffer	B14	126-4	246	C3	5	1A6, 1A4, 1F6, 1F4, 6N5	465	9-4		
62-303	Vol.	101-43	62	O	6		119-31	1	2N516	B14					7	6J7, 6K7, 6Q7, 6C5, 6F6, 5W4, 6G5	456	8-17, 21	
62-304	Vol.	101-101	18	MK402	M26		.005		Buffer	B14					6	6A8G, 6K7, 6Q7G, 6U5, 6K6G, 5Y3G	465	9-9	
62-280, 62-282, 62-284 (Series B)	Vol.	101-101	18	MK402	M26		12	23	RS215						7	6J7, 6K7, 6Q7, 6C5, 6G5, 5Y3	465	9-13	
62-288, 62-290	Vol.	101-101	18	MK402	M26		16	23	RS216						7	6J7, 6K7, 6Q7, 6C5, 6G5, 5Y3	465	9-13	
62-292	Vol.	101-101	18	MK402	M26		119-47B	23	CM172						6	6A8, 6K7, 6Q7, 6K6, 6G5, 5Y3	465	9-13	
62-294	Vol.	101-71	18	MR53	M26		119-38	4	SR633						6	6A8, 6K7, 6Q7, 6K6, 6G5, 5Y3	465	9-13	
62-297	Vol.	101-71	18	MR53	M26		12	23	RS215						7	6J7, 6K7, 6Q7, 6C5, 6G5, 5Y3	465	9-13	
62-299	Vol.	101-99	18	MR53	M27		16	23	RS216						5	6D8G, 6S7G, 6T7G, 6K6G, 6A85	465	9-12	
62-301, 62-301X	Vol.	36X235	18	MR48	M26		119-46	24	2N516	B14	126-4	246	C3	5	6D8G, 6S7G, 6T7G, 6K6G, 6A85	465	9-12		
62-302	Vol.	40X223	34	L			.005		Buffer	B14					5	6D8, 6S7G, 6T7G, 6K6G, 6N5	465		
62-303	Vol.	36X239	45	MR53			119-31	1	2N516	B14	126-4	246	C3	5	6D8, 6S7G, 6T7G, 6K6G, 6N5	465			
62-304	Vol.	40X226	44	MR42			.003		Buffer	B14					6	6A8G, 6K7, 6Q7G, 6U5, 6K6G, 5Y3G	465	9-9, 11	
62-294	Vol.	36X239	45	MR53			119-47B	23	CM172						7	1C7G, 1D5G, 1H4G, 1E5G	456		
62-297	Vol.	40X226	44	MR39			.02		Buffer	B14					7	1C7G, 1D5G, 1H4G, 1E5G	456		
62-301, 62-301X	Vol.	36X235	18	MR48	M26		12	23	RS215						7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	9-15	
62-302	Vol.	40X223	34	L			12	23	WE3050						11	*6K7, 6J7, 6H6, 6F5, 6G5, 6C5, *6F6, 5Z3	465	9-21	
62-303	Vol.	36X213	18	N	6		14	25	RS216						7	6A8G, *6U7G, 6V7G, 6C5G, 25A6G, 6N7G	456	9-23	
62-304	Vol.	40X209	44	Z12			14	25	RS216						4	1D7G, 1D5G, 1H6G, 1F5G	456	9-25	
	Vol.	36X238	20	TM250-SS1	M26		44X21	25	WE3050						13	*6K7, 6J7, 6H6, *6C5, 6G5, *6L6, *5Y3G	456	11-3-10	
	Vol.	40X225	41	MR55			44X36	25	WE4030						4	1D7G, 1D5G, 1H6G, 1F5G	456	9-25	
	Vol.	36X237	18	MR53	M27		45X224	19	BB15										
	Fil.	43X70	27	C6R			45X212	12	BB31						4	1D7G, 1D5G, 1H6G, 1F5G	456	9-25	

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
MONTGOMERY WARD & CO. Note: The prefix "62-" or "62-305" indicates Radio Division in Montgomery Ward Catalog.	Vol.	101-78	56	MR44	M26		119-22	19	BB12					5	1D7G, 1D5G, 1F7G, 1G5G	465	9-26	
62-305	Fil.	101-79	29	C6R										6	6A8G, 6K7G, 6Q7G, 6F6G, 6C5, 5Y3G	465		
62-306	Vol.	101-83	18	MR53	M26		119-38	23	SR633					7	6L7, 6C5, 6K7, 6Q7, 6F6, 5W4, 6G5	465	9-27,28	
62-307	Vol.	101-46	18	O	6		P103-6	23	RS213					8	*6K7, 6C5, 6Q7, 6F6, 5Z4MG, 6C5	456	8-5,7	
62-308	Tone	101-53	22	K12			P103-7	23	RS213					9	*6K7, 6J7, 6C5, 6H6, 6G5, 6F5, 6F6, 5Y3G	456	11-11,13	
62-309	Vol.	36X215	17	TRP612	6T		44X10	23	RS216					10	*30, 32, *34	456	8-23,25	
62-310	Tone	40X211	34	Order from Mfr.			44X11	23	RS216					11	*6K7, *6C5, 6C5, *6F6, 5Z4MG	456	9-5,8	
62-311	Vol.	36X236	45	TM228-SS1	M26		44X209	15	BB12					7	6A8G, *6U7G, 6V7G, 6C5G, 25A6G, 6N7G	456	9-23	
62-312	Tone	40X223	34	UC502			44X10	25	RS216					13	*6K7, *6C5, 6C5, 6H6, *6L6, *5Z4	456	8-26,28	
62-313	Vol.	36X220	64	TM247-SS1	M24		44X11	25	RS216					5	6A7, 78, 75, 41, 80	465	9-29	
62-314	Tone	40X211	44	Order from Mfr.			44X11	25	RS216					6	6L7, 6C5, 6K7G, 6Q7G, 6F6G, 5Y3	465	9-30,31	
62-315	Vol.	36X219	62	TM247-SS1	M26		44X213	13/15	2N504					7	6L7, 6C5, 6K7, 6Q7, 6F6, 5W4, 6G5	465		
62-316	Tone	40X213	65	Order from Mfr.			30-12	12/15	2N512					8	*6K7, 6C5, 6Q7, 6F6, 5Z4, 6G5	456	8-5,7	
62-317	Vol.	36X213	18	N	6									9	*6K7, 6J7, 6H6, 6F5, 6C5, 6F6, 5Y3G, 6G5	465		
62-318	Tone	40X209	44	Z12										4	*6J7, 25L6G, 25Z6G, L55B	456	9-32	
62-319	Vol.	36X221	17	TM250-SS1	M26		P44X21	30	WE3050					11	*6K7, *6J7, 6H6, *6C5, 6G5, *6F6, 5Y3G	456	11-15,16	
62-320	Tone	40X214	65	Order from Mfr.			P44X11	30	RS216					7	6A8G, *6U7G, 6V7G, 25A6G, 6J5G, 6N7G	456	9-33	
62-321	Vol.	101-49	18	O	6		P45X216	13	BB31					7	6K8G, 6K7, 6Q7G, 6P5G, 6AC5G, 5Y3G, 6U5	465	10-7,8	
62-322	Vol.	101-46	18	O	6		P45X209	19	BB12					7	6A8, 6K7, 6Q7, 6J5, *6F6, 5Y3	465	10-10	
62-323	Vol.	101-46	18	O	6		BE103-6	23	RS213					4	*6J7, 25L6G, 25Z6G, L55B	456	9-32	
62-324	Tone	101-53	22	K12			BE103-7	23	RS213					6	1B5, 1C6, *30, 34	456	8-31,35	
62-325	Vol.	36X215	17	TRP612	6T		BE103-6	23	RS213					7	*34, 1C6, *30, 19	456	8-36,38	
62-326	Tone	40X211	34	Order from Mfr.			BE103-7	23	RS213					6		456		
62-327	Vol.	101-60	124	TM236-SS1	M26		BE103-6	23	RS213					11	*6K7, 6J7, 6H6, 6F5, 6C5, 6F6, 6G5, 5Y3G	465		
62-328	Tone	101-61	21	SRP284	8		103-13	25	ST595					7	1A6, 1A4, *30, *34, 19	465	9-3	
62-329	Vol.	36X244	71	UM120-SS18	M26		103-13	25	3N528					9	*6K7, 6J7, 6H6, 6F5, 6C5, 6F6, 6G5, 5Y3G	456	9-36	
62-330	Vol.	36X236	75	TM228-SS1	M26		45X237	1/15	3N528					7	1A6, 1A4, *30, *34, 19	465	9-3	
62-331	Tone	40X224	34	MR53			45X242	1/15	Order from Mfr.					11	*34, 32, 6N5, *30	456	9-36	
62-332	Vol.	36X252	17	UM165-SS25	M26		44X11	25	WE1830					7	*6K7, 6A8, 85, 43, 6A6	456		
62-333	Tone	40X229	41	MK400			11X30	25	RS216					7	6A8G, 6U7G, 6H6, 6K6G, 6F5G	456	9-37	
62-334	Vol.	101-126	18	MK402	M26		45X222	19	BB15					6	1B5, 1C6, *30, 34	456	8-31,35	
62-335	Vol.	101-104	18	MR53			45X223	13	BB31					7	*34, 1C6, *30, 19	456	8-36,38	
62-336	Tone	101-105	21	MR44	M26		45X241	12/15	2N514					7	1A6, 1A4, *30, *34, 19	465	9-3	
62-337	Vol.	36X244	71	UM120-SS18	M26		103-14	4	RS213					7	6K8G, 6K7, 6Q7G, 6P5G, 6AC5G, 5Y3G, 6U5	465	10-7,8	
62-338	Vol.	36X218	18	O	14		103-14	4	RS216					7	6A8, 6K7, 6Q7, 6J5, *6F6, 5Y3	465	10-10	
62-339	Vol.	36X222	45	O	7		45X237	1/15	3N528					4	*6J7, 25L6G, 25Z6G, L55B	456	9-32	
62-340	Tone	40X215	44	UC502			45X242	1/15	Order from Mfr.					6	1B5, 1C6, *30, 34	456	8-31,35	
62-341	Vol.	101-50	62	M	7		P45X212	12	BB31					7	*34, 1C6, *30, 19	456	8-36,38	
62-342	Tone	101-51	21	M			4-18-18	1/13	RM259		P19A27	Order from Mfr.		7	1A6, 1A4, *30, *34, 19	465	9-3	
62-343	Vol.	101-60	124	TM236-SS1	M26		20	1	RS207					9	*6K7, 6J7, 6H6, 6F5, 6C5, 6F6, 6G5, 5Y3G	465		
62-344	Tone	101-61	21	SRP284	8		BE103-11	12	RS203					7	1A6, 1A4, *30, *34, 19	465	9-3	
62-345	Vol.	36X220	15	TM247-SS1	M24		103-13	25	RS213					9	*6K7, 6J7, 6H6, 6F5, 6C5, 6F6, 6G5, 5Y3G	465		
62-346	Tone	40X211	44	Order from Mfr.			103-12	25	RS213					11	*34, 32, 6N5, *30	456	9-36	
62-347	Vol.	36X213	18	N	6		45X214	13	TN120			Order from Mfr.		11	*34, 32, 6N5, *30	456	9-36	
62-348	Tone	40X209	44	Z12			45X226	23	2P549					7	*6K7, 6A8, 85, 43, 6A6	456		
62-349	Vol.	36X248	15	MR53	M26		45X228	1	Order from Mfr.					7	*6K7, 6A8, 85, 43, 6A6	456		
62-350	Vol.	36X218	18	O	14		.01		Buffer					7	*6K7, 6A8, 85, 43, 6A6	456		
62-351	Vol.	36X222	45	O	7		BE103-11	12	RS203					7	*6K7, 6A8, 85, 43, 6A6	456		
62-352	Tone	40X215	44	UC502			BE103-11	12	RS203					7	*6K7, 6A8, 85, 43, 6A6	456		
62-353	Vol.	101-50	62	M	7		BE103-11	12	RS203					7	*6K7, 6A8, 85, 43, 6A6	456		
62-354	Tone	101-51	21	M			BE103-11	12	RS203					7	*6K7, 6A8, 85, 43, 6A6	456		
62-355	Vol.	101-80	18	MR53	M27		119-40	1	2N516			126-4	246	C3	5	6D8G, 6S7G, 6T7G, 1F5G, 6N5	465	9-39
62-356	Vol.	101-77	18	MR53	M26		.005		Buffer					5	6A8G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3G	465	9-39	
62-357	Vol.	36X235	18	N	6		119-38	23	SR633					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	11-17,18	
62-358	Tone	40X223	34	UC502			44X31	23	RS215					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	11-17,18	

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued Note: The prefix "62-" or "62-350, 62-351, 62-352" indicates Radio Division in Montgomery-Ward Catalog.																		
62-350, 62-351, 62-352	Vol.	101-106	18	UM161-SS18	M26			119-47C	23	2S560					5	6A8G, 6K7, 6Q7G, 6K6G, 5W4 or 5Y3G	465	9-41
62-353	Vol.	101-126	18	MK402	M26			119-63B	4	2S568					7	6K8G, 6K7, 6Q7G, 6I5G, 6AC5G, 5Y3G, 6U5	465	
62-356	Vol. Tone	101-81 101-82	18 22	MR48 MR39	M27			119-41 .005	1	2N516 Buffer	B14	126-4	246	C3	6	6D8G or 6A8G, 6S7G, 6I7G, 6L5G, 1J6G, 6N5	465	
62-357	Vol. Tone	36X235 40X223	18 34	N	6			12 30	23 23	RS215 WE3050					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	9-15
62-358	Vol. Tone	36X235 40X223	18 34	N UC502	6			44X37 44X38	23 23	WE2050 WE4030					8	6J7, 6K7, 6J5, 6I16, 6G5, 6F5, 6F6, 5Y3G	456	
62-360 62-361 Issue A and Issue B	Vol. Tone	P90942 101-118 101-119	97 18 18	TRP600 MK402 MK402	M26			6, 8 119-48 119-48	25 4 4	RS213 2S567 2S567					6 6 6	6A8G, 6K7, 6Q7G, 6K6G, 6U5, 5Y3G, 6A8G, 6K7, 6Q7G, 6K6G, 5Y3G, 6U5	465	9-42
62-362	Vol. Tone	101-118 101-119	18 21	MK402	M26			119-48	4	2S567					6	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G, 6U5	465	9-45
62-363	Vol. Tone	36X249 40X231	17 22	UM165-SS25 UM144-SS25	M26			45X243 45X239 .015	1/15 15	3S578 BB12 Buffer	B14		246	C3	6	6D8G, 6S7G, 6I7G, 6A85, 6G6G	456	9-48
62-364	Vol.	36X246	17	UM163	M26		A96	45X235 45X240 45X239 .008	1 13 15	2N518 BB40 BB12 Buffer	B14	952W	C3	6	6U7G, 6J7G, 6B8G, 6K6G, 6N7G	175	10-11	
62-367	Vol. Tone	36X235 40X223	18 22	N UC502	6			44X31 44X35	23 23	RS215 WE4030					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	9-15
62-368	Vol. Tone	36X235 40X223	18 34	N UC502	6			44X37 44X38	23 23	WE2050 WE4030					8	6J7, 6K7, 6J5, 6I16, 6G5, 6F5, 6F6, 5Y3G	456	
62-369	Vol. Tone	36X232 20A19	56 22	Order from Mfr.	Mfr.			45X219 .0055	1/15 23	3S579 Buffer	B14	19A30	248	C3	6	6K7, 6J7, 6B8G, 6K6G, 6N7G	175	10-12
62-370	Vol. Tone	36X249 40X229	127 34	UM165-SS25 MK400	M26			44X37 44X38	23 23	WE2050 WE4030					7	6A8G, 6U7G, 6J5G, 6U5, 6Q7G, 6K6G, 5Y3G	456	10-13,14
62-372	Vol. Tone	36X235 40X223	18 34	N UC502	6			44X31 44X35	23 23	RS215 WE4030					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	9-49
62-373, 62-374	Vol. Tone	36X239 40X226	45 44	MR53 MR39	M26			45X225 45X234 45X233 .02	13 1 1	2N516 2N514 11C1210A Buffer	B14	246	C3	7	1C7G, 1D5G, 1H4G, 1E5G	456		
62-376	Vol. Tone	101-81 101-82	18 22	MR48 MR39	M27			119-41 .005	1	2N516 Buffer	B14	126-4	246	C3	6	6A8G/6D8G, 6S7G, 6I7G, 6L5G, 1J6G, 6N5	465	11-14
62-377	Vol. Tone	36X239 40X226	45 44	MR53 MR39	M24			45X225	13	2N516					7	1C7G, 1D5G, 1H4G, 1E5G	456	9-51
62-380	Vol.	101-71	18	MR53	M26			119-38	4	SR633					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	465	10-16
62-385	Vol. Fil.	101-78 101-79	56 29	MR44 C6R	M26			119-22	19	BB12					5	1D7G, 1D5G, 1F7G, 1G5G	465	9-26
62-386	Vol.	101-79	18	MR53	M26			5-5	23	2S567					6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G, 6G5	465	10-17
62-387	Vol. Tone	36X239 40X223	45 44	MR53 MR39	M24			45X225	13	2N502					7	1C7G, 1D5G, 1H4G, 1E5G	456	9-51
62-390	Vol. Tone	101-122 101-123	45 22	MK401 MK100	M26			119-60 119-61	1/19 13	2N519/BB17 BB42					9	6K7, 6K8, 6J5G, 6U5, 6Q7G, 6K6G, 5Y3G	465	9-53
62-401	Vol. Tone	36X245 40X228	20 34	TM247-SS25 MK402				44X30 44X36 45X238	25 25 19	RS216 WE4030 BB17					11	6U7G, 6J7G, 6I16, 6J5G, 6F6G, 5Y3G, 6U5	456	9-55
62-402	Vol. Tone	36X251 40X230	45 95	UM163-SS22 UM161-SS22	M26		A100	44X39 44X40 45X239	4 4 15	WE2050 WE4030 BB12					11	6D6, 6C6, 6F6, 6U5, 6I1, 80	465	9-56
62-403	Vol. Tone	36X253 40X232	20 21	TM250-SS25 Order from Mfr.	Mfr.			44X21 44X36 44X244 45X239	25 25 19 15	WE3050 WE4030 BB19 BB12				13	6U7G, 6I7G, 6I16, 6J5G, 6F8G, 6U5, 6F6G, 5U4G	456	9-59,60	
62-404	Vol. Fil.	36X237 43X70	18 27	MR53 C6R	M27			4 119-22	12 19	BB20 BB12					4	1D7G, 1D5G, 1H6G, 1E5G	456	9-25
62-405	Vol. Fil.	101-78 101-79	56 29	MR44 C6R	M26			119-22	19	BB12					5	1D7G, 1D5G, 1F7G, 1G5G	465	9-26
62-406	Vol.	101-83	18	MR53	M26			119-38	23	SR633					6	6A8G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3G	465	
62-407	Vol. Tone	101-46 101-53	18 22	O K12	6			P103-6 P103-7	23 23	RS213 RS213					7	6I7, 6C5, 6K7, 6Q7, 6F6, 5W4, 6G5	465	9-27,28
62-408	Vol. Tone	36X215 40X211	17 34	TRP612 Order from Mfr.	6T			44X10 44X11 44X209	23 23 15	RS216 RS216 BB12					8	6K7, 6C5, 6Q7, 6F6, 5Z4, 6G5	456	8-6,7

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS								CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
MONTGOMERY WARD & CO.—Continued	Vol.	101-60	45	TM236-SS1	M26			103-12	25	RS213					8	6K7, 6J7, 6H6, 6F5, 6C5, 6F6, 5Y3G.	465		
Note: The prefix "62-409"	Tone	101-61	21	SRP284	8			103-13	25	ST595					10	*30, 32, *31	456	8-22,25	
62-410	Vol.	36X220	64	TM247-SS1	M24			4	12	BB31					11	*6K7, *6C5, 6G5, *6F6, 5Z1MG	456	9-5,8	
62-411	Tone	40X211	44	Order from Mfr.				44X10	25	RS216					13	*6K7, *6C5, 6G5, 6H6, *6L6, *5Z4	456	8-27	
62-413	Vol.	36X219	62	TM247-SS1	M26			44X11	25	RS216					5	1D7G, 1D5G, 1F7G, 1G5G	465	9-26	
62-414	Tone	40X213	65	Order from Mfr.				44X213	13/15	2N504					5	6A7, 78, 75, 41, 80	465	9-29	
62-415	Vol.	36X221	20	TM250-SS1	M26			P44X21	30	WE3050					6	6L7, 6C5, 6K7G, 6Q7G, 6F6G, 5Y3G	465	9-30,31	
62-416	Tone	40X214	65	Order from Mfr.				P44X11	30	RS216					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456		
62-417	Vol.	101-78	56	MR44	M26			P45X216	13	BB41					8	*6K7, 6C5, 6Q7, 6F6, 5Z4, 6G5	456	8-5,7	
62-418	Fil.	101-79	29	C6R				P45X209	19	BB12					9	*6K7, 6J7, 6H6, 6F5, 6C5, 6F6, 6G5, 5Y3G	465		
62-419	Vol.	101-49	18	O	6			119-22	19	BB12					7	6A8G, *6U7G, 6V7G, 25A6G, 6J5G, 6N7G	456	9-33	
62-422	Vol.	101-46	18	O	6			BE103-6	23	RS213					5	6A7, 78, 75, 41, 5Z4	465	9-57	
62-425	Tone	40X223	34	UC502				BE103-7	23	RS213					6	*34, 1C6, *30, 19	456	8-31,35	
62-426	Vol.	36X215	17	TRP612	6T			BE103-6	23	RS213					7	1A6, 1A4, *30, *34, 19	465	9-3	
62-427	Tone	40X211	34	Order from Mfr.				BE103-7	23	RS213					7	*6K7, 6A8, 85, 43, 6A6	456		
62-428	Vol.	101-50	62	M	7			44X31	23	RS215					13	*6K7, 6J7, 6H6, *6C5, 6G5, *6L6, *5Y3G	456		
62-432 (32 volt DC)	Tone	40X223	34	UC502				44X35	23	WE4030					5	1C7G, 1D5G, 1F7G, 1G5G	465	9-58	
62-433	Vol.	36X238	20	TM250-SS1	M26			44X10	23	RS216					6	1B5, 1C6, *30, 34	456	8-31,35	
62-434, 62-435	Tone	40X225	41	P				44X11	23	RS216					7	*34, 1C6, *30, 19	456	8-37,38	
62-436	Vol.	101-54	18	O	6			44X209	15	BB12					5	1C7G, 1D5G, 1F7G, 1G5G	465	9-58	
62-437	Fil.	101-51	21	M				103-13	25	RS213					6	1B5, 1C6, *30, 34	456	8-31,35	
62-441	Vol.	101-111	56	MK400	M27			103-12	25	RS213					7	*34, 1C6, *30, 19	456	8-37,38	
62-442	Tone	40X215	44	UC502				103-12	25	RS213					11	*34, 32, 6N5, *30	456	9-36	
62-443	Vol.	101-51	21	M				119-24	23	SR633					7	6A8G, *6U7G, 6V7G, 6C5G, 25A6G, 6N7G	456	9-23	
62-444	Tone	40X209	44	Z12				4-18-18	1/13	RM259					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	9-63	
62-445	Vol.	101-77	18	MR53	M26			20	1	RS207					6	6D8G or 6A8G, *6S7G, 6T7G, 6L5G, 1J6G, 6N5	465		
62-446	Tone	40X215	44	UC502				.01		Buffer		B14			7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456		
62-447	Vol.	101-81	18	MR48	M27			BE103-11	12	RS203					8	6J7, 6K7, 6J5, 6H6, 6G5, 6F5, 6F6, 5Y3G	456		
62-448	Tone	40X235	34	UC502				119-38	22	SR633					9	*6K7, 6J7, 6C5, 6H6, 6G5, 6F5, 6F6, 5Y3G	456		
62-449	Vol.	101-82	22	MR39				119-41	1	2N516			246	C3	6	6D8G or 6A8G, *6S7G, 6T7G, 6L5G, 1J6G, 6N5	465		
62-451	Tone	40X223	34	UC502				.005		Buffer		B14			7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456		
62-452	Vol.	36X235	18	N	6			44X31	23	RS215					8	6J7, 6K7, 6J5, 6H6, 6G5, 6F5, 6F6, 5Y3G	456		
62-453	Tone	40X223	34	UC502				44X35	23	WE4030					9	*6K7, 6J7, 6C5, 6H6, 6G5, 6F5, 6F6, 5Y3G	456		
62-454	Vol.	101-112	29	M4R				44X37	23	WE2050					11	*6K7, *6J7, 6H6, *6C5, 6G5, *6F6, 5Y3G	456		
62-455	Tone	40X235	34	UC502				44X38	23	WE4030					7	6A8G, *6U7G, 6V7G, 6C5G, 25A6G, 6N7G	456	9-23	
62-457	Vol.	101-163	18	MK402	M27			30-12	12/15	2N512					4	1D7G, 1D5G-P, 1F7G, 1G5G	465		
62-458	Tone	40X224	34	MR53	M26			119-35	19	BB15					4	1A7G, 1N5G, 1H5G, 1C5G	465		
62-459	Vol.	101-77	18	MR53	M26			119-38	23	SR633					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	9-63	
62-460	Tone	40X223	34	L	6			44X31	23	RS215					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	9-15	
62-461	Vol.	101-155	18	MK402	M27			44X35	23	WE4030					7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	9-15	
62-462	Fil.	101-156	29	M4R															
62-463	Vol.	101-163	18	MK402	M27														
62-464	Tone	40X223	34	L	6														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued	ARD & CO.—Continued	CO.—Continued	ued	Radio Division	on in	Montgomery-Ward Catalog												
Note: The prefix "62-458"	2- or for	m of "62-" in	icates	N	6													
62-458	Vol. Tone	36X235 40X223	18 34	UC502		44X37 44X38	23 23	WE2050 WE4030							8	6J7, 6K7, 6J5, 6H6, 6G5, 6F5, 6F6, 5Y3G	456	
62-459 Ser. A	Vol.	101-107	18	UM154-SS18	M26	119-58 119-57	24 24/15	BB26 2N506			126-8	246	C3	4	6D18, 6S7, 6T7, 6K6	465	10-21	
62-463	Vol. Tone	36X249 40X231	17 34	UM165-SS25 MR42	M26	.003 45X243 45X239	1/15 15	Buffer 3S578 BB12	B14		19A28	246	C3	6	6D8G, 6S7G, 6T7G, 6A85, 6G6G	456	9-48	
62-465	Vol.	101-80	18	MR53	M27	.015 119-40	1	Buffer 2N516	B14		126-4	246	C3	5	6D8G, 6S7G, 6T7G, 1F5G, 6N5	465	9-64	
62-466	Vol. Tone	101-81 101-82	18 22	MR48 MR39	M27	.005 119-41	1	Buffer 2N516	B14			246	C3	6	6D8G or 6A8G, 6S7G, 6T7G, 6L5G, 1J6G, 6N5	465		
62-467	Vol. Tone	36X235 40X223	18 34	N L	6	44X31 44X35	23 23	RS215 WE1030						7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	9-15	
62-470	Vol. Tone	36X249 40X229	17 34	UM165-SS25 MK400	M26	44X37 44X38	23 23	WE2050 WE4030						7	6A8G, 6U7G, 6J5G, 6U5, 6Q7G, 6K6G, 5Y3G	456		
62-471, 62-472	Vol. Tone	36X243 40X227	18 34	MR48 MR39	M26	44X37 44X38	23 23	WE2050 WE4030						7	6A8G, 6U7G, 6Q7G, 6K6G, 6J5G, 6U5, 5Y3G	456		
62-473	Vol. Tone	101-137 101-136	18 22	MK402 MK400	M26	119-69	23	2S569						7	6K8G, 6K7, 6Q7G, 6P5G, 6U5, 6AC5G, 5Y3G	465	9-65,66	
62-475	Vol.	101-77	18	MR53	M26	119-38	23	SR633						5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	9-63	
62-476	Vol.	101-77	18	MR53	M26	119-38	23	SR633						6	6A8G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3G	465	9-68	
62-477	Vol. Tone	36X239 40X226	45 44	MR53 MR39	M24	45X225	13	2N502						7	1C7G, 1D5G, 1H4G, 1E5G	456	9-51	
62-479	Vol. Tone	36X249 40X229	17 34	UM165-SS25 MK400	M26	44X37 44X38	23 23	WE2050 WE4030						7	6A8G, 6U7G, 6Q7G, 6J5G, 6K6G, 6U5, 5Y3G	456	9-69	
62-487	Vol. Tone	36X239 40X226	45 44	MR53 MR39	M26	45X225	13	2N502						7	1C7G, 1D5G, 1H4G, 1E5G	456	9-51	
62-490	Vol. Tone	101-122 101-123	45 22	MK401 MK400	M26	119-60 119-61	1/19 13	2S563/BB17 BB42						9	6K7, 6K8, 6J5G, 6U5, 6Q7G, 6K6G, 5Y3G	465	9-53	
62-495	Vol. Fil.	101-78 101-79	56 29	MR44 C6H	M26	119-22	19	BB12						5	1D7G, 1D5G, 1F7G, 1G5G	465	9-26	
62-497	Vol. Tone	36X235 40X223	18 34	MR48 L	M26	44X31 44X35	23 23	RS215 WE4030						7	6J7, 6K7, 6Q7, 6F6, 6C5, 6G5, 5Y3G	456	9-15	
62-500	Vol. Tone	101-95 101-96	18 21	MR53 MR53	M26	119-38	4	SR633						7	6L7G, 6K7, 6Q7G, 6K6G, 6J5G, 6G5, 5Y3G	465	9-71	
62-501, 502 (Ser. A Above 286700 up)	Vol.	101-138	8	UM129-SS25	M26	B11970	1/15	FP1306						4	6A8, 6J7, 25L6G, 25Z6G, 62A	465	10-22	
62-504A	Vol.	101-164	18	MK402	M26	119-82	24	TN127	B8					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	465	10-23	
62-505A	Vol.	101-164	18	MK402	M26	119-82	24	TN127	B8					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	465		
62-506	Vol. Fil.	101-88 101-89	18 29	MR53 MR48	M24	119-44	12	BB31						6	1C7G, 1D5G, 1H6G, 1H4G	465	9-62	
62-516	Vol. Fil.	101-88 101-89	18 29	MR53 MR48	M24	119-44	12	BB31						6	1C7G, 1D5G, 1H6G, 1H4G	465	9-62	
62-520	Vol.	101-110	45	MK402	M27	119-35	19	BB15						5	1A7G, 1N5G, 1H5G, 1A5G	465		
62-550	Vol. Fil.	101-79 101-79	29 29	C6H C6H		8, 8 119-35	25 19	RS213 BB15	B3					4	24, 71A, 80	465		
62-551	Vol.	101-140 101-140	45 18	MK402 MK402	M27	119-35	19	BB15						5	1D7G, 1D5G, 1H4G, 1G5G	465		
62-552	Vol.	101-126	45	MK402	M26	119-59C	24	2N512			126-8	246	C3	5	6D8G, 6S7G, 6L5G, 6T7G, 6G6G	465	10-27	
62-553	Vol.	101-150	18	MK402	M26	.003 119-79	22/15	Buffer 3S578	B14			294	C3	5	6D8G, 6K7, 6T7G, 6G6G, 6ZYSG	465	10-28	
62-554	Vol.	101-150	18	UM154	M26	.008 30-20-20	24/15	Buffer See Note	B3			953W	C3	5	6SK7, 6SQ7, 6SA7, 41	456	10-29	
62-555	Vol.	36X258	18	MR48	M27	.008 45X250	12	Buffer BB31	B14					5	1A7G, 1N5G, 1H5G, 1C5G	456	10-31	
62-557	Vol.	36X258	18	MR48	M27	45X250	12	BB31						5	1A7G, 1N5G, 1H5G, 1C5G	456	10-31	
62-558	Vol.	101-160	18	MK400	M27	119-52	19	BB15						5	1A7G, 1N5G, 1H5G, 1C5G	465	10-32	
62-601	Vol.	101-158	18	MK402	M26	119-47	23	2S567						6	6A8G, 6K7, 6Q7G, 6K6G, 5W4, 6U5	465	10-33	
62-606	Vol.	101-77	18	MR53	M26	119-38	23	SR633						6	6A8G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3G	465	9-68	
62-607	Vol. Tone	36X239 40X226	45 44	MR53 MR39	M26	8-4	13	2N502						7	1C7G, 1D5G, 1H4G, 1E5G	456	9-51	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & Note: The prefix "6.2-" or for 62-616	Vol.	CO.—Continued in "62-" in 101-77	18	Radio Division in MR53	on in M26	Montgomery-	Ward Catalog 119-38	23	SR633					6	6A8G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3G, 1C7G, 1D5G, 1H4G, 1E5G	465	9-68	
62-617	Vol. Tone	36X239	45	MR53	M24		8-4	13	2N502					7	6A8G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3G	456	9-51	
62-636, 646	Vol.	40X223	44	UC502	M26		5-5	23	2S567					5	6A8G, 6K7G, 6Q7G, 6F6G, 6G5, 5Y3G	165	10-17	
62-650	Vol. Tone	36X249 40X231	17 22	MR57 MR12	M26		45X243 45X239	1/15 15	3S578 BB12			246	C3	6	6D8G, 6S7G, 6T7G, 6AB5, 6C6G	456	9-48	
62-651, 62-652	Vol. Tone	101-153 101-154	18 22	MK402 Order from Mfr.	M27		.015 119-59C .003	24	Buffer 2N512 Buffer	B14	B14	126-8	246	C3	6	6K8G, 6K7, 6T7G, 6G6G, 6AE6G, 6AF6G	165	10-35
62-653	Vol.	UM154	15	UM154		See Note	40-20-20 .008	24/15	See Note Buffer	B3 B14		218	C3	6	6SK7, 6H6, 6V6G, 6SA7	156	10-37	
62-654, 62-655	Vol. Fil. Tone	101-152 101-112 101-151	45 29 22	MK400 MFR Order from Mfr.	M27		119-52	19	BB15					6	1C7G, 1D5G-P, 1H4G, 1G5G	465	10-38	
62-656	Vol. Tone	101-152 101-151	45 22	MK400 Order from Mfr.	M27		119-52	19	BB15					6	1A7G, 1N5G, 1G4G, 1G5G, 1H5G	465	10-39	
62-700	Vol. Tone	36X249 40X229	127 34	UM165-SS25 MK400	M26		44X37 44X38	23 23	WE2050 WE4030					7	6A8G, 6U7G, 6J5G, 6U5, 6Q7G, 6K6G, 5Y3G	456		
62-701	Vol. Tone	101-137 101-136	18 22	MK402 MK400	M26		119-69	23	2S569					7	6K8G, 6K7, 6Q7G, 6P5G, 6U5, 6AC5G, 5Y3G	465	9-65,66	
62-702, 62-703	Vol. Tone	101-137 101-136	18 22	MK402 MK400	M26		119-69	23	2S569					7	6K8G, 6K7, 6Q7G, 6P5G, 6AC5G, 6U5, 5Y3G	165	10-41,42	
62-704, 62-705, 62-706, 62-707, 62-708, 62-709, 62-710, 62-711, 62-712	Vol. Tone	36X256 40X238	76 76	MR48 MR57	M26		44X42 44X41	23 23	WE4030 WE2050					7	6A7, 6D6, 75, 76, 6U5, 41, 80	456	10-43	
62-713	Vol. Tone	101-166 101-167	18 22	MK402 MK402			119-84	1/13	P1T374					7	6SA7, 6SK7, 6S07, 6P5G, 6AC5G, 5Y3G, 6AD6G	165		
62-722	Vol. Tone	101-181 101-176	18 22	MK402 MK402			119-84	1/13	P1T374					7	6SA7, 6SK7, 6S07, 6P5G, 6AC5G, 6AD6G, 5Y3G	165		
62-750, 62-751	Vol. Tone	101-153 101-154	18 22	MK402 Order from Mfr.	M27		119-79B .008	22/15	3S578 Buffer	B14		850	C3	7	6K8G, 6K7, 6T7G, 6G6G, 6AE6G, 6AF6G, 6ZY5G	465		
62-752, 62-753	Vol. Tone	36X252 40X229	17 41	UM165-SS25 MK400	M26		45X241	12/15	2N514					7	6A8G, 6U7G, 6V7G, 6J5G, 25A6G, 6N7G	456	10-45	
62-900	Vol. Tone	101-122 101-123	45 22	MK401 MK400	M26		119-60 119-61	1/19 13	2N519/BB17 BB42					9	6K7, 6K8, 6J5G, 6U5, 6Q7G, 6K6G, 5Y3G	465	9-53	
62-901	Vol. Tone	36X255 40X235	17 22	TM247-SS25 UM165-SS25	M26		44X41 44X42 45X247 45X239	23 23 13 15	WE2050 WE4030 BB40 BB12					9	6A7, 6D6, 76, 75, 6U5, 41, 80	456	10-17	
62-905	Vol. Tone	36X255 40X235	17 22	TM247-SS25 UM165-SS25	M26		44X41 44X42 45X247 45X239	23 23 13 15	WE2050 WE4030 BB40 BB12					9	6A7, 6D6, 75, 76, 6U5, 41, 80	456	10-50	
62-1040	Vol. Tone		8	G			1-1-1	3	CM175					8	24A, 22, 45, 80	4		
62-1100	Vol. Tone	36X245 40X228	41 20 34	N TM247-SS25 MK402			44X30 44X36 45X238	25 25 19	RS216 WE4030 BB17					11	6U7G, 6J7G, 6H6, 6J5G, 6P6G, 5Y3G, 6U5	456	9-55	
62-1101	Vol. Tone	36X251 40X230	45 95	UM163-SS22 UM161-SS22	M26		44X39 44X40 45X239	4 4 15	WE2050 WE4030 BB12					11	6D6, 6C6, 76, 6U5, 41, 80	465	9-56	
62-1455	Vol.	101-163	18	MK402	M27		119-35	19	BB15					4	1A7G, 1N5G, 1H5G, 1C5G	465		
62-1550	Vol. Fil.	101-140 101-79	18 29	MK402 C6R	M27		119-35	19	BB15					5	1D7G, 1D5G, 1H4G, 1G5G	465		
62-1551	Vol.	101-140	18	MK402	M27		119-35	19	BB15					5	1A7G, 1N5G, 1H5G, 1A5G	165		
62-1558	Vol.	101-160	18	MK400	M27		119-52	19	BB15					5	1A7G, 1N5G, 1H5G, 1C5G	465		
62-1654, 62-1655	Vol. Tone	101-152 101-151	45 22	MK400 Order from Mfr.	M27		119-52	19	BB15					6	1C7G, 1D5G-P, 1H4G, 1G5G	465		
62-1656	Vol. Fil. Tone	101-112 101-152	29 45	MFR MK400	M27		119-52	19	BB15					6	1A7G, 1N5G, 1G4G, 1G5G, 1H5G	165		
62-1838	Vol. Tone	101-151 101-151	22 15	Order from Mfr. O.	M27		8-8	1	2N518					8	27, 35, 47, 80	262	2-14	
	Vol. Tone	UC502	34	UC502			8	14	BB31					8				

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued	Vol. 2. or for	101-110	18	Radio Division in Montgomery-Ward Catalog	M27			119-35	19	BB15					5	1D7G, 1D5G, 1H4G, 1G5G	465	
62-2550	Fil.	101-79	29	MK 402	M27										5	1A7G, 1N5G, 1H5G, 1A5G	465	
62-2551	Vol.	101-140	18	MK 402	M27			119-35	19	BB15					5	1A7G, 1N5G, 1H5G, 1C5G	456	
62-2555	Vol.	36X258	18	MR48	M27			45X250	12	BB31					5	1A7G, 1N5G, 1H5G, 1C5G	456	
62-2557	Vol.	36X258	18	MR48	M27			45X250	12	BB31					5	1A7G, 1N5G, 1H5G, 1C5G	456	
62-2558	Vol.	101-160	18	MK 400	M27			119-52	19	BB15					5	1A7G, 1N5G, 1H5G, 1C5G	465	
62-2654, 62-2655	Vol. Tone	101-152	15	MK 400	M27			119-52	19	BB15					6	1C7G, 1D5G-P, 1H4G, 1G5G	465	
	Fil.	101-151	22	Order from Mfr.	M27													
	Vol.	101-112	29	M4R	M27													
62-2656	Vol. Tone	101-152	45	MK 400	M27			119-52	19	BB15					6	1A7G, 1N5G, 1G4G, 1G5G, 1H5G	465	
	Fil.	101-151	22	Order from Mfr.	M27													
04BR-389T	Vol. Tone	101-208	18	MK 402	M26			119-103	1/15	FPT342	B3				5	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G	465	12-1,2
	Fil.	101-237	22	UM144-SS25	M26													
04BR-397A	Vol. Tone	101-208	18	MK 402	M26			119-101	46	FPT357					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	
	Fil.	101-194	34	MK 400	M26													
04BR-511A, 04BR-512A	Vol.	101-220	18	MK 401	M26			BE119-92	24	FPT354	B8				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	12-5,6
04BR-513A, 04BR-514A	Vol.	101-198	18	UM161-SS22	M26			BE119-92	24	FPT354	B8				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	12-7,8
04BR-515A	Vol.	101-217	18	MK 401	M26			BE119-94	46	FPT357					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	465	12-9,10
04BR-515B	Vol.	101-217	18	MK 401	M26			BE119-94	46	FPT357					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	465	
04BR-566A	Vol.	101-210	18	UM161-SS22	M27			BE119-104	24/78	FPT304					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	465	
04BR-567A	Vol.	101-110	18	MK 402	M26			BE119-105	24/15	FPT339	B14	1267	294	C24	5	6SA7, 6SK7, 6SQ7, 6K6G, 6X5G	465	12-11,12
04BR-570A	Vol.	101-225	18	MK 402	M26			BE119-111	46/15	FPT416	B14	12626	850	C3	5	6D8G, 6ST7, 6T7G, 6G6G, 6Z5G	455	
04BR-609A	Vol. Tone	101-195	18	MK 402	M26			BE119-94	46	FPT357	B14				6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	465	10-19,20
	Fil.	101-194	34	MK 100	M26													
04BR-615A	Vol. Tone	101-142	18	MK 402	M26			119-114	1/13 15	FPT424					6	6SA7, 6SK7, 6SJ7, 6SQ7, 6V6GT, 5Y3G	455	12-25,26
	Fil.	101-143	22	MK 400	M26			119-67	13	BB64								
04BR-620A	Vol. Tone	101-232	18	MK 402	M26			119-115	1	2S569					6	6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G	455	
	Fil.	101-231	22	MK 402	M26													
04BR-675A, 04BR-676A	Vol. Tone	101-227	18	MK 402	M26			BE119-111	46/15	FPT416	B14	12626	850	C3	6	6SA7, 6SK7, 6T7G, 6G6G, 6Z5G	455	12-36
	Fil.	101-228	22	MK 403	M26			BE119-88	24/15	FPT426	B168	1269	248	C3	6	6K7GT, 6A8GT, 6SK7, 6SQ7, 6J5GT, 6N7G	465	12-37,38
04BR-678C	Vol. Tone	101-161	76	Order from Mfr.	M26			BE119-88	24/15	FPT426	B168	1269	248	C3	6	6K7GT, 6A8GT, 6SK7, 6SQ7, 6J5GT, 6N7G	465	12-37,38
	Fil.	101-162	76	UM163-SS18	M26			0055		Buffer	B14							
04BR-679A	Vol.	101-41	18	UM151-SS17	M26			BE119-65C	74	2S569	B14		294	C24	6	6K7, 6A8G/6A8GT, 6SQ7, 6V6GT, 6X5G/6X5GT	455	12-40
04BR-729A, 04BR-730A	Vol. Tone	101-224	18	TM233-SS25				BE119-108	1	2S569					7	6SA7, 6SK7, 6SQ7, 6J5GT, 6K6GT, 5Y3G	455	12-41,42
	Fil.	101-223	22	MK 402														
04BR-903A	Vol. Tone	101-221	18	500M		A19		BE119-109	1/13	FPT339					9	6SK7, 6SA7, 6SQ7, 6J5GT, 6F6G, 6U5, 5Y3G	455	12-47,48
	Fil.	101-226	22	MK 402														
04BR-904A	Vol. Tone	101-221	18	500M		A19		119-109	1/13	FPT339					9	6SK7, 6SA7, 6SQ7, 6J5GT, 6F6G, 6U5, 5Y3G	455	
	Fil.	101-226	22	MK 402														
04BR-906A	Vol. Tone	101-221	18	500M		A19		119-109	1/13	FPT339					9	6SK7, 6SA7, 6SQ7, 6J5GT, 6F6G, 6U5, 5Y3G	455	
	Fil.	101-226	22	MK 402														
04BR-907A	Vol. Tone	101-221	18	500M		A19		119-109	1/13	FPT339					9	6SK7, 6SA7, 6SQ7, 6J5GT, 6F6G, 6U5, 5Y3G	455	
	Fil.	101-226	22	MK 402														
04BR-1105A	Vol.	101-229	124	MK 401				BE119-112	1/13	FPT383					11	6SK7, 6SA7, 6SQ7, 6J5GT, 6V6GT, 6U5, 5Y3G	455	12-51
	Fil.	101-229	124	MK 401				BE119-69	13	BB64								
04BR-1106A	Vol.	101-229	124	MK 401				BE119-112	16	FPT383					11	6SK7, 6SA7, 6SQ7, 6J6GT, 6V6GT, 6U5, 5Y3G	455	
	Fil.	101-229	124	MK 401				BE119-69	13	BB14								
04WG-464	Vol.		18	MK 401	M27			4	12	BB20					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	156	12-3
04WG-468	Vol.		18	MK 401	M27			4	12	BB20					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	156	12-4
04WG-568	Vol. Tone		18	UM154	M26		A96	30-20	24	2N511					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT	456	12-14,15
	Fil.		21	UM165	M26		A96	40-40	24	2N515					5	1A7GT, 1N5GT, 1H5GT, 1A5GT	456	
04WG-569	Vol.		18	UM154	M26		A96	200	78	11C25025					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	456	12-15,16

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
MONTGOMERY WARD & CO. -- Continued	Radio Division in Montgomery-Ward Catalog																	
Note: The prefix "62" or for m of "62-" in dicates																		
04WG-610	Vol.		18	UM154			A96	20-20-20	22/15	3N534				6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	456	12-17,18	
04WG-611	Tone		22	UM163			A96	20	13	1H125								
04WG-612	Vol.		18	UM154			A96	20-20-20-20	22/13/15	2-2N509				6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	12-18,22	
04WG-619	Tone		21	UM163			A96											
04WG-621	Vol.		18	UM154			A96	20-40	4	See Note	B3			6	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	456	12-27	
04WG-621N1	Tone		21	UM165			A96	20-40	4	See Note	B3			6	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	456	12-27	
04WG-622A, 04WG-623A	Vol.		18	UM154			A96	20-40	4	See Note	B3			6	6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G	456	12-29,30	
04WG-663	Tone		21	UM165			A96	8	13	1H121				6	1A7GT, 1H5GT, 1N5GT, 3Q5GT, 35Z5GT	456	11-1	
04WG-668	Vol.		18	UM154			A96	40-20-10	46	TN129	B117			6	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	11-1	
04WG-672	Vol.		18	UM154			A96	40-20-10	46	TN129	B117			6	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	12-31,32	
04WG-673, 04WG-674	Vol.		18	MK401				40-20-10	46	TN129				6	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 35Z5GT	456	12-33,34	
	Tone		22	UM165-SS25				40-200	18	F1T304	B117							
04WG-725	Vol.		18	UM154	M26		A96	40-20-20	24/15	F1T346	B117			7	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	456	11-2	
04WG-728	Tone		21	UM165			A96	40-20-20	24/15	F1T346	B117			7	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	456	12-43,44	
04WG-731	Vol.		18	500M	M26		A19	40-20-20	24/15	F1T346	B117			7	12SA7, 12SK7, 6L5G, 12SQ7, 35L6GT, 35Z5GT	456	12-30,49	
04WG-732	Tone		21	UM165			A96	80-40-20-20	46/15	Order from Mfr.				7	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	456	12-43,44	
04WG-803, 04WG-803B	Vol.		18	500M			A19	40-20-20	24/15	F1T346	B117			8	6SA7, 6SK7, 6SQ7, 6K6GT, 6AD6G, 5Y3G	456	12-45,46	
	Tone		21	UM165			A96	40-20-20	24/15	F1T346	B117			8	6SK7, 6SA7, 6SQ7, 6K6GT, 6X5GT	455		
14BR-681A	Vol.	101-246	18	UM154-SS17	M26			119-120	46	F1T381		1267	294	C24	6	6SK7, 6SA7, 6SQ7, 6K6GT, 6X5GT	455	
14BR-682A	Vol.	101-242	18	UM154-SS17	M26			119-75	15	BB12					6	6SK7, 6SA7, 6SQ7, 6J5GT, 6N7	455	
93BR-335A	Tone	101-245	21	Order from Mfr.				119-118	24/15	F1T339	B14	12627	748	C3	6	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G	465	11-20
93BR-391A	Vol.	101-184	18	MK402	M26			BE119-103	1/15	F1T346					5	6SK7, 6K8, 6K7, 6SQ7, 6V6G, 6U5, 5Y3G	465	11-21,39
93BR-392A	Tone	101-206	57	UM144-SS25				BE119-100	1/15	F1T383					7	6SK7, 6K8, 6K7, 6SQ7, 25N6G, 6U5, 25Z6G	465	11-22
93BR-393A	Vol.	101-184	18	MK402				BE119-91	19	BB17					8	(AC) 6S7G, 6K8, 6T7G, 6SC7, 6L5G, 6AB5, 5Y3G	465	11-23,24
	Tone	101-207	57	MK402				BE119-81	13	BB64					7	(Batt.) 6S7G, 6K8, 6T7G, 6SC7, 6L5G, 6AB5	465	11-23,24
93BR420A, B, 93BR421A, B, 93BR-423B, 93BR-424B, 93BR-431B	Vol.	101-188	18	MK401	M26			BE119-98	1/19	F1Q426	B168				4	12SA7, 12SK7, 12SQ7, 70L7GT	465	11-25,26
93BR-454A	Vol.	101-163	18	MK402	M27			BE119-103	1/15	F1T346					4	1A7G, 1N5G, 1H5G, 1C5G	465	
93BR-460A	Vol.	101-175	18	MR53	M27			BE119-100	1/15	F1T383					4	1A7G, 1P5G, 1H5G, 1C5G	465	
93BR-461A	Vol.	101-173	18	MK402	M27			BE119-91	19	BB17					4	1A7G, 1N5G, 1H5G, 1A5G	465	11-27,28
93BR-462A	Vol.	101-204	18	MR53				BE119-98	1/19	F1Q426	B168			4	1A7GT, 1N5GT, 1H5GT, 1A5GT	465		
93BR-508A, 93BR-509A	Vol.	101-170	18	MK402	M26			BE119-64	13	2S569					5	12SA7, 12SK7, 12Q7GT, 35L6GT, 35Z5GT	465	10-53,54
93BR-560A	Vol.	101-166	18	MK402				119-87	24	TN127	B8				5	1A7G, 1N5G, 1H5G, 1Q5G	465	10-55,56
93BR-561A	Tone	101-169	22	MK402	M27			119-86	12	BB31					5	1A7G, 1N5G, 1H5G, 1Q5G	465	
	Vol.	101-184	18	MK402				BE119-86	12	BB21					5	1A7G, 1N5G, 1H5G, 1Q5G	465	
	Tone	101-179	22	MK400	M27													

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO.—Continued																		
Note: The prefix "62" or for		CO.—Continued	used	Radio Division	on in	Montgomery-Ward Catalog												
93BR-563A	Vol. Tone	101-181	18	MK 102		BE119-86	12	BB21						5	1A7G, 1N5G, 1H5G, 1Q5G	455		
	Vol. Tone	101-179	22	MK 100	M27	119-79	22/15	3S578 Buffer	B14		126-6	850	C3	5	6D8G, 6K7, 6T7G, 6G6G, 6Y5G	465	10-58	
93BR-564A	Vol. Tone	101-150	18	MK 102	M26	119-85	24/15	FPT319 Buffer	B14		12616	246A	C3	5	6D8G, 6SK7, 6T7G, 6G6G, 5Y3G	465		
93BR-657A	Vol. Tone	101-166	18	MK 102		BE119-85	24/15	FPT319 Buffer	B14		12616	246	C3	7	6D8G, 6SK7, 6T7G, 6G6G, 6AE6G, 6AD6G, 5Y3G	465	11-30	
93BR-658A	Vol. Tone	101-171	57	MK 401	M26T	BE119-85	24/15	FPT319 Buffer	B14		12616	246	C3	7	6D8G, 6SK7, 6T7G, 6G6G, 6AE6G, 6AD6G, 5Y3G	465	11-31	
93BR-659A	Vol. Tone	101-181	18	MK 400	M27	BE119-86	12	BB21						6	1P5, 1A7, 1N5, 1H5, 1Q5	465	11-31	
93BR-660A	Vol. Tone	101-179	22	MK 400	M27	BE119-86	12	BB21						6	1P5, 1A7, 1N5, 1H5, 1Q5	465		
93BR-666A	Vol. Tone	101-184	18	MK 402	M26T	BE119-85	24/15	FPT319 Buffer	B14		12616	246	C3	7	6D8G, 6SK7, 6T7G, 6G6G, 6AE6G, 6AD6G, 5Y3G	465		
93BR-713A	Vol. Tone	101-166	18	MK 402		119-84	1/13	FPT390						7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 5Y3G, 6AD6G	456	10-60	
93BR-714A	Vol. Tone	101-167	22	MK 402		BE119-84	1/13	FPT390						7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 6AD6G, 5Y3G	465		
93BR-714B	Vol. Tone	101-183	22	MK 402		BE119-84	1/13	FPT390						7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 6AD6G, 5Y3G	465		
93BR-715	Vol. Tone	101-185	18	MK 402		BE119-84	1/13	FPT390						7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 6AD6G, 5Y3G	465	11-19	
93BR-716A	Vol. Tone	101-176	22	MK 402		BE119-84	1/13	FPT390						7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 6AD6G, 5Y3G	465	11-33	
93BR-716A	Vol. Tone	101-183	22	MK 402		BE119-84	1/13	FPT390						7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 6AD6G, 5Y3G	465		
93BR-717A	Vol. Tone	101-184	127	MK 402		BE119-84	1/13	FPT390						7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 6AD6G, 5Y3G	465		
93BR-717A	Vol. Tone	101-176	22	MK 402		BE119-84	1/13	FPT390						7	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 6AD6G, 5Y3G	465		
93BR-719A	Vol. Tone	101-202	18	UM161	M26	A96	BE119-101	46	FPT357					7	12A8GT, 12SK7, 12Q7GT, 35L6GT, 35Z4GT	465	11-35	
93BR-720A	Vol. Tone	101-195	18	MK 402	M26		BE119-101	46	FPT357					7	6A8G, 6SK7, 6SQ7, 35L6GT, 35Z4GT	465	11-36	
93BR-1201A	Vol. Tone	101-181	18	Order from SRR285	Mfr. 8	A104	BE103-10	25	WE3050					12	6SK7, 6K8, 6SQ7, 6J5G, 6F6G, 5U4G, 6AD6G	465		
93BR-1455A	Vol. Tone	101-182	1				BE119-89	14/15	BB62 BB15					4	1A7G, 1N5G, 1H5G, 1C5G	465		
93BR-1455A	Vol. Tone	101-163	18	MK 402	M27		119-35	19	BB17					4	1A7G, 1N5G, 1H5G, 1C5G	465		
93BR-1460A	Vol. Tone	101-175	18	MR53	M27		119-75	19	BB12					4	1A7G, 1P5G, 1H5G, 1C5G	465		
93WG-382	Vol. Tone	124	2 Meg.	UM165		A19	20	23	WE2050					8	6SK7, 6SA7, 6SQ7, 6V6G, 5Y3G, 6AD6G	456	11-41	
93WG-382	Vol. Tone	95				A96	40	23	WE4050					8	6SK7, 6SA7, 6SQ7, 6V6G, 5Y3G, 6AD6G	456	11-41	
93WG-510	Vol. Tone	18		UM154		A96	20-20-20	22/15	3N534					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	11-43	
93WG-510	Vol. Tone	21		UM163		A96	20-20	24	FPT217 Buffer	B3	19A36	246	C3	5	6D8G, 6A1B5, 6STG, 6T7G, 6F6G	456	10-37	
93WG-562	Vol. Tone	18		UM154		A96	20-20	12	BB20	B14				5	1A7G, 1N5G, 1H5G, 1Q5G	456	11-44	
93WG-562	Vol. Tone	18		UM154		A96	20-20	12	BB20	B14				5	1A7G, 1N5G, 1H5G, 1Q5G	456	11-44	
93WG-565A	Vol. Tone	18		UM154		A96	20-20-20	1/15	3N534					6	12SA7, 12SK7, 12SQ7, 6A1B5, 35L6GT, 35Z5GT	456	10-59	
93WG-602, 93WG-603	Vol. Tone	18		UM154		A96	20-20-20	22/15	3N534					6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT, 6AB7	456	12-53,54	
93WG-602, 93WG-603	Vol. Tone	18		UM154		A96	20-20-20	22/15	3N534					6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT, 6AB7	456	12-53,54	
93WG-604, 93WG-605	Vol. Tone	18		UM154		A96	20-20-20	22/15	3N534					6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT, 6AB7	456	12-53,54	
93WG-754, 93WG-755	Vol. Tone	17		UM165		A96	30-20	1/15	2N514					7	6SA7, 6SK7, 6V7G, 25A6G, 6J5G, 6N7G	456	11-45	
93WG-754, 93WG-755	Vol. Tone	94		UM144		A96	30-20	1/15	2N514					7	6SA7, 6SK7, 6V7G, 25A6G, 6J5G, 6N7G	456	11-45	
93WG-800, 93WG-801, 93WG-802 (with and without loop)	Vol. Tone	124	2 Meg.	UM165		A19	20	23	WE2050					8	6SK7, 6SA7, 6SQ7, 6F6G, 5Y3G, 6AD6G	456	11-46	
93WG-800, 93WG-801, 93WG-802 (with and without loop)	Vol. Tone	95				A96	40	23	WE4050					8	6SK7, 6SA7, 6SQ7, 6F6G, 5Y3G, 6AD6G	456	11-46	
93WG-805	Vol. Tone	124	2 Meg.	UM165		A19	20	23	WE2050					8	6SK7, 6SA7, 6SQ7, 6F6G, 5Y3G, 6AD6G	456	11-49	
93WG-805	Vol. Tone	95				A96	40	23	WE4050					8	6SK7, 6SA7, 6SQ7, 6F6G, 5Y3G, 6AD6G	456	11-49	
93WG-1000, 93WE-1001	Vol. Tone	20	2 Meg.	UM165		A19	14	23	RS216					10	6SK7, 6SA7, 6SQ7, 6P5G, 6V6G, 5Y3G, 6AD6G	456	11-51	
93WG-1000, 93WE-1001	Vol. Tone	95				A96	40	23	WE4050					10	6SK7, 6SA7, 6SQ7, 6P5G, 6V6G, 5Y3G, 6AD6G	456	11-51	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
MONTGOMERY WARD & CO. Note: The prefix "62-" or for "62-" in indicates 93WG-1103, 93WG-1104.....	Vol. Tone	CO.—Continued	15	Radio Division	in	Montgomery-Ward Catalog.	20	23	WE2050					11	6D6, 6C6, 476, 441, 6U5, 80.	456	11-53	
93WG-2208.....	Vol.		18	UM154			10	15	BB12					5	2N5GT, 1A7GT, 1H5GT, 1Q5GT	456	11-54	
MOTOROLA —See Galvin.																		
NASH AC4289.....	Vol.	63-1040	20	Order from Mfr.			22-917	24/15	FPT339			246	C3	6	6K7GT, 6SA7GT, 6Q7GT, 6V6GT	‡		
AC4389.....	Vol.	63-1040	18	Order from Mfr.			22-904	24/19	FPT332	B14		850	C3	6	6K7GT, 6SA7GT, 6Q7GT, 6K6GT, 6X5GT	‡		
AC6001.....	Vol. & Tone	63-1129	140				22-917	24/15	FPT339			190-15		7	7A7, 7B8, 7B6, 7C5, 6X5GT, 0Z4	455		
AC6011.....	Vol.	63-1128	18	250M		A19	22-901	24/15	FPT332	B14		190-15		6	7A7, 7B8, 7B6, 7B5, 0Z4/6X5GT	455		
NATIONAL CARBON 1, 2, 3..... 31, 32, 33, 34..... 42, 43, 44..... 52, 53, 54 (Three Types).....	Vol. Vol. Vol. Vol.	veready) 2364 2364	13 8 8	SRP179 A550P A550P			2-4 4-2-1-1 4-2-1-1	1 3/14 3/14	See Note See Note See Note	B1 B1 B1				8	26, 27, 271A, 80. 27, 271A, 80. 27, 245, 80.		1-1 1-2 1-3	
	Vol. Vol.	2917	13/12 13 7	DRP117 DRP242	Type Type	1, 2 3	‡	3/15	See Note	B1				8	24, 227, 245, 80.		1-4	
THE NATIONAL CO. AC-SW 3.....	Vol. Regen.		7	D										3	258, 27			
AC-SW 58.....	Vol. Regen.		40	K12										5	258, 56, 245		8-2	
AC "Thrill Box".....	Vol.		12	K12										5	24A, 327		1-2	
AGS with GRDPU (Power Supply).....	Vol.		7	A550P			8-8-8	3	See Note	B3				11	336, 37, 89, 280		3-1	
AGSX.....	Vol.		7	A550P			8-8-8	3	See Note	B3				11	77, 378, 37, 336, 89, 280			
Auto-Box.....	Vol.		12	K12										5	24, 242A		1-1, 2	
DC-SW-3.....	Vol.		7	D										3	336, 37			
DC-SW-34 (Batt.).....	Vol. Regen.		12	K12	7									5	334, 30, 331		8-2	
DC-SW-34 (Batt.).....	Vol. Regen.		40	D12										5	334, 30, 331		8-2	
FBX & FBXA.....	Vol.		7	G			5	13	CS133					7	24, 57, 56, 358, 59	500	8-2	
HRO.....	Vol. Sep.		17	N			10	15	BB12					9	6D6, 6C6, 6B7, 42, or 458, 357, 2B7, 2A5	456	8-1	
MB-29.....	Vol.		12	G12			8-8-8	3	MN275					9	24, 227, 245, 80		1-2	
MB-30.....	Vol.		12	K12										5	24A, 27		1-2	
NC44, NC44A.....	Vol.		17	MR48	M26		10-40	1	TN129	B8				7	6K8, 6L7, 6SQ7, 251A, 6J7, 2525	456		
NC44B.....	RF Guin. Vol.		7	MR20	M26		25, 25	15	BB15					6	6K8, 6L7, 6SQ7, 6V6G, 6J7	456		
NC44B.....	RF Guin. Vol.		7	MR20	M26		25, 25	15	BB15					6	6K8, 6L7, 6SQ7, 6V6G, 6J7	456		
NC100.....	Vol. Tone Sep.		4	Y50MP			8, 8, 8	3	RS213					12	6K7, 6J7, 6C5, 6E5, 6F6, 80.	456	8-3, 4	
NC100.....	Vol. Tone Sep.		4	Y50MP			10	15	BB12					12	6K7, 6J7, 6C5, 6E5, 6F6, 80.	456	8-3, 4	
Screen Grid SW (71).....	Vol.		12	G										4	24A, 27, 71A		1-1	
NATIONAL TRANS Midget 6.....	Vol. Tone	FORMER CO.	6	H12			8-8	1	See Note	B3				6	27, 45, 80		3-1	
Screen Grid 8.....	Vol. Tone		22	F12			8-8-8	3	See Note	B3				8	24, 227, 245, 80		3-1	
NOBLITT-SPARKS 5.....	(Arvin) Vol.		17-13392	UM162		See Note A96	17-13419	23	2S567			17-14747	850	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5GT	455	9-1, 2
6.....	Vol.		17-13420	MR53	M26		17-13419	23	2S567	B14		17-14747	850	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5GT	455	9-4
7.....	Vol.		17-4152-3	UM154-SS3	M26		17-1787	15	RM262	B14		17-4732	294	C3	5	6F7, 6A7, 6B7, 41, 84	170	6-1, 3
7A (Cb. RE44).....	Vol.		17-14536	UM157-SS12			17-1786	15	BB12					5	6F7, 6A7, 6B7, 41, 84			
7A (Cb. RE44).....	Vol.		17-14536	UM157-SS12			.02-.02	24/15	FPT332	B14		17-14747	294	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5GT	455	10-1
7A (Cb. RE44).....	Vol.		17-14536	UM157-SS12			.005	24	2S568	B3		17-14747	294	C3	6	6A8, 6K7, 6Q7G, 6P5G, 6AC5G, 6X5GT	455	10-4
7A (Cb. RE44).....	Vol.		17-14536	UM157-SS12			17-15286	24	2S568	B3		17-14747	294	C3	6	6A8, 6K7, 6Q7G, 6P5G, 6AC5G, 6X5GT	455	10-4
7A (Cb. RE44).....	Vol.		17-14536	UM157-SS12			.005	24	2S568	B14		17-14747	294	C3	6	6A8, 6K7, 6Q7G, 6P5G, 6AC5G, 6X5GT	455	10-4
9A.....	Vol.		17-14536	UM157-SS12			17-14132	23	RM265			17-14747	850	C3	6	7B, 6A7, 75, 41, 84	170	8-9, 9-9
10A (Two Types).....	Vol.		15	SRP251	6		8-16	1	2N519					5	6A7, 6B7, 78, 41, 84	175	4-1, 5-1	
							12-12-1	4	TN111/TP443	B14				5	6A7, 6B7, 78, 41, 84			
							.02-.02	4	Buffer	B14				5	6A7, 6B7, 78, 41, 84			

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
NOBLITT-SPARKS 15.....	Continued Vol.	17-4152	15	SRP251	6			17-4184	1	RM265		296	C13	5	78, 6A7, 6B7, 41, 84	175	5-3,6	
16.....	Vol.	17-4152-1	17	SRP251	6			17-2082	15	BB12		292	C14	6	61D6, 6A7, 75, 41, 84	175	5-19	
17.....	Vol.	17-4152-3	17	UM154-SS3	M26			17-4201	1	2N519	B14	29-2169C	292	C3	6	78, 6A7, 75, 41, 84	175	6-7,8
18.....	Vol.	17-14536	17	UM157-SS12				17-2082	15	BB12				C3	6	75, 78, 6A7, 41, 84	170	7-1,2
19.....	Vol.	17-14536	17	UM157-SS12				17-4703	15	RM265	B14	17-4732	294	C3	6	78, 6A7, 75, 41, 84	175	8-1,2
20A (Two Types)...	Vol.		15	SRP251		See Note A4		17-4707	1	TN111								
20B.....	Vol.		17	SRP251	‡	See Note A27		17-4707	15	Buffer	B14							
22A.....	Vol.	17-14536	18	UM157-SS12				17-4707	1	RM265	B14	17-14747	850	C3	6	78, 6A7, 75, 41, 84	170	8-1,2
25.....	Vol.	17-4152	17	SRP251	6			17-14614	1	RM265								
27.....	Vol.	17-4152-3	17	UM154-SS3	M26			17-14606	15	TN111								
28.....	Vol. Tone	17-14536	17	UM157-SS12				17-14614	1	RM265	B14							
29.....	Vol. Tone	17-14536	17	UM157-SS12				17-14606	15	TN111								
30A (Three Types) ..	Vol.		111	SRP251	6	See Note A27		17-14614	1	RM265	B14	17-14747	850	C3	6	78, 6A7, 75, 41, 84	170	8-1,2
32.....	Vol. Tone	17-14536	17	SRP251	6	See Note A1		17-14606	15	TN111								
33.....	Vol. Tone	17-14536	15	UM157-SS12				17-14606	15	TN111								
35 (Two Types).....	Vol.	17-4152	15	SRP251	6			17-14606	15	TN111								
37.....	Vol.	17-4152-3	15	UM154-SS3	M26			17-14606	15	TN111								
38.....	Vol. Tone	17-14536	17	UM157-SS12				17-14606	15	TN111								
39.....	Vol. Tone	17-14536	15	UM157-SS12				17-14606	15	TN111								
40, 40A (RE49).....	Vol.	17-14320	8	MR20	M26	EX2M		17-14606	15	TN111								
41.....	Vol.	17-13906	6	UC501	6			17-14606	15	TN111								
42.....	Vol. Tone	17-14536	17	UM157-SS12				17-14606	15	TN111								
44C (Ch. RE46).....	Vol. Tone	17-14505	34	UM143-SS12				17-14606	15	TN111								
45 (Two Types).....	Vol.	17-4152	17	SRP251	6			17-14606	15	TN111								
51.....	Vol.	17-13308	17	MR48	M26	A58		17-14606	15	TN111								
51B.....	Vol.	17-13308	17	MR48	M26	A58		17-14606	15	TN111								
58, 58A.....	Vol.	17-15926A	18	MR48	M26			17-14606	15	TN111								
61, 62.....	Vol. Tone	17-13030	17	N.....				17-14606	15	TN111								
		17-13101	34	L.....	6			17-14606	15	TN111								

‡ Data not substantiated.

* IMPORTANT: Reac. Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	Use	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
		Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
NOBLITT-SPARKS 61B, 62B	Continued Vol.	17-13030	17	N				17-4703 17-4707 .005	1 15	RM265 TN111 Buffer					5	*78, 6A7, 6B7, 41	175	7-11,12	
61M, 62M	Vol. Tone	17-13030 17-13101	17 34	N L	6			17-14002 17-14003 17-14004 17-14004	1 1 15	RS216 WE3050 BB12	B14			7	*6K7, 6A8, 6116, 6F5, 6F6, 5Z4	156	6-20, 7-9		
68	Vol.	17-15926A	18	MR48	M26			17-14233	1/19	FPT332				5	6A8, 6K7, 6Q7G, 5Y3G, 6K6G	455	9-13		
71 (Ch. RE43)	Vol.	17-15926A	18	MR48	M26			17-14271	1	2S568				5	6A8, 6K7, 6Q7G, 6K6G, 5Y3G	155	11-1		
78	Vol. Tone	17-16097 17-16098	18 22	MR48 MR39	M26			17-14233	1/19	FPT332				5	6K8, 6K7, 6Q7G, 6K6G, 5Y3G	455	9-15		
81	Vol. Tone	17-13030 17-13101	15 44	N L	6	See Note A3		17-14002 17-14003 17-14000 17-14004 17-14002 17-14093 17-14000 17-14004	3 3 3 15 3 3 3 15	RS216 WE3050 RS215 BB12 RS216 WE3050 RS215 BB12			8	*61D6, 6A7, 6B7, 76, *6B5, 80	456	6-21, 7-9			
81M	Vol. Tone	17-13030 17-13101	15 44	N L	6			17-14002 17-14003 17-14000 17-14004 17-14002 17-14093 17-14000 17-14004	3 3 3 15 3 3 3 15	RS216 WE3050 RS215 BB12 RS216 WE3050 RS215 BB12			9	*6K7, 6A8, 6C5, 6116, *6B5, 5Z4	456	6-22, 7-9			
88	Vol.	17-15926A	18	MR48	M26			17-14239	1	FPD208				5	6A8, 6K7, 6Q7G, 25L6G, 25Z6G, M49B	155	9-11		
89, 91 (Ch. RE27)	Vol. Tone	17-16008 17-16009	18 34	MR48 L	6			17-14249	1/19	3S579				6	6A8, 6K7, 6Q7G, 6V6G, 6U5, 5Y3G	455	10-7		
Chassis RE91	Vol.	17-17117	18	UM163				17-14390	1/15	3N532				4	12SA7, 12SQ7, 50L6GT, 35Z4GT/ 35Z5GT		12-1		
92 (Ch. RE31)	Vol. Tone	17-13795 17-13796	17 44	TM227-SS1 L				17-14001 17-14126 17-14124 17-13260	1 1 14 15	RS213 RS216 RS213 BB11/BB17				8	6K8, *6K7, 6Q7G, *6V6G, 6U5, 5Y3G	455	10-8		
402, 402A (Ch. RE55)	Vol.	17-14320	8	MR20	M26	EX2M		17-14319	1/15	FPT354				3	25B8GT, 50L6GT, 35Z5GT		11-3		
417, 467, 502, 502A (Ch. RE48)	Vol.	17-15759	6	MR18	M26			17-14069	1/15	3S579				4	6A7, 6F7, 41, 80	456	7-17,18		
508	Vol.	17-14315	18	UM154	M26		A96	17-14326	1 15	3N532				5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	455	11-4		
510	Vol.	17-14158	7	II	6			17-14160	23	2P544				4	61D6, 6C6, 25B6G, 25Z5, BK55B		8-7,8		
510 (Ch. RE54)	Vol.	17-16422	18	MR53	M26			17-14297	24/15	FPT332 Buffer	B14	17-14747	850	C3	5 6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	455 456	11-5 7-19,20		
517, 527	Vol.	17-15758	17	MR48	M26			17-14002 17-14000 17-4707	1 1 15	RS216 RS215 TN111				5	6A7, 78, 75, 42, 80	455 456	11-5 7-19,20		
517B, 527B	Vol.	17-15758	17	MR48	M26			17-14082 17-14005 .01	1 15	2S563 BB12 Buffer	B14	17-15831	245	C3	5 6A7, 15, 75, 76, 19	456	7-21,22		
518, 518A, 518DW	Vol.	17-13654	6	Y10MP	6			17-14001 17-14111	25 25	RS213 WE850				5	6A7, 78, 76, 41, 80	455	8-10,13		
518B	Vol. Tone	17-15599 17-15600	18 22	UM161 UM137	M26	See Note A96		17-14203 17-14202	25 25	RS213 RS207		17-15589	245	C3	5 6D8G, 6S7G, 6T7G, *1F5G	456 456	8-11 7-19		
527	Vol.	17-15758	17	MR48	M26			17-14002 17-14000 17-4707	1 1 15	RS216 SR644 TN111				5	6A7, 78, 75, 42, 80	455 456	11-5 7-19,20		
527B	Vol.	17-15758	17	MR48	M28			17-14082 17-14005 .01	1 15	2N519 BB12 Buffer	B14	17-15831	245	C3	5 6A7, 15, 75, 76, 19	456	7-21		
568, 568A, 568DW	Vol.	17-13654	6	Y10MP	6			17-14001 17-14111	1 1	RS213 WE850				5	6A7, 78, 76, 41, 80	455	8-10,13		
578B	Vol.	17-13869	56	N	7			17-14005B	19	BB12				4	1C7G, 1D5G, 1H16G, 1G5G	456	8-10		
602, 602A (Ch. RE53)	Vol. Tone	17-14333 17-14334	18 39	MR53 MR39	M26			17-14319	1/15	FPT354				6	12A8GT, *12K7GT, 12SQ7, 35L6GT, 35Z5GT	455	11-7		
608	Vol.	17-13817	18	MR48	M26			17-14153 17-14154	23 23	RS216 RS207				5	6A7, 6D6, 6Q7G, 25B6G, 25Z5, BK49D	456	8-14, 9-17		
610 (Ch. RE58)	Vol.	17-16422	18	MR53	M26			17-14297	24/15	FPT332 Buffer	B14	17-14747	850	C3	5 6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	455	11-5		
617, 627	Vol. Tone	17-15601 17-15604	17 34	MR48 L				17-14003 17-14002 17-14001 17-14075 17-14082 17-14081 17-14075	1 1 13 15 1 13 15	WE3050 RS216 RS213 BB12 2N519 RS203 BB12 Buffer			6	*6K7G, 6A8G, 6Q7G, 6F6G, 5Y3	456	7-23,24			
617B, 627B	Vol. Tone	17-15601 17-15604	17 44	MR48 L				17-14003 17-14002 17-14001 17-14075 17-14082 17-14081 17-14075	1 1 13 15 1 13 15	WE3050 RS216 RS213 BB12 2N519 RS203 BB12 Buffer			6	*15, 6A7, 75, 76, 19	456	7-25,26			

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
NOBLITT-SPARKS 618, 618A	Continued Vol. Tone	17-13655 17-13687	17 22	MR53 L				17-14001 17-14111 17-14130 17-14005	23 23 23 19	RS213 WE850 RM262 BB12					6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G, 6E5.	455	8-10,16
618B 622, 622A (Ch. RE78)	Vol.	17-13754	62	MR48	M27			17-14005	19	BB12	B10				6	1C6, 7A4, 30, 950.	456	8-17,18
627	Vol. Tone	17-16876 17-15601 17-15604	18 17 34	1 Meg. MR48 L		A3		17-14376 17-14003 17-14002 17-14001 17-1075 17-1082 17-14081 17-14075	1 1 13 15 1 13 15	2N507 WE3050 RS216 RS213 BB15 2N519 RS203 BB15		17-15831	245	C3	6	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT, 6K7G, 6A8G, 6Q7G, 6F6G, 5Y3.	455	12-1
627B	Vol. Tone	17-15601 17-15604	17 14	MR48 L				17-14075 .01 17-14001 17-14111 17-14130 17-14005 17-14376	15 1 23 23 23 19 1	BB15 Buffer RS213 WE850 RM262 BB12 2N507	B14				6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G, 6E5.	455	8-10,16
628, 628CS	Vol. Tone	17-13655 17-13687	17 22	MR53 L	6			17-14111 17-14130 17-14005 17-14376	23 23 23 19	RS213 WE850 RM262 BB12	B10				6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G, 6E5.	455	8-10,16
628B 632 (Ch. RE79)	Vol. Vol.	17-13754 17-16899	17 18	MR48 1 Meg.	M27		A3	17-14005 17-14376	19 1	BB12 2N507	B10				6	1C6, 7A4, 30, 950.	456	8-17,18
638, 638CS	Vol. Tone	17-13655 17-13887	17 22	MR53 L	6			17-14001 17-14111 17-14130 17-14005	23 23 23 19	RS213 WE850 RM262 BB12	B10				6	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT, 6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G, 6E5.	455	12-1
702	Vol. Tone	17-16521 17-16520	18 34	UM161 UM140	M26		A96	17-14344	1/15	FPT306	B10				6	12K7GT, 12A8GT, 12SQ7, 35L6GT, 35Z5GT	455	11-8
710 (Ch. RE59)	Vol.	17-14536	18	UM157-SS12				17-14297	24/19	FPT332	B14	17-14747	850	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	455	11-9
720 (Ch. RE86)	Vol.	17-14536	18	UM157-SS12				17-14297	24/15	FPT332	B14	17-14747	850	C3	6	6SK7, 6SA7, 6SQ7, 6K6GT, 6X5GT	455	
722, 722A (Ch. RE80)	Vol. Tone	17-16950 17-16951	18 22	MR44 MR39	M26			17-6918	1	TN129					6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-3
732	Vol. Tone	17-16950 17-16951	18 22	MR44 MR39	M26			17-6918	1	TN129					6	12SK7, 12SA7, 35L6GT, 12SQ7, 35Z5GT	455	12-3
802 (Ch. RE57)	Vol.	17-14350	18	MR53	M26			17-14353	24/13	FPT304					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455	11-11
803 (Ch. RE63)	Vol.	17-14350	18	MR53	M26			17-14353	24/13	FPT304					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455	11-12
810 (Ch. RE60)	Vol. Tone	17-14536 17-14505	18 34	UM157-SS12 UM143-SS12			A68	17-14299	24/15	FPT332	B14	17-14747	850	C3	6	6SK7, 6A8, 6Q7G, 6V6G, 6X5G	170	11-9
818	Vol. Tone	17-13712 17-13713	20 22	TM227-SS1 L	6			17-14001 17-14126 17-14124 17-14123 17-14196	1 1 14 15 24/15	RS213 RS216 RS213 BB17 FPT328					6	6A8G, 6K7G, 6H6G, 6F5G, 6V6G, 5Y3G, 6E5.	455	8-19,20
820, 821	Vol.	17-17056	18	250M			A3	17-14396	24/15	FPT328	B14	17-14747	850	C3	6	6SK7, 6SA7, 6SQ7, 6U6GT, 6X5GT/ 6X5	455	12-4,6
822 (Ch. RE82)	Vol.	17-14350	18	MR53	M26			17-14353	24/13	FPT304					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455	12-5
828	Vol. Tone	17-13712 17-13713	20 22	TM227-SS1 L	6			17-14001 17-14126 17-14124 17-14123 17-14001 17-14126 17-14124 17-14123	1 1 14 15 1 1 14 15	RS213 RS216 RS213 BB17 RS213 RS216 RS213 BB17					8	6A8G, 6K7G, 6H6G, 6E5, 6F5G, 6V6G, 5Y3G	455	8-19,20
828A, 828CS	Vol. Tone	17-13712 17-13713	20 22	TM227-SS1 L	6			17-14001 17-14126 17-14124 17-14123	1 1 14 15	RS213 RS216 RS213 BB17					8	6A8G, 6K7G, 6H6G, 6F5G, 6V6G, 6E5, 5Y3G	455	8-19
828AT, 838AT	Vol. Tone	17-13712 17-13713	17 22	TM227-SS1 L	6			17-14001 17-14124 17-14126 17-14123	1 14 1 15	RS213 RS213 RS216 BB17					8	6A8G, 6K7G, 6H6G, 6F5G, 6V6G, 6E5, 5Y3G	455	10-9
848CS	Vol. Tone	17-13712 17-14984	15 22	TM227-SS1 L				17-14195 17-14123	1/14 15	2N519/BB62 BB17					8	6A8G, 6K7G, 6H6G, 6F5G, 6V6G, 6E5, 5Y3G	455	8-21
927	Vol. Tone	17-15688 17-15601	17 14	TRP606 L				17-14003 17-14002 17-14000 17-14075	3 3 3 15	WE3050 RS216 RS215 BB12					9	6K7G, 6A8G, 6R7G, 6C5G, 6N6G, 5Y3, 6G5.	456	7-27,28
1127	Vol. Tone Supp.	17-15688 17-15707 17-15706	17 21 7	TRP606 MR48 L				17-14003 17-14001 17-14000 17-14086 17-14087 17-14075	3 3 3 14 14 15	WE3050 RS213 RS215 RS207 RS207 BB12					11	6K7G, 6A8G, 6C5G, 6N6G, 5Z3, 6E5, 6R7G	456	7-29,32

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS					VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
NORLIT-SPARKS 1237, 1247, 1247A	Continued Vol. Tone	17-13795	17	TM227-SS1				17-14002	25	RS216					12	6K7G, 6A8G, 6Q7G, 6J7G, 6116G, 6E5, 6V6G, 5U4G	455/ 100	8-21-24	
		17-13796	44	L				17-14138	25	RS216									
		17-13795	18	TM227-SS1				17-14005	20	BB12									
1237D	Vol. Tone	17-13795	18	TM227-SS1				17-14002	54	RS216				12	6K7G, 6A8G, 6Q7G, 6J7G, 6116G, 6A85, 6V6G, 5U4G	455/100	9-21-24		
		17-13796	44	L				17-14005	54	BB12									
1427, 1427D	Vol. Tone	17-13795	18	TM227-SS1				17-14002	54	RS216				14	6K7G, 6A8G, 6J7G, 6116G, 6A85, 6C5G, 6L6G, 5U4G	455/100	10-11-14		
		17-13796	44	L				17-14005	54	BB12									
OLDSMOBILE 4036	Vol. Tone	1207607	17	UC512	7			1207830	1	CS133		1207758	221	C3	7	36, 39, 85, 389, 84	262		
		1207798	44	N				.015		Buffer	B14								
393884	Vol.	1209078	15	UM154-SS3				1209047	1/15	SR622		5037400	273C		4	6F7, 6A7, 6B7, 42	262		
		1209078	45	UM154-SS3				1209144	1/15	8S718		5037400	273C						
393885	Vol. Tone	1209078	44	N				1209144	1/15	8S718		5037400	273C		6	78, 6A7, 6F7, 85, 341	262		
		1207798	44	N				1209144	1/15	8S718		5037400	273C						
405045	Vol. Tone	1209364	127	Order from	Mfr.			1209144	1/15	8S718		5037400	273C		6	78, 6A7, 6F7, 85, 341	262		
405046	Vol.	1207798	44	N				1209047	1/15	SR622		5037400	273C		4	6F7, 6A7, 6B7, 42	262		
405057, 405062 (Early and Late)	Vol. Tone	1209368	15	UM157-SS3				1209588	1	CM172		5039661	273C		5	6F7, 6A7, 6B7, 341	172		
405063	Vol.	1209540	15	UM162-SS12				1209531	1/15	CM172/BB15		5039661	273C		4	6F7, 6A7, 6B7, 42	262	8-31	
		1209539	128	MR48				1207830	1	CS133		1207758	221	C3					
980393	Vol. Tone	1207607	17	UC512	7			.015		Buffer	B14			7	36, 39, 85, 389, 84	262			
		1207798	44	N				1207995	1/15	CM172/TN111		5035120	222						
980455	Vol.	1208157	17	UC512	6			1207995	1/15	CM172/TN111		5035120	222		5	78, 6F7, 75, 41	262		
980459	Vol. Tone	1208157	18	UC512	6			1208241	1	CM172			222		6	78, 6F7, 85, 341	262		
982006	Vol. Tone	1210519	17	UM157-SS12				1210514	1/15	SR622		5040700	273C		6	6D6, 75, 76, 42	262		
		1210518	22	MR45				1210515	1/15	CM172/TN111		5040700	273C						
982007, 982008	Vol.	1210518	17	UM162-SS12				1210515	1/15	CM172/TN111		5040700	273C		7	6D6, 85, 376, 6E6	262		
982043	Vol.	7230117	20	TM239-SS3				7230264	1	SR638		5050673	852	C3	6	6K7G, 6A8G, 6Q7G, 6N6G, 6X5G	262	9-1	
		1210545	20	TM224-SS12				.005		Buffer	B14								
982044	Vol.	1210545	20	TM224-SS12				121580	1/15	3S579		5050673	852	C3	6	6U7G, 6A8G, 6Q7G, 6F6G, 6X5G	262	9-5,6	
982045	Vol.	1210545	17	TM224-SS12				8-8	1	2N518		5050673	852	C3	8	6U7G, 6J5G, 6V7G, 6N7G, 6X5G	262	9-7,8	
		1212440	17	TM232-SS3				5-5	15	TN111		5050673	852	C3					
982083	Vol.	1212440	17	TM232-SS3				8-8	1	2N518		5050673	852	C3	6	6U7G, 6A8G, 6B8G, 6V6G, 0Z4G	262	10-1-4	
982084	Vol.	1212440	20	TM232-SS3				10	15	BB12		5050673	852	C3	8	6U7G, 6A8G, 6J5G, 6Q7G, 6N7G, 0Z4G	262	10-5-8	
		1212440	20	TM232-SS3				8-8-2-5-5	1/13/15	8S718/BB40		5050673	852	C3					
982085	Vol.	7233559	20	TM224-SS12				.005	1	2N518		5050673	852	C3	6	6K7G, 6A8G, 6B8G, 6V6G, 0Z4G	262	9-9,12	
982126	Vol. & Tone	7236753	124/22	SMD506				7236854	24/15	TN136		5050673	852	C3	7	6K7, 6A8G, 6Q7G, 6J5G, 6N7G, 0Z4G	260	10-9-12	
		1213501	18	Order from	Mfr.			7236486	14	BB31									
982127	Vol.	1213501	18	Order from	Mfr.			7237190	24	2N518		1211594	868	C3	5	6A8G, 6K7G, 6Q7G, 6V6G, 6X5G	455	10-13,14	
982153	Vol.	1212440	17	TM232-SS3				7237189	14/15	2N516		5050673	852	C3	6	6U7G, 6A8G, 6B8G, 6V6G, 0Z4G	262	10-15,16	
		1212440	17	TM232-SS3				.005		Buffer	B14								
982160	Vol. & Tone	1213696	17/22	SMD508				7237238	24/15	3S579		5050673	852	C3	6	6U7G, 6A8G, 6B8G, 6V6G, 6X5G	262	10-15,16	
982161	Vol. & Tone	7238806	106	SMD507				7236846	14	BB31		5050673	852	C3	6	6U7G, 6A8G, 6B8G, 6V6G, 6X5G	262	10-15,16	
982215	Vol.	1214418	17/22	Order from	Mfr.			.01-.01	24/15	FPT332		7238829	868	C3	6	7A7, 7H8, 7B6, 7C5, 0Z4	260	11-3,4	
		1214418	17/22	Order from	Mfr.			1214417	24/15	FPT332		7238829	868	C3					
982216	Vol. & Tone	7241048	106	Order from	Mfr.			.004	24/15	FPT332		7238829	868	C3	6	7A7, 7A8, 7E6, 37C5, 0Z4G	260	12-1-4	
982259	Vol.	15-10-20	18	UM154	M26	A96		7240724	24/15	FPT339		7238829	868	C3	6	7A7, 7H8, 7B6, 7C5, 0Z4	260	12-4-6	
		15-10-20	18	UM154	M26	A96		.006	24/15	FPT339		7238829	868	C3					
OPERADIO MFG. CO. 478A, 478AII, 2478A	Vol.	8	15	N				8	2/25	WE850				5	56, 53, 2A3, 5Z3		6-1		
		8-8	2/25	N				10	15	BB12									
484, 484A, 484B	Vol.	20	15	N				20	19	BB25				3	864		6-3		
		75	14	N				75	14	SR608	B3								

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
OPERADIO — Continued																		
677A.....	Vol. Phono.		15 50	MR48. MR48.				30 8-8 10 25	1 1/13 15 15	WE3050. 2N518. BB12. BB15.					6	57, 6B5, 83.	7-2	
678A.....	Vol. Phono.		15 50	MR48. MR48.				30 8-8 10 25	1 1/13 15 15	WE3050. 2N518. BB12. BB15.					6	57, 6B5, 83.	7-3	
683A.....								16 8. 25	1 1 15	RS216. RS213. BB15.					5	6B5, 83.	7-1	
823A.....								16 8. 25	1 1 15	RS216. RS213. BB15.					5	6B5, 83.	7-4	
2667A.....	Vol. Phono.		15 50	MR48. MR48.				30 8-8 10 25	1 1/13 15 15	WE3050. 2N518. BB12. BB15.					6	57, 6B5, 83.	7-2	
ORGATRON (Everet)																		
LS-2.....	Quality Pedal S. Flute U. Flute String Horn Bril.			Order from ZZZ ZZZ ZZZ Order from	Mfr.			Main and Pre-Amplifier 8, 8, 8 10 Echo Field 8, 8.	3 15 Supply 1	RS213. BB12. Supply RS213.						†		
MD-1.....				Order from	Mfr.			Pre-Amplifier 8-8 25 10 Main Amplifier 30 25 Power Supply 30 50 Echo Field Supply 8, 8.	13 15 15 13 15 2 19 1	2N518. BB15. BB12. WE3050. BB15. WE3050. BB27. RS213.						†		
PACIFIC RADIO (Aetna, Knight, Mauchester, etc.)																		
Midget Super.....	Vol.	221	18	MR48.	M26			20. 12. 20-12-12. 16-12.	6 6/13 46 27	BB25. BB12. See Note. 2P546.					5	6A8, 6K7, 6Q7, 25L6, 25Z6.	456 9-4	
TRF Midget A60B.....	Vol. Tone	220	6	MR48.		See Note	A5	16-12.	27	2P546.	B3				1	6K7, 6J7, 25L6, 25Z6.	10-10	
1, 2.....	Vol.	217	6	MR48.		See Note	A5	16-12.	4	2P546.					5	6A7, 6D6, 75, 43, 25Z5.	165 10-5	
3-(38).....	Vol.	215	18	MR48.				16-12.	4	2P546.					4	6D6, 6C6, 25L6, 25Z5, L49C.		
4-(38).....	Vol. Tone	215 304A	18 22	MR48.		See Note	A5	16-12. 10.	4 15	2P546. BB12.					6	6A7, 6D6, 75, 25L6, 25Z5, 6G5, L49C.	465 9-1	
5SW.....	Vol.		18	MR48.				16-12.	4	2P546.					5	6A7, 6D6, 6B7, 43, 25Z5.	456 9-2	
H6-37.....	Vol. Tone		17 22	MR55.		See Note	A5	8-6. 10. .008.	4 15 1	2S567. BB12. Buffer.	B14	294	C3	6	6D6, 6A7, 6Q7, 41, 0Z4.	262 8-1		
6V.....	Vol.		18	MR48.				12-6. 10. .02.	1 15 1	2S568. BB12. Buffer.	B14	294	C3	5	6A7, 6D6, 75, 41, 84.	465 7-1		
H7-1937.....	Vol. Tone		17 34	UM163. UM133.		See Note	A96	8-6. .008.	4 1	2S567. Buffer.	B14	294	C3	7	6K7, 6L7, 6Q7, 6P6, 6C5, 0Z4.	262 8-1		
M7-(38).....	Vol.	223	18	UM154.	M26	See Note	A96	6-6. .006. 1736.	4 1 1	2S567. Buffer. FPT359.	B14 B8	1505	C24	5	6A7, 6K7, 6Q7, 41, 84.	456 9-3		
8AC.....	Vol. Tone	221 305	18 44	MR48.	M26	See Note	A5	15-15-40. 10. .02.	1/15 15 23	FPT316. BB12. Buffer.	B3 B14		See Note	8	6A7, 6D6, 6Q7, 76, 6U5, 343, 25Z5.	165		
8T-6V.....	Vol. Tone		18 44	MR48.		See Note	A5	10. .02. 1703.	15 23 23	2S567. Buffer. 2S567.	B14			8	6L5, 333, 1114.	465 9-3		
11.....	Vol.	215	18	MR48.				8-4. 1703.	23 23	2S567. 2S567.				5	6A7, 6D6, 75, 41, 80.	456 9-1		
12-(38).....	Vol. Tone	215 304A	18 34	MR48.		See Note	A5	10. .02.	15 23	BB12. Buffer.	B14			6	6A8, 6D6, 6C5, 6Q7, 41, 80.	465 10-1		
14-(38).....	Vol. Tone	215	45	MR48.		See Note	A5	8-4. 10. 16-12.	23 15 23	2S567. BB12. 2P546.				7	6A8, 6D6, 76, 6K5, 6G5, 42, 80.	465		
15, 16-37 Series.....	Vol.		6	MR18.		See Note	A5	10. 16-12.	15 23	BB12. 2P546.				1	6D6, 6C6, 43, 25Z5, L49C.	10-2		
15-(38).....	Vol. Tone	218	17 44	MR48.		See Note	A19 A5	12. 18. 10. 16-12.	1 1 15 23	RS215. RS216. BB12. 2P546.				9	6K7, 6A8, 6Q7, 6G5, 6C5, 6P6, 5Y3.	465		
20-37 Series.....	Vol.		6	MR21.				16-12.	23	2P546.					4	6D6, 6C6, 25L6, 25Z5, L49C.		

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS								CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
PACIFIC RADIO—C																			
21, 22	continued	216	18	MR48	M27			8-8	1	2N518 Buffer	B14	480	245	C3	4	1C7, 1D5, 1H6, 1G5	456	9-5	
23	Vol. Tone	215	45	MR48	M26			01-01	1	2N516 Buffer	B14	480	245	C3	6	6D8, 6S7, 6L5, 1J6	465	9-5	
25	Vol. Tone	221	45	MR48	M26	See No	te A5	01	1/15	3S579 Buffer	B14	480	245	C3	6	6A8, 6S7, 6L5, 4I	465	10-3	
25 (4T, TRF)	Vol. Tone	305	34	H12	6	See No	te A5	1720	23	2P546 Buffer	B14				4	6D6, 6C6, 43, 25Z5			
30-37 Series	Vol. Tone		18	MR48		See No	EX300	16-12	27	2P546					6	6A7, 6D6, 75, 25L6, 6G5, 25Z5, L49C	456		
35-(38)	Vol.	221	18	MR48	M26			16-12	27	2P546					6	6A7, 6D6, 6Q7, 25A6, 25Z5, 6U5, L49B	465	9-6	
37-61	Vol.		18	MR48				16-12	27	2P546					6	6A7, 6D6, 75, 43, 6G5, 25Z5	456	7-2	
37-321	Vol. Tone		18	N		See No	te A5	8-4	23	2S567					5	6A7, 6D6, 75, 42, 80, or 6A7, 6K7, 75, 6F6, 80	465	8-10	
37-6320	Vol. Tone		45	N		See No	te A5	8-4	23	2S567					6	6A8, 6K7, 6I16, 6F5, 6F6, 5Z4	465	7-6	
37-6322	Vol. Tone		45	N		See No	te A5	16-12	27	2P546					7	6A7, 6D6, 76, 6F5, 43, 6G5, 25Z5	465	7-7	
37-7370	Vol. Tone		20			See No	te A19	12-14	23	2S568					8	6K7, 6A8, 6I16, 6F5, 6F6, 6G5, 5Y3	465	7-9	
37-14370	Vol. Tone		34	2 Meg. No. 1		See No	te A5	10	15	BB12					14	6K7, 6A8, 6I16, 6C5, 6G5, 6F6, 5Z4	465	7-10	
			75			See No	te A19	12	25	RS215									
			34			See No	te A5	18	25	RS216									
								8, 8	13	BB61									
								10	19	BB13									
40	Vol.		6	G7	6			16-12	23	2P546					4	6D6, 6C6, 43, 25Z5		10-5	
41	Vol. Tone	221	45	MR48	M26	See No	te A5	8-4	23	2S567					7	6A7, 6D6, 76, 6K5, 6U5, 4I, 80	465	10-6	
42	Vol. Tone	221	18	MR48	M26	See No	te A5	1727	1	2S568					8	6A7, 6D6, 6Q7, 76, 6U5, 43, 25Z5	465	10-7	
43-(38)	Vol. Tone	221	45	MR48		See No	te A5	1729	1	2N506					11	6A7, 6D6, 476, 6U5, 43, 25Z5	465	9-7	
50-37 Series	Vol. Tone	305	34			See No	te A5	8-4	23	2S567					6	6A7, 6D6, 75, 6G5, 42, 80	465	8-3	
60	Vol. Tone		18	MR48		See No	te A5	8-4	23	2S567					7	6K7, 6A8, 6Q7, 6G5, 6F6, 5Y3	465	8-4	
80-37 Series	Vol. Tone		45	MR48		See No	te A5	8-8	1	2N516 Buffer	B14		245	C3	6	6D6, 6S7, 6L5, 19	465	8-5	
81A	Vol.		18	MR48											5	1C6, 34, 1B5, 30, 19	465	7-3	
101	Vol.		18	UM154	M26	See No	te A96	6-12	1	2N519 Buffer	B3		292	C3	5	6A7, 6D6, 6B7, 41, 84	456	8-6	
								10	15	BB12	B14								
'B, 101C	Vol.		18	N	6	EC240		8-8	4	CM172	B3		294	C3	5	6A7, 6D6, 75, 41, 0Z4	456		
102 (Knight 6 tube)	Vol.		18	N	6	EC240		6-12	1	2N519	B3		292	C3	6	6D6, 6A7, 75, 41, 84	175	8-6	
								10	15	BB12	B14								
102B	Vol. Tone		18	N	6	EC240		8-8	4	CM172	B3		294	C3	6	6K7, 6A8, 6Q7, 6F6, 0Z4	262	8-6	
110-37 Series	Vol.		22			See No	te A5	.01		Buffer	B14				12	6K7, 6A8, 6I16, 6G5, 6C5, 6F6, 5Y3	465	8-7	
			20	2 Meg. No. 1		See No	te A19	12	1	RS215					15	6K7, 6A8, 6I16, 6C5, 6G5, 6F6, 5Y3	465	8-8	
150-37 Series	Vol. Chan.		20	2 Meg. No. 1		See No	te A19	18	1	RS216					15	6K7, 6A8, 6I16, 6C5, 6G5, 6F6, 5Y3	465	8-8	
301	Vol. Tone	221	18	MR55				1732	1/15	FPT316	B14	1505	294	C3	5	6A8, 6S7, 6T7, 41, 6Z5	465	11-2	
302	Vol. Tone	305	34	MR48	M26			.01		Buffer	B14				7	6A8, 6S7, 6L5, 6AB5, 1J6	465	9-8	
321-36	Vol. Tone	221	45	MR48	M26	See No	te A5	1732	1/15	FPT316	B14	1506	See Note	C8	5	6A7, 6D6, 75, 42, 80	165	8-9	
501	Vol.	220	6			See No	te A5	.02	23	2S567					4	6D6, 6C6, 43, 25Z5	465	9-8	
601	Vol.	221	18	MR48		See No	te A5	8-4	23	2S567					4	6A7, 6D6, 6Q7, 41, 80	465	9-8	
602	Vol.	221	18	MR48	M26			1732	1/15	FPT316					6	6A7, 6D6, 6Q7, 25A6, 6U5, 25Z5	465		
								1733	46/15	FPT409					7	6A7, 6D6, 75, 6K5, 25A6, 25Z5, 6U5	465		
603	Vol. Tone	221	127	MR48	M26	See No	te A5	1733	46/15	FPT409					7	6A7, 6D6, 75, 6K5, 25A6, 25Z5, 6U5	465	7-4	
682	Vol. Tone	305	34			See No	te A5	8-4	1	2N516 Buffer	B14		285XS	C3	6	1C6, 34, 30, 19	465	7-4	
702	Vol. Tone	221	45	N				01-01	1	2N516 Buffer	B14				11	6A7, 6D6, 476, 433, 6U5, 25Z5	465	10-9	
915	Vol. Tone	218	17	MR48	M26	See No	te A5	1729	1	2S568					9	6K7, 6A7, 6Q7, 6C5, 6G5, 6F6, 5Y3	465	10-10	
			44			See No	te A5	10	15	BB12									
						See No	te A19	12	1	WE1250									
						See No	te A5	18	1	WE2050									
						See No	te A5	25	1	WE3050									
3280	Vol.		18	MR48				8-4	23	2S567					6	6A7, 6D6, 76, 75, 48	465	7-5	
6370	Vol. Tone		45	MR48		See No	te A5	8-4	23	2S567					6	6A8, 6K7, 6I16, 6F5, 6F6, 5Y3	465	7-8	
			22			See No	te A5												
PACIFIC RADIO EX	CHANG	E	6	MR18				16-8	4	2P544					4	78, 6C6, 43, 25Z5, 55A			
27	Vol.														5	6A7, 78, 75, 41, 80	456		
37-37A	Vol.		18	MR48				4-4	23	2S567					6	6A7, 6D6, 6G5, 75, 41, 80	456		
57	Vol.		18	500M No. 1		See No	te A19	16	25	ST597					6	6A7, 6D6, 6G5, 75, 41, 80	456		
								12	25	ST596									

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PACIFIC RADIO EX 556	CHANG Vol.	E-- Continue	18	MR48				8-8	25	2S567					5	6A8, 6K7, 6Q7, 6F6, 5W4	456	
5 Tube TRF.....	Vol. Tone		7	J. SHP263	6			8, 8	1	RS213					5	58, 57, 2A5, 83		
"Round the World Five".....	Vol. Reg.		7	UC501				8, 8	4	RS213					5	58, 57, 2A5, 5Z3		
"Round the World Six".....	Vol. Sen.		12	K12	6			8, 8	1	RS213					6	58, 57, 56, 47, 82		
Super Auto Midget. Spero Autodyne.....	Vol.		33	O				5-5	15	TN111					3	6A7, 6B7, 41 or 89	465	
	Vol.		18	UM154	M26	A96		4-4	1	CM170		292	C3	6	41, 36, 85, 89, 84	‡		
	Vol.		15	UM154		See Note A96		5	15	BB12					6			
Spero Four.....	Vol. Tone		6	G12	6			.02	23	Buffer	B14			4	58, 57, PZ, 82		§6-24	
Spero Super.....	Vol. Tone		22	K12				1	1	RS213				10	56, 58, 47, 82, Wunderlich	175	§6-25	
Spero 7 Tube All-Wave.....	Vol. Tone		83	N	6			8-8	1	RS213				7	57, 56, 58, 55, 59, 83	‡		
Spero 10 Tube All-Wave.....	Vol. Tone		41	M				4	1	RS213				10	58, 57, 56, 55, 59, 83	‡		
	Vol. Tone		15	N	6			8, 8	15	BB12				7				
	Vol. Tone		15	L				10	3	RS213				10				
	Vol. Tone		15	L				8	3	RS213				10				
PACKARD PA333915 (Early)	Vol.	118270	17	UM162-SS3				117314	15	FPT332	B14	116202	854	C3	7	6SK7, 6A8, 6R7, 6V6GT, 0Z4	455	
PA333915 (Late Marked with R).....	Vol.	118270	17	UM162-SS3				117314	15	FPT332	B14	116202	854	C3	7	6SK7, 6A8, 6R7, 6V6GT, 0Z4	455	
PA351099, PA351100.....	Vol.	117321	17	UM162-SS3				117314	15	FPT332	B14	116202	854	C3	7	6SK7, 6A8, 6R7, 6V6GT, 0Z4	455	
PA351101, PA351102.....	Vol.	117321	17	UM162-SS3				111258	71	BB61	B14	116202	854	C3	6	6SK7, 6A8, 6SQ7, 6V6GT, 6X5GT	455	
PA353832.....	Vol.	118270	17	UM162-SS3				117314	15	FPT332	B14	116202	854	C3	7	6SK7, 6A8, 6R7, 6V6GT, 0Z4	455	
PACKARD BELL CO 5 "Kompak"	Vol.		6	MR18	M26	EX300		4-4	23	CM170					5	6J7, 6K7, 6C5, 6F6, 5W4	460	8-1
5A.....	Vol.		17	MR18				4-4	23	CM170					5	6A8, 6K7, 6Q7, 6F6, 5W4	460	
5AC.....	Vol.		18	MR18				8-4	60	CM175					5	6SA7, 6SK7, 6Q7G, 6K6G, 6X5G	460	11-1
5AE, 5AEP.....	Vol.		18	MR18				16-8-4	60	UR191	BB				5	6SA7, 6SK7, 6SQ7, 6K6GT, 6X5GT	460	11-1
5B.....	Vol.		17	MR18				8-4	23	2S567					5	6A8, 6SK7, 6SQ7, 6F6, 5W4	460	10-1
5D.....	Vol.		18	MR18				20-20	1	2N509					5	12SA7, 12SK7, 12SQ7GT, 35L6GT, 35Z5GT	460	10-2, 10-1, 12-1
5M.....	Vol.		17	MR18				8-4	23	2S567					5	6A7, 6D6, 75, 41, 80	460	9-1
5MP.....	Vol.		17	MR18				8-4	23	2S567					5	6A7, 6D6, 75, 41, 80	460	
5N.....	Vol.		18	MR18				20-40	6	2N514					5	12SA7, 12SK7, 12SQ7GT, 35L6GT, 35Z5GT	460	10-4
5NP.....	Vol.		18	MR18				20-40	6	2N514					5	12SA7, 12SK7, 12Q7GT, 35L6GT, 35Z5GT	460	10-4
5T.....	Vol.		17	MR18				4-4	23	CM170					5	6A7, 6D6, 75, 41, 80	460	
5TP.....	Vol.		17	MR18				8-4	23	2S567					5	6A7, 6D6, 75, 41, 80	460	9-1
6A.....	Vol.		18	MR18	M26			20-20-50	1/15	2N509/BB17					6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	460	12-1
15.....	Vol.		6	MR18	EX300			8-4	40	2S567	B3				5	6C6, 6D6, 76, 42, 80	460	10-1
25.....	Vol.		18	UM154	M26	See Note A96		8-8	74	See Note	B3	294			5	6A7, 6D6, 85, 42, 84	460	6-1
34.....	Vol.		6	G12	6	EX300		5-5	23	See Note	B3				4	6D6, 76, 42, 80	460	6-4
35.....	Vol. Tone		6	G12	6	EX300		5-5	23	See Note	B3				5	6C6, 6D6, 76, 42, 80	460	6-4
	Vol. Tone		22	K12				12	25	RS215					5	6A7, 6D6, 75, 42, 80	460	7-1
35 Late.....	Vol.		18	MR18				4-4	23	CM170					5	57, 58, 56, 2A5, 80	460	6-2
35A.....	Vol.		6	G12	6	EX300		4-4	23	CM170	B3				5	6A7, 6D6, 75, 41, 80	460	8-3
35H.....	Vol.		18	500M		See Note A19		10	25	RS215					5	6A7, 6D6, 75, 41, 80	460	
	Vol.		12					12	25	RS215					6	6A7, 6D6, 75, 41, 80, 6U5/6C5	460	
35J.....	Vol.		18	500M		See Note A19		10	25	RS215					6	6A7, 6D6, 75, 41, 80	460	
	Vol.		17	MR18				8-4	23	2S567					5	6A7, 6D6, 75, 41, 80	460	10-5
35L.....	Vol.		17	MR18				8-4	23	2S567					5	6A7, 6D6, 75, 41, 80	460	
35M.....	Vol.		17	MR18				8-4	23	2S567					5	6A7, 6D6, 75, 41, 80	460	9-1
35N.....	Vol.		18	MR18				10-20	40	2N514					5	12SA7, 12SK7, 12Q7GT, 35L6GT, 35Z5GT	460	10-4
	Vol.		18	MR18				20	13	BB25					5			

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PACKARD BELL CO	—Continued																	
36	Vol.		15	N				4-4	23	CM170	B3				6	2A7, 258, 55, 2A5, 80	460	6-3
40	Vol.		18	TM230-SS1				8	12	BB21					4	1A7G, 1N5G, 1H5G, 1Q5G	460	10-2
40B	Vol.		18	MR48	M27			20-10-10-100	24	F1Q407	B211				5	1A7G, 1N5G, 1H5G, 1A5G, 117Z6G	460	11-2
41	Vol.		18	TM230-SS1				8	12	BB21					4	1A7G, 1N5G, 1H5G, 1A5G	460	10-1
45M	Vol. Tone		6	F12		EX175		8-8	23	CM172	B3				5	6A8, 6K7, 6F5, 6F6, 5Z4	460	6-4
46	Vol. Tone		18	MR48	M26			8-4	23	2S567					5	6A7, 6D6, 75, 42, 80	460	7-2
46B	Vol. Tone		22	MR33				12, 12	25	RS215					5	6A7, 6D6, 75, 41, 80	460	8-3
46D	Vol. Tone		17	500M		See Note A19		12, 12	25	RS215					6	6A7, 6D6, 75, 41, 80, 6G5	460	9-1
46DP	Vol. Tone		18	500M		See Note A19		12, 12	25	RS215					6	6A7, 6D6, 75, 42, 80, 6G5	460	9-2
46E	Vol. Tone		17	500M		See Note A19		12, 12	25	RS215					6	6A7, 6SK7, 75, 6AF6G, 41, 80	460	
46EP	Vol. Tone		17	500M		See Note A19		12, 12	25	RS215					6	6A7, 6SK7, 75, 42, 80, 6AF6G	460	
46G	Vol. Tone		124	MR48				12-12	23	2S568					6	6SA7, 6SK7, 75, 42, 80, 6AF6G	460	11-3
46H, 46HC	Vol. Tone		124	MR48				12-12	23	2S568					6	6SA7, 6SK7, 6SQ7, 6AF6G, 6K6GT, 5Y3G	460	11-4
46HP	Vol. Tone		124	MR48				12-12	23	2S568					6	6SA7, 6SK7, 6SQ7, 6AF6G, 6F6G, 5Y3G	460	11-4
46J	Vol. Tone		124	500M		A19		16	23	BB64					6	6SK7, 6SA7, 6SQ7, 6V6GT, 6X5GT	460	12-2
47M	Vol. Tone		45	MR48				8-8	25	CM172					7	6K7, 6A8, 6I16, 6F5, 6F6, 5Z4	458	7-1
48	Vol. Tone		45	MR48				8-8	25	CM172					7	6A8, 6K7, 6I16, 6E5, 6F6, 5Z4	458	7-3
48B, 48BC	Vol. Tone		22	K12				8	13	CS133					7	6A8, 6K7, 6G5, 6I16, 6F6, 5Z4	460	9-2
48BP	Vol. Tone		18	500M		See Note A19		8, 8	25	RS213					7	6A8, 6K7, 6U5, 6H6, 6F6, 5Z4, 610-10	460	
48D, 48DC, 48DK	Vol. Tone		20	500M		See Note A19		8	25	RS216					8	6K8, 6SK7, 6AF6G, 76, 41, 80, 6AE6G	460	
48E, 48EP	Vol. Treble Bass		140	500M		A19		8-8	25/13	2S563					8	6SA7, 6SK7, 6SQ7, 6AF6G, 6J5, 6V6G, 80	460	11-5
48F	Vol. Treble Bass		140	MR57				12	25	BB63	2N518				8	6SA7, 6SK7, 6SQ7, 6AF6G, 6J5, 6V6GT, 5Y3G	460	11-5
48FPA	Vol. Treble Bass		140	MR57		A19		12-8-8	25/13	BB63	2N518				8	6SA7, 6SK7, 6SQ7, 6AF6G, 6J5, 6V6GT, 5Y3G	460	11-6
50 High Fidelity	Vol. Treble Bass		18	MR48				16, 16	30	RS216					10	6K7, 6A8, 6R7, 6G5, 6L6, 3Z4	460	8-1,2
50P	Vol. Treble Bass		18	MR48	M26			8-8	30/13	2S567					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	460	11-2
56	Vol. Treble Bass		18	MR53	M27			100-20	24	F1P358	B8				5	1A7GT, 1N5GT, 1H5GT, 1Q5GT, 25Z6G	460	12-1
57	Vol. Treble Bass		18	MR53	M27			100-20	40	F1P358	B8				6	1N5GT, 1A7GT, 1H5GT, 1Q5GT, 25Z6G	460	12-4
57A	Vol. Treble Bass		18	MR53	M27			100-20	40	F1P358	B8				6	1N5GT, 1A7GT, 1H5GT, 1Q5GT, 25Z6G	460	12-4
58	Vol. Treble Bass		140	MR57		See Note A19		16, 16	4	RS216					8	6K8, 6SK7, 6SQ7, 6C5, 6V6G, 5U4G, 6AF6G	460	10-6
58A	Vol. Treble Bass		124	500M		A19		16-16	4	RS216					8	6SA7, 6SK7, 6SQ7, 6AF6G, 6J5, 6V6GT, 5U4G	460	11-6
65	Vol. Tone		6	G12	6	EX300		4-4	3	CM170	B3				5	56, 57, 58, 2A5, 80	465	6-2
65 (Auto)	Vol. Tone		18	UM154		A96		8-8	4	CM172			294	C3	5	6A7, 6D6, 75, 42, 84, 6SK7, 6SA7, 6SQ7	460	7-4
65A	Vol. Tone		124	500M		A19		16-8	23	2S563					6	6A7, 6D6, 76, 41, 80, 6K6GT, 6X5GT	460	12-2
66	Vol. Tone		20	500M		A19		12, 12	25	RS215					6	6A7, 6D6, 76, 41, 80, 6SK7, 6SA7, 6SQ7	460	9-3
66D	Vol. Treble Bass		124	500M		A19		16-8	23	2S563					6	6SK7, 6SA7, 6SQ7, 6V6GT, 6X5GT	460	12-5
66DP	Vol. Treble Bass		124	500M		A19		16-8	23	2S563					6	6SK7, 6SA7, 6SQ7, 6V6GT, 6X5GT	460	12-5

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference		
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note						
PACKARD BELL CO. 66DPA.....	—Continued Vol. Treble Bass		124	500M.			A19	16-8	1	2S563					6	6SK7, 6SA7, 618G, 6V6GT, 6X5GT	460	12-2		
			21	MR57				6	13	BB31										
			75	MR57				A96	20	15	BB15				294	C3	7	6K7, 6A8, 6116, 6F6, 81	460	7-4
	67 (Auto).....	Vol. Tone		22	UM154				8-8	71	CM172					5	6A8G, 6K7G, 6Q7G, 6K6G, 6X5G	460		
				18	500M.			See Note	A19	.005		CM172	B14		294	C3	6	2A7, 2B7, 357, 2A5, 80	465	6-5
	75.....	Vol.		18	M.				1-4	23	CM170	B3								
				21	M.															
	76.....	Vol. Tone Supp.		12	Y250MP															
				18	500M.				A19	8-8	74	CM172	B14	600	850	C3	6	6K7G, 6A8G, 6Q7G, 6K6G, 6X5G	460	8-4
	76 (Auto).....	Vol.		18	UM154			A96	8-8	1	2N518	B14	94	294	C3	8	6K7, 6A8, 6Q7G, 6C5, 6K6G, 6X5G	460	9-4	
				18	500M.				.005			CM170	B3				6	2A7, 2B7, 357, 2A5, 80	465	6-6
	78.....	Vol.		18	UM154			A96	8-8	1	2N518	B14	94	294	C3	8	6K7, 6A8, 6Q7G, 6C5, 6K6G, 6X5G	460	9-4	
				18	500M.				.005			CM170	B3				6	2A7, 2B7, 357, 2A5, 80	465	6-6
86.....	Vol. Tone Supp.		15	N.				1-4	23	CM170	B3									
			21	M.																
120.....	Vol.		15	Y50MP			A19	16, 16	1	ST597					11	6K7, 6A8, 6116, 6F5, 6C5, 6F6, 75W4	460	8-1,2		
			15	500M.			See Note	A19	8, 16, 16	13	BB41					12	6K7, 6K8, 6116, 6F5, 6C5, 6F6, 75Z4, 6U5	460	9-3	
120AB.....	Vol.		15	500M.			See Note	A19	8, 16, 16	13	BB41				12	6K7, 6K8, 6116, 6F5, 6C5, 6F6, 75Z4, 6U5	460	9-3		
			15	500M.			See Note	A19	20	1	FPS144				12	6SK7, 6AF6, 6K8, 6J5GT, 6V6GT	460	12-6		
120D, 120DR.....	Vol. Treble Bass		124	500M.			A19	20-10	1/13	FDP234					16	6K7, 6A8, 6U5, 6J7, 6B8, 6116, 6F5, 6J5, 6F6, 75W4	460			
			20	500M.			See Note	A19	16, 16	1	RS216									
160.....	Vol.		20	500M.			See Note	A19	16, 16	1	RS216									
			20	500M.			See Note	A19	10, 8	15	BB12									
PACKARD RADIO 4 tube Superhet.....	CO. Vol. Tone		22	G12			See Note	A5	4-4	23	See Note	B3			4	357, 47, 80	235	3-1		
			4.....	Vol. Tone		22	G12			See Note	A5	4-4	23	CM170	B3		4	357, 47, 80	235	4-1
			11			M.			See Note	A96	5	19	BB11				5	55, 57, 358, 47	465	3-1
	5 Auto Set. 6 tube Auto.....	Vol.		11	UM147			See Note	A96	4-4	1	2N517				6	6D6, 6A7, 75, 41, 84	470	4-2	
				18	N.					.05-.05		23	CM170	B3			4	58, 57, 2A5, 80	235	4-1
	11, 13.....	Vol.		6	G7				4-4	23	CM170	B3				1	357, 47, 80	235	4-1	
				24, 24C.....	Vol. Tone		22	G12				4-4	23	CM170	B3			5	55, 57, 58, 47 or 2A5, 80	470	4-2
	85.....	Vol. Tone		6			M.				4-4	23	CM170	B3						
				22	G7					4-4	23	CM170	B3							
	PARAMOUNT RADIO CO. Laurel Tone.....	Vol.		6	G7			2	7-7	1	2N518					4	57, 58, 47, 80		55-14	
				5M-17.....	Vol.	B16970	6	K12			6	19	BB12				4	6D6, 6C6, 43, 25Z5		
		6M-27.....	Vol. Tone	B17010 B17047			17	O.				27	RS207				5	6AB7, 6K7G, 6Q7G, 25B6G, 25Z6G	456	
					17	M.					4	RS207								
6U-107, 6L-137, 6C-607.....		Vol. Tone	B16542-2 B16540-2	18	O.				4	RS208					6	6A8G, 6K7G, 6Q7G, 6G5, 6K6G, 5Y3	456			
				34	UC502					4	WE825									
7U-117, 7L-147, 7C-707.....		Vol. Tone	B16542-2 B16540-2	18	O.				4	RS216					7	6L7G, 6C5G, 6K7G, 6Q7G, 6G5, 6F6G, 5Y3	456			
				31	UC502					4	WE825									
8C-807.....		Vol. Tone	B16542-2 B16540-2	18	O.				25	WE3050					8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, 6F6G, 5Y3	456			
				44	UC502					25	RS215									
8U-127.....		Vol. Tone	B16542-2 B16539-2	18	O.				25	WE3050					8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, 6F6G, 5Y3	456			
				44	SHP284			8		25	RS215									
10C-1007.....		Vol. Tone	B16553-2 B16540-2	17	TRP618				1	WE3050					10	6K7G, 6L7G, 6C5G, 6Q7G, 6G5, 6F6G, 5Z3	456			
	22			UC502					1	RS216										
PARKER McCORRY BA41.....	Vol.		45	N.			A21	8-8	1	2N518		P402	245C	C3	6	1C6, 34, 30, 32, 33	456	12-7		
			4A (1939).....	Vol.	P2600	18	MK401	M27		.01-.01	19	BB25	B14			4	1A7G, 1N5G, 1115G, 1C5G	456	12-1,2	
	4A (1940).....	Vol.	P2600			18	MK401	M27		P2602	19	BB15				4	1A7G, 1N5G, 1115G, 1Q5G	456	12-1,2	
	4J.....			Vol.	P3317	18	MK401	M27		P3024	12	BB21				4	1A7G, 1N5G, 1115G, 1Q5G	455	12-3	
		6C (1939 Masterpiece).....	Vol. Tone			P2848 P2849	18	Order from	Mfr.		8-8-5	1/15	2N516/BB12	B14		850	C3	6	6L5G, 6D8G, 6S7G, 6T7G, 6G6G, 6Z5G	456	12-1,2
	34			UM140-SS25	M27			.015		1/15	2N516	BB12	B14	850	C3	6	6D8G, 6S7G, 6T7G, 6G6G, 6L5G, 6Z5G	455	12-5,6	
	6D.....	Vol.	P2271	18	Order from	Mfr.		8-8-5	1/15	2N516	BB12	B14	850	C3	6	6D8G, 6S7G, 6T7G, 6G6G, 6L5G, 6Z5G	455	12-5,6		
				18	Order from	Mfr.		.015		1/15	2N516	BB12	B14	850	C3	6	6D8G, 6S7G, 6T7G, 6G6G, 6L5G, 6Z5G	455	12-5,6	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PARKER McCRORY	Continued																	
	7C.....	Vol. Tone	P3335	18	MK 401	M26		10-10	1	FPD231					7	6A7, 6D6, 75, 76, 241, 80.	455	12-3, 4
	7H.....	Vol. Tone	P3337	22	MK 401	M26		P3419	1	FPD231					7	6A7, 6D6, 75, 76, 241, 80.	455	12-4, 5
	400.....	Vol. Tone	P3335	18	MK 401	M26									4	6A7, 34, 115, 41	456	12-8
630.....	Vol.		18	500M		A3	8-8	15	2N502					8				
							12	1	BB12	B14								
							.0075	1	Buffer									
							12	1	RS215									
							8	1	RS213									
PATHE	P5.....	Vol. Tone		75	MR48			25	1	ST598					6	6K8GT, 6K7GT, 6H4GT, 12SJ7GT, 6V6GT, 6X5G	455	11-1
				22	MR48	M26		16	1	ST597								
	23X.....	Vol.		7	MR28	M26		30-20	24	2N514					4	12K7GT, 12J7GT, 35L6GT, 35Z5GT		11-2
	38T.....	Vol.		18	MR48	M27		8	12	BB21					4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-3
	39T.....	Vol.		18	MR48	M27		8	12	BB21					4	1A7G, 1N5G, 1H5G, 1Q5G	455	12-2
	40T.....	Vol.		18	MR48	M27		8	12	BB21					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-3
	41P.....	Vol.		18	MR48	M27		70-24	24	HC2501	B3				5	1A7G, 1N5G, 1H5G, 1A5G, 35Z5GT	455	12-1
	52.....	Vol.		18	MR48	M26		100	78	2N511					5	6A7, 6D6, 75, 25L6G, 25Z5, M49HG	455	11-3
	54.....	Vol.		18	MR48	M26		30-18	1	2N511					5	6A7, 6D6, 75, 25L6G, 25Z5	455	11-4
	102.....	Vol. Tone		18	MR48	M26		38-18	1	2N511					8	6A7, 6D6, 75, 76, 25L6G, 25Z5	455	12-3
	109T.....	Vol. Tone		21	MR48			40	12	BB27					5	12K7GT, 12J5GT, 12F5GT, 35L6GT, 35Z5GT		12-4
		Vol. Tone		7	MR28	M26		40	24	BB27								
		Vol. Tone		50	MR44	M28		30	24	BB26								
		Vol. Tone		50	MR44	M28		50	15	BB17								
	114C.....	Vol. Tone		106	MR48	M26		20	1	ST598					6	6A8G, 6K7G, 6H6G, 6F5G, 6V6G, 6X5G	455	11-2
		Vol. Tone		106	MR48			16	1	ST597								
	140.....	Vol.		18	MR48	M26		40	24	BB27					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	455	12-4
		Vol.		18	MR48	M26		30	24	BB26								
	201.....	Vol. Tone		106	MR48	M26		40-20	1	2N514					5	6K8G, 6D6, 75, 25L6G, 25Z5	455	12-3
	240.....	Vol.		106	MR48			40	24	BB27					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	455	12-4
	Vol.		18	MR48	M26		30	24	BB26									
340.....	Vol.		75	MR48	M26		40	24	BB27					6	12A8GT, 12K7GT, 6H4GT, 12F5GT, 35L6GT, 35Z5GT	455	12-2	
	Vol.		75	MR48	M26		30	24	BB26									
342P.....	Vol.		18	MR48	M27		70-24	24	See Note	B3				5	1A7G, 1N5G, 1H5G, 1A5G, 35Z5GT	455	12-1	
	Vol.		18	MR48	M26		100	78	HC2501									
500P.....	Vol. Tone		75	MR48			25	1	ST598					6	6K8GT, 6K7GT, 6H4GT, 12SJ7GT, 6V6GT, 6X5G	455	11-1	
	Vol. Tone		22	MR48	M26		16	1	ST597									
PATTERSON RADIO CO.	Pre-Selector																	
	PR10.....	Vol.		6	D12										2	58		5-1
		Vol.		15	N			8, 8	35	RS213					10	55, 56, 57, 58, 59, 5Z3	467.5	5-2
		M. Vol.		7	D12	6		10	15	BB12								
		Sen. Meter		7	C1MP													
		Vol. Tone		127	C1MP													
	PR15.....	Vol. Tone		76	MR48	M26		16, 16	1	RS216					15	6K7, 6A8, 6K6G, 6L7, 6Q7, 6H6, 6N7, 6J7, 6C5, 26V6G, 5X4G	458	
		Sen. Meter		76	MR48			8	13	RS213								
		Man. Vol.		7	UC500			25	15	BB15								
		Vol. Tone		8	C200P													
	PR16.....	Vol. Tone		15	J			16, 16, 16	4	RS216					16	76, 6A6, 26A3, 6F7, 26C6, 26D6, 5Z3	458	6-1
		Vol. Tone		21	N	6		8	13	RS213								
	M. Vol.		15	K12	6		10	15	BB12									
	Sil. Meter		7	UC500														
PR16 Series C.....	Vol. Tone		15	C1MP			16, 16, 16	1	RS216					16	26D6, 26C6, 476, 75, 6A6, 242, 5Z3	458	7-1, 4	
	Vol. Tone		149	MR48	M26		8	13	RS213									
	Sen. I.F. Gain		8	J			4	14	RS213									
	Vol. Tone		7	C1MP														
50AW.....	Vol. Tone		83	N	6		8-8	1	See Note	B3				8	55, 56, 57, 58, 59, 5Z3	262.5	4-2	
	Vol. Tone		22	UC502														
60 Series.....	Vol. Tone		8	UC500			8-8	1	See Note	B3				6	2A7, 258, 55, 2A5, 80	465	5-1	
	Vol. Tone		15	N	6		10	15	BB12									
70AW (without rear fuse and cover).....	Vol. Tone		15	UC502			8-8	1	See Note	B3				7	56, 57, 58, 55, 59, 82	262	3-1	
	Vol. Tone		34	N	6		10	15	BB12									

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PATTERSON RADIO CO.—Continued																		
70AW, 74AW (with rear fuse and cover).....	Vol. Tone		15	N				8-8	35	See Note	B3				7	56, 57, 58, 55, 59, 82.	262	4-1
75AW.....	Vol. Tone		15	UC502	6			10.	15	BB12					7	6A7, 6D6, 6B7, 6A6, 742, 80.	458	8-1
75AWA.....	Sen. Tone		147	MR53				8.	1	RS216					7	6A7, 6D6, 6B7, 6A6, 742, 80.	458	8-1
78B, 79B (Chassis 77B, 77BA).....	Vol. Tone		114	MR48	M26		See Note A5	10.	15	BB12					7	6A7, 6D6, 6B7, 6A6, 742, 80.	458	8-3,4
80AW, 84AW.....	Vol. Tone		76	MR48				8-8	1	2N518 Buffer	B14	245	C3	7	6S7, 6A8, 6B8, 6G5, 6K6.	465	9-1	
80B (Chassis 77B, 77BA).....	Sen. Tone		76	MR48	M26			.0075	1	2N518 Buffer	B14	245	C3	7	6S7, 6A8, 6B8, 6G5, 6K6.	465	9-1	
85AW.....	Vol. Tone		18	C1MP				8-8	1	See Note	B3				8	55, 56, 57, 58, 59, 5Z3	262	4-2
85AWA.....	Vol. Tone		119	UC502	6			8-8	1	See Note	B3				8	55, 56, 57, 58, 59, 5Z3	262	4-2
86AW.....	Vol. Tone	750	22	UC500														
87, 87A.....	Sil. Tone	751	21	K12			See Note A19	16.	15	RS216					8	6A7, 6B7, 6A6, 6D6, 742, 5Z3	458	6-3
88, 89 (Chassis 87).....	Vol. Tone	752	7	UC500				16, 16	1	RS216					8	6K7, 6A8, 6Q7, 6G5, 6F6, 5X3	465	8-7,8
90 (Chassis 87A).....	Vol. Tone		124	MR48	M26			10.	15	BB12					8	6K7, 6A8, 6Q7, 6G5, 6F6, 5X3	465	8-7
104AW (46 power tubes).....	Vol. Tone		124	MR48	M26			10, 16	15	RS216					8	6K7, 6A8, 6Q7, 6G5, 6F6, 5X3	465	8-7
104AW (59 power tubes).....	Vol. Tone		15	N	6			4-8-4	3	See Note	B3				10	55, 56, 57, 58, 46, 83.	262	4-3
105AW.....	Vol. Tone		15	N	6			8-8	35	See Note	B3				10	55, 56, 57, 58, 59, 82.	262	4-4
106AW.....	Vol. Tone		45	UC502			See Note A5	4	19	BB20								
107, 107A.....	Vol. Tone		48	UC502				8	7	RS213					10	6D6, 6A7, 85, 76, 742, 5Z3	432	8-2
107AW (without rear fuse and cover).....	Vol. Tone		22	MR33	M26			8-8	15	2N518					10	6A6, 6A7, 6D6, 76, 6C6, 742, 5Z3	458	6-3
108, 109 (Chassis 107).....	Vol. Tone		15	C1MP				16.	4	RS216					10	6K7, 6L7, 6Q7, 6G5, 6F6, 5X3	465	8-7,8
110 (Chassis 107A).....	Vol. Tone		124	K12				16, 16	1	RS216					7	57, 58, 56, 55-Wunderlich, 59, 82.	262	3-1
111.....	Vol. Tone		124	UC500				8-4	1	See Note	B3				7	57, 58, 56, 55-Wunderlich, 59, 82.	262	3-1
126AW.....	Vol. Tone		15	UC502				10.	15	BB12								
127, 127A.....	Vol. Tone		21	K12				16, 16	1	RS216					10	6K7, 6L7, 6Q7, 6G5, 6F6, 5X3	465	8-7
128 (Chassis 127).....	Vol. Tone		124	MR48	M26			16, 16	1	RS216					10	6K7, 6L7, 6Q7, 6G5, 6F6, 5X3	465	8-7
128 (Chassis 228, 428).....	Vol. Tone		76	UC500				16.	4	RS216					12	6A8, 6K7, 6L6, 6U5, 6C5, 6F6, 6K6G, 5Y3	465	9-2
129 (Chassis 127A).....	Vol. Tone		124	MR48	M26			8.	1	RS213					12	6A8, 6K7, 6L6, 6U5, 6C5, 6F6, 6K6G, 5Y3	465	9-2
130.....	Vol. Tone		124	Y1000MP				16-16	1	RS216					12	6K7, 6L7, 6Q7, 6C5, 6G5, 6F6, 5X4	465	8-7
168.....	Vol. Tone		124	UC500				16, 16	1	RS216					8	6K7, 6A8, 6Q7, 6G5, 6F6, 5X3	465	8-7
175AW.....	Vol. Tone		76	MR48	M26			10.	15	BB12					8	6K7, 6A8, 6Q7, 6G5, 6F6, 5X3	465	8-7
	Vol. Tone		76	MR48	M26			8-8	1	2N518		245	C3	6	6K7, 6A8, 6B8, 6G5, 6Y6G	465	9-3	
	Vol. Tone		15	MR53				.0075	1	Buffer	B14				7	6A7, 6D6, 6B7, 6A6, 742, 80.	458	8-1
	Vol. Tone		147	M				16.	1	RS216					7	6A7, 6D6, 6B7, 6A6, 742, 80.	458	8-1
	Vol. Tone		147	M				10.	15	BB12					10	55, 56, 57, 58, 59, 82.	262	4-2

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PATERSON RADIO CO.—	Continued																	
175AWA.....	Vol.		114	MR48	M26			16.	1	RS216					7	6A7, 6D6, 6B7, 6A6, 342, 80.	458	8-3
185AW.....	Tone		114	MR33				8.	1	RS213					8	6D6, 6A7, 75, 342, 5Z3	432	8-5
185AWA.....	Vol.		18	MR48	M26			8-8	1	2N518					8	6A7, 6D6, 85, 6A6, 342, 80.	458	8-3
	Tone		149	K12				8.	14	RS213								
	Vol.		15	MR48	M26			16.	1	RS216					8	6A7, 6B7, 6A6, 6D6, 342, 5Z3.	458	6-2,4
	Tone		22	MR33				8.	1	RS213								
186AW.....	Vol.		15	TRP606	6			10.	15	BB12					8	6A7, 6B7, 6A6, 6D6, 342, 5Z3.	458	6-2,4
	Tone		21	K12				16.	4	RS216								
	Sil.		7	UC500				10.	19	BB13								
198.....	Vol.		76	MR48	M26			8-8	1	2N518					9	6K7, 6A8, 6C5, 6V6G, 6H6, 6N7, 5Y3.	465	9-3
	Tone		76	MR48														
207AW, 210AW (without rear fuse and cover).....	Vol.		15	N.	6			8-4	1	See Note	B3				7	55, 56, 57, 58, 59, 82.	262	3-1
	Tone		22	UC502				10.	15	BB12								
208.....	Vol.		76	MR48				16, 16.	1	RS216					8	6K7, 6A8, 6B8, 6E5, 6V6, 5Y3.	465	9-4
	Tone		76	MR48	M26			10, 10.	15	BB12					12	6K7, 6A8, 6K6, 6E5, 6Q7, 6C5, 6J7, 6V6, 5Y3.	465	9-4
212.....	Vol.		76	MR48				16, 16.	1	RS216					12	6A8, 6K7, 6H6, 6U5, 6C5, 6F6, 5Y3, 6K6G.	465	9-2
	Tone		76	MR48	M26			25.	15	BB15								
Chassis 228.....	Vol.		76	MR48				16.	1	RS216					12	6A8, 6K7, 6H6, 6U5, 6C5, 6F6, 5Y3, 6K6G.	465	9-2
	Tone		76	MR48	M26			8.	1	RS213								
268.....	Vol.		76	MR48	M26			8-8	1	2N518			245	C3	6	6K7, 6A8, 6B8, 6C5, 6V6G.	465	9-3
	Tone		76	MR48				0075		Buffer	B14							
275AW.....	Vol.		15	MR53				16	1	RS216					7	6A7, 6D6, 6B7, 6A6, 342, 80.	458	8-1
	Tone		147	M.				8.	1	RS213								
								10.	15	BB12								
275AWA.....	Vol.		114	MR48	M26			16.	1	RS216					7	6A7, 6D6, 6B7, 6A6, 342, 80.	458	8-3
	Tone		114	MR33				8.	1	RS213								
285AW.....	Vol.		18	MR48	M26			8-8	1	2N518					8	6D6, 6A7, 75, 342, 5Z3.	432	8-5
	Tone		149	K12				8.	14	RS213								
285AWA.....	Vol.		15	MR48	M26			16.	1	RS216					8	6A7, 6D6, 85, 6A6, 342, 80.	458	8-3
	Tone		22	MR33				8.	1	RS213								
286AW.....	Vol.		15	TRP606	6			10.	15	BB12					8	6A7, 6A6, 6B7, 6D6, 342, 5Z3.	458	6-2,4
	Tone		21	K12				16.	4	RS216								
	Sil.		7	UC500				10.	19	BB13								
298.....	Vol.		76	MR48	M26			8-8	1	2N518					9	6K7, 6A8, 6C5, 6V6G, 6H6, 6N7, 5Y3.	465	9-3
	Tone		76	MR48														
308.....	Vol.		76	MR48				16, 16	1	RS216					8	6K7, 6A8, 6B8, 6E5, 6V6, 5Y3.	465	9-4
	Tone		76	MR48	M26			10, 10.	15	BB12								
312.....	Vol.		76	MR48				16, 16.	1	RS216					12	6K7, 6A8, 6K6, 6E5, 6Q7, 6C5, 6J7, 6V6, 5Y3.	465	9-4
	Tone		76	MR48	M26			25.	15	BB15								
375AW.....	Vol.		15	MR53				10.	15	BB12					7	6A7, 6D6, 6B7, 6A6, 342, 80.	458	8-1
	Tone		117	M.				16.	1	RS216								
								8.	1	RS213								
375AWA.....	Vol.		111	MR48	M26			10.	15	BB12					7	6A7, 6D6, 6B7, 6A6, 342, 80.	458	8-3
	Tone		114	MR33				16.	1	RS216								
385AW.....	Vol.		18	MR48	M26			8-8	1	2N518					8	6D6, 6A7, 75, 342, 5Z3.	432	8-5
	Tone		149	K12				8.	14	RS213								
385AWA.....	Vol.		15	MR48	M26			16.	1	RS216					8	6A7, 6D6, 85, 6A6, 342, 80.	458	8-3
	Tone		22	MR33				8.	1	RS213								
386AW.....	Vol.		15	TRP606	6			10.	15	BB12					6	6A6, 6A7, 6B7, 6D6, 42, 5Z3.	458	6-3
	Tone		21	K12				16.	4	RS216								
	Sil.		7	UC500				10.	19	BB13								
408.....	Vol.		76	MR48				16, 16	1	RS216					8	6K7, 6A8, 6B8, 6E5, 6V6, 5Y3.	465	9-4
	Tone		76	MR48	M26			10, 10.	15	BB12								
412.....	Vol.		76	MR48				16, 16.	1	RS216					12	6K7, 6A8, 6K6, 6E5, 6Q7, 6C5, 6J7, 6V6, 5Y3.	465	9-4
	Tone		76	MR48	M26			25.	15	BB15								
428.....	Vol.		76	MR48				10.	15	BB12					12	6A8, 6K7, 6H6, 6U5, 6C5, 6F6, 5Y3, 6K6G.	465	9-2
	Tone		76	MR48	M26			16.	1	RS216								
								8.	1	RS213								
507AW (with rear fuse and cover).....	Vol.		15	N.	6			8-8	35	See Note	B3				7	55, 56, 57, 58, 59, 82.	262	4-1
	Tone		22	UC502				10.	15	BB12								
508AW.....	Vol.		83	N.	6			8-8	1	See Note	B3				8	55, 56, 57, 58, 59, 5Z3.	262	4-2
	Tone		22	UC502														
	Sen.		8	UC500														
510AW (46 power tube).....	Vol.		15	N.	6			4-8-4.	3	See Note	B3				10	55, 56, 57, 58, 46, 82.	262	4-3
510AW (59 power tubes).....	Vol.		15	N.	6			8-8	35	See Note	B3				10	55, 56, 57, 58, 59, 82.	262	4-4
	Tone		22	UC502				4.	19	BB20								
	Supp.		1	UC502														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PATTERSON RADIO 1105AW	CO.—	Continued																
	Vol.		45	TM230-SS1	M26			8.	7	RS213					10	6D6, 6A7, 8B5, 76, 342, 5Z3.	432	8-2
1106AW	Tone		22	MR33				8-8	7	2N518								
	Sil.		48	C1MP				5.	15	BB12								
1126AW	Vol.		15	N	6			16.	4	RS216				10	6A6, 6A7, 6D6, 76, 6C6, 342, 5Z3.	458	6-2,4	
	Tone		21	K12				10.	19	BB13								
2105AW	Sil.		7	UC500														
	Vol.		15	N	6			16.	4	RS216				12	6A6, 6A7, 6C6, 6D6, 76, 342, 5Z3.	458	6-2,4	
2106AW	Tone		21	K12				10.	19	BB13								
	Sil.		7	UC500														
3105AW	Vol.		45	TM230-SS1	M26			8.	7	RS213				10	6D6, 6A7, 8B5, 76, 342, 5Z3.	432	8-2	
	Tone		22	MR33				8-8	7	2N518								
3106AW	Sil.		48	C1MP				5.	15	BB12								
	Vol.		15	N	6			16.	4	RS216				10	6A6, 6A7, 6C6, 6D6, 76, 342, 5Z3.	458	6-2,4	
3126AW	Tone		21	K12				10.	19	BB13								
	Sil.		7	UC500														
9507AW (with rear fuse and cover)	Vol.		15	N	6			8-8	35	See Note	B3			7	55, 56, 57, 58, 59, 82.	262	4-1	
	Tone		22	UC502				10.	15	BB12								
PEERLESS—See United Reproducers																		
PERFECTONE, INC. 4 tube receiver	Vol.		15	N				10.	15	BB12				4	36, 41			\$5-15
PETER PAN																		
B	Vol.		6	MR18	M26			4, 4.	23	BB61				4	257, 47, 80.	465	7-2	
4. 4S	Vol.		22	MR44				4, 4.	23	BB61				4	6D6, 6C6, 42, 80.			7-1
4 (With Tone Control)	Vol.		6	MR18	M26			4, 4.	23	BB61				4	257, 47, 80.			7-2
25AV-25AU	Vol.		22	MR44		See Note A5		4, 4.	23	BB61				5	58, 57, 55, 47, 80.	255	7-2	
34	Vol.		22	MR44				4, 4.	23	BB61				4	6D6, 76, 42, 80.			7-1
45	Vol.		6	MR18				4, 4.	23	BB61				4	6A7, 78, 75, 42, 80.	465	7-1	
56	Vol.		18	MR48				8-8	23	2S567				5	6J7, 6K7, 6Q7, 6P6, 5Z4.	465	7-1	
PIHLCO																		
A (Packard)	Vol.	VC7525	16	O	7	EB247								6	36, 85, 37, 79.	260	6-87,88	
AC206 (Studebaker)	Vol.	38-5606	18	N	6			30-2072.01	1/15	CM172/BB12 Buffer	B14	38-5036	500P	C3	344, 77, 75, 42, 84.	260	6-79	
AC206 code 122 (Studebaker)	Vol.	38-5935	18	TRP605	6	FS252	A52	30-2015.01	15	CM172/BB15 Buffer	B14	38-5036	500P	C3	344, 6A7, 75, 42, 84.	260	5-6	
AC236 (Studebaker Jr.)	Vol.	33-5058	18	O	6	FS252	A52	30-2072.7440.01	15	CM172/BB12 Buffer	B14	38-5036	500P	C3	344, 77, 75, 42, 84.	260	6-84	
AC266 (ST3) (Studebaker DeLuxe)	Vol.	38-6297	17	TRP605	6	FS251	A51	30-2105.01	15	CM172/TN111 Buffer	B14	38-5036	500P	C3	36, 77, 44, 75, 42, 84.	260	6-99	
AC989 (Nash)	Vol.	38-5280	19	TRP603	6	FS252	A52	30-2015.006	15	CM172/BB15 Buffer	B14	38-5036	500P	C3	344, 6A7, 75, 41, 84.	260	6-79, 8-3	
AC989 (Code 122) (Nash)	Vol.	38-5935	18	TRP605	6	FS252	A52	30-2015.006	15	CM172/BB15 Buffer	B14	38-5036	500P	C3	344, 6A7, 75, 41, 84.	260	6-78, 8-3	
AC1089 (Nash)	Vol.	38-5606	18	N	6			30-2072.01	1/15	CM172/BB12 Buffer	B14	38-5036	500P	C3	344, 77, 75, 42, 84.	260	6-85	
AC1289 (Nash Jr.)	Vol.	33-5058	18	O	6	FS252	A52	30-2015.7440.01	15	CM172/BB12 Buffer	B14	38-5036	500P	C3	344, 77, 75, 42, 84.	260	6-84, 8-4	
AR1, AR2	Vol.	67-0020	18	Order from Mfr.				61-0089.015	24/15	FPT328 Buffer	B14	83-0025	509P	C3	27B7, 7A8, 7C6, 7A5, 7Y4.	455	12-101, 102	
AR3	Vol.		18	TM225	M26		A96	61-0089.003	24/15	FPT328 Buffer	B14	83-0025	509P	C3	27A7, 7H8, 7B6, 7B5, 7Y4.	455		

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
AR4	Vol.	67-0032-1	18	SM316				61-0089 .003	24/15	FPT328 Buffer	B14	83-0025	500P	C3	6 7B8, 7A7, 7B6, 7C5, 7Y4	455	12-102, 103	
AR5	Vol.	67-0032-1	18	SM316				61-0089 .003	24/15	FPT328 Buffer	B14	83-0025	500P	C3	6 7A7, 7B8, 7B6, 7C5, 7Y4	455	12-105, 12-104	
AR6	Vol.	33-5268	18	UM161-SS27	M26			61-0089 .003	24/15	FPT328 Buffer	B11	83-0025	500P	C3	6 7A7, 6A7, 75, 41, 7Y4	455	12-107, 108	
AR7	Vol.	33-5268	18	UM161-SS27	M26			61-0089 .003	24/15	FPT328 Buffer	B14	83-0025	500P	C3	6 7A7, 6A7, 75, 41, 7Y4	455	12-107, 108	
AR8	Vol.	33-5268	17	UM161-SS25	M26			61-0089 .003	24/15	FPT328 Buffer	B14	83-0025	500P	C3	7 7A7, 6A7, 75, 7A4, 6Y7G, 7Y4	455	12-109	
AR9	Vol.	67-0032-2	18	SM316				61-0089 .003	24/15	FPT328 Buffer	B14	83-0025	500P	C3	6 7L2, 7J7, 7A7, 7B6, 7C5, 7Y4	455	12-110	
AR45	Vol.		18	‡			A3	61-0089 .003	24/15	FPT328 Buffer	B14		500P	C3	6 7A7, 7B8, 7B6, 7C5, 7Y4	455		
AR55	Vol.		18	‡			A3	61-0089 .003	24/15	FPT328 Buffer	B14		500P	C3	6 7A7, 7B8, 7B6, 7C5, 7Y4	455		
B	Vol.	7525	16	O	7	EB247		30-2030 04354 .006	1 14/15	SR638 Buffer	B14	38-5036	500P	C3	6 36, 85, 41, 84	260	6-89,90	
B6	Vol.	7525	16	O	7	EB247		04354 .006	14/15	See Note	B133				5 36, 85, 41	260	3-55	
C	Vol.	38-5280	18	TRP603	6	FS252	A52	30-2015 30-2027 .01	1 15	CM172 BB15 Buffer	B14	38-5036	500P	C3	6 39, 6A7, 75, 42, 84	260	4-56,57	
C (Nash) (AC989)	Vol.	38-5280	19	TRP603	6	FS252	A52	30-2015 30-4065 .006	1 15	CM172 BB15 Buffer	B14	38-5036	500P	C3	6 34, 6A7, 75, 42, 84	260	6-79,80	
C (122)	Vol.	38-5851	18	TRP605	6	FS251	A51	30-2015 30-4065 .01	1 15	CM172 BB15 Buffer	B14	38-5036	500P	C3	6 39, 6A7, 75, 42, 84	260	5-5,6	
C6 (Chrysler) CT2, CT5	Vol.	33-5088	17	TRP614	6			30-2107 30-2076 .01	1 15	SR642 TN111 Buffer	B14	38-5036	500P	C3	6 36, 77, 44, 75, 42, 84	260	6-67,68	
C1423 (Chrysler)	Vol.	33-5139	18	SRP282			A67	30-2179 .008	4	SR645 Buffer	B14	41-3170	505P	C3	7 78, 6A7, 75, 41, 84	260	9-45	
C1450	Vol.	33-5121	18	SRP282				30-2179 .008	4	SR645 Buffer	B14	41-3170	505P	C3	6 78, 6A7, 75, 41, 84	260	8-146	
C1452	Vol.	33-5121	18	SRP282				30-2179 .008	4	SR645 Buffer	B14	41-3170	505P	C3	6 78, 6A7, 75, 41, 84	260	8-147	
C1550 (Chrysler)	Vol.	33-5257	17	SRP291				30-2179 .0075	4	SR645 Buffer	B14	41-3170	505P	C3	6 78, 6A7, 75, 42, 84	260	9-53,54	
C1606 (Chrysler)	Vol.	67-0010	18	‡			See Note A3	61-0022 .015	4	2S567 Buffer	B14	41-3398	508P	C3	5 6A7, 78, 75, 41, 84	400	10-49, 50	
C1608 (Chrysler)	Vol.	67-0003	18	Order from	Mr.			61-0009 .0075	4	2S567 Buffer	B14	41-3170	505P	C3	6 78, 6A7, 75, 42, 84	470	10-51, 52	
C1708	Vol.	67-0022	18	Order from	Mr.			61-0072 .002	24/15	FPQ435 Buffer	B69 B14	83-0017	509P	C3	6 7A7, 7B8, 7B6, 7B5, 7Y4	455	12-112	
C1808	Vol.	67-0040	18/22	Order from	Mr.			61-0150 .005	24/13/15	FPQ421 Buffer	B11	83-0027	509P		8 7A7, 7B8, 7B6, 7A4, 7C5, 7Y4	455		
CDS	Vol.	38-5280	19	TRP603	6	FS252	A52	30-2015 30-4065 .006	1 15	CM172 BB15 Buffer	B14	38-5036	500P	C3	6 34, 6A7, 75, 41, 84	260	6-79,80	
CT2 (Chrysler DeLuxe)	Vol.	33-5088	17	TRP614	6			30-2107 30-2076 .01	1 15	SR642 TN111 Buffer	B14	38-5036	500P	C3	6 36, 77, 44, 75, 42, 84	260	6-67,68	
CT5 (Chrysler Air-flow DeLuxe)	Vol.	33-5088	17	TRP614	6			30-2107 30-2076 .01	1 15	SR642 TN111 Buffer	B14	38-5036	500P	C3	6 36, 77, 44, 75, 42, 84	260	6-95	
CT11 (Chrysler)	Vol. Tone	33-5121 33-5129	17 22	SRP282 CAMP				30-2134 .01	4	CM172 Buffer	B14	38-5036	500P	C3	6 78, 6A7, 75, 41, 84	260	7-3,4	
CU & CV (Chrysler) (Code 122)	Vol.	33-5067	17	TRP614	6			30-2030 30-2076 .01	1 15	SR638 TN111 Buffer	B14	38-5036	500P	C3	6 34, 77, 75, 42, 84	260	6-62,64	
CZ (Chrysler) (CT2, CT5)	Vol.	33-5088	17	TRP614	6			30-2107 30-2076 .01	1 15	SR642 TN111 Buffer	B14	38-5036	500P	C3	6 36, 77, 44, 75, 42, 84	260	6-67,68	
D (Nash) (AC989)	Vol.	38-5280	19	TRP603	6	FS252	A52	30-2015 30-4065 .006	1 15	CM172 BB15 Buffer	B14	38-5036	500P	C3	6 34, 6A7, 75, 41, 84	260	6-79,80	
D (Code 122) (AC989 Code 122)	Vol.	38-5935	18	TRP605	6	FS252	A52	30-2015 30-4065 .006	1 15	CM172 BB15 Buffer	B14	38-5036	500P	C3	6 34, 6A7, 75, 41, 84	260	6-78,80	
DP (Code DP121, DP122) Police	Vol.	38-5606	18	N	6			30-2072 .006	1/15	CM172/BB12 Buffer	B14	38-5036	500P	C3	6 34, 77, 75, 41, 84	260	8-136	
DPV	Vol.	38-5534	17	N	6	FS251	A51	30-2072 .01	1/15	CM172/BB12 Buffer	B14	38-5036	500P	C3	6 34, 6A7, 75, 42, 84	260	8-136	

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
PHILCO—Continued DU (Dodge) (CT2, CT5)	Vol.	33-5088	17	TRP614	6			30-2107	1	SR642		38-5036	500P	C3	6	36, 77, 44, 75, 42, 84	260	6-67, 68	
E	Vol.	38-5280	18	TRP603	6	FS252	A52	30-2076	15	TN111									
E-10 (Pierce-Arrow)	Vol.	38-5511	19	TRP603	6	FS251	A51	30-2015	1	Buffer	B14	38-5036	500P	C3	6	39, 6A7, 75, 42, 84	260	4-56, 57	
E (122)	Vol.	38-5851	18	TRP605	6	FS251	A51	30-2027	15	BB15									
EA Dynamotor EF Eliminator								30-2015	1	CM172		38-5036	500P	C3	6	44, 6A7, 75, 42, 84	260	6-79	
F1440	Vol.	33-5139	18	SRP282			A67	30-4065	15	BB15									
F1442	Vol.	33-5139	18	SRP282			A67	30-2015	1	Buffer	B14								
F1540 (Ford)	Vol.	33-5260	18	SM300				30-2076	15	SR645		41-3170	505P	C3	6	78, 6A7, 75, 41, 84	260	8-144	
F1640	Sen. Vol.	67-0008	17	C1MP		EX450	A68	30-2168	4	SR645		41-3170	505P	C3	6	78, 6A7, 75, 41, 81	260	8-145	
F1641	Vol.	67-0018	18	Order from Mfr.				30-2295	4	Buffer	B14	41-3170	505P	C3	6	78, 6A7, 75, 42, 84	260	9-49	
F1740	Vol.	67-0026	18	TM225	M26		A96	61-0028	1/15	FPT328		41-3398	508P		6	78, 6A7, 75, 42, 84	470	10-59	
F1840	Vol.	67-0042	18	Order from Mfr.				61-0028	24/15	FPT328		41-3398	508P	C3	6	7A7, 7B8, 7B6, 41, 84	470	12-111, 108	
FT6	Tone Vol.	85-0128	22	TRP614	6			61-0089	24/15	FPT328		83-0017	509P	C3	6	7A7, 7B8, 7B6, 7C5, 7Y1	455		
FT9 (Ford)	Vol.	33-5139	18	SRP282			A67	30-2030	1	Buffer	B14	38-5036	500P	C3	6	44, 77, 75, 42, 84	260	6-59, 60	
FT9X	Vol.	33-5139	18	SRP282			A67	30-2076	15	TN111									
G (121)	Vol.	33-5056	18	EC512	6			30-2134	4	CM172		38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	6-61	
G (Code 122)	Vol.	33-5067	17	TRP614	6			30-2134	4	CM172		38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	6-61	
G1418	Vol.	33-5139	18	SRP282			A67	30-2030	1	SR638		38-5036	500P	C3	6	44, 6A7, 75, 41, 84	260	5-1, 4	
G1436	Tone	33-5139	18	SRP282			A67	30-2063	15	BB15									
G1528 (Graham)	Vol.	33-5245	17	SRP290			A67	30-2030	1	Buffer	B14	38-5036	500P	C3	6	44, 77, 75, 42, 84	260	6-62	
H	Vol.	38-5534	18	N	6	FS251	A51	30-2076	15	TN111									
H (Code 122)	Vol.	38-5851	18	TRP605	6	FS251	A51	30-2150	4	SR639		41-3170	505P	C3	6	78, 6A7, 75, 41, 84	260	8-131	
HT11X	Vol.	33-5121	18	SRP282				30-2168	4	SR645		41-3170	505P	C3	6	78, 6A7, 75, 41, 84	260	8-142	
J (Nash)	Vol.	33-5058	18	O	6	FS252	A52	30-2258	4	SR645		41-3170	505P	C3	7	78, 6A7, 75, 41, 84	260	9-43, 44	
J (Code 122)	Vol.	38-5534	18	N	6	FS251	A51	30-2015	1	CM172		38-5036	500P	C3	7	41, 6A7, 75, 37, 79, 81	260	6-75	
L1420, L1424, L1425	Vol.	33-5202	18	SRP282			A67	30-4135	14/15	CM172/TP420	B135								
L1427, L1429, L1460	Tone	33-5202	18	SRP282			A67	30-2015	1	CM172		38-5036	500P	C3	7	41, 6A7, 75, 37, 79, 81	260	6-74	
L1560 (Lincoln Zephyr)	Vol.	33-5246	18	SRP282			A67	30-2134	4	CM172		41-3186	507P	C3	6	78, 6A7, 75, 41, 84	260	7-8, 9	
L1660 (Lincoln Zephyr)	Sen. Vol.	33-5264-4	8	UM161	M26		A96	30-2015	1	CM172		38-5036	500P	C3	6	44, 77, 75, 42, 84	260	6-83, 84	
LT14X3, LT14X4	Vol.	33-5139	18	SRP282				7440	15	BB12									
ME (Pierce-Arrow)	Vol.	38-5280	19	TRP603	6	FS252	A52	30-2072	1/15	CM172/BB12		38-5036	500P	C3	6	44, 77, 75, 42, 84	260	6-43, 44	
MED	Vol.	38-5511	19	TRP603	6	FS251	A51	30-2167	1	SR638	B175	41-3170	505P	C3	6	78, 6A7, 75, 79, 84	260	8-132, 133	
								30-4193	15	Buffer	B14	41-3170	505P	C3	7	78, 6A7, 75, 37, 79, 84	260	8-135	
								38-7693	4	CM172		38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	7-9, 10	
								30-2015	1	Buffer	B14	38-5036	500P	C3	6	44, 6A7, 75, 42, 84	260		
								30-2027	15	BB15									
								30-2015	1	CM172		38-5036	500P	C3	6	44, 6A7, 75, 42, 84	260	6-79	
								30-4065	15	BB15									
								30-2015	1	Buffer	B14								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued MED (122)	Vol.	38-5851	18	TRP605	6	FS251	A51	30-2015 30-4065 .01	1 15	CM172 BB15 Buffer	B14	38-5036	500P	C3	6 39, 6A7, 75, 42, 84	260	5-5,6	
MT3 (Pierce-Arrow DeLuxe)	Vol.	38-6297	17	TRP605	6	FS251	A51	30-2105 30-2106 .01	1 15	CM172 TN111 Buffer	B14	38-5036	500P	C3	6 36, 77, 44, 75, 42, 84	260	6-99	
MT14X4 (Pierce- Arrow)	Vol.	33-5121	18	SRP282				30-2134 .01	4	CM172 Buffer	B14	38-5036	500P	C3	6 78, 6A7, 75, 41, 84	260	6-97,96	
N (Ford Center- Control)	Vol.	33-5067	17	TRP614	6			30-2030 30-2076 .01	1 15	SR638 TN111 Buffer	B14	38-5036	500P	C3	6 44, 77, 75, 42, 84	260		
N1418	Vol.	33-5139	18	SRP282			A67	30-2150 .0075	4	SR639 Buffer	B14	41-3170	505P	C3	6 78, 6A7, 75, 41, 84	260	8-131	
N1433H	Vol.	33-5139	18	SRP282			A67	30-2168 .008	4	SR645 Buffer	B14	41-3170	505P	C3	6 78, 6A7, 75, 41, 84	260	8-140	
N1434H	Vol.	33-5139	18	SRP282			A67	30-2179 .008	4	SR645 Buffer	B14	41-3170	505P	C3	6 78, 6A7, 75, 41, 84	260	8-111	
N1514	Vol.	33-5139	18	SRP282			A67	30-2150 .0075	4	SR639 Buffer	B14	41-3170	505P	C3	6 78, 6A7, 75, 41, 84	260	9-34	
N1524 (Nash)	Vol.	33-5245	17	SRP290				30-2258 .0075	4	SR645 Buffer	B14	41-3170	505P	C3	7 78, 6A7, 75, 41, 84	260	9-39,10	
N-FND	Vol.	33-5067	17	TRP614	6			30-2030 30-2076 .01	1 15	SR638 TN111 Buffer	B14	41-3186	507P	C3	6 44, 77, 75, 42, 84	260	8-4,5	
NQD (Nash)	Vol.	38-5606	18	N	6			30-2072 .01	1/15	CM172/BB12 Buffer	B14	38-5036	500P	C3	6 44, 77, 75, 42, 4	260	6-85,86	
NT7, NT8	Vol.	38-6605	18	TRP605		FS251	A58/	30-2109 .01	4	CM172 Buffer	B14	38-5036	500P	C3	6 78, 6A7, 75, 41, 84	260	6-48,49	
NT12X, NT12X2	Vol.	33-5139	18	SRP282			A67	30-2134 .01	4	CM172 Buffer	B14	38-5036	500P	C3	6 78, 6A7, 75, 41, 84	260	7-5,6	
NT15 (Nash)	Vol.	33-5129	7	CIMP			A68	30-2145 .01	4	CM170 Buffer	B14	38-5036	500P	C3	6 78, 6A7, 75, 41, 84	260	7-11,12	
P1417	Vol.	33-5139	18	SRP282			A67	30-2150 .0075	4	SR639 Buffer	B14	41-3170	505P	C3	6 78, 6A7, 75, 41, 84	260	8-127	
P1421	Vol.	38-7968	18	TRP605		FS251	A51	4-8 30-4473 .008	1 13/15	SR638 BB15 TN111 Buffer	B175 B195 B14	41-3170	505P	C3	7 78, 6A7, 75, 37, 79, 84	260	7-143, 144	
P1426 (Packard)	Vol.	38-8596	18	Order from	Mfr.			30-2167 .008	1	SR638 Buffer	B175 B14	41-3170	505P	C3	7 78, 6A7, 75, 37, 79, 84	260	8-134	
P1430, P1432H	Vol.	33-5121	18	SRP282				30-2168 .008	4	SR645 Buffer	B14	41-3170	505P	C3	6 78, 6A7, 75, 41, 84	260	8-138	
P1517 (Packard)	Vol.	33-5139	18	SRP282			A67	30-2150 .0075	4	SR639 Buffer	B14	41-3170	505P	C3	6 78, 6A7, 75, 41, 84	260	8-139	
P1530 (Packard)	Vol.	33-5245	17	SRP290			A67	30-2257 .0075	4	SR645 Buffer	B14	41-3170	505P	C3	6 78, 6A7, 75, 41, 84	260	9-37	
P1535 (Packard)	Vol.	33-5246	17	SRP282			A67	30-2167 .0075	1	SR638 Buffer	B175 B14	41-3170	505P	C3	7 78, 6A7, 75, 41, 84	260	9-46	
P1617 (Packard)	Vol.	67-0004-1	17	SM304				61-0018 .0075	4	25567 Buffer	B14	41-3170	505P	C3	6 78, 6A7, 75, 6C6, 6Y7G, 84	260	9-47	
P1630 (Packard)	Vol.	33-5264	8	CIMP		EX450	A68	61-0012 .0075	1/15	38579 Buffer	B14	41-3170	505P	C3	6 78, 6A7, 75, 41, 7Y4	470	10-53,54	
P1635 (Packard)	Vol.	33-5264	8	Order from	Mfr.			61-0012 .0075	1/15	38579 Buffer	B14	41-3170	505P	C3	6 78, 6A7, 75, 42, 84	470	10-56	
P1635	Vol.	67-0005	17	CIMP		EX450	A68	61-0012 .0075	1/15	38579 Buffer	B14	41-3170	505P	C3	7 78, 6A7, 75, 6C6, 6Y7G, 84	470	10-57	
P1835	Vol. & Tone	33-5278-4	8	C				61-0012 .0075	1/15	38579 Buffer	B14	41-3170	505P	C3	7 78, 6A7, 75, 6C6, 6Y7G, 84	470	10-57	
PA (Packard DeLuxe)	Vol.	7525	16	Order from	Mfr.			61-0150 .005	24/13/15	FPQ421 Buffer	B14	83-0027	509P	C3	8 7A7, 7B8, 7B6, 7A4, 7C5, 7Y4	270		
PAD, PAL	Vol.	7525	16	O	7	EB247		30-2030 04354 .006	1 14/15	SR638 See Note Buffer	B133 B14	38-5036	500P	C3	7 36, 85, 37, 79, 84 6 36, 37, 85, 79	260	6-87,88	
PB (Packard)	Vol.	7525	16	O	7	EB247		30-2030 .006	1 14/15	SR638 See Note Buffer	B133 B14	38-5036	500P	C3	6 36, 85, 41, 84	260	6-89,90	
PBD	Vol.	7525	16	O	7	EB247		30-2030 .006	1 14/15	SR638 See Note Buffer	B133 B14	38-5036	500P	C3	6 36, 85, 41, 84	260	6-89,90	
PHD, PHXD (Packard)	Vol.	38-6022	18	TRP605	6	FS251	A51	30-2015 30-4135 .01	1 14/15	CM172 CM172/TP420 Buffer	B135 B14	38-5036	500P	C3	7 44, 6A7, 75, 37, 79, 84	260	6-91,93	
PJ (Plymouth) (CT2, CT5)	Vol.	33-5088	17	TRP614	6			30-2107 30-2076 .01	1 15	SR642 TN111 Buffer	B14	38-5036	500P	C3	6 36, 77, 44, 75, 42, 84	260	6-67,68 6-95	
PT2	Vol.		18	MR48	M26			20-20	1	2N509 Buffer	B14				5 7A8, 7B7, 7C6, 50L6GT, 35Z3	455	12-43	
PT5 (130) Packard DeLuxe	Vol.	33-5088	17	TRP614	6			30-2107 30-2076 .01	1 15	SR642 TN111 Buffer	B14	38-5036	500P	C3	6 36, 77, 44, 75, 42, 84	260	6-95	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replace- ment	*Note				
PHILCO—Continued																		
PT6	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 50L6GT, 35Z3	455	12-43
PT12	Vol.	33-5434	18	MR48	M26			30-2382	1	2N509					6	7C7, 7A8, 7B7, 7C6, 50L6GT, 35Z3	455	12-44
PT14 (Puckard)	Vol.	33-5121	18	SRP282				30-2134 .01	4	CM172 Buffer	B14	38-5036	500P	C3	6	7B8, 6A7, 75, 41, 84	260	6-97,98
PT25	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-4
PT26	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-4
PT27 (121, 122)	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-4
PT28	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-4
PT29	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-5
PT30	Vol.	35-5306	18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 50L6GT, 35Z3	455	12-45,46
PT31	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-5
PT33	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-5
PT35	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-6
PT36	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-4
PT37	Vol.	33-5306	18	MR48	M26			30-2402	1/15	3N534					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-6,100
PT38	Vol.	33-5306	18	MR48	M26			30-2402	1/15	3N534					5	7A8, 7B8, 7C6, 35A5, 35Z3	470	12-6,100
PT39	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-4
PT41	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-5
PT42	Vol.	33-5306	18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 50L6GT, 35Z3	455	12-45,46
PT43	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-7
PT44	Vol.	33-5306	18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 50L6GT, 35Z3	455	12-45,46
PT45	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-7
PT46	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-8
PT47	Vol.		18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35Z3, 35A5	470	12-7
PT48	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-8
PT49	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-45,46
PT50	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-6
PT51	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-8
PT53	Vol.	33-5306	18	MR48	M26			30-2402	1/15	3N534					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-6,100
PT55	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-7
PT57	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-9
PT59	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-9
PT61	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-5
PT63	Vol.	33-5331	18	UM161	M27	A96		30-2396	12	BB22				4	1A7G, 1N5G, 1H5G, 1A5G	455	12-10,18	
PT65	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-9
PT66	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-10
PT67	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35Z3, 35A5	455	12-11
PT69	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-11
PT87	Vol.		18	MR48	M27			20-10-20-20	76/78	2-2N509					5	1A7G, 1N5G, 1H5G, 3Q5G, 117Z6G	455	12-46
Q	Vol.	38-5534	18	N	6	FS251	A51	30-2072 .01	1/15	CM172/BB12 Buffer	B14	38-5036	500P	C3	6	44, 77, 75, 42, 84	260	5-47,48
Q (Nash)	Vol.	38-5606	18	N	6			30-2072 .01	1/15	CM172/BB12 Buffer	B14	38-5036	500P	C3	6	44, 77, 75, 42, 84	260	6-85
R	Vol.	33-5058	18	O	6	FS252	A52	30-2015 7440 .01	1 15	CM172 BB12 Buffer	B14	38-5036	500P	C3	6	44, 77, 75, 42, 84	260	6-103

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Blas	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
R (Code 122)	Vol.	38-5534	18	N	6	FS251	A51	30-2072 .01	1/15	CM172/BB12 Buffer	B14	38-5036	500P	C3	6	44, 77, 75, 42, 84	260	6-43,44
R1415, W1419	Vol.	33-5139	18	SRP282			A67	30-2150 .0075	4	SR639 Buffer	B14	41-3170	505P	C3	6	78, 6A7, 75, 41, 84	260	8-125, 8-126
RP1 (123, 122) Record Player								30-2388 35-2394	24 24	2N502 2N502	B12				2	6A7, 84		12-40& 10-12
RP3 Wireless Record Player	Vol.	33-5322	50	UM161-SS3				30-2388	24	2N502					2	6A7, 84		11-5
RT3 (Reo DeLuxe)	Vol.	38-6297	17	TRP605	6	FS251	A51	30-2105 30-2106 .01	1 15	CM172 TN111 Buffer	B14	38-5036	500P	C3	6	36, 77, 44, 75, 42, 84	260	6-99
RT14X (Reo DeLuxe)	Vol.	33-5139	18	SRP282		See Note	A67	30-2134 .01	4	CM172 Buffer	B14	38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	6-97,98
S1416	Vol.	33-5148	18	SRP282			A67	30-2150 .0075	4	SR639 Buffer	B14	41-3170	505P	C3	6	78, 6A7, 75, 41, 84	260	8-115
S1431	Vol.	33-5139	18	SRP282		See Note	A67	30-2168 .008	4	SR645 Buffer	B14	41-3170	505P	C3	6	78, 6A7, 75, 41, 84	260	7-145, 7-146
S1437	Vol.	33-5139	18	SRP282			A67	30-2179 .008	4	SR645 Buffer	B14	41-3170	505P	C3	6	78, 6A7, 75, 41, 84	260	8-113
S1516 (Studebaker)	Vol.	33-5139	18	SRP282			A67	30-2150 .0075	4	SR639 Buffer	B14	41-3170	505P	C3	6	78, 6A7, 75, 41, 84	260	9-35
S1526 (Studebaker)	Vol.		17	SRP291				30-2258 .0075	4	SR645 Buffer	B14		505P	C3	7	78, 6A7, 75, 41, 84	260	9-41
S1616	Vol.	67-0014	17	‡			A19	61-0018 .0075	1	2S567 Buffer	B14	41-3398	505P	C3	6	7A7, 6A7, 75, 41, 7Y4	470	10-48
S1622 (Studebaker)	Vol.	67-0015	18	UM161	M26		A96	61-0050 .006	1/15	FPT328 Buffer	B14	41-3398	508P	C3	6	7A7, 7B8, 78, 7B6, 41, 84	470	10-55
S1722	Vol.	67-0027	18	UM151-SS31	M26			61-0076 .006	24/15	FPT313 Buffer	B14	83-0017	509P	C3	6	7A7, 7B8, 78, 7B6, 7A5, 84	470	11-87
S1825	Vol.	67-0039	18	Order from	Mfr.			61-0072 .005	24/15	FPO435 Buffer	B69	83-0027	509P	C3	6	7A7, 7B8, 7B6, 7B5, 7Y4	455	
S1826	Vol. Tone	67-0037 67-0038	18 22	Order from	Mfr.			61-0150 .005	24/13/15	FPO421 Buffer	B14	83-0027	509P	C3	8	7A7, 7B8, 7B6, 7A4, 7C5, 7Y4	270	
SCD	Vol.	38-5280	19	TRP603	6	FS252	A52	30-2015 30-4065 .006	1 15	CM172 BB15 Buffer	B14	38-5036	500P	C3	6	44, 6A7, 75, 42, 84	260	6-78,79
SCD (122)	Vol.	38-5851	18	TRP605	6	FS251	A51	30-2015 30-4065 .01	1 15	CM172 BB15 Buffer	B14	38-5036	500P	C3	6	39, 6A7, 75, 42, 84	260	5-56
SDD	Vol.	38-5280	19	TRP603	6	FS252	A52	30-2015 30-4065 .006	1 15	CM172 BB15 Buffer	B14	38-5036	500P	C3	6	44, 6A7, 75, 41, 84	260	6-79,80
SE (DeSoto)	Vol.	33-5067	17	TRP614	6			30-2030 30-2076 .01	1 15	SR638 TN111 Buffer	B14	38-5036	500P	C3	6	44, 77, 75, 42, 84	260	6-62,65
SF, SG (DeSoto) (CT2, CT5)	Vol.	33-5088	17	TRP614	6			30-2107 30-2076 .01	1 15	SR642 TN111 Buffer	B14	38-5036	500P	C3	6	36, 77, 44, 75, 42, 84	260	6-67,68
SJD (122)	Vol.	38-5534	18	N	6	FS251	A51	30-2072 .01	1/15	CM172/BB12 Buffer	B14	38-5036	500P	C3	6	44, 77, 75, 42, 84	260	6-43,44
SJD (Nash)	Vol.	38-5606	18	N	6			30-2072 .01	1/15	CM172/BB12 Buffer	B14	38-5036	500P	C3	6	44, 77, 75, 42, 84	260	6-85,86
ST7	Vol. Tone	38-6605 33-5101	18 22	TRP605 L		FS251	A58/ A51	30-2109 .01	4	CM172 Buffer	B14	38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	6-48,52
ST12 (Studebaker)	Vol.	33-5139	18	SRP282		See Note	A67	30-2134 .01	4	CM172 Buffer	B14	38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	7-78
ST15 (Studebaker)	Vol.	33-5139	18	SRP282		See Note	A67	38-7684 .01	4	2S567 Buffer	B14	38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	7-13,14
T2	Vol.	33-5088	17	TRP614				30-2107 30-2076 .01	1 15	SR642 TN111 Buffer	B14	38-5036	500P	C3	6	36, 77, 44, 75, 42, 84	260	6-67,68
T3	Vol.	38-6297	17	TRP605	6	FS251	A51	30-2105 30-2106 .01	1 15	CM172 TN111 Buffer	B14	38-5036	500P	C3	6	36, 77, 44, 75, 42, 84	260	6-99, 102
T5	Vol.	33-5088	17	TRP614	6			30-2107 30-2076 .01	1 15	SR642 TN111 Buffer	B14	38-5036	500P	C3	6	36, 77, 44, 75, 42, 84	260	6-68
T6	Vol.	33-5067	17	TRP614	6			30-2030 30-2076 .01	1 15	SR638 TN111 Buffer	B14	38-5036	500P	C3	6	44, 77, 75, 42, 84	260	6-59
T7	Vol. Tone	38-6786 33-5101	18 22	TRP605 L		FS251	A51	30-2109 .01	4	CM172 Buffer	B3 B14	38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	6-49
T8 (Nash)	Vol. Tone	38-6605 33-5101	18 22	TRP605 L		FS251	A51 A58	30-2109 .01	4	CM172 Buffer	B3 B14	38-5036	550P	C3	6	78, 6A7, 75, 41, 84	260	6-48,49
T9	Vol.	33-5139	18	SRP282			A67	30-2134 .01	4	CM172 Buffer	B14	38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	6-61
T10, CT10	Vol.	33-5121	18	SRP282				38-7693 .01	4	CM172 Buffer	B14	41-3186	507P	C3	6	78, 6A7, 75, 41, 84	260	8-78

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
T11	Vol. Tone	33-5121	17	SRP282				30-2134	4	CM172 Buffer	B14	38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	7-3
		33-5141	34	Order from	Mfr.			30-2134	4	CM172 Buffer	B14	38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	7-5
T12	Vol.	33-5139	18	SRP282		A67		30-2134	4	CM172 Buffer	B14	38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	6-97,98
T14	Vol.	33-5139	18	SRP282		A67		30-2134	4	CM172 Buffer	B14	38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	7-13
T15	Vol.	33-5139	18	SRP282		A67		38-7684	4	2S567 Buffer	B14	38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	7-13
								31116	8	TN125/BB12					4	6D6, 6C6, 43, 25Z5		
TH1	Vol.	49115	8	MR37	M26	A14		30-2327	25	RS215					5	6A7, 78, 75, 41, 84	470	11-3,4
TH3	Vol.	33-5254	18	MR48	M26			30-2328	25	RS213					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-6
TH4, TH4T	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-8
TH5, TH5T	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-8
TH9	Vol.	33-5306	18	MR48	M26			30-2402	1/15	3N534					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-2,100
TH14	Vol.	33-5306	18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-2,1
TH15	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-2,1
TH16	Vol.	33-5306	18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-1,3
TH17	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-1,2
TH18	Vol.	33-5306	18	MR48	M26			30-2402	1/15	3N534					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-1,3
TH22	Vol.	33-5306	18	MR48	M26			30-2402	1/15	3N534					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-2,100
TP4, TP4I	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-7
TP5, TP5I, TP5T	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-9,10
TP10	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-11
TP11	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-11
TP12	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-12
TP20	Vol.	33-5306	18	MR48	M26			20-20	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	470	11-13
TP21	Vol.	33-5306	18	MR48	M26			30-2382	1	2N509					5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-1,2
															5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-1,3
3 Transitone	Vol.	4463	15	O				4916	1	HD684					7	24A, 71A, 801A	1000	3-1,2
4 Converter								30-2008	1	CM172		38-5036	500P	C3	5	37, 24A, 80	460	2-1,2
5 Transitone	Vol.	33-5009	17	N	6	EC240	A72	30-4017	1	See Note	B136				5	6A7, 78, 75, 41, 84	460	3-8,9
								.006	1	Buffer	B14							
5 (AC Home Receiver)	Vol.		2	†		See Note	A5		34	See Note	B3				7	26, 27, 71A, 80		4-53,55
6, 6F	Vol.	7525	16	O	7	EB247		04354	14/15	See Note	B133				5	36, 85, 41	260	3-55
7 Transitone	Vol.	6109	15	L	7	EB247		04354	14/15	See Note	B133				5	36, 38	175	3-3,4
8	Vol.	7322	16	N	7	EB247									6	36, 38, 41	175	3-5,7
9 Transitone	Vol.	7525	16	O	7	EB247									6	36, 85, 37, 79	260	3-56
																		4-52
10 Transitone	Vol.	38-5280	18	TRP603	6	FS252	A52	30-2015	1	CM172		38-5036	500P	C3	6	39, 6A7, 75, 42, 84	260	4-56,57
								30-2027	15	BB15 Buffer	B14							
								.01										
10 (Code 122) C-(Studebaker) E-(Pierce-Arrow)	Vol.	38-5851	18	TRP605	6	FS251	A51	30-2015	1	CM172		38-5036	500P	C3	6	39, 6A7, 75, 42, 84	260	5-5,6
								30-4065	15	BB15 Buffer	B14							
								.01										
11 Transitone	Vol.	33-5058	18	O	6	FS252	A52	30-2015	1	CM172		38-5036	500P	C3	6	44, 77, 75, 42, 84	260	5-7,8
								7440	15	BB12 Buffer	B14							
								.01										
11 (Code 122)	Vol.	38-5534	18	N	6	FS251	A51	30-2072	1/15	CM172/BB12 Buffer	B14	38-5036	500P	C3	6	44, 77, 75, 42, 84	260	6-43,44
								.01										
12	Vol.	7322	15	N	7	EB247									6	36, 38, 41	175	3-5,7
12 (122)	Vol.	7525	15	O	7	EB247									6	36, 85, 37, 79	260	3-56
																		4-52
12TP	Vol. Tone	33-5230	18	MR48	M26			30-2235	23	HD684					5	6A7, 78, 75, 41, 84	470	11-14,15
		33-5330	22	MR33				30-2236	23	RS213								
14 (Code 121 & 122) (Runs 1-4)	Vol.	33-5024	64	TRP605	6		A58	30-2022	1	HD683					9	78, 6A7, 37, 77, 42, 80	175	4-1,2
								30-2003	19	BB13								
								30-2029	13/14	UR181	B137							
14 (Codes 121, 122) (Runs 5 & after)	Vol.	33-5024	64	TRP605	6		A58	30-2025	1	SR643					9	78, 6A7, 37, 77, 42, 80	175	4-1,2
								30-2045	1/19	2N518								
								30-2029	13/14	UR181	B137							

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Blas	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
14 (123)	Vol.	33-5024	64	TRP605	6		A58	7464	1	SR643					9	78, 6A7, 37, 77, 42, 80	175	4-1,2
								30-2003	19	BB13								
14 (126-226)	Vol.	8054	64	TRP605	6			30-2029	13/14	UR181	B137							
								4916	1	HD684					9	44, 36, 37, 42, 80	260	2-21,22
15 (Early 221)	Vol.	7050	64	N				7464	1	SR643								
								6706	1	SR643					11	437, 444, 442, 80	175	3-29,30
15 (Early 223) 15 Late	Vol.	8054	64	TRP605				30-2025	1	SR643								
16	Vol. Supp.	33-5022	64	TRP618	6		A53	4916	1	HD684					11	437, 444, 442, 80	175	3-10,12
		33-5015	12	GI2			A58	30-2069	1	HD683					11	37, 477, 478, 442, 80, 76	460	4-3,11
16 (Codes 121, 122, 123)	Vol. Supp.	33-5022	64	TRP618	6		A58	30-2069	1	HD683					11	37, 477, 478, 442, 80, 76	460	4-3,10
		33-5015	12	GI2				30-2045	1/19	2N518								
16 (Codes 125, 126, 127)	Vol.	33-5022	64	TRP618	6		A58	30-2069	1	HD683					11	478, 477, 37, 76, 442, 80 or 5Z3	460	6-1,3
								30-2045	1/19	2N518								
17	Vol. Supp.	33-5013	64	TRP604	6		A27/A58	30-2022	1	HD683	B149				11	6A7, 337, 77, 478, 442, 5Z3	175	4-9,14
		33-5023	64	TRP618		See Note	A4	30-2078	13/14	UR181								
17 (Code 121)	Vol. Supp.	33-5013	64	Order from Mfr.		See Note	A58	30-2011	1	HD683					11	478, 6A7, 437, 442, 5Z3, 77	175	4-9,14
		33-5023	64	TRP618	6	See Note	A4	30-2045	1/19	2N518								
17, 17A (Codes 122 & 123)	Vol. Supp.	33-5013	64	Order from Mfr.		See Note	A58	30-2011	1	HD683					11	478, 6A7, 437, 442, 5Z3 or 80, 77	175	4-9,14
		33-5023	64	TRP618	6		A4	30-2046	1/19	2N518								
18	Vol.	33-5024	18	TRP605	6		A58	6706	1	SR643					8	6A7, 478, 75, 442, 80	260	4-15,17
								30-2003	19	BB13								
18 (Codes 121 & 122)	Vol.	33-5024	18	TRP605	6		A58	30-2029	13/14	UR181	B137				8	6A7, 478, 75, 442, 80	260	4-15,17
								6706	1	SR643								
18 (Code 124)	Vol.	33-5069	124	TRP605			A58	30-2045	1/19	2N518					8	6A7, 478, 75, 442, 80	260	5-9,10
								30-2029	13/14	UR181	B137							
19	Vol.	33-5004	18	N	6			30-2025	1	SR643					8	6A7, 75, 478, 442, 80	260	5-9,10
19 (Codes 122, 126, 126B)	Vol.	33-5007	18	N				30-2045	1/19	2N518					8	6A7, 75, 478, 442, 80	260	5-9,10
19 (Code 128)	Vol.	33-5000	18	TRP604				30-2029	13/14	UR181	B137				6	44, 36, 75, 42, 80	260	3-33,34
								8166	1	SR643					6	44, 36, 75, 42, 80	260	3-33,34
20, 20A, 21	Vol.	4094	2/8	DRP114		See Note	A56	30-2020	1	SR643					6	44, 36, 75, 42, 80	260	3-33,34
22	Vol.	6499	45	O				30-2026	1	HD684					6	36, 44, 75, 42, 80	260	4-19,20
								30-2062	1/13/19	2S567/BB13					6	44, 36, 75, 42, 80	260	4-19,20
22L	Vol.	6499	64	O				6453	1	SR643					7	44A, 27, 471A, 80		1-6,2-3
23X	Vol.	6499	64	O				6706	1	SR643					7	36, 37, 44, 42, 80	260	3-23,24
24	Vol.	5839	6	E7				6707	1	SR643					7	44, 36, 37, 42, 80	260	3-43
								6707	1	SR643					9	36, 37, 44, 80, 44	260	3-45
25	Vol.	6892	45	O	6		A58	4916	4	HD684				5	24A, 35, 47, 80	175	2-11,14	
								5142	4	HD684								
25	Vol.	6892	45	O	6		A58	4916	1	HD684					8	44, 37, 42, 80	450	3-13,14
								7556	13	HD684								
28	Vol.	33-5066	18	TRP605	6	EB247	A58	30-2083	49	SR643					6	6A7, 339, 75, 43, 25Z5	460	5-11,12
29, 29 (Code 123TX)	Vol.	33-5097	18	TRP605	6	EB247	A58	30-2073	1/19	3S579					6	6A7, 44, 75, 42, 80	460	5-11,15
								30-2026	13	HD684								
30	Vol.	4093	15	N				30-2014	25	HD683					8	32, 330, 331		1-7,2-5
32	Vol.		18	N		See Note	A27							6	39, 36, 75, 42, 84	260	5-17,20	
34, 34A	Vol.	33-5064	45	M	13	See Note	A4							7	30, 32, 34, 1C6, 19	460	5-21,24	
35, 35B, 36	Vol.	5317	43	CE		See Note	A54							5	15, 30, 32, 19	260	1-8,8-10	
37	Vol.	7239	43	CE		See Note	A54							9	5	175	3-19,20	
37-9	Vol.	33-5158	17	TM251-SS5		See Note	A58	30-2183	1/19	3S581				5	26K7G, 6A8G, 6N7G, 6H6G, 6Q7G, 6F6G, 5Y4G	470	8-11,12	
								30-2024	1	HD684								
37-10, 37-11 (Codes 121-125)	Vol.	33-5158	124	TM251-SS5			A58	30-2118	13	SR642	B8				11	26K7G, 6A8G, 6N7G, 6H6G, 6J5G, 6K5G, 6Q7G, 6F6G, 5Y4G	470	8-13,16
								30-2024	1	HD684								
37-33	Vol.	33-5169	18	MR48	M24		A55	30-2158	13	BB60				5	1D7G, 1D5G, 1H4G, 1E7G, 1H6G	470	7-15,16	
37-34	Vol.	33-5157	18	UM154-SS5			A58	30-2160	1	2N518		41-3222	951P	C3	1D7G, 1D5G, 1H6G, 1H4G, 1E7G	470	8-17,18	
37-38	Vol.	33-5165	45	UM154-SS5				01	13	UR181	B142			6	1C7G, 1D5G, 1H4G, 1E5G, 1J6G	470	7-17,18	
37-60	Vol.	33-5157	18	UM154-SS5				30-2117	25	SR644				5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	470	7-19,22	
								30-2024	25	HD684								
37-61	Vol.	33-5157	18	UM154-SS5				30-2118	14	SR642	B8			5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	470	7-23,25	
								30-2117	25	SR644								
								30-2024	25	HD684								
								30-2118	14	SR642	B8							

‡ Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			Nbr. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
37-62	Vol.	33-5198	18	MR48	M26			30-2192	1/19	3S579					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	470	8-19,20
37-84, Code 122	Vol.	33-5055	2	Y10MP	6			30-2013	1	SR638					4	6J7G, 6F6G, 5Y4G	470	7-27,28
37-89	Vol.	33-5157	18	UM154-SS5			A58	30-2117	25	SR644					6	6K7G, 6A8G, 6Q7G, 6F6G, 5Y4G	470	7-29,30
37-93	Vol.	33-5193	56	N	6			30-2024	25	SR644					5	6K7G, 6A8G, 6R7G, 6F6G, 5Y4G	470	8-21,22
37-116 (Codes 121, 122)	Vol. Exp.	33-5158	17	TM251-SS5				30-2026	1	SR644					15	6K7G, 6J5G, 6L7G, 6N7G, 6A8G, 6H6G, 6B8G, 6F6G, 5Y4G	470	7-31,36
		33-5172	15	UM154-SS5				30-2123	1/19	SR642								
								30-2169	13/14	3S584								
37-600	Vol.	33-5152	6	UM121-SS12	M26			30-2149	1	CM172					4	6A8G, 6J7G, 6K6G, 5Y4G	470	7-37,38
37-602	Vol.	33-5145	18	UM154-SS12	M26			30-2148	1/15	3N526					5	6A8G, 6K7G, 6Q7G, 25A6G, 25Z6G	470	7-39,40
37-604	Vol.	38-7630	18	Order from Mfr.				30-2154	41/15	3N526/BB21					5	6A8G, 6K7G, 6Q7G, 25A6G, 25Z6G	470	7-41,43
37-610 (Codes 121, 122)	Vol.	33-5158	124	TM251-SS5			See Note A58	30-2117	25	SR644					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	470	7-45,48
								30-2024	25	HD684								
								30-2118	12	SR642								
37-610 (Codes 125, 126)	Vol.	33-5158	124	TM251-SS5			A58	30-2117	25	SR644					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	470	7-45,48
								30-2024	25	HD684								
								30-2118	12	SR642								
37-611	Vol.	33-5166	124	TM251-SS5				30-2124	25	RS216					5	6A8G, 6K7G, 6Q7G, 25A6G, 25Z6G	470	7-49,50
								30-2166	25/15	RS207/BB12								
								30-2157	13/12	2N502								
37-620	Vol.	33-5158	18	TM251-SS5			See Note A58	30-2117	25	SR644					6	6K7G, 6A8G, 6Q7G, 6F6G, 5Y4G	470	7-51,54
								30-2024	25	HD684								
								30-2119	14	RS216								
								30-2161	12/13	3S582								
37-623	Vol.	33-5158	124	TM251-SS5			See Note A58	30-2160	1	2N518		41-3222	951P*	C3	6	1D5G, 1C7G, 1F7G, 1H6G, 1J6G	470	7-55,56
37-624	Vol.	33-5166	124	TM251-SS5				30-2171	13/12	2N516					6	1D5G, 1C7G, 1F7G, 1H6G, 1J6G	470	8-23,24
								01		Buffer								
37-630	Vol.	33-5158	124	TM251-SS5			See Note A58	30-2117	25	SR644					6	6K7G, 6A8G, 6Q7G, 6F6G, 5Y4G	470	7-57,60
								30-2024	25	HD684								
								30-2118	14	SR642								
37-640	Vol.	33-5158	124	TM251-SS5			See Note A58	30-2117	1/19	SR644					7	6K7G, 6A8G, 6Q7G, 6F6G, 5Y4G	470	7-61,64
								30-2015	25	2N518								
37-641	Vol.	33-5166	18	TM251-SS5				30-2124	25	RS216					7	6K7G, 6A8G, 6Q7G, 25A6G, 25Z6G	470	8-25,26
								30-2125	12/15	2N506								
37-643	Vol.	33-5158	124	TM251-SS5			A58	30-2161	12	3S582					7	1D5G, 1C7G, 1H6G, 1E5G, 1J6G	470	8-27,29
37-650	Vol.	33-5158	124	TM251-SS5			See Note A58	30-2163	1/19	3S581					8	6K7G, 6A8G, 6J5G, 6K5G, 6F6G, 5Y4G	470	7-65,68
								30-2024	1	HD684								
								30-2118	14	SR642								
37-660	Vol.	33-5158	124	TM251-SS5			See Note A58	30-2026	1	HD684					9	6K7G, 6A8G, 6J5G, 6K5G, 6F6G, 5Y4G	470	7-69,72
								30-2122	13/14	UR181								
37-665	Vol.	33-5158	124	TM251-SS5			A58	30-2163	1/19	3S581					9	6K7G, 6A8G, 6J5G, 6K5G, 6F6G, 5Y4G	470	8-30,33
								30-2024	1	HD684								
								30-2118	12	SR642								
37-670	Vol.	33-5158	124	TM251-SS5			See Note A58	30-2025	1	SR643					11	6K7G, 6A8G, 6J5G, 6F6G, 5X4G	470	7-73,76
								30-2045	1/19	2N518								
								30-2122	13/14	UR181								
37-675 (Codes 121, 122)	Vol. Tone	33-5158	124	TM251-SS5			A58	30-2025	1	SR643					12	6K7G, 6F6G, 6L7G, 6N7G, 6A8G, 6Q7G, 6H6G, 5X4G	470	7-137, 142
		33-5173	121	MR48				30-2046	1/19	2N518								
								30-2170	13	2N518								
37-690	Vol. Bass Exp.	33-5183	127	UM154-SS5			A58	30-2025	30	SR643					20	6K7G, 6L7G, 6A8G, 6J5G, 6N7G, 6H6G, 6R7G, 6BBG, 6F6G, 6B3G, 5X4G	470	8-34,41
		33-5182	15	UM154-SS1	M26			30-2024	30	HD684								
		33-5178	‡	Order from Mfr.				30-2176	30/19	RS213/BB13								
								30-2159	13/14	UR181								
								30-2177	13/14	UR181								
37-2620	Vol.	33-5158	124	TM251-SS5			See Note A58	30-2117	25	SR643					6	6K7EG, 6ABEG, 6Q7EG, 6F6EG, 5Y4G	470	8-42,45
								30-2024	25	HD684								
								30-2118	14	SR642								
37-2650	Vol.	33-5158	121	TM251-SS5			See Note A58	30-2024	1	HD684					8	6K7EG, 6F6EG, 6ABEG, 6K5G, 6J5G, 5Y4G	470	8-44,47
								30-2163	1/19	3S581								
								30-2118	14	SR642								
37-2670	Vol.	33-5158	124	TM251-SS5			See Note A58	30-2025	1	SR643					11	6K7EG, 6ABEG, 6J5EG, 6F6EG, 5X4G	470	8-48,51
								30-2015	1/19	2N518								
								30-2122	13/14	UR181								
38, 38A (Codes 122, 123)	Vol.	33-5017	2	Y			A58								5	15, 30, 32, 19	160	1-21,22

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
PHILCO -Continued 38-1 (Code 121)....	Vol.	33-5233	124	TM251-SS1			A58	30-2201 30-2200 30-2243	30/19 30 20/13	RS213/BB12 WE2050 2N518				12	6U7G, 6A8G, 6N7G, 6K7G, 6I16G, 6R7G, 6J5G, 6F6G, 5X4G	470	8-52,54	
38-2 (Code 121)....	Vol.	33-5233	124	TM251-SS1			A58	30-2211 30-2243	30 30/12	SR643 2N518				11	6U7G, 6A8G, 6N7G, 6K7G, 6J5G, 6F6G, 5X4G	470	8-55,57	
38-3 (Code 121)....	Vol.	33-5158	124	TM251-SS5			A58	30-2200 30-2201 30-2194	1 1/19 12	WE2050 RS213/BB12 RS216				9	6I7G, 6A8G, 6N7G, 6I16G, 6Q7G, 6K7G, 6F6G, 5Y4G	470	8-58,60	
38-4, 38-5 (Code 121)....	Vol.	33-5224	124	TM251-SS1			A58	30-2200 30-2201 30-2212	1 1/15 12	WE2050 RS213/BB12 RS216				8	6U7G, 6A8G, 6K7G, 6J5G, 6K5G, 6F6G, 5Y4G	470	8-61,63	
38-7, 38-8, 38-9 (Code 121)....	Vol.	33-5216	124	TM251-SS1				30-2219 30-2217 30-2210	25 25/12 25	WE3050 2N518 SR644				6	6A8G, 6K7G, 6J5G, 6K5G, 6F6G, 5Y4G	470	8-64,66	
38-10 (Code 121)....	Vol.	33-5215	18	MR48				30-2210 30-2217 30-2235	25 25/12 25	2N518 2N518 SR644				5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	470	8-67,68	
38-12 (Code 121)....	Vol.	33-5230	18	MR48	M26			30-2235 30-2236	25 25	SR644 HD684				5	6A7, 78, 75, 41, 84	470	8-69,70	
38-14 (Codes 121, 124)....	Vol.	33-5236	18	MR48	M26			30-2246 30-2275	25 25	RS216 RS207				5	6A7, 78, 75, 42, 25Z5	470	8-71,72	
38-15 (Codes 121, 124)....	Vol.	33-5230	18	MR48	M26			30-2263 30-2265 30-2237	25/19 25/19 25	RS215/BB12 2N518 RS208				5	6A7, 78, 75, 41, 84	470	9-1,2	
38-22, 38-23 (121)....	Vol.	33-5228	124	TM251-SS1				30-2256 30-2239 30-2158	25 1/13/15 13	RS208 3N526 BB160				6	6A8G, 6K7G, 6R7G, 25L6G, 25Z6G	470	9-23,25	
38-33 (Code 121)....	Vol.	33-5249	18	Order from	Mfr.			30-2158	13	BB160				5	1D7G, 1D5GT, 1H6G, 1H4G, 1E7G	470	9-3,4	
38-34 (125)....	Vol.	33-5237	18	MR48	M27			30-2160 .01	1	2N518 Buffer	B14	41-3222	951P	C3	5 1D7G, 1D5GT, 1H6G, 1H4G, 1E7G	470	9-5,6	
38-35 (121)....	Vol.	33-5253	18	MR48	M27			30-2270 .015	23	2S562 Buffer	B14	41-3367	510P	C3	5 6A8G, 6K7G, 6Q7G, 6K6G, 6X5G	470	9-7,8	
38-38 (121)....	Vol.	33-5234	45	MR48				30-2241	12/13	UR181				6	1C7G, 1D5G, 1H14G, 1E5GP, 1J6G	470	8-73,74	
38-39 (121)....	Vol.	33-5234	45	MR48				30-2226 .01	1/13	3S582/BB60 Buffer	B14	41-3222	951P	C3	6 1C7G, 1D5G, 1H14G, 1E5GP, 1J6G	470	8-75,76	
38-40 (121)....	Vol.	33-5215	45	MR48				30-2219 30-2291 .015	25 25/13 25	WE3050 2N518 Buffer	B14	41-3367	510P	C3	6 6A8G, 6K7G, 6J5G, 6K5G, 6K6G, 6X5G	470	9-9,10	
38-60 (Codes 125)....	Vol.	33-5157	18	UM154-SS5			A58	30-2210 30-2211 30-2212 30-2192	25 25 12 1/19	SR644 SB643 RS216 3S579				5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	470	8-77,78	
38-62....	Vol.	33-5198	18	MR48	M26			30-2192	1/19	3S579				5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	470	8-19,20	
38-89 (Code 125)....	Vol.	33-5157	18	UM154-SS5			A58	30-2210 30-2211 30-2073	25 25 1/19	SR644 SR643 3S579				6	6U7G, 6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	470	8-79,80	
38-93....	Vol.	33-5193	56	N	6			30-2073	1/19	3S579				5	6K7G, 6A8G, 6R7G, 6F6G, 5Y4G	470	8-21,22	
38-116 (Code 121)....	Vol. Exp.	33-5158 33-5235	124 1	TM251-SS5 UM160-SS5			A58	30-2026 30-2201 30-2232	1 1/19 12	HD684 BS213/BB12 3S584				15	6K7G, 6I7G, 6N7G, 6A8G, 6J5G, 6R7G, 6L6G, 5X4G	470	8-81,86	
38-116 (Code 125)....	Vol. Exp.	33-5158 33-5235	124 22	TM251-SS5 UM160-SS5			A58	30-2026 30-2201 30-2232	1 1/19 12	HD684 RS213/BB12 3S584				15	6U7G, 6A8G, 6N7G, 6K7G, 6J5G, 6R7G, 6L6G, 5X4G	470	9-11,16	
38-610 (125, 126)....	Vol.	33-5158	124	TM251-SS5			A58	30-2117 30-2024 30-2118	25 25 12	SR644 HD684 SR642	B8			5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	470	7-45,48	
38-620 (121, 125)....	Vol.	33-5158	124	TM251-SS5			A58	30-2118 30-2210 30-2211 30-2212 30-2161	12 25 25 13 13	SR642 SR644 SR643 RS216 3S582	B8			6	6U7G, 6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	470	9-17,18	
38-623....	Vol.	33-5158	124	TM251-SS5			A58	30-2161	13	3S582				6	1D5G, 1C7G, 1F7G, 1H4G, 1J6G	470	7-55,56	
38-624....	Vol.	33-5166	124	TM251-SS5				30-2160 30-2171 .01	1 13	2N518 2N516 Buffer	B14	41-3222	951P	C3	6 1D5G, 1C7G, 1F7G, 1H4G, 1J6G	470	8-23,24	
38-630....	Vol.		18	TM251-SS5			A58	30-2117 30-2024 30-2118	25 25 14	SR644 HD684 SR642	B8			6	6K7G, 6A8G, 6Q7G, 6F6G, 5Y4G	470	7-57,60	
38-640....	Vol.	33-5158	124	TM251-SS5			A58	30-2117 30-2045	1 1/19	SR644 2N518				7	6K7G, 6A8G, 6Q7G, 6F6G, 5Y4G	470	7-61,64	
38-643....	Vol.	33-5158	124	TM251-SS5			A58	30-2161	13	3S582				7	1D5G, 1C7G, 1H14G, 1E5G, 1J6G	470	8-27,29	
38-665....	Vol.	33-5158	124	TM251-SS5				30-2163 30-2024 30-2118	1/19 1 12	3S581 HD684 SR642	B8			9	6K7G, 6A8G, 6J5G, 6K5G, 6F6G, 5Y4G	470	8-30,33	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
38-690 (125)	Vol. Exp.	33-5240 33-5241	15	Order from Order from	Mfr.			30-2025 30-2200 30-2249 30-2201	3 3 3 3/19	SR643 WE2050 3S584 RS213/BB12					20	6U7G, 6A8G, 6N7G, 6K7G, 6B8G, 6J5G, 6H6G, 6R7G, 6F6G, 6L6G, 5X4G	470 460 470	9-18,22 6-4-6 10-1-2
39, 39A	Vol.	33-5020	45	N	M26			30-2328	25	ST596					6	1C6, 34, 30, 32, 19	470	6-4-6
39-6, 39-7 (121)	Vol.	33-5254	18	MR48	M26			30-2327	25	ST595					5	6A7, 78, 75, 41, 84	470	10-1-2
39-8, 39-8T	Vol.	33-5254	18	MR48	M26			30-2246 30-2245	8 8	RS216 RS207					5	6A7, 78, 75, 41, 25Z5	470	11-26
39-12, 39-12TP	Vol. Tone	33-5230	18	MR48	M26			30-2235	23	HD684					5	6A7, 78, 75, 41, 84	470	
39-17 (121, 122)	Vol.	33-5330 33-5276	22 18	MR33 Order from	Mfr.			30-2236 30-2319	23 25	RS213 SR644					5	6A7, 78, 75, 41, 84	470	10-3-4
39-18 (121, 122)	Vol.	33-5276	18	Order from	Mfr.			30-2236 30-2332	25 74	HD684 RS208					5	6A7, 78, 75, 43, 25Z5, BKV51DJ	470	1-27
39-19 (121, 122)	Vol.	33-5276	18	Order from	Mfr.			30-2245 30-2319	74 25	RS207 SR644					5	6A7, 78, 75, 41, 84	470	10-7-8
39-25 (121)	Vol.	33-5289	18	TM231-SS1				30-2323 30-2330	25/13 25	2N518 HD684					5	6A8G, 78, 75, 41, 84	470	10-9-11
39-30, 39-35 (121)	Vol.	33-5275	124	TM251-SS1		A58		30-2331 30-2330	25/13 25	RS216 HD684					6	6A8G, 78, 37, 75, 41, 84	470	10-13-16
39-31, 39-31XF, 39-31XK	Vol.	33-5275	124	TM251-SS1		A58		30-2330 30-2331	25 25/13	HD684 RS216					6	6A8G, 78, 37, 75, 41, 84	470	11-25
39-36 (121)	Vol.	33-5286 33-5287	140 140	Order from Order from	Mfr.			30-2371 30-2370	25 25	HD684 RS216					6	6A7, 78, 37, 75, 41, 84	470	10-17-18
39-40 (121)	Vol. Tone	33-5286 33-5286	80 80	Order from Order from	Mfr.			30-2331 30-2335	13 25	RS216 WE2050					8	78, 6A7, 6Q7, 6J5G, 42, 5Y4G	470	10-19-21
39-45 (121)	Vol. Tone	33-5286 33-5287	80 80	Order from Order from	Mfr.			30-2333 30-2334	25 13	WE3050 HD684					9	78, 6A7, 6J5G, 6K5G, 42, 5Y4G	470	10-23,24
39-55 (121)	Vol. Tone Sen.	33-5300 33-5287 33-5295	80 80 7	Order from Order from K	Mfr.			30-2334 30-2200 30-2360 30-2334	13 25 25 13	HD684 WE2050 WE3050 HD684					10	6J8G, 78, 6J7G, 6Q7G, 2A4G, 6A8G, 6Z5Y5G, 42, 80	470	9-55,62
39-70, 39-75 (121, 122)	Vol.	33-5290	18	MR48	M27			30-2356	1	RS216					4	1A7G, 1N5G, 1H5G, 1C5G	470	10-25,26
39-71 (121)	Vol.	33-5301	18	MR53	M27			30-2346	12	ST585					4	1A7G, 1N5G, 1H5G, 1C5G	470	10-22
39-80 (121)	Vol.	33-5288	17	TM251-SS1	M27	A58		30-2346	12	ST585					4	1A7G, 1N5G, 1H5G, 1A5G	470	10-27
39-85 (121)	Vol.	33-5288	17	TM251-SS1	M27	A58		30-2348	12/13	2N502					4	1A7G, 1N5G, 1H5G, 1A5G	470	11-29
39-116 (121)	Vol. Tone	33-5300 33-5287	80 80	Order from Order from	Mfr.			30-2200 30-2360 30-2356	25 25 1	WE2050 WE3050 RS216					13	6J5G, 78, 6J7G, 6K7G, 6Q7G, 2A4G, 6A8G, 6Z5Y5G, 42, 80, 37	470	9-56,62
39-117 (121, 122)	Vol.	33-5276	18	Order from	Mfr.			30-2334 30-2319	13 25	HD684 SR644					5	6A7, 78, 75, 41, 84	470	11-31-33
39-118 (121, 122)	Vol.	33-5276	18	Order from	Mfr.			30-2323 30-2332	25/13 74	2N518 RS208					5	6A7, 78, 75, 43, 25Z5, BKV51DJ	470	
39-119 (121, 122)	Vol.	33-5276	18	Order from	Mfr.			30-2245 30-2319	74 25	RS207 SR644					5	6A7, 78, 75, 41, 84	470	11-34
39-175 (121, 122)	Vol.	33-5291	18	MR48	M27			30-2323 30-2346	25 12	2N518 ST585					4	1A7G, 1N5G, 1H5G, 1C5G	470	11-35
39-711	Vol.	33-5305	18	TM231				30-2380 30-2235	1/15 1	3N525 RS207	B8				5	6J8G, 78, 75, 25L6G, 25Z5	470	11-37
39-744	Vol. Tone	33-5298 33-5303	140 140	TM251-SS1				30-2374	24/13	FPQ 435		41-3222	951P	C3	7	6B57G, 6D8G, 6T7G, 6G6G, 749	470	11-41,42
39-751	Vol. Tone	33-5304 33-5299	140 140	TM251-SS1				01 30-2372	1/15	Buffer 3S579	B14 B8				8	6J8G, 78, 75, 25L6G, 25Z5, 76	470	11-38
39-770	Vol. Tone	33-5302 33-5287	124 1	TM231 Order from	M26 Mfr.	A96		30-2245 30-2368 30-2366 30-2367	13 13 13 1	RS207 WE1850 WE4050 BB20					11	6K7G, 6J8G, 6H6G, 6J5G, 6F6G, 5Y4G	470	11-43-45
40 DC	Vol.	4056	8	A2MP				30-2359	12	BB20					6	23A, 27, 71A		1-10
40-74	Vol.	33-5310	18	UM161	M27	A96		30-2396	12	BB22					4	1A7G, 1N5G, 1H5G, 1A5G	470	12-12
40-81	Vol.	33-5331	18	UM161	M27	A96		30-2396	12	BB22					4	1LA6, 1LN5, 1LH4, 1LA4, or 1A7G, 1N5G, 1H5G, 1A5G	455	12-13
40-82 (121)	Vol.	33-5331	18	MR53	M27			30-2396	12	BB22					4	1LA6, 1LN5, 1LH4, 1LA4	455	12-13,18
40-83	Vol.	33-5331	18	MR53	M27			30-2396	12	BB22					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-13,18
40-84	Vol.	33-5375	18	MR53	M27			30-2451 30-2452	24/78 46	2N507 TN125					5	1LA6, 1LN5, 1LH4, 1LA4, 117Z6G	455	12-12,18

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
40-88	Vol.	33-5310	18	UM161	M27		A96	30-2388	12/13	2N502				5	11A5, 11A6, 11H4, 11A4	455	11-65	
40-90	Vol.	33-5312	18	UM161	M27		A96	30-2396	12	BB22				4	1A7G, 1N5G, 1H5G, 1A5G	455	12-14.18	
40-95 (121, 122)	Vol.	33-5321	18	UM161	M27		A96	30-2396	12	BB22				4	1A7G, 1N5G, 1H5G, 1A5G	155	12-14.18	
40-100 (121, 122)	Vol.	33-5321	18	UM161	M27		A96	30-2396	12	BB22				4	1A7G, 1N5G, 1H5G, 1A5G	455	12-15, 16, 18	
40-105	Vol.	33-5326	17	TM251	M27		A96	30-2396	12	BB22				4	1A7G, 1N5G, 1H5G, 1A5G	455	12-15.18	
40-110	Vol.	33-5326	17	TM251	M27		A96	30-2408	12/13	2N506				4	1A7G, 1N5G, 1H5G, 1A5G	455	11-47.48	
40-115	Vol.	33-5306	18	MR48	M26			30-2403	1	2N509				6	7C7, 7A8, 7B7, 7C6, 35A5, 35Z3	455	11-49	
40-120, 40-125	Vol.	33-5306	18	MR48	M26			30-2403	1	2N509				6	7C7, 7A8, 7B7, 7C6, 35A5, 35Z3	455	12-17.18	
40-124	Vol.	33-5306	18	MR48	M26			30-2403	1	2N509				6	7C7, 7A8, 7B7, 7C6, 35A5, 35Z3	455	11-19	
40-130, 135	Vol.	33-5332	18	MR48	M26			30-2409	25	BB63				6	7C7, 7A8, 7B7, 7C6, 7B5, 7Y4	455	12-21	
40-140	Vol.	33-5319	18	MR48	M26			30-2401	25	BB60				6	1232, 7J7, 7B7, 7C6, 7B5, 7Y4	455	12-21	
40-145	Vol.	33-5319	18	MR48	M26			30-2409	25	BB63				6	1232, 7J7, 7B7, 7C6, 7B5, 7Y4	455	12-21	
40-150	Vol.	33-5325	140	TM251-SS1	M26		A58	30-2401	25	BB60				6	1232, 7J7, 7B7, 7C6, 7B5, 7Y4	455	12-21	
40-155	Vol.	33-5314	140	SM303	M26		A103	30-2405	25	SR644				7	1232, 7J7, 7B7, 7C6, 7A1, 84	455	12-19	
40-155	Vol.	33-5314	140	SM303	M26		A103	30-2406	25	WE1625				8	1232, 7J7, 7B7, 7A6, 7C6, 7A1, 84	455	12-19	
40-158 (Code 121)	Vol.	33-5319	18	MR48	M26			30-2405	25	SR644				8	1232, 7J7, 7B7, 7A6, 7C6, 7A1, 84	455	12-20	
40-160	Vol.	33-5319	18	MR48	M26			30-2406	25	WE1625				6	7B7, 7A8, 7C6, 41, 84	455	10-33A	
40-165	Vol.	33-5319	18	MR48	M26			30-2447	25	2S567				6	7C7, 7B7, 7C6, 41, 84, 7A8	455	12-21	
40-170C.S.	Vol.	33-5332	18	MR48	M26			30-2400	28	3S584				6	1232, 6J8G, 7B7, 7C6, 41, 84	455	12-22	
40-180	Vol.	33-5275	140	TM251-SS1	M26		A58	30-2409	25	BB63				6	7C7, 7A8, 7B7, 7C6, 7B5, 7Y4	455	12-21	
40-185	Vol.	33-5314	140	SM303	M26		A103	30-2401	25	BB60				6	7C7, 7A8, 7B7, 7C6, 7B5, 7Y4	455	12-21	
40-185	Vol.	33-5275	140	TM251-SS1	M26		A58	30-2405	25	SR644				8	1232, 7J7, 7B7, 7A6, 7C6, 7A1, 84	455	12-22.23	
40-190	Vol.	33-5314	140	SM303	M26		A103	30-2406	25	WE1625				8	1232, 7J7, 7B7, 7A6, 7C6, 7A1, 84	455	12-23	
40-190	Vol.	33-5275	140	TM251-SS1	M26		A58	30-2405	25	SR644				8	1232, 7J7, 7B7, 7A6, 7C6, 7A1, 84	455	12-22.24	
40-195	Vol.	33-5314	140	SM303	M26		A103	30-2406	25	WE1625				10	1232, 7B7, 7C6, 7A6, 7A2, 80, 7J7, 7A7	455	12-24.25	
40-200	Vol.	33-5286	140	Order from Mfr.	Mfr.			30-2335	25	WE2050				11	1232, 7J7, 7B7, 7A6, 7C6, 7A1, 84, 80	455	12-24.25	
40-205	Vol.	33-5300	140	Order from Mfr.	Mfr.			30-2333	25	WE3050				11	7C7, 6J8G, 7B7, 6Q7G, 7A2, 6J7G, 6H6G, 2A4G, 80	470	11-55-58.62	
40-215RX	Vol.	33-5300	140	Order from Mfr.	Mfr.			30-2200	25	WE2050				11	1232, 6J8G, 7B7, 6Q7G, 7A2, 6J7G, 6H6G, 2A4G, 80	470	12-28.28	
40-216	Vol.	33-5287	140	Order from Mfr.	Mfr.			30-2334	13	HD684				13	6J7G, 6A8G, 7B7, 6Q7G, 37, 7A2, 80, 2A4G, 6J5G, 6ZY5G	470	11-59.60	
40-217RX (Code 121)	Vol.	33-5300	140	Order from Mfr.	Mfr.			30-2387	1	ST587				11	1232, 6J8G, 7B7, 6Q7G, 7A2, 6J7G, 6H6G, 2A4G, 80	470	12-28.28	
40-501, 40-502	Vol.	33-5306	18	MR48	M26			30-2387	1	ST587				5	7A8, 7B7, 7C6, 35A5, 35Z3	470	12-29	
40-503	Vol.	33-5332	18	MR48	M26			30-2382	1	2N509				6	7C7, 7A8, 7B7, 7C6, 7B5, 7Y4	455	11-63	
40-504	Vol.	33-5310	18	UM163	M27		A96	30-2359	12	BB20				4	1A7G, 1N5G, 1H5G, 1C5G	470	12-30	
40-506	Vol.	33-5332	18	MR48	M26			30-2411	25	BB60				6	7C7, 7A8, 7B7, 7C6, 7B5, 7Y4	455	11-63	
40-507	Vol.	33-5289	18	TM231-SS1	M26			30-2437	25/19	4S718		B8		6	1232, 7J7, 7B7, 7C6, 7B5, 7Y4	455	11-66	
40-508, 40-509	Vol.	33-5333	21	MR48	M26			30-2410	25	BB63				6	1232, 7J7, 7B7, 7C6, 7B5, 7Y4	455	11-66	
40-510	Vol.	33-5275	124	TM251-SS1	M26		A58	30-2413	25	RS215				8	1232, 6J8G, 7B7, 7C6, 7A4, 7A2, 80	455	12-32.33	
40-510	Vol.	33-5314	22	SM303	M26			30-2412	25	RS216				11	7C7, 6J8G, 7B7, 6Q7G, 7A2, 80, 2A4G, 6H6G, 6J7G	470	11-67	
40-510	Vol.	33-5300	140	Order from Mfr.	Mfr.			30-2200	25	WE2050				11	7C7, 6J8G, 7B7, 6Q7G, 7A2, 80, 2A4G	470	11-67	
40-510	Vol.	33-5287	140	Order from Mfr.	Mfr.			30-2360	25	WE3050				11	7C7, 6J8G, 7B7, 6Q7G, 7A2, 80, 2A4G, 6H6G, 6J7G	470	11-67	
40-510	Sen.	33-5295	7	K	M26			30-2334	13	HD684				13	6J7G, 6A8G, 7B7, 6Q7G, 37, 7A2, 80, 2A4G, 6J5G, 6ZY5G	470	11-59.60	
40-516	Vol.	33-5300	140	Order from Mfr.	Mfr.			30-2387	1	ST587				13	6J7G, 6A8G, 7B7, 6Q7G, 37, 7A2, 80, 2A4G, 6J5G, 6ZY5G	470	11-59.60	
40-516	Vol.	33-5287	140	Order from Mfr.	Mfr.			30-2200	25	WE2050				13	6J7G, 6A8G, 7B7, 6Q7G, 37, 7A2, 80, 2A4G, 6J5G, 6ZY5G	470	11-59.60	
40-516	Sen.	33-5295	7	K	M26			30-2360	25	WE4030				13	6J7G, 6A8G, 7B7, 6Q7G, 37, 7A2, 80, 2A4G, 6J5G, 6ZY5G	470	11-59.60	
40-516	Sen.	33-5295	7	K	M26			30-2334	13	HD684				13	6J7G, 6A8G, 7B7, 6Q7G, 37, 7A2, 80, 2A4G, 6J5G, 6ZY5G	470	11-59.60	
40-516	Sen.	33-5295	7	K	M26			30-2356	1	RS216				13	6J7G, 6A8G, 7B7, 6Q7G, 37, 7A2, 80, 2A4G, 6J5G, 6ZY5G	470	11-59.60	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO Continued																		
40-525, 40-526, 40-527	Vol.	33-5332	18	MR48				30-2411	25	BB60					6	7C7, 7A8, 7B7, 7C6, 7B5, 7Y4	455	12-30,31
40-710	Vol.	33-5336	18	TM231				30-2437	25/19	8S718	B8				5	7A8, 7B7, 7C6, 35A5, 35Z3	455	11-71
40-715 (121)	Vol.	33-5305	18	TM231-SS1				30-2436	13 15	FPQ415	B117				5	6J8G, 78, 75, 41, 84	455	11-73
40-725 (121)	Vol.	33-5298	140	TM251				30-2364	1	RS216					6	78, 6J8G, 75, 41, 84	455	11-75
40-748 (121)	Tone	33-5299	110	TM251				30-2363	1	WE1830					7	6S7G, 6D8G, 6T7G, 6G6G, 349	455	11-77
40-755 (121)	Tone	33-5298	140	TM251				30-2364	1	RS216					8	78, 6J8G, 75, 76, 342, 80	455	11-79
40-756 (121)	Tone	33-5303	140	TM251				30-2319	1	RS215					8	78, 6J8G, 75, 76, 32516G, 25Z5	455	12-34,35
40-780 (121, 151)	Vol.	33-5299	152	TM251			A96	30-2374	24/13	TN125 BB21	B14	41-3222	951P	C3	11	7C7, 6J8G, 6K7G, 7A6, 6R7G, 6J5G, 6V6G, 80	455	12-35,36
40-2710	Vol.	33-5334	152	TM251			A96	30-2373	1	WE4030					11	7C7, 6J8G, 6K7G, 7A6, 6R7G, 6J5G, 6V6G, 80	455	12-37,38
40-2725 (121)	Tone	33-5335	140	TM251			A3	30-2364	1	RS216					5	7A8E, 7B7E, 7C6, 35A5E, 35Z3	455	12-37,38
40-2780	Vol.	33-5336	18	TM231			A96	30-2366	1	WE4030					6	78E, 6J8E, 75, 41E, 84	455	12-38,39
41RP6 (Record Player)	Vol.	33-5412	140	TM251			A96	30-2415	1	WE4050					11	7C7E, 6J8EG, 6K7EG, 7A6, 6R7G, 6J5G, 6V6EG, 80	455	12-41,42
41-110	Tone	33-5335	140	TM251			A3	30-2415	13	BB60					2	6A7, 84	455	12-49
41-220	Vol.	33-5404	18	MR48				30-2415	13	FPQ415	B117				6	1N5G, 1A7G, 1H5G, 1A5G	455	12-47
41-221	Vol.	33-5411	18	MR48				30-2403	1	2N509					6	7C7, 7A8, 7B7, 7C6, 35A5, 35Z3	455	12-48,49
41-225	Vol.	33-5411	18	MR48				30-2491	1	2N509					6	XXD, 7B7, 7C6, 35A5, 35Z3	455	12-50
41-226	Vol.	33-5411	18	MR48				30-2403	1	2N509					6	7C7, 7A8, 7B7, 7C6, 35A5, 35Z3	455	12-48,49
41-230 (Code 121)	Vol.	33-5332	18	MR48				30-2491	1	2N509					6	XXD, 7B7, 7C6, 35A5, 35Z3	455	12-50
41-231	Vol.	33-5411	18	MR48				30-2409	25	BB63					7	XXL, 7B7, 7C6, 7B5, 7Y4	455	12-51
41-235 (Code 121)	Vol.	33-5332	18	MR48				30-2401	25/13	BB60					6	XXD, 7B7, 7C6, 35A5, 35Z3	455	12-50,55
41-240 (Code 121)	Vol.	33-5332	18	MR48				20-20	1	2N509					7	XXL, 7B7, 7C6, 7B5, 7Y4	455	12-51
41-245 (Code 121)	Tone	33-5333	21	MR48	M26			30-2401	25/13	BB63					7	XXL, 7B7, 7C6, 7B5, 7Y4	455	12-52
41-246 (Code 121)	Vol.	33-5404	21	MR48				30-2409	25	BB63					7	XXL, 7B7, 7C6, 7B5, 7Y4	455	12-53,54
41-250 (Code 121)	Tone	33-5403	18	MR48				30-2477	25/13	2N518					7	XXL, 7B7, 7C6, 7B5, 7Y4	455	12-55,61
41-255 (Code 121)	Vol.	33-5408	80	TM251-SS2				12	25/13	BB63					9	XXI, 7B7, 7A6, 7C6, 341, 84	455	12-56
41-256 (121)	Tone	33-5403	80	SM303			A103	30-2471	25	BB63					9	XXI, 7B7, 7A6, 7C6, 341, 84	455	12-56
41-258 (122)	Vol.	33-5408	80	TM251-SS1			A103	30-2475	25/13	2N519					9	XXI, 7B7, 7A6, 7C6, 341, 84	455	12-57,61
41-260	Vol.	33-5403	140	SM303				16-8	25/13	2S563					9	XXL, 7B7, 7A6, 7C6, 341, 84	455	12-58
41-265	Vol.	33-5319	18	MR48	M26			16	25	BB34					6	XXD, 7B7, 7C6, 50L6GT, 35Z5GT	455	12-58
41-280 (Code 121)	Vol.	33-5405	18	MR48				30-2403	1	2N509					7	XXL, 7B7, 7C6, 41, 84	455	12-59
41-285, 41-287 (Code 121)	Vol.	33-5319	18	MR48				30-2471	25	BB63					7	XXL, 7B7, 7C6, 41, 84	455	12-60,61
41-290 (Code 121)	Vol.	33-5408	140	TM251-SS1				30-2476	25/13	2N518					9	XXL, 7B7, 7C6, 41, 84	455	12-73, 63,64
41-295	Vol.	33-5286	140	Order from Mfr.				30-2474	25	BB63					9	XXL, 7B7, 7C6, 41, 84	455	12-63, 64,73
41-300	Vol.	33-5325	140	Order from Mfr.				30-2475	25/13	2N519					10	XXL, 7B7, 7A6, 7C6, 37, 341, 84	455	12-63, 64,73
41-316 (121)	Vol.	33-5417	140	Order from Mfr.				30-2472	25	WE2050					11	XXL, 7B7, 7C6, 37, 342, 80	455	12-63, 66,61
41-601 (121)	Vol.	33-5325	140	Order from Mfr.				30-2333	25	WE3050					12	XXL, 7B7, 7A6, 7C6, 37, 342, 80	455	12-65, 66,61
								30-2473	13	BB61					14	XXI, 7B7, 7C6, 37, 342, 80, 78, 6J7G, 6J5G, 2A4G, 6ZY5G	455	12-67-69
								30-2200	25	WE2050					5	7A8, 7B7, 7C6, 5016GT, 35Z3	455	12-62
								30-2360	25	WE3050								
								30-2473	13	BB61								
								30-2387	13	ST587								
								40-40-10	1/15	2N515/BB12								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replace- ment	*Note				
PHILCO—Continued																		
41-602	Vol.	33-5396	18	TM243	M26		A96	30-2382	1	2N509				5	7A8, 7B7, 7C6, 35A5, 35Z3	455	12-71	
41-603	Vol.	33-5414	18/50	Order from	Mfr.			30-2491	1	2N509				6	XXD, 7B7, 7C6, 35A5, 35Z3	455	12-72,73	
41-604, 41-605, 41-607	Vol.	33-5409	18/50	Order from	Mfr.			30-2403	1	2N509				6	XXD, 7B7, 7C6, 35A5, 35Z3	455	12-72,73	
41-608, 41-609	Vol.	33-5408	140	TM251-SS1				30-2488	25/13	2N519/BB63				9	XXL, 7B5, 7C7, 7B7, 7C6, 7A1, 7Y4	455	12-75,76	
41-610, 41-611 (121)	Tone	33-5403	140	SM303			A103	30-2480	25/13	2N519				10	XXL, 7B7, 7C6, 7B5, 37, 7A1, 80	455	12-77, 78,61	
41-616P, 41-616PW (121)	Tone	33-5403	140	SM303			A103	30-2481	25	ST609				10	XXL, 7B7, 7C6, 7B5, 37, 7A1, 80	455	12-77, 78,61	
41-616P, 41-616PW (121)	Vol.	33-5417	140	Order from	Mfr.			30-2200	25	WE2050				15	XXL, 7B7, 7C6, 37, 7A2, 7B5, 78, 6J7G, 6J5G, 2A4G, 80, 6Z7Y5G	455	12-79, 82,70	
	Tone	33-5325	140	†			A3	30-2360	25	WE3050				15	XXL, 7B7, 7C6, 37, 7A2, 7B5, 78, 6J7G, 6J5G, 2A4G, 80, 6Z7Y5G	455	12-79, 82,70	
41-620 (Phonograph)	Vol.		140	2 Meg.			A19	30-2473	13	BB61				6	7F7, 7A4, 7B5, 80	455	12-74	
41-623, 41-624, 41-625	Tone		140	†			A3	30-2387	†	ST587				6	7F7, 7A4, 7B5, 80	455	12-74	
	Vol.	33-5405	18	MR48	M26			16-8	25/13	2N519				6	7F7, 7A4, 7B5, 80	455	12-74	
	Tone		140	†			A3	12	25	BB63				6	7F7, 7A4, 7B5, 80	455	12-74	
41-629 (121)	Vol.	33-5408	140	TM251-SS1				30-2494	1	TN129				7	XXD, 7B7, 7C6, 350L6GT, 50Y6GT	455	12-83,84	
41-629 (121)	Tone	33-5403	140	SM303				30-2500	15	BB12				7	XXD, 7B7, 7C6, 350L6GT, 50Y6GT	455	12-83,84	
41-695	Vol.	33-5413	18	†			A5	30-2495	13/15	2N502				9	XXL, 7B7, 7C6, 7A1, 7B5, 6X5G	455	12-85, 86,61	
41-705	Vol.	33-5230	18	MR48	M26			30-2496	25	BB63				5	1A7G, 1N5G, 1H5G, 1A5G	455	12-95,97	
41-708	Vol.	33-5391	18	TM231			A96	30-2463	1/15	3N534				5	7A8E, 7B7E, 7C6, 35A5E, 35Z3	455	12-87,88	
41-712	Vol.	33-5391	18	TM231			A96	30-2478	24	BB33		See Note	C8	4	7A8E, 7B7E, 7C6, 7B5E	455	12-88	
41-713	Vol.	33-5397	18	TM231			A96	30-2479	24/13	2N506				4	7A8E, 7B7E, 7C6, 7B5E	455	12-88	
41-714	Vol.	33-5391	18	TM231			A96	.01		Buffer				5	7A8E, 7B7E, 7B6, 6K6EG, 7Y4	455	12-89,90	
41-788 (121, 122)	Vol.	33-5399	140	2 Meg.			A19	30-2459	4	BB42				5	7A8E, 7B7E, 7C6, 35A5E, 35Z3	455	12-89,90	
	Tone	33-5400	140	†			A3	30-2467	4/13	2N516				5	7A8E, 7B7E, 7C6, 35A5E, 35Z3	455	12-89,90	
	Tone		140	†			A3	30-2436	25/13/15	FPQ409				6	7A7E, 7J7E, 7B7E, 7B6, 6K6EG, 7Y4	455	12-94	
41-841 (121—Runs 1 and 2)	Vol.	33-5390	18	MR53	M27			10	4	BB62				6	7A7E, 7J7E, 7B7E, 7B6, 6K6EG, 7Y4	455	12-94	
41-842, 41-843, 41-844	Vol.		18	UM154			A96	16	4	FPS143				11	7C7E, 7J7E, 7B7E, 7A6, 76, 76V6EG, 80	455	12-91-93	
41-851 (121—Runs 1 and 2)	Vol.	33-5390	18	MR53	M27			40-5-5	4/13	Order from	Mfr.			5	1A7G, 1N5G, 1H5G/1LD5, 3Q5G, 11Z6	455	12-91-93	
41 DC, 42 DC	Vol.	4094	2/8	DRP114			A56	20-10-20-20	76/78	TN125/BB15				5	1A7G, 1N5G, 1H5G/1LD5, 3Q5G, 11Z6	455	12-96,97	
42-323	Vol.	33-5458	18	UM154			A96	20-20-10/100-25	78/78/13	Order from	Mfr.			7	1LE3, 21LN5, 1LH4, 1LB4, 11Z6G	455	12-98	
42-327	Vol.	33-5448	18	UM154			A96	30-2452	76	TN125				5	1A7G, 1N5G, 1H5G/1LD5, 3Q5G, 11Z6G	455	12-95-97	
42-340	Vol.	33-5443	18	UM154			A96	30-2453	13/78	2N507				6	24A, 27, 71A	455	1-11,2-8	
42-345	Vol.	33-5443	18	UM154			A96	30-2382	13	2N509				6	XXD, 7B7, 7C6, 50L6GT, 35Z3GT/35Z5GT	455		
42-345	Tone	33-5450	21	UM154			A96	†	†	See Note	B11			6	XXD, 7B7, 7C6, 50L6GT, 35Z3GT/35Z5GT	455		
42-360	Vol.	33-5451	18	UM154			A96	30-2503	1	2N509				6	XXD, 7B7, 7C6, 50L6GT, 35Z3GT/35Z5GT	455		
42-365	Tone	33-5463	22	UM154	M26		A96	30-2409	25	BB63				7	XXL, 7B7, 7C6, 7B5, 7Y4	455		
43	Vol.	33-5451	18	UM154			A96	30-2477	25/13	2N518				7	XXL, 7B7, 7C6, 7B5, 7Y4	455		
43	Tone	33-5451	18	UM154			A96	30-2471	25	BB63				7	XXL, 7B7, 7C6, 7B5, 7Y4	455		
43	Tone	33-5450	22	UM154			A96	30-2476	25/13	2N518				7	XXL, 7B7, 7C6, 7B5, 7Y4	455		
43	Vol.	6892	45	O	6		A58	4916	1	11D684				8	37, 44, 42, 80	450	3-13,16	
43 (Code 121)	Vol.	6892	45	O	6		A58	7556	13	SR643				8	37, 44, 42, 80	450	4-24,26	
44	Vol.	33-5025	18	N	6		A58	7556	1	SR643				8	37, 44, 42, 80	450	4-24,26	
45, 45C	Vol.	33-5097	18	TRP605	6	EB247	A58	6453	13	SR643				6	6A7, 78, 75, 42, 80	460	4-23,26	
46, 46E (DC)	Vol.	4141	24	CE			A54	30-2028	1	SR642				6	6A7, 78, 75, 42, 80	460	5-24,26	
47 (DC) (Code 121-221)	Vol.	6499	45	O				30-2020	13	11D684				6	6A7, 78, 75, 42, 80	460	5-24,26	
48 (DC)	Vol.	5839	6	E12				30-2028	1	SR642				6	6A7, 78, 75, 42, 80	460	5-24,26	
49 (DC)	Vol.	6415	6	E12				30-2020	13	11D684				6	6A7, 78, 75, 42, 80	460	5-24,26	
50, 50A	Vol.	33-5059	18	TRP605	6			30-2020	13	11D684				6	6A7, 78, 75, 42, 80	460	5-24,26	
	Vol.	5232	2/8	CE				4916	4	11D684				5	24A, 47, 80	455	1-14,15	
	Vol.	5232	2/8	CE				5142	4	SR644				5	24A, 47, 80	455	1-14,15	

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO - Continued																		
51, 51A, 52	Vol.	5339	6	E7				4916	4	HD684					5	24A, 35, 47, 80	175	2-11,13
53 (AC-DC)	Vol.	33-5001	2	Y	6			5142	4	SR644	B12				4	77, 43, 1223	450	3-17,18
54	Vol.	33-5010	18	N	6		A57	7440	15	SR635					5	6A7, 78, 75, 43, 25Z5	460	3-57,58
57	Vol.	33-5011	2	Y	6		A58	30-2001	50	BB12					4	77, 42, 80	460	4-27,29
58, 59	Vol.	33-5057	2	Y	6			30-2002	50	SR635					4	77, 42, 80	460	5-29,30
60	Vol.	33-5006	18	N	6			30-2004	1	SR636					5	6A7, 78, 75, 42, 80	460	4-35,32
65	Vol.	3528	12	A2MP				30-2013	1	CM172	B20				6	24A, 27, 45, 80	460	1-16, 8-2
66	Vol.	33-5006	18	N	6			30-2013	1	SR638	B20				5	6A7, 78, 75, 42, 80	460	5-31,32
70, 70A (Below No. B-22,000)	Vol.	5039	2/8	DRP114			A56	30-2028	1	SR642					7	24A, 27, 47, 80	260	1-17,18
70, 70A (Above No. B-22,000)	Vol.	6015	45	O				30-2021	13	SR643					7	24A, 27, 47, 80	260	1-17,18
71 Series	Vol.	6499	45	O				4916	4	HD684					7	35, 24, 27, 47, 80	260	3-31
76	Vol.	3879	8	X				5725	4	WE1650	B12				7	36, 37, 44, 42, 80	260	3-23,24
77, 77A	Vol.	4094	2/8	DRP114			A56	5142	4	SR644	B12				7	36, 37, 44, 42, 80	260	3-23,24
80	Vol.	7439	2	Y	6		A58	6453	1	SR643	B12				7	24A, 27, 45, 80	460	2-19
81	Vol.	33-5002	2	Y		See Note A27		6707	1	See Note	B1				7	24A, 27, 45, 80	460	1-20
82	Vol.	7439	2	Y	6	See Note A4		2-2-2	3	See Note	B9				4	36, 42, 80	450	3-25,26
84	Vol.	3076	2	GI2				15	1	See Note	B1				4	36, 42, 80	460	3-27,28
86	Vol.	33-5055	2	Y10MP				7467	19	SR643					4	77, 42, 80	460	3-27,28
87	Vol.	3076	2	GI2				7440	19	BB12					8	26, 27, 71A, 80	460	4-33,34
89	Vol.	33-5004	18	N		See Note A27		30-2013	1	SR638					8	26, 27, 71A, 80	460	4-33,34
89 (Code 123)	Vol.	33-5007	18	N		See Note A4		2-2-2-1-1	3/13	See Note	B1				8	26, 27, 71A, 80	460	1-22
89 (Codes 126 & 126B)	Vol.	33-5007	18	N		See Note A27		8165	1	SR643					6	44, 36, 75, 42, 80	260	3-33,34
90, 90A (with 2-45's)	Vol.	33-5007	18	N		See Note A4		7558	1	SR643					6	44, 77, 75, 42, 80	260	7-77,79
90, 90A (with 1-47, Above 237,001)	Vol.	5366	15	N				30-2021	1	SR643					6	44, 77, 75, 42, 80	260	4-43
90, 90A (with 2-47's) Serial No. B-32001 to B-35000, and above B-53100	Vol.	6015	45	O				4916	1	HD684					9	24A, 27, 45, 80	175	2-22,24
91 (Code 121-221)	Vol.	6499	45	O				5142	1	SR644	B12				9	24A, 27, 45, 80	175	2-22,24
91 (126-226)	Vol.	8054	45	TRP605			A58	4916	1	HD684					9	24A, 35, 27, 47, 80	260	3-35,37
95	Vol.	3790	15	N				4916	1	HD684					9	44, 36, 37, 42, 80	260	3-39,42
96, 96A, 96E	Vol.	4093	15	N				5725	1	WE1650	B12				9	44, 36, 37, 42, 80	260	3-29,30
97, 98	Vol.	33-5102	18	N	6		A58	7464	1	SR643					9	24A, 27, 45, 80	175	1-23
101	Vol.	33-5306	18	MR48	M26			30-2117	1	SR644					7	78, 6A7, 85, 42, 80	460	6-7,8-91
105	Tone	33-5320	22	O				30-2025	1	SR643					5	6A8, 7B7, 7C6, 35A5, 35Z3	470	10-32
108 (Code 121)	Tone	33-5286	76	Order from	Mfr.			30-2114	13/14	UR181	B147				5	6A7, 78, 75, 41, 84	470	10-38
111, 111A	Vol.	4093	15	N				30-2114	1	2N509					6	6A7, 78, 37, 75, 41, 84	470	10-39
112, 112A (Below 174,001)	Vol.	4093	15	N				30-2382	1	See Note	B1				11	24A, 27, 45, 80	175	2-32,34
112, 112A, 112E (Above 174,001)	Vol.	4093	15	N				15	1	See Note	B9				11	24A, 27, 45, 80	175	1-25,26
116B (Code 121)	Vol.	33-5153	124	TRP618	6		A58	4916	1	HD684					11	24A, 27, 47, 80	175	2-38,39
116X (Code 122)	Vol.	33-5155	124	TRP613	6		A58	30-2025	1	SR643					11	76, 77, 78, 37, 42, 80	460	6-10,12

‡ Data not substantiated.

* IMPORTANT: Read Notes In Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued 118, 118 (Code 123RX)	Vol.	33-5021	124	TRP605	6		A58	30-2025	1	SR643				8	78, 6A7, 75, 42, 80	260	5-34,38	
144	Vol.	33-5068	18	TRP605	6		A58	30-2045	1/19	2N518								
200X	Vol.	33-5071	124	TRP619	6	See Note	A58	30-2078	13/14	UR181	B149			6	6A7, 75, 78, 12, 80	460	5-40,44	
201 (Code 121)	Vol.	33-5071	18	TRP619	6	See Note	A58	30-2073	1/19	3S579				10	6A7, 78, 75, 37, 42, 5Z3	175	5-45,46	
211, 211A	Vol.	4093	15	N				30-2020	13	HD684				10	78, 6A7, 37, 75, 42, 5Z3	260	6-15,17	
212, 212A (Radio- Phonograph)	Vol.	4093	15	N				30-2011	1/19	SR642				10	78, 6A7, 37, 75, 42, 5Z3	260	6-15,17	
212, 212A, 212E (Above 174,001)	Vol.	4093	15	N				30-2011	1/19	HD683	B150			10	78, 6A7, 37, 75, 42, 5Z3	260	6-15,17	
220, 220A	Vol.	4094	2/8	DRP114		See Note	A56	30-2016	1/19	2N518								
233G, 233AG	Vol.	33-5075	2	Y	6			30-2080	13/14	UR181	B150							
245	Vol.	33-5066	18	TRP605	6	EB247	A58	30-2104	13	UR181	B151			11	24A, 27, 45, 80	175	1-27, 2-32	
261	Vol.	33-5006	18	N	6			4916	1	HD684				11	24A, 27, 45, 80	175	1-26	
263E	Vol.	33-5065	18	N	6			5142	1	SR644	B12			11	24A, 27, 45, 80	175	2-37,41	
264, 265	Vol.	33-5006	18	N	6			4916	1	HD684				11	24A, 27, 47, 80	175	3-51	
267E	Vol.	33-5055	2	Y10MP	6			5142	1	HD684				3	32E, 2101, 1D1		8-93,94	
270, 270A	Vol.	33-5076	2/8	SRP263	6			5142	1	HD684				6	6A7, 78E, 75, 42E	460	8-93,96	
296, 296A, 296E	Vol.	4093	15	N				5142	1	SR643				5	6A7, 78, 75, 42, 80	125	8-97,98	
470, 470A	Vol.	5039	2/8	DRP114				5142	1	HD684				4	6A7, 78E, 75, 18E	125	8-99,100	
490	Vol.	5724	15	N				5142	1	SR638				5	6A7, 78E, 75, 42E, 80	125	8-94,101	
500, 501	Vol.	33-5022	64	TRP618	6	See Note	A58	5142	1	SR642				4	77E, 12E, 80		8-103, 104	
503	Vol.	33-5069	124	TRP605	6			5142	1	SR638				7	24A, 27, 47, 80	260	1-28	
504	Vol.	33-5025	18	N	6			5142	1	SR644	B12			9	24A, 27, 45, 80		1-30	
505	Vol.	33-5006	18	N	6			5142	1	HD684				9	24A, 27, 47, 80	260	2-40,42	
506 (Radio-Phono- graph)	Vol.	33-5068	18	TRP605	6			5142	1	HD684	B12			11	24A, 27, 47, 80		BC175 SW1000	
507	Vol.	33-5024	18	TRP605	6			5725	25	WE1650	B12			11	76, 77, 78, 37, 42, 5Z3	460		
509X	Vol.	33-5071	124	TRP619	6			30-2069	1	HD683				8	6A7, 78, 75, 42, 80	260	4-37,38	
511, 512, 513, 514, 515, 531, 551	Vol.	3076	2	G12				30-2003	19	BB13				8	6A7, 78, 75, 42, 80	260	4-37,38	
570 Grandfather's Clock (Below B-22,000)	Vol.	5039	2/8	DRP114				30-2025	1	SR643				6	6A7, 78, 75, 42, 80	460	1-39,40	
570 Grandfather's Clock (Above B-22,000)	Vol.	6015	45	O				30-2029	13/14	UR181	B137			6	6A7, 78, 75, 42, 80	460	1-39,40	
571	Vol.	3076	2	G12				30-2028	1	HD642				5	6A7, 78, 75, 42, 80	460	1-41,42	
600	Vol.	33-5152	6	UM121-SS12	M26			30-2026	13	HD684				6	6A7, 78, 75, 42, 80	460	8-105, 106	
602	Vol.	33-5145	18	UM154-SS12	M26			30-2026	13	HD684				8	78, 6A7, 75, 42, 80	260	5-39,40	
604	Vol.	38-7630	18	Order from Mfr.				30-2015	1/19	2N518				6	6A7, 78, 75, 42, 80	460	8-105, 106	
610, 610B, 610F, 610PF	Vol.	33-5106	18	N	6			30-2078	13/14	UR181	B149			10	78, 6A7, 37, 75, 42, 80	260	6-18, 8-102	
611, 611 (121)	Vol.	33-5114	18	N	6			30-2011	1/19	HD683								
620, 620 (Code 121)	Vol.	33-5105	124	TRP608	6			30-2046	1/19	2N518								
623	Vol.	33-5115	45	N	13			30-2080	13/14	UR181	B150							
624	Vol.	33-5137	45	N	13			30-2104	13	UR181	B151							
								4916	1	HD684				7	26, 27, 71A, 80		8-107, 9-4	
								5142	1	SR644	B12			7	24A, 27, 47, 80	260	1-17,18	
								4916	4	HD684				7	35, 24A, 47, 27, 80	260	3-31,32	
								5725	4	WE1650	B12							
								5142	4	SR644	B12							
								4916	1	HD684				7	26, 27, 71A, 80		7-80,81	
								30-2149	1	CM172	B1			4	6A7, 77, 41, 80	460	7-82,83	
								30-2148	1/15	3N526				5	6A7, 78, 75, 43, 25Z5	470	7-84,86	
								30-2154	41/15	3N526/BB21				5	6A7, 78, 75, 43, 25Z5	470	7-84,86	
								30-2025	1	SR643				5	6A7, 78, 75, 42, 80	460	6-19,21	
								30-2118	13	SR642	B8							
								30-2124	51	RS216				5	6A7, 78, 75, 43, 25Z5	460	6-23,24	
								30-2125	51/15	2N506				6	78, 6A7, 75, 42, 80	460	6-25,27	
								30-2079	1	SR642								
								30-2118	14	SR642	B8							
								30-2127	12/13	3S582				6	1C6, 34, 30, 32, 19	460	6-28,30	
								30-2138	1	2N516				6	1C6, 1A4, 30, 32, 19	460	7-91,93	
								30-2143	12/13	2N516								
								.01		Buffer	B11							

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO (Continue)																		
625	Vol.	33-5105	124	TRP608	6		A58	30-2079 30-2118	1 14	SR642 SR642	B8			6	78, 6A7, 75, 42, 80	460	7-94,96	
630, 630 (121), 635, 635 (Code 124)	Vol.	33-5105	124	TRP608	6		A58	30-2073 30-2118	1/19 14	3S579 SR642	B8			6	78, 6A7, 75, 42, 80	460	6-31,33 & 7-97, 101	
640 (Code 121), 640X (Code 122)	Vol.	33-5113	124	TRP608	6		A58	30-2117 30-2025 30-2114	1 1 13/14	SR644 SR643 UR181	B147			7	78, 6A7, 85, 42, 80	460	6-34,86	
641	Vol.	33-5116	124	TRP608	6			30-2132	39	TN113	B11			7	78, 6A7, 85, 76, 43, 78, 6A7, 76, 6F7, 85, 48	460	7-102	
642	Vol.	33-5120	124	TRP608	6			30-2127	12/13	3S582				7	1C6, IC1, 30, 32, 34, 19	460	8-108	
643	Vol.	33-5119	124	TRP613	13		A58	30-2117 30-2025 30-2080	1 1 13/14	SR644 SR643 UR181	B150			7	6A7, 78, 85, 42, 80	460	7-105	
645	Vol.	33-5113	124	TRP608	6		A58	30-2025 30-2015 30-2122	1 1 13/14	SR643 UR181	B146			8	78, 6A7, 75, 42, 80	460	6-37,39	
650	Vol.	33-5108	124	TRP613	6		A58	30-2015 30-2124 30-2147	1/19 51 51/15	2N518 UR181 RS216 3N525				8	78, 6A7, 85, 76, 43, 25Z5	460	7-111, 113	
651	Vol.	33-5116	124	TRP608	6		A58	30-2025 30-2045 30-2122	1 1/19 13/14	SR643 2N518 UR181	B146			8	6A7, 78, 75, 42, 80	460	7-114, 116	
655	Vol.	33-5108	124	TRP613	6		A58	30-2025 30-2015 30-2122	1 1/19 13/14	SR643 2N518 UR181	B146			10	78, 77, 76, 75, 42, 80	460	6-40, 12 and 7-117, 119	
660, 665, 665 (Code 122)	Vol.	33-5110	124	TRP613	6		A58	30-2025 30-2015 30-2122	1 1/19 13/14	SR643 2N518 UR181	B146			10	78, 77, 76, 75, 42, 80	460	6-40, 12 and 7-117, 119	
680	Vol. Tone Sel.	33-5117 33-5118 33-5124	124 15	N O Order from Mfr.			A58	30-2028 30-2129 30-2130 30-2128	1 1 13/14 19	SR642 SR642 UR181 RS208	B153			15	6B7, 76, 78, 85, 6F7, 42, 6A3, 5Z3, 80	460	7-120, 122	
700	Vol.	38-5534	18	N	6	FS251	A51	30-2072 .01	1/15	CM172/BB12 Buffer	B14	38-5036	500P	C3	6	44, 77, 75, 42, 84	260	5-47,48
800	Vol.	33-5058	18	O	6	FS251	A51	30-2015 30-4135 .01	1 14/15	CM172 See Note	B135 B14	38-5036	500P	C3	7	41, 6A7, 75, 37, 79, 84	260	4-61,62
800 (Code 122), 802	Vol.	38-5851	18	TRP605	6	FS251	A51	30-2015 30-4135 .01	1 14/15	CM172 See Note	B135 B14	38-5036	500P	C3	7	41, 6A7, 75, 37, 79, 84	260	5-49,50 & 6-45
805	Vol.	38-6635	18	N		FS251	A51	30-2115 .01	4	CM170 Buffer	B14	38-5036	500P	C3	5	6A7, 78, 75, 41, 84	260	6-46,47
806	Vol. Tone	38-6605 33-5101	18 22	TRP605 L		FS251	A58/ A51	30-2109 .01	4	CM172 Buffer	B14	38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	6-48,52
808	Vol. Tone	38-6636 33-5096	124 41	Order from Mfr. Order from Mfr.				30-2112 30-2110 30-2111	1 11 15	CM172 CS133 TN113	B14 B3	38-5036	500P	C3	7	77, 6A7, 78, 75, 76, 6A6, 84	260	6-50,54
809	Vol. Tone	38-6605 33-5101	18 22	N L		FS251	A51	30-2109 .01	4	CM172 Buffer	B14	38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	6-52,54
810PA, 810PB, 810PV	Vol.	38-6605	75	TRP605		FS251	A67/ A51	30-2109 .01	4	CM172 Buffer	B14	38-5036	500P	C3	7	78, 6A7, 75, 41, 84	260	6-55,57
811PA, 811PB, 811PV	Vol.	33-5139	75	SRP282			A67	30-2145 .01	4	CM170 Buffer	B14	41-3186	507P	C3	7	78, 6A7, 75, 41, 84	VAR	7-124, 126
816, 816B	Vol.	33-5148	18	SRP282			A67	30-2145 .01	4	CM170 Buffer	B14	38-5036	500P	C3	6	78, 6A7, 75, 41, 84	260	7-127, 136
817	Vol.	33-5148	18	SRP282			A67	30-2150 .0075	4	SR639 Buffer	B14	41-3170D	501P	C3	6	78, 6A7, 75, 41, 84	260	7-128, 136
818, 818K	Vol. Tone	33-5149 33-5150	18 22	Order from Mfr. Order from Mfr.				30-2150 .0075	4	SR639 Buffer	B14	41-3170D	501P	C3	6	78, 6A7, 75, 41, 84	260	7-130, 136
819, 819H	Vol. Tone	33-5149 33-5150	18 22	Order from Mfr. Order from Mfr.				30-2152 30-2151 .0075	23 14	SR639 ST585 Buffer	B14	41-3170D	501P	C3	7	78, 6A7, 75, 41, 84	260	7-133, 136
821P	Vol.	33-5148	75	SRP282			A67	30-2150 .006	4	SR639 Buffer	B14	41-3315-3	506P	C3	7	78, 6A7, 75, 41, 84	274	8-111, 114
821PV	Vol.	33-5148	75	SRP282			A67	30-2150 .006	4	SR639 Buffer	B14	41-3315-3	506P	C3	7	78, 6A7, 75, 41, 84	260	8-113, 114
826	Vol.	33-5148	18	SRP282			A67	30-2150 .0075	4	SR639 Buffer	B14	41-3170	505P	C3	6	78, 6A7, 75, 41, 84	260	8-115, 118
827	Vol.	33-5148	18	SRP282			A67	30-2150 .0075	4	SR639 Buffer	B14	41-3170	505P	C3	6	78, 6A7, 75, 41, 84	260	8-116, 119
827K	Vol.	33-5148	18	SRP282			A67	30-2150 .0075	4	SR639 Buffer	B14	41-3170	505P	C3	6	78, 6A7, 75, 41, 84	260	8-121, 122
828	Vol.	33-5148	18	SRP282			A67	30-2150 .006	4	SR639 Buffer	B14	41-3170	505P	C3	7	78, 6A7, 75, 41, 84	260	8-120, 124

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PHILCO—Continued																		
828K	Vol.	33-5148	18	SRP282			A67	30-2213	1/19	3S579		41-3170	505P	C3	7	7B8, 6A7, 85, 441, 84	260	8-123, 124
901, 902	Vol.	33-5206	16	MR33				30-2203	1	2N506	B14				4	6K5G, 25A6G, 25Z6G		
920	Vol.	33-5269	18	MR44	M26			30-2198	15	TN111					5	6A7, 78, 75, 41, 84	260	9-26,27
921, 922 (Run No. 2)	Vol.	33-5278	18	UM154	M26		A96	30-2311S	23	2S567	B14	41-3398	508P	C3	5	6A7, 78, 75, 41, 84	470	9-27,28
926	Vol.	33-5268	17	UM161-SS27	M26			30-2329	4	2S567	B14	41-3398	508P	C3	5	6A7, 78, 75, 41, 84	260	9-29,30
927	Vol.	33-5268	17	UM161-SS27	M26			30-2315	23	SR645	B14	41-3170	505P	C3	6	7B8, 6A7, 75, 41, 84	260	9-31,32
928K	Vol.	33-5268	17	UM161-SS27	M26			30-2316	4	SR645	B14	41-3170	505P	C3	7	7B8, 6A7, 75, 41, 84	260	9-30,33
931, 932	Vol.	67-0020	18	Order from	Mfr.			61-0068	24/15	FPT328	B14	83-0017	509P	C3	6	7B7, 7A8, 7C6, 7A5, 7Y1	455	11-81
933	Vol.	67-0019	18	Order from	Mfr.			61-0028	24/15	FPT328	B14	83-0017	509P	C3	6	7A7, 7B8, 7B6, 7B5, 7Y1	470	11-83
936	Vol.	33-5268	17	UM161-SS27	M26			61-0028	1/15	FPT328	B14	41-3398	508P	C3	6	7A7, 6A7, 75, 41, 7Y4	470	10-40
937	Vol.	33-5268	17	UM161-SS27	M26			61-0028	1/15	FPT328	B14	41-3398	508P	C3	6	7A7, 6A7, 75, 41, 7Y4	470	10-41
938K	Vol.	33-5268	17	UM161-SS27	M26			61-0028	1/15	FPT328	B14	41-3398	508P	C3	7	7A7, 6A7, 75, 7A4, 6U7G, 7Y4	470	10-43
2620	Vol.	33-5105	124	TRP608	6		A58	30-2079	1	Buffer	B14	41-3398	508P	C3	7	7B8E, 6A7, 75, 42E, 80	460	8-149, 150
30-2118								30-2118	14	RS216								
PIERSON-DELANE																		
PR15C, PR15M, PR15R, PR15UH, PR15X	Man./Vol./Tone/Noise/Meter/Sen.		7/76/76/7/7	J/ MR48/ MR48/ C1MP/ C200P/ C1MP	M26			16, 16/ 8/ 25	1/ 13/ 15	RS216/ RS213/ BB15					15	6K7, 6A8, 6K6G, 6116, 6N7, 61Z, 6Q7, 6C5, 6J7, 6V6G, 5X4G	465	9-1,4
PILGRIM																		
D, DE (Above 428001)	Vol. Tone		17/22	MR48				20-20	6	2N509					6	75, 6G5, 6A7, 6K7, 25Z5, 43	456	10-1
DA, DAE	Vol. Tone		17/22	MR48/ MR39				5	15/19	BB12/ BB11					4	1C6, 1A4, 1B5, 30	456	9-1
DB, DF	Vol. Tone		17/22	N/ L	6			4-8/ 5-5	1/ 15	2N518/ TN111		76	245C	C3	4	6D8G, 6S7G, 6Q6G, 38	456	9-1
G (707,001 and up)	Vol. Tone		15/34	MR48				16-16-8-4	9/13	See Note	B3				8	6L7, 6D6, 6116, 75, 25B5, 76, 6C5, 25Z5	456	10-2
GB, GBE (780,001 and up)	Vol. Tone		15/22	MR48				8-8/ 5	1/ 15	2N516/ BB12			245C	C3	5	6D8G, 6S7G, 6L5G, 6Q6G, 38	456	10-2
GE (707,001 and up)	Vol. Tone		15/34	MR48				16-16-8-4	9/13	See Note	B3				8	6L7, 6D6, 6116, 75, 25B5, 76, 6C5, 25Z5	456	10-2
GF, GFE (780,001 and up)	Vol. Tone		15/22	MR48				8-8/ 5	1/ 15	2N516/ BB12			See Note	C8	5	6D8G, 6S7G, 6L5G, 6Q6G, 38	456	10-2
GH, GHE (707,001 and up)	Vol. Tone		15/34	UM154			A96	20-20	6	2N509					8	6D6, 6L7, 6116, 6G5, 76, 75, 25B5, 25Z5	456	10-1
200	Vol.		6	MR29			EX3M	16-16	24	2N506					3	6K7, 6J7, 25A7G		10-3
210	Vol.		6	MR29				8-8	24	2N502					4	6D6, 6C6, 38, 76		9-1
313, 314	Vol.		6	MR29			A14	16-16-8	8	2N506/BB21					4	6D6, 6C6, 43, 25Z5		9-2
623, 624, 643, 644	Vol.		18	MR44				8	1	ST595					5	6A7, 6D6, 75, 41, 80	465	10-3
713, 714, 753, 754	Vol.		18	MR44	M26			12	1	ST596					5	6A7, 6D6, 75, 43, 25Z5	465	9-2
860	Vol. Sen.		127	MR48				5	15	BB12					8	6K7, 6C5, 6F5, 6F6, 6E5, 80, 6J8G	160	10-4
930	Vol.		50	MR44				8, 8	4	RS213					2	76, 6A7		10-1
20-20								20-20	24	2N509								
PILOT																		
Dual Wave TRF Midget	Vol. Tone		7/34	E/ L				12-8	4	See Note	B3				5	51, 24A, 47, 80		2-1
Pilotone (Electric)	Vol.		4	D12											6	26, 27		1-3
B1	Vol.	36-5	18	MR48	M26			24-40	25	2S558	B3				6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-1

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PILOT—Continued																		
T1.....	Vol.	36-5.....	18	MR48.....	M26			24-40.....	25	2S558.....	B3				6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT.....	455	12-1
2.....	Vol.		6	Y.....	6			1-12-8.....	8	TN122.....					5	77, 78, 43, 25Z5.....	456	4-1
B2 Standard.....	Vol.		6	Y.....	6			5.....	15	BB12.....					5	77, 78, 43, 25Z5.....	456	3-8
B2 (Late).....	Vol.	36-5.....	18	MR48.....	M26			4-8-12.....	6	TN122.....					6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT.....	455	12-1
T2.....	Vol.	36-5.....	18	MR48.....	M26			5-5.....	15	TN111.....					6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT.....	455	12-1
D3.....	Vol.		6	G12.....	6			24-40.....	25	2S558.....	B3				6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT.....	455	12-1
4 Tube DC Super.....	Vol.		5	G12.....		EX 150									4	77, 78, 43, 25Z5.....	456	4-1, 3-9
PE6SG.....	Vol.		72	K12.....				70871.....	8/15	UR189.....	B134				5	77, 78, 43, 25Z5.....	455	4-1, 3-9
7, 8 (Dragon AW).....	Vol.		17	UC503.....				2.....	4	See Note.....	B3				4	36, 37, 48.....	456	4-3
Tone Supp. L8 (8 Tube Dragon).....	Vol.		34	L.....	6			1.....	4	TN111.....					7	24, 27, 271A, 80.....	115	1-5
Vol. Sen. L8 (8 Tube Dragon).....	Vol.		17	UC503.....				8-8.....	4	See Note.....	B3				8	58, 57, 56, 2A6, 2A5, 5Z3.....	115	5-2, 4
10AC Dragon Super.....	Vol.		34	L.....	6			5-5.....	15	TN111.....					8	58, 56, 57, 55, 2A5, 5Z3.....	115	5-1
11 Dragon DC.....	Vol.		6	H7.....		5		8-8.....	23	See Note.....	B3				7	58, 57, 56, 47, 80.....	115	4-2
H11.....	Vol.		25	GG.....		EX 100		5-5.....	15	TN111.....					7	36, 39, 37, 38.....	115	3-7
12.....	Vol.		18	MR53.....	M27			8-8.....	4	See Note.....	B3				4	1A7G, 1N5G, 115G, 1C5G.....	455	4-4
Tone Sen. 12.....	Vol.		34	N.....				P22483.....	14	CS130.....					6	57, 58, 55, 56, 59, 82.....	456	4-4
H12.....	Vol.	83903.....	5	G12.....				5.....	15	BB11.....					4	1A7G, 1N5G, 115G, 1C5G.....	455	10-1
F14 DC.....	Vol.		18	MR53.....	M27			23500H.....	12	BB21.....					6	77, 78, 85, 37, 38.....	456	4-3
Tone Sen. F14 DC.....	Vol.		22	UC503.....				4-4.....	13	2N516.....					6	77, 78, 85, 37, 38.....	456	4-3
20.....	Vol.		5	G12.....											6	57, 58, 55, 2A5, 25Z5.....	115	4-4
Tone Sen. 20.....	Vol.		17	UC503.....				8-8.....	4	CM172.....	B3				5	6A7, 6F7, 42, 80.....	456	6-1
23, 25 (20 Series).....	Vol.		21	UC503.....				5.....	15	BB11.....					7	24A, 27, 35, 47, 80.....	115	3-2
Tone Sen. 23, 25 (20 Series).....	Vol.		7	H.....											4	6A7, 6F7, 42, 80.....	456	3-1
28DC.....	Vol.	78714.....	15	UC503.....				85007.....	4	2S558.....					7	6K7, 6A8, 6Q7, 25L6, 25Z6, 6A5.....	456	8-1, 3
Tone Sen. 28DC.....	Vol.	78821.....	34	G12.....	6			85008.....	13	2N502.....					8	39, 36, 85, 37, 38.....	115	4-5
31-81 (Rainbow Super).....	Vol.		18	UC503.....		5	A27	22481.....	15	BB12.....	B11				4	57, 2A5, 82.....	115	4-6
TP32.....	Vol.	36-9.....	2	G12.....				8-8.....	4	CM172.....	B3				4	57, 2A5, 82.....	115	4-6
33, 35 (30 Series).....	Vol.		124	TM248-SS1.....	M26			5.....	15	BB12.....					6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT.....	455	12-2
Tone Sen. 33, 35 (30 Series).....	Vol.	78845.....	15	UC503.....	6			24-41.....	25						5	6A8, 6K7, 6Q7, 6F6, 5Y3G.....	456	
39 Series.....	Vol.	78846.....	34	L.....				71045.....	1	RM262.....					5	6A7, 6F7, 42, 80.....	456	6-1
41 AC.....	Vol.		25	GG.....				72353.....	14	CS133.....					7	24A, 27, 35, 47, 80.....	115	3-2
41 Series DC Dragon.....	Vol.		34	K12.....				22481.....	15	BB12.....	B3				4	6A7, 6F7, 42, 80.....	456	6-1
X41.....	Vol.	71656.....	7	E.....	6	2		8-8.....	4	See Note.....					7	24A, 27, 35, 47, 80.....	115	3-2
43 (with 47 output).....	Vol.		34	G12.....				71647.....	1	SR638.....					4	6A7, 6F7, 42, 80.....	456	7-1
43, 45 (with 42 output).....	Vol.		6	K12.....				71647.....	1	SR638.....					4	6A7, 6F7, 42, 80.....	456	7-1
Y43, Y45.....	Vol.		7	D12.....		2		P22455.....	4	CS133.....					5	58, 57, 47, 80.....	456	4-8
G44, G45 (G40 Series).....	Vol.		34	L.....				4.....	4	CS133.....					4	6A7, 6F7, 42, 80.....	456	6-2
T44.....	Vol.	79297.....	17	O.....				71647.....	1	SR638.....					4	6A7, 6F7, 42, 80.....	456	6-2, 7-11
Tone Sen. T44.....	Vol.	78846.....	22	L.....				8-4.....	1	RM262.....					4	6A7, 6F7, 42, 80.....	456	6-2, 7-11
T47.....	Vol.	83529B.....	124	TM236-SS1.....	M26			71203.....	12	RS203.....					5	1C7G, 1D5G, 1H6G, 1F5G.....	456	8-2, 3
45 (Long Wave).....	Vol.		7	E.....	6	2		22481.....	20	BB12.....					6	6SK7, 6SA7, 6SQ7, 6F6G, 5Y3G.....	455	12-3
X48, X49.....	Vol.	72262.....	7	A3MP.....	6	2		24-11.....	25	BB4.....					6	6SA7, 6SK7, 6SQ7, 25L6G, 6U5.....	455	12-3
53.....	Vol.	78557.....	22	G12.....				24-3.....	25	BB61.....					6	6SA7, 6SK7, 6SQ7, 25L6G, 6U5.....	455	12-3
55 Captain Kidd Chest.....	Vol.		17	UC503.....				24-32.....	1	FDP221.....	B117				6	6SA7, 6SK7, 6SQ7, 25L6G, 6U5.....	455	12-3
55 (with 42 output).....	Vol.		34	L.....	6			24-14.....	15	BB17.....					4	6A7, 6F7, 42, 80.....	456	12-4
G56, G57 (G50 Series).....	Vol.	78647.....	17	UC503.....	6			24-6.....	15	BB12.....					4	6A7, 6F7, 42, 80.....	456	12-4
Tone Sen. G56, G57 (G50 Series).....	Vol.	78648.....	34	L.....				8-1.....	1	RM262.....					4	6A7, 6F7, 42, 80.....	456	8-4
								71600.....	1	3-BB20.....					5	6A7, 6F7, 43.....	456	8-4
															5	6A7, 6D6, 75, 42, 80.....	115	5-6, 7
															5	6A7, 6D6, 75, 42, 80.....	115	5-6, 7
															5	58, 57, 47, 80.....	115	3-10
															5	6A7, 6D6, 75, 42, 80.....	115	5-7, 8
															5	6D6, 6A7, 75, 41.....	456	8-5, 6

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
PILOT—Continued																			
63.....	Vol. Tone	70955	17	UC503				71106	1/13	CM172/CM170	B3				6	6D6, 6A7, 75, 42, 80	156	6-3,4	
		70954	34	L	6			70991	15	TN111									
X63, X65	Vol. Tone	71913	17	UC503				71916	13/15	3S579					6	6D6, 6A7, 75, 42, 80	156	6-5,6	
		71914	34	L	6			71915	13/15	CM170/BB12	B3								
H64.....	Vol. Tone	83763	17	1 Meg.		See Note	A19	23600C	1/13	FPT374			850	C3	7	6S7G, 6K8, 6T7G, 6L5G, 1J6G, 6ZY5G			
		83447C	44	UM140		See Note	A96	.01		Buffer	B14						455	10-3	
68 DC.....	Vol. Tone		17	UC503				4-4-4	26	Order from Mfr.					6	6D6, 6A7, 75, 43	456	5-9	
			34	G12				5	15	BB12									
X68, X69 (DC)	Vol. Tone	71913	17	UC503				4-4-4	26	Order from Mfr.					6	6D6, 6A7, 75, 43	456	6-7,8	
		72138	22	G12	6			22481	15	BB12									
73, 75.....	Vol. Tone		15	NN				71203	12	RS203					7	334, 1C6, 1A6, 30, 19	456	6-9	
			44	L	7														
X73, X75.....	Vol. Tone	71913	15	UC503				71203	12	RS203					7	334, 1C6, 1B5, 30, 19	456	6-11,12	
		78629	44	L	7														
81 (Dragon AW)	Vol. Tone		17	UC503				8-8	4	See Note	B3				8	58, 357, 56, 2A6, 2A5, 5Z3	115	5-2,4	
			34	L	6			2-2	13	See Note	B3								
	Supp.		12	Y				5-5	15	TN111									
81 Rainbow	Vol.		2	G12		EX200		8-8	4	See Note	B3				4	57, 2A5 or 47, 80 or 82	482	3-9	
								5	15	BB12									
84 (Dragon AW)	Vol. Tone		17	UC503				8-8	4	See Note	B3				8	58, 357, 56, 2A6, 2A5, 5Z3	115	5-2,4	
			34	L	6			2-2	13	See Note	B3								
	Supp.		12	Y				5-5	15	TN111									
91.....	Vol.	83529B	124	TM236-SS1	M26			23500MX	25	FPS146	B117	84750	294	C3	5	7A8, 7B7, 7C6, 6C6G, 6ZY5G	455	12-5	
								23500EX	25	FPS145	B117								
								.006		Buffer	B14								
								70871	8/15	UR189	B134								
93 (AC-DC)	Vol.		17	UC503											5	6A7, 6D6, 75, 43, 25Z5	456	5-10,7-2	
T101.....	Vol. Tone	83529B	124	TM236-SS1	M26			23500MX	25	FPS146	B117				6	12SK7, 12SA7, 12SQ7, 501, 6GT, 35Z4GT	455	11-1	
		79209D	22	MR18				23500EX	25	FPS145	B117								
103, 105.....	Vol.	71211	17	UC503	6			71015-B	1	RM262					5	6A7, 6D6, 75, 42, 80	456	6-13,14	
								71215	13	CS133									
SG105.....	Vol.		12	M				†	†	See Note	B1				6	24, 27, 37, 80			
X105.....	Vol. Tone	71211	17	MR51	M26			71045	†	RM262					5	6A7, 6D6, 75, 42, 80	456	8-7,8	
		71615	22	MR38				72353	13	BB160									
K106.....	Vol.	942	12	M				†	†	See Note	B1				7	24, 27, 71A, 80			
108, 109 (DC)	Vol. Tone	71211	17	UC503	6			71600	26	Order from Mfr.					5	6A7, 6D6, 75, 43	456	6-10,7-2	
		71634	34	G12				22481	15	BB12									
K108.....	Vol.	350	4	E12				†	†	See Note	B1				7	26, 27, 37, 80			
H14, H15	Vol. Sen.	71566	15	UC503	6			71589	41/13	3S579					11	6D6, 6A7, 76, 85, 6C6, 42, 5Z3	456	6-15,16	
		71567	7	E				71588	41/14	2N518									
								71590	15	TN113									
K117 "Twin Screen Grid 8"	Vol.		2	D12				2-3-3	3	See Note	B1				8	24, 27, 45, 80		1-4	
K121, K121X (Battery Country Special)	Vol.	940	12	K12															
T121.....	Vol. Tone	83529B	124	TM236-SS1	M26			23500MX	25	FPS146	B117				6	24, 301A, 312A		1-5	
		79209D	22	MR19				23500EX	25	FPS145	B117				7	12SK7, 12SA7, 12SQ7, 501, 6GT, 6A1B5, 35Z4GT	455	11-3,4	
T122.....	Vol. Tone	83529B	124	TM236-SS1	M26			23500MX	25	ST597					7	6SK7, 6SA7, 6SQ7, 6P6G, 6U5, 5Y3G	455	11-3,4	
		84642	22	MR33				23500EX	25	BB161									
K122, K123, K124	Vol.	940	12	K12				3-3-3	3	See Note	B1				7	24A, 27, 71A, 80		1-5	
123.....	Vol. Tone	70955	17	UC503				71676	1/24	UR182					6	6D6, 6A7, 75, 43, 25Z5	456	6-17,18	
		70954	34	L	6			71675	15	TN111									
125.....	Vol. Tone	70955	17	UC503				71676	6/13	UR182					6	6D6, 6A7, 75, 43, 25Z5	456	7-3,4	
		70954	34	L	6			71675	15	TN111									
K126, K128	Vol.	940	12	K12				3-3-3	3	See Note	B1				7	24, 27, 45, 80		1-5	
H134, 135 (Ch. H130)	Vol. Tone	83529B	17	TM236-SS1	M26			85039	1	FPD238	B3				5	6K8, 6K7, 6Q7, 25L6G, 25Z6G	455	10-13	
		83447B	34	L				10	15	BB12									
K136 AC Universal Wasp	Vol.	940	12	K12			A58	4-2-2-1-1	†	See Note	B1				6	24, 27, 45, 80		2-2	
140 Auto Set	Vol.	941	12	L											6	24A, 27, 45		1-6	
H141.....	Vol.	83625	88	MR48	M26			16	1	BB24				4	6D6, 6C6, 25L6G, 25Z5		10-14		
								10	15	BB12									
S141 Universal W145 Public Address System	Vol.		12	K12				2-2-4	3	See Note	B1				6	24, 27, 45, 80		2-1	
S148.....	Vol. Tone		7	N				†	3	See Note	B1				7	27, 30, 381		1-1	
			34	D				12-8	4	See Note	B3				7	51, 24, 27, 47, 80	175	3-5	
TH150, H151 (Ch. H150)	Vol.	79429	18	MR48	M26			16	1	BB24					5	6A8, 6K7, 6Q7, 25L6G, 25Z6G	455	10-9	
								30	1	BB26									
C151.....	Vol. Tone		7	D				12-8	4	See Note	B3				7	51, 24, 27, 47, 80	175		
			34	L															
C153, C154 (with 2-45a)	Vol. Tone		23	MM				8-8-4	1/14	See Note	B3				10	51, 27, 45, 80	175	2-3	
			41	L															
C153, C154 (with 47a)	Vol. Tone		23	MM				8-8-8-4	3/14	See Note	B3				10	51, 27, 47, 80	175	2-4	
			41	L															

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PILOT—Continued 153, 155, X153, X155 Model AC Midget S155, S155A, S155B, S155F	Vol.	72398	15	UC503	7			71203	12	RS203					5	1C6, 34, 1B5, 33	456	7-5
	Vol.		6	E12			A4	2-3-4-1	3	See Note	B1				6	24, 27, 45, 80		3-3
	Vol. Tone		12	K12			A27											
	Vol. Tone		21	N			A4											
S156, S158 DC Midget AC Midget C157, C157A, C157B, C157F	Vol.		11	K12				6	↓	See Note	B11				6	01A, 71A		3-4
	Vol. Tone		21	K12				2-3-4-1	3	See Note	B1				6	24A, 27, 45, 80		3-3
	Vol. Tone		21	N			A4											
C162	Vol. Tone		7	D				12-8	4	See Note	B3				7	51, 24, 27, 47, 80	175	3-5
	Vol. Tone		34	L														
G162, TG162, G163 (G160 Series)	Vol.	79540	18	MR44	M26			30-20	4	2P553					5	6A7, 6D6, 75, 25L6, 25Z5	456	8-9, 12
G162A, G162B, G163A, G163B	Vol.	79540	18	MR44	M26			85027	1	2N506					5	6A7, 6D6, 75, 43, 25Z5, Ballast Tube	456	8-10
S164	Vol. Tone		7	D				12-8	4	See Note	B3				7	51, 24, 27, 47, 80	175	3-5
	Vol. Tone		34	L														
C165	Vol. Tone		7	D				12-8	4	See Note	B3				7	51, 24, 27, 47, 80	175	3-5
	Vol. Tone		34	L														
171 Amplifier and Power Supply G174, G175 (G170 Series)	Mic.			A100P				2-2-2	3	See Note	B1				4	27, 271A, 80		1-1
	Vol. Tone	78714	17	UC503				85007	4	2S558					7	6K7, 6A8, 6Q7, 25L6, 25Z6G, 6C35	456	
	Vol. Tone	78821	34	G12	6			85008	13	2N502								
								22481	15	BB12								
183	Vol. Tone	71211	15	UC503	6			71045	28	RM262					6	6A8, 6K7, 6H6, 6J7, 6P6, 5Z4	456	6-19, 20
	Vol. Tone	71615	34	L				72168	28	CS133								
								22481	15	BB12								
G184, PG184, TG184, G185 (G180 Series)	Vol. Tone	78714	17	UC503				85007	4	2S558					7	6K7, 6A8, 6Q7, 25L6, 25Z6G, 6C35	456	8-11, 12
	Vol. Tone	78821	34	G12	6			85008	13	2N502								
								22481	15	BB12								
185	Vol. Tone	71211	15	UC503	6			71045	28	RM262					6	6A8, 6K7, 6H6, 6J7, 6P6, 5Z4	456	6-19, 20
	Vol. Tone	71615	34	L				72168	28	CS133								
								22481	15	BB12								
T186	Vol.	36-4	17	TM248-SS1	M24			24-37	24	F1Q410	B220				6	1N56GT, 1A7GT, 1H15GT, 1Q5GT, 25Z6GT	262	12-6
								24-30	78	BB17								
T187	Vol.	36-4	17	TM248-SS1	M24			24-37	24	F1Q410	B220				6	1N56GT, 1A7GT, 1H15GT, 1Q5GT, 25Z6GT	262	12-6
								24-30	78	BB17								
191	Vol. Tone	83529B	17	TM236-SS1	M26			23600B	1	F1P238					12	6U5, 6SK7, 6SA7, 6SQ7, 25L6G, 25Z6G, Ballast	455	12-7
	Vol. Tone	84826	22	MR51				23500A	13	BB24								
								23500G	15	BB17								
								23500B	15	BB12								
								1-4	1	See Note	B3				4	24A, 27, 80		2-4
V191, S.W. Conv. 193, C193, 195 (190 Series)	Vol. Tone	78845	17	UC503	6			71045	1	RM262					5	6A8, 6K7, 6Q7, 6P6, 5W4 or 5Y3G	456	7-7, 8 8-13
	Vol. Tone	78846	34	L				72353	13	CS133								
								22481	15	BB12								
D194	Vol. Treble-Bass-Mike-Mixer	83-529B	124	TM236-SS1	M26			24-32	6	F1P238					14	6SK7, 6SA7, 6SQ7, 6U5, 6SC7, 25L6G, 25Z6G	455	12-9, 10
		84826	1	MR51				24-8	13	BB24								
		84826	1	MR51				24-14	15	BB17								
		36-7	15	MR53				24-6	15	BB12								
		36-6	1	Order from Mfr.														
VX201, WX201, X201	Vol. Tone	79204	17	UC503	6			85014	4	RS208					5	6A7, 6D6, 75, 25L6, 25Z5	456	9-1, 2
	Vol. Tone	71615	22	L				85021	1/13	2N507								
								22481	15/19	BB12								
203, 205	Vol.	78697	17	P	6			72382	1	2N506					5	6A8, 6D6, 75, 43, 25Z5	456	7-6
								78704	13	RS203								
								22481	15	BB12								
X203, BX203, UX203, WX203, X205	Vol.	79204	17	UC503	6			85014	4	RS208					5	6A7, 6D6, 75, 25L6, 25Z5	456	
								85021	4/13	2N507								
								22481	15/19	BB12								
213	Vol. Tone	72119	15	UC503				71045	1	RM262					7	6K7, 6A8, 6H6, 6J7, 6P6, 5Z4	456	6-21, 7-2
	Vol. Tone	72120	22	L	6			72252	24	2N518								
								70971	15	TN111								
215	Vol. Tone	72119	15	UC503				71045	1	RM262					7	6K7, 6A8, 6H6, 6J7, 6P6, 5Z4	456	6-21, 7-2
	Vol. Tone	72120	22	L	6			72252	24	2N518								
								70971	15	TN111								
223	Vol. Tone		17	MR51				16-12	1	2S562					6	6D6, 6A7, 75, 43, 25Z6	456	8-14
	Vol. Tone		22	L	6			1	13	BB40								
								10	15	BB12								

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
PILOT—Continued																		
H224 (Ch. H220)...	Vol. Tone	83529 79209B	17 44	TM236-SS1 MR39	M26		23600B 23600A	1 24/13	FPD238 FPT368					11	6K7, 6K8, 6R7, 6U5, 25L6G, 25Z6G, 523	455	10-5	
253, 255	Vol. Tone	78647B 78648B	17 34	UC503 L	6		78623 22481	1/13 15	3S582 BB12		85X 45	285XS 245	C17 C18 C19	5	6D6, 6A7, 75, 41	456	7-8,9	
268, 269	Vol. Tone	71913 72138	17 34	MR51 MR18	M26		85001 22481	46 15	Order from BB12	B14		245A		6	6K7, 6A8, 6Q7, 25A6	456		
G274	Vol. Tone	78714 78715	17 34	UC503 L	6		78594 85013	1/13 13	RM257 3S582					7	6K7, 6A8, 6Q7, 25A6, 25Z6G, 6U5	456		
G274J	Vol. Tone	78714 78715	17 34	UC503 L	6		12-12-4 31-4	1/13 1/13	RM257 RM259	B3 B3				7	6K7, 6A8, 6Q7, 25A6, 25Z6G, 6U5	456		
G284	Vol. Tone	78714 78821	17 34	UC503 G12	6		22481 85007	15 4	BB12 2S558					7	6K7, 6A8, 6Q7, 25L6, 25Z6G, 6U5	456	9-3,4	
293, 295, S295	Vol. Tone	78714 78715	17 34	O L	6		85004 85005	1 1	RS215 RS216					6	6K7, 6A8, 6Q7, 6F6, 5W4	456	7-11,12	
304, 305 (300 Series)	Vol. Tone	78669 78668	17 44	MR55 MR39	M26		78689 78688	1 13	2N514 RM259					11	6K7, 6A8, 6R7, 25A6, 25Z6, 6U5	456	7-13,14	
X304, X305 (X300 Series)	Vol. Tone	78669 79209	17 44	MR57 MR18	M26		85014 78688	1 13	RS208 RM259					11	6K7, 6A8, 6R7, 25A6, 6U5, 25Z6	456	8-16,17	
H324 (Ch. H320)	Vol. Tone	83529A 79209B	17 44	TM236-SS1 MR39	M26		1123600B 1123600A	1 24/13	FPD238 FPT368					11	6K7, 6K8, 6R7, 6U5, 25L6G, 25Z6G	455	10-5	
G352, VG352, WG352, G353	Vol.	79561	17	MR51	M26		85014 85021	4 4/13	RS208 RM257					5	6A7, 6D6, 75, 25L6, 25Z5	456	9-2,5	
364, 365 (360 Series)	Vol. Tone Cir'ty	72203 72202 72197	1 44 1	Order from L 20M	Mfr.	See Note A3	22481 72195 72194	15/19 1/20 13/14	BB12 RM265 3S584/BB60					12	6K7, 6C5, 6L7, 6J7, 6P5, 6F6, 5Z4	456	7-15,16	
H372, H373 (Ch. H370)	Vol.	79540	18	MR44	M26		23500E 22481	1 15	2S569 BB12	B8				6	6K8, 6K7, 6Q7, 25L6G, 6U5, 25Z6G	455	10-7	
H384, H385 (Ch. H380)	Vol. Tone	83529A 83447A	18 34	TM236-SS1 L	M26		FPD238 22481	B117 15	BB12 RM262					7	6K7, 6K8, 6Q7, 25L6G, 6U5, 25Z6G	455	10-17	
393, 395, S393	Vol. Tone	78714 78715	17 34	MR53 L	6		71045 22481	1 15	RM262 BB12					7	6K7, 6A8, 6Q7, 6G5, 6F6, 5W4	456	7-10,14	
403, 405 (400 Series)	Vol. Tone	78845 78846	17 34	MR51 L	M26		72352 71045-A	24 13	2N518 RM262					5	6A8, 6K7, 6Q7, 6F6, 5W4	456	9-6,8	
423, 425 (420 Series)	Vol. Tone	78986 78987	17 34	MR51 L	6		72353 71676	13 1/13	CS133 UR182					6	6K7, 6A8, 6Q7, 25L6, 25Z6	456	9-7,8	
TP423, TP425 (TP420 Series)	Vol. Tone	78986 79070	17 34	MR51 Y	6		85014-B 78688	25 25/13	RS208 TN125					6	6K7, 6A8, 6Q7, 25L6, 25Z6G	456		
H454, H455 (Ch. H450)	Vol. Tone	83529C 83447C	17 34	TM236-SS1 MR39	M26		85039 22481	1 15	FPD238 BB12	B117				5	6K8, 6K7, 6Q7, 25L6G, 25Z6G	455	10-10	
G462	Vol.	79540	18	MR44	M26		85026 85032	4 13	2P553 CM170					5	6A7, 6D6, 75, 25L6, 25Z5	456		
G462A, G462B	Vol.	79540	18	MR44	M26		85207 85035	1 13	RM257 CM170					5	6A7, 6D6, 75, 43, 25Z5	456		
G463A, G463B	Vol.	79540	18	MR44	M26		22481 85027	15 1	BB12 RM257					5	6A7, 6D6, 75, 43, 25Z5	456		
H474, H475 (Ch. H470)	Vol. Tone	83529B 83447B	17 34	TM236-SS1 MR39	M26		85039 10	1 15	FPD238 BB12	B117				6	6K8, 6K7, 6Q7, 25L6G, 25Z6G, 6U5	455	10-13	
H484, H485 (Ch. 480)	Vol. Tone	83529A 83447A	20 34	TM236-SS1 MR39	M26		85042 22481	1 15	FPD238 BB12	B117				7	6K7, 6K8, 6Q7, 25L6G, 6U5, 25Z6G	455	10-17	
G508, G509	Vol. Tone	79171 79598	17 41	MR51 MR51	M26		85030 85028	1 13/14	WE2050 3S584/BB60					10	6K7, 6L7, 6J7, 6B8, 6P5, 6Q7, 6V6G, 5U4G	456		
G528, TG528, G529, TG529	Vol. Tone Sen.	79171 79176 79178	17 41 7	MR51 MR51 M15MP	M26		85016 85019	1 13/14	WE3035 3S584/BB60					12	6K7, 6L7, 6J7, 6B6, 6P5, 6Q7, 6L6, 25Z3	456	8-19,20	
H554, H555	Vol. Tone	83529C 83447C	17 34	TM236-SS1 MR39	M26		85024 22481	1 15	2N519 BB12					5	6K8, 6K7, 6Q7, 6F6G, 5Y3G	455	9-11,12	
BG562, BG563	Vol. Tone	79158 79159	17 34	MR51 MR39	M26		71045A 72353	1 14	RM262 CS133					6	6A8G, 6K7G, 6B6G, 6J7G, 6F6G, 5Y3G	456	9-9,10	

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PILOT—Continued																		
G562, G563.....	Vol. Tone	79158..... 79159.....	17 34	MR51..... L.....	M26.....			71045-A..... 72353..... 22481.....	1 14 15	RM262..... CS133..... BB12.....				6	6A8G, 6K7G, 6H16G, 6J7G, 6F6G, 5Y3G	456	9-9,10	
G576, G577 (G570 Series).....	Vol. Tone	78714..... 78715.....	17 34	MR53..... L.....	6.....			85004..... 85005..... 72252..... 22481.....	1 1 13 15	RS215..... RS216..... 2N518..... BB12.....				7	6K7, 6A8, 6Q7, 6G5, 6F6, 5Y3G	456	8-23,30	
G584, G585 (G580 Series).....	Vol. Tone	79492..... 79493.....	17 44	MR51..... MR33.....	M26.....			85024..... 85025..... 22481.....	1 13 15	3S584..... 3S584/BB160..... BB12.....				8	6A8G, 6K7G, 6Q7G, 6H16, 6E5, 6Y6G, 5Y3G	456	8-21,22	
H594, H597.....	Vol. Tone Sen.	83364..... 83366..... 79178B.....	17 34 7	TM236-SS1..... MR39..... M15MP.....	M26.....			71045..... 85018..... 22481.....	3 3/13 15	RM262..... 3S584..... BB12.....				9	6K8, 6K7, 6J7, 6H16, 6U5, 6Q7G, 6F6G, 5Y3G	455	9-15,16	
623, 625.....	Vol. Tone	78714..... 78715.....	17 22	MR51..... MR39.....	M26.....			78595..... 78594..... 71675.....	13 1/13 15	RS203..... RM257..... TN111.....				7	6K7, 6A8, 6Q7, 25A6, 6G5, 25Z6	456	8-24	
S623, S623J.....	Vol. Tone	78714..... 78715.....	17 22	MR51..... MR39.....	M26.....			85012..... 85013..... 78594..... 85010..... 22481..... 23500D.....	1/13 13 1/13 1/13 15 1	2S568/BB40..... 3S582..... RM257..... RM259..... BB12..... BB61.....				7	6K7, 6A8, 6Q7, 25A6, 6G5, 25Z6	456	8-25	
TH650 (Ch. H650).....	Vol.	79429.....	18	MR48.....	M26.....			23500D.....	1	BB61.....				5	6A8, 6K7, 6Q7, 6F6G, 5Y3G	455	10-16	
H651 (Ch. H650).....	Vol.	79429.....	18	MR48.....	M26.....			8.....	1	BB61.....				5	6A8, 6K7, 6Q7, 6F6G, 5Y3G	455	10-16	
H664, H665.....	Vol. Tone	83529B..... 83447B.....	17 34	TM236-SS1..... MR39.....	M26.....			85024..... 22481.....	1 15	2N519..... BB12.....				6	6K8, 6K7, 6Q7G, 6F6G, 5Y3G, 6U5	455	9-13,17	
G674, G675.....	Vol. Tone	78714..... 78715.....	17 34	MR53..... L.....	6.....			71045..... 72252..... 22481.....	1 13 15	RM262..... 2N518..... BB12.....				7	6K7, 6A8, 6Q7, 6G5, 6F6, 5Y3G	456		
H710.....	Vol. Tone Sen.	83364..... 83871..... 83870.....	20 41 7	TM236-SS1..... UC503..... A2MP.....	6.....		See Note A68	22481..... 23600E..... 23600D..... 23500B.....	40 46/13 20	FPD234..... FPT389..... BB12.....				11	6K7, 6K8, 6J7, 6H16, 6R7, 6Y6G, 5U4G, 6U5	455	10-19	
G752, TG752, G753 (G750 Series).....	Vol.	13024.....	18	MR48.....				85022..... 22481.....	1 19	CM172..... BB12.....				5	6A7, 6D6, 75, 41, 80	456	8-26,27	
H762, H763 (Ch. H760).....	Vol.	79429.....	18	MR48.....	M26.....			23500C..... 23500D..... 22481.....	1 1 15	ST597..... ST595..... BB12.....				6	6K8, 6K7, 6Q7, 6F6G, 5Y3G, 6U5	455	10-21	
G774.....	Vol. Tone	78714..... 78715.....	17 34	MR53..... L.....	6.....			71045-B..... 72252..... 22481.....	1 13 15	RM262..... 2N518..... BB12.....				7	6K7, 6A8, 6Q7, 6G5, 6F6, 5Y3G	456		
G852.....	Vol.	79429.....	18	MR48.....	M26.....			85022..... 85031.....	1 13	CM172..... CM170.....				5	6A7, 6D6, 75, 41, 80	456		
H874, H875 (Ch. H870).....	Vol. Tone	83529A..... 83447A.....	20 34	TM236-SS1..... L.....	M26.....			71045A..... 85038..... 22481.....	46 46/13 15	RM262..... 2N518..... BB12.....				7	6K7, 6K8, 6Q7G, 6F6G, 6U5, 5Y3G	455	10-23	
H974, H975 (Ch. H970).....	Vol. Tone	83529A..... 83447A.....	20 34	TM236-SS1..... L.....	M26.....			71045A..... 85038..... 22481.....	46 46/13 15	RM262..... 2N518..... BB12.....				7	6K7, 6K8, 6Q7G, 6F6G, 6U5, 5Y3G	455	10-23	
1010 All Wave Dragon	Vol.		6	G12.....				8-8.....	4	See Note.....	B3			6	224A, 27, 35, 47, 80	115	3-6	
T1151 (Early and Late).....	Vol.	79429B.....	18	MR48.....	M26.....			23500J..... 23500J.....	1 25	BB27..... BB27.....				5	6SA7, 6SK7, 6SQ7, 25L6G, 25Z6G	455	12-8	
T1164.....	Vol.	83529E.....	18	MR53.....	M26.....			78689..... 85035.....	1 13	FPD221..... 2N516.....	B117			5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT.....	455	12-8	
T1252.....	Vol.	79429B.....	18	MR48.....	M26.....			23500E.....	1	FPS145.....	B117			5	6K8, 6SK7, 6SQ7, 25L6G, 25Z6G, Ballast Tube.....	455	12-11	
X1252.....	Vol.	79429B.....	18	MR48.....	M26.....			23500E.....	25	FPS145.....	B117			5	6SA7, 6SK7, 6SQ7, 25L6G, 25Z6G, 81985.....	455	10-25	
T1264.....	Vol. Tone	83529D..... 83447D.....	127 22	MR53..... MR39.....	M26.....			23500EX.....	25	FPS145.....	B117			6	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT, Ballast.....	455	12-11	
T1351.....	Vol.	84209.....	18	MR53.....	M26.....			23500J..... 23500G..... 23500J..... 23500B..... 23500G.....	1 78 46 20 78	BB27..... BB17..... BB27..... BB12..... BB17.....			5	6SA7, 6SK7, 6SQ7, 25L6G, 6U5, 25Z6G	455	11-5		
T1452.....	Vol.	84105.....	17	MR55.....	M27.....			23500J..... 23500G..... 23500J..... 23500B..... 23500G.....	1 78 46 20 78	BB27..... BB17..... BB27..... BB12..... BB17.....			5	1A7G, 1N5G, 1H5G, 1T5GT, 117Z6G.....	455	11-5		
X1452, X1453.....	Vol.		18	MR55.....	M27.....			23500J..... 23500G..... 23500D..... 23500C.....	46 46 25 25	BB27..... BB17..... BB61..... ST597.....			7	1N5G, 1A7G, 1H5G, 1Q5GT, 117Z6G.....	262	12-12		
T1564.....	Vol. Tone	83529D..... 83447D.....	127 22	MR53..... MR39.....	M26.....			23500D..... 23500C.....	25 25	BB61..... ST597.....			6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y3G	455	12-12		

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
PILOT—Continued																		
X1584	Vol. Tone	83529D 83447D	127 22	MR53 MR39	M26			23500E	1	FPS145	B117				8	12SA7, 12SK7, 12SQ7, 350L6GT, 6U5, 35Z4GT	455	11-7
X1684	Vol. Tone	83529D 83447D	18 22	MR53 MR39			A27	23500E	1	FPS145	B117				8	12SA7, 12SK7, 12SQ7, 350L6GT, 6U5, 35Z4GT	455	11-7
T1854	Vol.	83529E	18	MR53	M26			85044 23500D 23500B	1 13 15	FPD235 ST595 BB12	B117				5	6K8, 6SK7, 6SQ7, 6F6G, 5Y3G	455	11-7
2108, 2109	Vol. Tone	71211 71634	17 34	UC503 G12	6			85001 22481	1 15	Order from Mfr. BB12					5	6A7, 6D6, 75, 4B3	456	
2203, 2205	Vol.	78697	17	P	6			78594 22481	1/13 15	RM257 BB12					5	6A7, 6D6, 75, 4B3, 25Z6	456	
M2203, M2205	Vol.	71211	17	MR51	M26			78595 78594 22481	13 1/13 15	RS203 RM257 BB12					5	6A8, 6K7, 6Q7, 25A6, 25Z6	456	8-28
X2253, X2255	Vol. Tone	78647C 78648C	17 34	MR51 L	M26			85006 22481	1 15	Order from Mfr. BB12	F45	F245	C3	5	6D6, 6A7, 75, 4B3	456	8-29	
G5206, CG5206, TG5206, G5207 (G5200 Series)	Vol. Tone	78647C 78648C	18 34	UC503 L	6			85033 22481	1/13 1	3S581 BB12	F45	F245	C3	5	6D6, 6A7, 75, 4B3	456		
H6204 (Ch. H6200)	Vol. Tone	83763 83447C	17 44	L		See Note A19		23600C 23500B .01	1/13 15	FPT374 BB12 Buffer		850	C3	7	6S7G, 6K8, 6T7G, 6L5G, 1J6G, 6ZY5G	455	10-27	
PORT-O-MATIC																		
18A, C, R (Ch. P-8)	Vol. Tone		18 22	MR48 MR48	M26			32-24 12 25	8 8 15	2N514 BB22 BB15					7	6A8G, 6K7, 6Q7G, 25L6G, 6E5, 25Z6G, BK23B	456	10-1
25A, C, R (Ch. P8LW)	Vol. Tone		18 22	MR48 MR48	M26			32-24 12 25	8 8 15	2N514 BB22 BB15					7	6A8G, 6K7G, 6Q7G, 25L6G, 6E5, 25Z6G, E5748	456	10-2
80A, F, C (Ch. P-8)	Vol. Tone		18 22	MR48 MR48	M26			32-24 12 25	8 8 15	2N514 BB22 BB15					7	6A8G, 6K7, 6Q7G, 25L6G, 6E5, 25Z6G, BK23B	456	10-1
210C, F, R (Ch. P-8)	Vol. Tone		18 22	MR48 MR48	M26			32-24 12 25	8 8 15	2N514 BB22 BB15					7	6A8G, 6K7, 6Q7G, 25L6G, 6E5, 25Z6G, BK23B	456	10-1
212C, F, R (Ch. P-8)	Vol. Tone		18 22	MR48 MR48	M26			32-24 12 25	8 8 15	2N514 BB22 BB15					7	6A8G, 6K7, 6Q7G, 25L6G, 6E5, 25Z6G, BK23B	456	10-1
250C, F, R (Ch. P8LW)	Vol. Tone		18 22	MR48 MR48	M26			32-24 12 25	8 8 15	2N514 BB22 BB15					7	6A8G, 6K7, 6Q7G, 25L6G, 6E5, 25Z6G, E5748	456	10-2
PRECISION																		
6 Tube A-W Super.	Vol. Tone		18 22	N Y	6			8-8	23	CM172					6	6A7, 6D6, 75, 42, 80	465	6-1
8 Tube A-W	Vol. Tone		83 44	N Y				8-8	1	CM172					8	57, 58, 55, 2A5, 5Z3, 56	465	6-2
511	Vol.		18	N	6			4-4	23	CM170					5	6A7, 6D6, 75, 42, 80	465	6-3
PREMIER—See Airking																		
RADIOBAR																		
106 (6 tube)	Vol. Tone		15 22	N K12	6			8-8	4	See Note	B3				6	2A7, 58, 55, 2A5, 80	262.5	
210 (10 tube with 46's)	Vol.		15	N	6			4-8-4	3	See Note	B3				10	55, 56, 57, 58, 46, 82	262	4-2
210B (8 tube with 59's)	Vol. Tone Sen.		83 22 8	N UC502 UC500	6			8-8	1	See Note	B3				8	55, 56, 57, 58, 59, 5Z3	262	4-1
210B (10 tube with 59's)	Vol. Tone Sil.		15 22 4	N UC502	6	See Note A5		8-8 4	35 19	See Note BB31	B3				10	57, 56, 58, 55, 59, 82	262	
210C (10 tube with 59's)	Vol. Tone Sil.		15 22 4	N UC502	6	See Note A5		8-8 4	35 19	See Note BB31	B3				10	55, 56, 57, 58, 59, 82	262	
505 (5 tube)	Vol. Tone		56 22	N G12	6	See Note A5		4-8	23	See Note	B3				5	57, 58, 55, 2A5, 80	175	4-1
506 (6 tube)	Vol. Tone		15 22	N K12	6			8-8	4	See Note	B3				6	2A7, 58, 55, 2A5, 80	262	4-1
508 (8 tube with 59's)	Vol. Tone Sen.		83 22 8	N UC502 UC500	6			8-8	1	See Note	B3				8	55, 56, 57, 58, 59, 5Z3	262	4-1

† Data not substantiated.

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§ Indicates miscellaneous section.

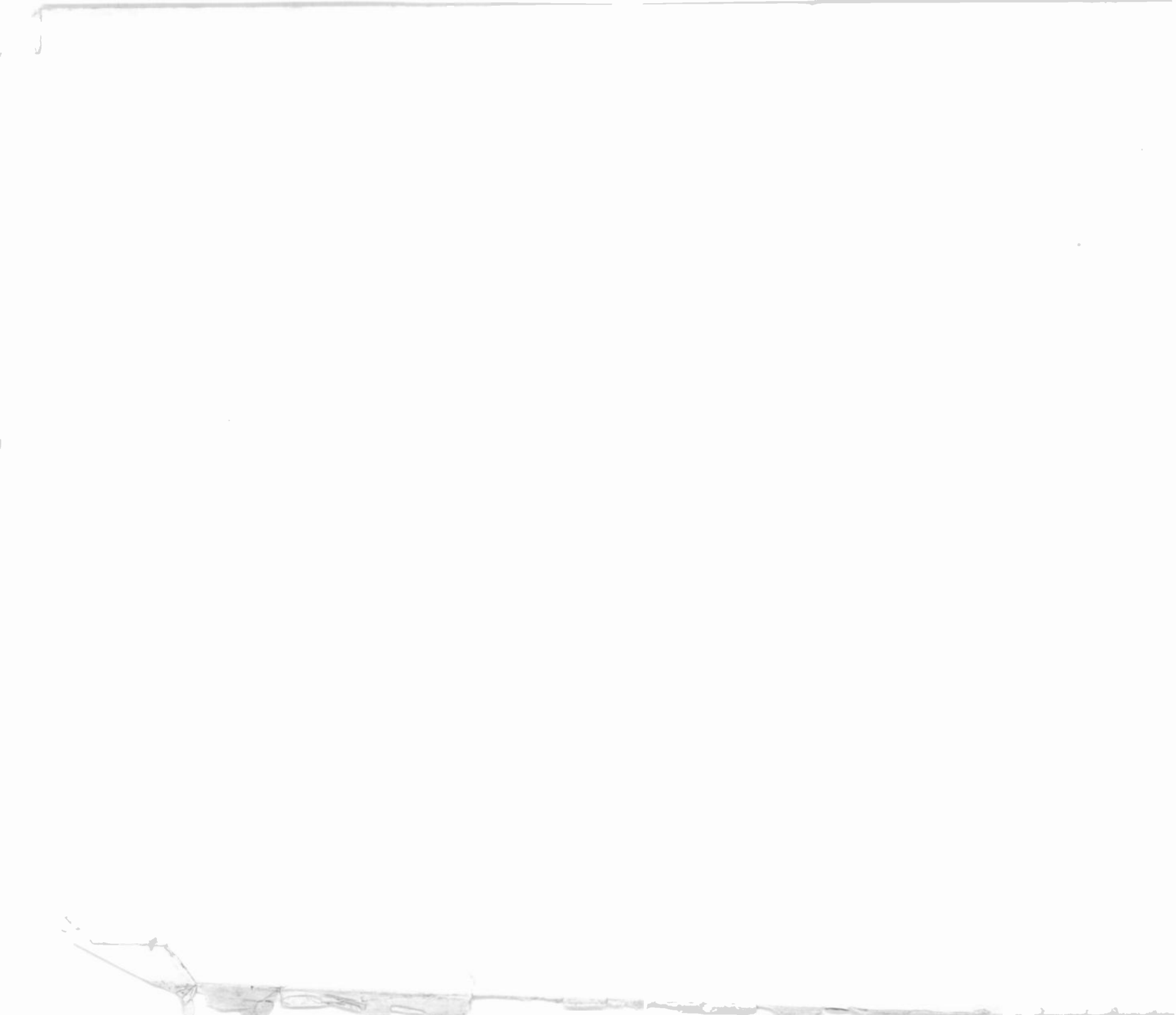
MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
PONTIAC																		
4036	Vol. Tone	1207607 1207798	17 44	1C512 N	7		1207830 .015	1	CS133 Buffer			1207758	221	C3	7	36, 39, 85, 89, 84	262	4-1,4
544245	Vol.	1209078	15	UM154-SS3		EB247	1209047	1/15	SR622	B14		5037400	273C		1	6F7, 6A7, 6H7, 42	262	
544246	Vol. Tone	1209078 1207798	127 44	UM154-SS3 N		EB247	1209144	1/15	2S569/TN111			5037400	273C		6	78, 6A7, 6F7, 85, 341	262	8-15
544267	Vol.	1209368	15	UM157-SS3			1209047	1/15	SR622			5037400	273C		1	6F7, 6A7, 6H7, 42	262	7-42
544268	Vol. Tone	1209364 1207798	127 44	Order from N	Mfr.		1209144	1/15	2S569/TN111			5037400	273C		6	78, 6A7, 6F7, 85, 341	262	7-42
544289	Vol.	1209510	15	UM162-SS12			1209531	1/15	CM172/BB15			5039661	273C		1	6F7, 6A7, 6H7, 42	262	8-23
544290-1	Vol. Tone	1209296 1209628	15 22	UM162-SS12 MR48			1209819	1	2N519			5039661	273C		5	6F7, 6A7, 6H7, 42	262	9-59
980455	Vol.	1208157	17	UC512	6		1207995	1/15	CM172/TN111			5035120	222		5	7B, 6F7, 75, 41	262	
980459	Vol. Tone	1208157 1207798	18 44	UC512 N	6		1208241	1	CM172			5035120	222		6	7B, 6F7, 85, 341	262	6-39,40
983506	Vol. Tone	1210518 1562122	17 22	UM162-SS12 N			1210528	1/15	CM172/TN111			5040700	273C		6	6D6, 6A7, 85, 76, 6E6	262	9-54
983507	Vol. Tone	1210519 1210536	17 22	UM157-SS12 MR48			1210511	1/15	2N518/BB12			5040700	273C		5	6D6, 6A7, 75, 42	262	
983526	Vol.	1210545	20	TM224-SS12			1210518 1210549 .005	1 15	2N518 TN111 Buffer	B14		5050673	852	C3	7	6U7G, 6A8G, 6V7G, 6J5G, 6N7G, 6X5G	262	9-77
983527	Vol.	1210545	17	TM224-SS12			121580 .005	1/15	3S579 Buffer	B14		5050673	852	C3	6	6U7G, 6A8G, 6Q7G, 6F6G, 6X5G	262	9-79
983534	Vol.	7230117	17	TM239-SS3			7230264 .005	1	SR642 Buffer	B14		5050673	852	C3	6	6K7G, 6A8G, 6Q7G, 6N6G, 6X5G	262	9-81
983569	Tone Vol.	7230802 1210545	22 17	MR39 TM224-SS12		A107	1212274 .005	1/14/15	3S584/TN111 Buffer	B14		5050673	852	C3	7	6U7G, 6A8G, 6H7G, 6J5G, 6N7G, 6Z4G	262	
983570	Vol.	7232381	18	TM224-SS3			7232668 .01-.01	4	SR639 Buffer	B18*		5050673	852	C3	6	6K7G, 6J7G, 6Q7G, 6F6G, 6Z4G	262	
983616	Vol.	7232381	18	TM224-SS3			7232668 01-.01	4	SR639 Buffer	B18*		5050673	852	C3	6	6K7G, 6J7G, 6Q7G, 6F6G, 6Z4G	262	
983617	Vol.	1210545	17	TM224-SS12			1212274 .005	1/14/15	3S584/TN111 Buffer	B14		5050673	852	C3	7	6U7G, 6A8G, 6H7G, 6J5G, 6N7G, 6Z4G	262	
983667	Vol.	1213425	20	Order from	Mfr.		1213459 .015-.015	1/15	FPT332 Buffer	B14		5033183 M80783-1	249 249	C3 C3	7	6K7, 6A8, 6H7, 6Z7G, 6V6G	260	
983679	Vol. & Tone	7238529	17 1/2	Order from	Mfr.		7238830 .01-.01	24/15	FPT332 Buffer	B14		7238839	868	C3	7	7A7, 7B8, 7E7, 7F7, 7C5, 0Z4	260	
983680	Vol. & Tone	1213667	18 1/2	Order from	Mfr.		1213665 .004	46/15	FPO424 Buffer	B14		1213671	863	C3	5	7A7, 7A8, 7B6, 7C5, 0Z4G	260	
983705	Vol. & Tone	1214171	17 1/2	Order from	Mfr.		1214202 1214172 .015-.015	24/15 3	FPT339 TN111 Buffer	B14		1213446	249	C3	7	6SK7, 6SA7, 6SQ7, 6SF5, 6V6G	260	
983775	Vol. & Tone	1214388	18 1/2	Order from	Mfr.		1213665 .004	24/13/15	FPO424 Buffer	B14		1213671	863	C3	5	7A7, 7A8, 7B6, 7C5, 0Z4G	260	
983776	Vol. & Tone	7240703	17 1/2	Order from	Mfr.		7238830 .006	21/15	FPT332 Buffer	B14		7238839	868	C3	7	7A7, 7B8, 7E7, 7F7, 7C5, 0Z4	260	
983777	Vol. & Tone	1214496	17 1/2	Order from	Mfr.		1214489 1214490 .015-.015	21/15 21 1/2	FPT332 FPT329 Buffer	B69 B14		1214832	742	C3	7	6K7, 6SA7, 6SK7, 6SQ7, 6SF5, 6V6G	260	
7232553	Vol.	7232381	18	TM224-SS3			7232668 .01-.01	1	SR639 Buffer	B18*		5050673	852	C3	6	6K7G, 6J7G, 6Q7G, 6F6G, 6Z4G	262	9-95

: Data not substantiated.

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† Indicates miscellaneous section.

Insert this page after page 242 in your 4th Edition M Y E



MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
RADIOBAR — Continued																		
510 (10 tube with 46's)	Vol.		15	N	6			1-8-4	3	See Note	B3				10	58, 57, 55, 56, 56, 82	262	4-2
510 (10 tube with 59's)	Vol. Tone Sil. Tone		15 22	N UC502	6			8-8 4	35 19	See Note BB31	B3				10	55, 56, 57, 58, 59, 82	262	4-2
526 (6 tube)	Vol. Tone		83	N	6	See Note	te A5	8-8	4	See Note	B3				6	2A7, 58, 55, 2A5, 80	262.5	
528 (8 tube with 59's)	Vol. Tone Sen.		22 22	N K12 UC500	6			8-8	1	See Note	B3				8	55, 56, 57, 58, 59, 5Z3	262	4-1
RADIO CHASSIS, 1 NC. (Marquette)																		
Auto Receiver A5D	Vol.		18	UM154		See Note	te A96	5	15	BB12					5	78, 6A7, 75, 41	175	4-1
A6D	Vol.		6	G7		3		16-8	6	2N504					5	78, 77, 43, 25Z5	175	4-2
A6D	Vol.		18	N				5-5	15	TN111					6	78, 6A7, 75, 43, 25Z5	175	4-3
AC25	Vol.		6	G7		3		16-8	6	2N504					6	78, 6A7, 75, 43, 25Z5	175	4-3
AC35	Vol.		8	G		3		5-5	15	TN111					5	58, 57, 56, 47, 80		3-2
AC36	Vol.		8	G		3		8-8	4	See Note	B3				5	58, 57, 47, 80	175	3-4
L5D	Vol.		6	D		3		8-8	4	See Note	B3				6	58, 57, 56, 47, 80	175	3-4
L6D	Vol. Tone		22	L				16-8	6	2N504					5	6A7, 78, 77, 43, 25Z5	456	4-4
L6W	Vol.		17	N				5-5	15	TN111					6	78, 6A7, 75, 43, 25Z5	115	4-5
LSA36	Vol.		8	G		3		5-5	15	TN111					6	58, 2A7, 2A6, 47, 80	125	4-6
LSA37	Vol.		8	G		3		8-8	4	See Note	B3				6	58, 57, 47, 80, 56	175	3-4
OAC35	Vol.		8	G		3		8-8	4	See Note	B3				7	58, 56, 47, 80	175	3-2
OAC36	Vol.		8	G		3		8-8	4	See Note	B3				5	58, 57, 47, 80		3-4
SJC36	Vol.		8	G		3		8-8	4	See Note	B3				6	58, 57, 56, 47, 80	175	3-4
SMA24	Vol.		6	G7		3		8-8	4	See Note	B3				6	39, 36, 37, 48		3-3
SMA25	Vol.		6	D7		3		8-8	4	See Note	B3				5	58, 57, 47, 80		3-1
								8-8	4	See Note	B3				5	58, 57, 56, 47, 80		3-2
RADIOCHRON — See Clago.																		
R. C. A.																		
9 Tube General Purpose A.W. (AVR-5A)	Vol. Tone Sen.	K69461-1 6953 6892	19 21 6	TRP603 UC505 J	6			6889 6609 6626	6 6 14/15	RS216 WE1830 CS131/TN111					9	58, 2A7, 2B7, 56, 53, 80	445	5-165, 170
RCA Short Wave Adapter Premax P1 AC/DC	Vol.	67817-1	26 7	J UC509	6			3538 3536 6571	1 15 1	2N516 TN111 RS215					3 4	2A, 27 36, 37, 38, 39	1000	1-53, 54 4-1, 2
AVR-1	Vol. Tone	K69461-1 6627	19 21	TRP603 O	6			6609 6626	1 14/15	WE1830 CS131/TN111					8	58, 2A7, 2B7, 56, 53, 80	445	4-70, 76
HF1	Vol.	72357-36	20	TM249-SS1				11531 5212 30105	1 1 14	WE3050 WE1830 RS216					9	6A8, 6K7, 6R7, 6J5, 6F6, 6U5, 5T4	455	9-1, 4
1AX, 1AX2 (RC1003A)	Vol.	84701-30	18	MR48	M26	A106		36301	77	2N515					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-7
1X, 1X2 (RC1003)	Vol.	84701-30	18	MR48	M26	A106		36301	77	2N515					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-7
HF2	Vol. Tone	K84394-5 84304-3	20 22	TM249-SS1 Order from Mfr.	M26			86015-4 80385-8	25 25/14	2N568 2S569					12	6K7, 6A8, 6J7, 6R7, 6U5, 6J5, 6F6, 5T4	455	9-4, 10
QB2 (RC529)	Vol. Tone		18 44	TM230-SS1 MR33				10-10	12/13	FPD208					6	1R5, 2N50GT, 1A5G, 1H5GT, 1G6G	455	12-3, 4, 85
QU2, QU2C (RC507C), QU2M (RC507)	Vol. Tone		18 22	TM230-SS1 MR48	M26			10-10-10-20	1, 13/15	FPQ424					6	6SA7, 6SK7, 6SQ7, 6AD7G, 6F6G, 5Y3G	455	12-5, 6
QU3C (RC507F), QU3M (RC507H)	Vol. Tone		18 22	TM230-SS1 MR48	M26			10-10-10-20	1, 13/15	FPQ424					6	6SA7, 6SK7, 6SQ7, 6AD7G, 6F6G, 5Y3G	455	12-9, 94
R-3-B (Battery)	Vol.		9	Y100MP											6	34, 32, 30, 33	456	
R-3-C (200/230 V. D. C.)	Vol.		7	E				4-4	13/15	See Note	B156				6	39, 37, 89	460	
4T	Vol.	11663	6	F7	6T	3		11240 5212	25 25	SR644 WE2050					4	6A7, 6R7, 41, 1V	460	7-1, 3
4X, 4X3, 4X4	Vol.	72558-30	7	G	6	3		12844	50	RM257	B157				4	6A7, 6F7, 43, 25Z5	460	7-7, 8
HF4	Vol. Tone	K84394-5 84304-3	20 22	TM249-SS1 Order from Mfr.	M26			86015-4 80385-8	25 25/14	2S568 2S569	B8				12	6K7, 6A8, 6J7, 6R7, 6U5, 6J5, 6F6, 5T4	455	9-4, 10
4QB (RC440)	Vol.	33780	18	MR53	M27			86038-5	12/13	FPD208					4	1A7G, 1N5G, 1H5G, IC5G	455	11-1-3

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued 4QB4 (RC440A)...	Vol.	33780	18	MR53	M27			86038-5	12/13	FPD208					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-3-6
R-4	Vol.	63750-1	7	SRP134		EX150		8839	4/14	CM175	B158				7	2A, 35, 47, 80, 27	175	2-1,3
T4-8	Vol.	6667	98	E	6			6661	1/15	SR625					4	6A7, 6F7, 41, 1V	460	6-73,75
T4-8A	Vol.	11663	6	F7	6T	3		6832	13	BB31					4	6A7, 6B7, 41, 1V	460	7-4,5
T4-9	Vol.	6667	98	E	6			11240	25	SR644					4	6A7, 6F7, 41, 1V	460	6-73,75
T4-9A	Vol.	11663	6	F7	6T	3		11497	25	RS213					4	6A7, 6B7, 41, 1V	460	7-4,5
T4-10	Vol.	11263	7	UC509	6	EX300		6661	1/15	SR625					4	6A7, 6F7, 41, 1V	460	6-73,75
5BT	Vol.	13214	18	MR44	M27			6832	13	BB31					4	6A7, 6B7, 41, 1V	460	7-4,5
5M Automobile	Vol.	72558-14	56	TM222-SS4				11240	25	SR644					4	6A7, 6B7, 41, 1V	460	7-4,5
	Tone	72558-7	22	MR39		See Note A60		11497	25	RS213					4	6D6, 6C6, 38, 76	260	6-76,78
5Q1 (Formerly 95FT)	Vol.	30575	18	TM220-SS1				11268	15	2N516					5	1A6, 1A4, 1F6, 30, 19	460	8-1,3
	Tone	30574	22	MR53	M26T			7956	1	TN111					5	6D6, 6A8, 6K7, 6B7, 42	260	7-9,13
5Q2 (RC325C)	Vol.	30575	18	TM220-SS1				13295	12/13	2N502			12236	249	C3			
	Tone	30574	22	MR53	M26T			12234	1	RS213					5	6A8, 6K7, 6Q7G, 6F6G, 5Y3G	455	11-7
5Q2X (RC325D)	Vol.	30575	18	TM220-SS1				12238	1/15	CS133/TN111 Buffer	B14				5	6A8, 6K7, 6Q7G, 6F6G, 5Y3G	455	11-9
	Tone	30574	22	MR53	M26T			86027-2	13	FPD225					5	6K8, 6K7, 6Q7G, 251.6G, 25Z6G, Ballast	455	11-11
5Q4 (RC366)	Vol.	30575	18	TM220-SS1				86018-13	1/15	FPT332					5	6K8, 6K7, 6Q7G, 6K6G, 5Y3G	455	11-13
5Q5, 5Q55, 5Q56	Vol.	30574	22	MR53	M26			86031-4	1/15	FPT332					5	6SA7, 6K7, 6SQ7, 6F6G, 5Y3G	455	10-31,32
5Q6 (RC477A)	Vol.	84304-40	18	TM243-SS1	M26			86033-2	1/15	FPT327					5	6SA7, 6K7, 6SQ7, 251.6G, 25Z6G	455	11-17
5Q8 (RC396B)	Vol.	34224	18	MR44	M26T			86045-3	77	FPO409	B222				5	6SA7, 6K7, 6SQ7, 251.6G, 25Z6G	455	11-19
5Q66	Vol.	84304-40	18	TM243-SS1	M26			11240	1	SR644					5	12SA7, 12SK7, 12SQ7, 501.6GT, 35Z5GT	455	11-12,3
5T	Vol.	34146	17	TRP613				11240	1	WE1830					5	6A7, 6D6, 75, 42, 80	460	7-15,17
5T1, 5T4, 5T5	Vol.	72558-44	17	TM249-SS1				5212	1	SR644					5	6A7, 6D6, 75, 42, 80	460	8-5,14
5T6, 5T7, 5T8	Vol.	72558-44	17	TM249-SS1				11240	1/13	SR644					5	6A8, 6K7, 6Q7, 6F6, 5W4	460	8-15,18
5U	Vol.	72558-44	17	TM249-SS1				5212	1	WE1830					5	6A7, 6D6, 75, 42, 80	460	9-11,16
5X2	Vol.	72558-23	18	M	6			11240	25	SR644					5	6A7, 78, 75, 43, 12Z3	460	7-21,23
5X, 5X3, 5X4	Vol.	72558-23	18	M	6			5212	25	WE1830					5	6A7, 78, 75, 43, 25Z5	460	7-18,20
5X5 (RC406)	Vol.	32578	75	MR44	M26			12677	4	2P546					5	12SA7, 12C8, 12SC7, 351.6GT, 35Z5GT	455	10-34,35
AVR-5A 9 Tube Gen. Purpose AW	Vol.	K69461-1	19	TRP603				12682	15	BB12					9	58, 2A7, 2B7, 356, 53, 80	445	5-165, 170
	Tone	6953	21	UC505	6			12398	6/15	3N526					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455	12-8
	Sen.	6892	6	J				39124-4	1	2N514					5	6SA7, 6SK7, 6SQ7, 6AD7G, 6F6G, 5U4G	455	12-9, 10,83
Radiola P5	Vol.	36125	18	MR53				6889	6	RS216					8	12A, 47, 80	455	1-10,11
QU5 (RC530)	Vol.		18	TM230-SS1	M26			6609	6	WE1830					8	12A, 47, 80	455	3-7,9
	Hass		22	MR53				6626	14/15	CS131/TN111					4	12A, 47, 80	455	2-4,6
R-5-AC Radiolette	Vol.	2959	2	Y				34472	76	FPT304					5	No tubes used		
R-5 DC	Vol.	2959	2	Y				30-20	13	FPD211					8	6A7, 6D6, 6B7, 41, 80	460	6-79,82
R-5-X AC Radiolette	Vol.	2959	2	Y				100-40	1	FPT340	B3				6	1C6, 1A4, 1F6, 30, 349	460	7-29,32
T-5 End Table Electrola	Vol.	7078	63	SRP152				11387	12	SR644					6	1C6, 1A4, 1F6, 30, 349	460	7-29,32
T-5-2	Vol.	72294-7	19	TRP603	6			11387	12	SR644					6	1C6, 1A4, 1F6, 30, 349	460	7-29,32
6BK	Vol.	72291-56	18	M				11387	12	SR644					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	460	7-37,40
6BK6	Vol.	72291-56	18	M				.02-.02		Buffer	B14				6			
6BT	Vol.	72291-56	18	M				12804	12/13	CM172			12817	W245A	C3			
6BT6	Vol.	72291-56	18	M				12804	12/13	CM172					6	1C6, 1A4, 1F6, 30, 349	460	7-29,32
6K	Vol.	72558-44	150	TM249-SS1				11387	12	SR644					6	1C6, 1A4, 1F6, 30, 349	460	7-29,32
	Tone	12668	150	SRP288	6T			.02-.02		Buffer	B14				6			
								11240	1	SR644					6			
								5212	1	WE1830					6			

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
6K2	Vol. Tone	72558-44 12668	150 150	TM249-SS1 SRP288	6T			11240 5212	1 1	SR644 WE1830					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	460	7-41,43
6K3	Vol.	72558-44	20	TM249-SS1				11387 11240 5212	14 1 1	SR644 SR644 WE1830					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	460	8-21,24
6M and 6M2	Vol. Tone	72558-6 72558-7	17 22	TM239-SS4 MR39		See Note A60		12234 12238 .01-.01 33014	1 1/15 1/13/15	SR644 RS213 CSI33/TN111 Buffer FPO424	B14	12236	249	C3	6	6D6, 6A8, 6K7, 85, 6C5, 6A6	260	7-24,28
6Q1 (RC441)	Vol.	84304-31	18	Order from	Mfr.										6	*6SK7, 6SA7, 6SQ7, 6F6G, 5Y3G	455	11-21-23
6Q4 (RC441A)	Vol.	84304-31	18	Order from	Mfr.			33014	1/13/15	FPO424					6	*6SK7, 6SA7, 6SQ7, 6F6G, 5Y3G	455	11-25,28
6Q4X (RC442)	Vol.	33951	18	Order from	Mfr.			86037-4	1/13/15	FPO412					6	*6SK7, 6SA7, 6SQ7, 25L6G, 25Z6G	455	11-27
6Q7	Vol. & Tone	32928	18/21	Order from	Mfr.			86031-4	1/15	FPT332					6	6SA7, 6K7, 6SQ7, 6F6G, 5Y3G, 6U5	455	11-15,16
6Q8 (RC414B)	Vol.	32928	18/1	Order from	Mfr.			86031-4	1/15	FPT332					6	6SA7, 6K7, 6SQ7, 6F6G, 6U5, 5Y3G	455	11-33,34
6QU (RC414)	Vol.	33533	18/1	†			A3	86031-4	1/15	FPT332					6	6SA7, 6K7, 6SQ7, 6F6G, 6U5/6G5, 5Y3G	455	12-12,13
6T	Vol. Tone	72558-44 12668	150 150	TM249-SS1 SRP288	6T			11240 5212	1 1	SR644 WE1830					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	460	7-37,40
6T2	Vol. Tone	72558-44 12668	150 150	TM249-SS1 SRP288	6T			11240 5212	1 1	SR644 WE1830					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	460	7-41,43
6T5	Vol.	72558-44	17	TM249-SS1				11387 5212	14 25	SR644 WE1830					6	6A7, 6D6, 75, 42, 6G5, 80	460	8-25,27
6X2 (Ch. RC1013)	Vol.	36242	18	MR48	M26		A106	11240 36301	25 77	SR644 2N515					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	
BC6-4	Vol.	72291-56	18	M				11595	12	CSI33		11656	245A	C3	6	1C6, 34, 1H5, 30, 349	460	6-87,90
BC6-6	Vol.	72291-56	18	M				11387 6832 11645	13 13 15	SR644 BB31 BB12					6	1C6, 34, 75, 30, 349	460	7-44,47
BT6-3	Vol.	72291-56	18	M				.01-.01 11595		Buffer	B14				6	1C6, 34, 1H5, 30, 349	460	6-87,90
BT6-5	Vol.	72291-56	18	M				11387 6832 11645	1 13 15	SR644 BB31 BB12		11656	245A	C3	6	1C6, 34, 75, 30, 349	460	7-44,47
BT6-10	Vol.	72291-56	18	M				.01-.01 11595		Buffer	B14				6	1C6, 34, 1H5, 30, 349	460	6-87,90
C6-2	Vol.	72291-46	20	TRP613				11240 5212	1 1	SR644 WE1830					6	6A8, 6K7, 6H6, 6F5, 6F6, 80	460	6-83,86
C6-8	Vol.	72291-46	20	TRP613				11387 11821	14 27/19	SR644 RM259/BB12	B170				6	6A8, 6K7, 6H6, 6J7, 25A6, 25Z6	460	7-48,52
C6-12	Vol.	76391-2	75	M	6T			5212 11240	13 25	WE1830 SR644					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	460	7-53,55
H-6 (Hudson)	Vol.	11406	17	UM147-SS6	M27			4961 4958	1 1/15	RS213 3S579		5067	294	C3	6	*6D6, 6A7, 6B7, 41, 84	260	7-33,36
HF6	Vol.	84304-6	20	DTM291-SS1				.02-.02 14531 5212	25 25	Buffer WE3050 WE1830	B14				14	*6K7, 6L7, *6J7, 6R7, 6H6, 6U5, *6J5, *6F6, 5T4	455 175	9-18,29 2-1,3
R-6	Vol. Tone	63750-1 3234	7 21	SRP134 K12		EX150		14377	14	RS216					7	*35, 24A, *27, 47, 80		
T6-1	Vol.	72291-46	20	TRP613	6			8839	4/14	CM175	B158				6	6A8, 6K7, 6H6, 6F5, 6F6, 80	460	6-83,86
T6-7	Vol.	72291-46	20	TRP613				11240 11387 11821	1 14 27/19	SR644 SR644 RM259/BB12	B170				6	6A8, 6K7, 6H6, 6J7, 25A6, 25Z6	460	7-48,52
T6-9	Vol.	72291-62	15	P				5212 11240	1 1	WE1830 SR644					6	6A8, 6K7, 6H6, 6F5, 6F6, 80	460	6-91,94
T6-11	Vol.	76391-2	75	M	6T			11387 11240 5212	13 25 25	SR644 SR644 WE1830					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	460	7-53,55
7K, 7T	Vol. Tone	72558-44 12668	150 150	TM249-SS1 SRP288	6T			11240 5212	1 1	SR644 WE1830					7	6L7, 6J7, 6K7, 6H6, 6F5, 6F6, 5Z4	460	7-56,60
7K1	Vol.	72558-44	20	TM249-SS1				11240 5212	1 1	SR644 WE1830					7	6A8, 6K7, 6H6, 6F5, 6F6, 6G5, 5W4	460	8-21,24
7Q4 (RC478A)	Vol.	84701-8	18	TM220-SS2	M26			11387 33014	13 1/13/15	SR644 FPO424					7	*6SK7, 6SA7, 6SQ7, *6F6G, 5Y3G, 6U5/ 6G5	455	12-19
7Q4X (RC502)	Vol.	35187	18	TM230-SS1	M26			86045-1	1/13	Order from	Mfr.				7	*12SK7, 12SA7, 12SQ7, 50L6GT, 6N5, 35Z5GT	455	11-125
7QB, 7QBK (RC496)	Vol. Tone	31776 31777	17 22	† UM163-SS1	M26		A3	86027-1	13	FPD208					7	*6S7G, 6SA7, 6T7G, 6W7G, *6L5G	455	12-14-16

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued 7QK4 (RC478B)	Vol.	84701-8	18	TM220-SS1	M26			33014	1/13/15	FPQ424					7	6SK7, 6SA7, 6SQ7, 6F6, 5Y3G, 6U5/ 6G5	455	12-19
7T1	Vol.	72558-44	20	TM249-SS1				11240	1	SR644					7	6A8, 6K7, 6I16, 6F5, 6F6, 6G5, 5W4	460	8-21,24
7U	Vol. Tone	72558-44 12668	150 150	TM249-SS1 SRP288	6T			11240	1	SR644					7	6A8, 6K7, 6I16, 6F5, 6F6, 5Z4, 6E5	460	7-61,65
7U2	Vol. Tone	72558-44 12668	150 150	TM249-SS1 SRP288	6T			11240	1	SR644					7	6A8, 6K7, 6I16, 6G5, 6F5, 6F6, 5Z4	460	8-28,31
7X	Vol. Tone	62558-41 12668	150 150	TM249-SS1 SRP288	6T			12998	52	RM259/BB12	B186				7	6L7, 6J7, 6K7, 6I16, 25A6, 25Z6	460	8-32,34
BC7-9	Vol.	72291-70	45	M				11344	12	CS133					7	1C6, 33A, 330, 32, 19	460	6-95,98
BT7-8	Vol.	72291-70	45	M				11344	12	CS133					7	1C6, 33A, 330, 32, 19	460	6-95,98
C7-6	Vol.	72291-46	20	TRP613				11240	1	SR644					7	6K7, 6A8, 6I16, 6F5, 6F6, 80	460	7-67,70
C7-14	Vol.	72291-46	20	TRP613				11387	14	SR644					7	6A8, 6K7, 6I16, 6F5, 6F6, 5Z4, 6E5	460	7-75,76
D7-7	Vol. Phono.	72291-46 72291-68	20 63	TRP613 Order from	Mfr.			11240	1	SR644					7	6K7, 6A8, 6I16, 6F5, 6F6, 80	460	7-71,74
R7 Superette	Vol. Tone	A369 A370	41 7	SRP134 N				11387	14	SR644					8	335, 24A, 27, 345, 80	175	1-12,13
R-7A (AC) Superette	Vol. Tone	63750-1 3083	41 7	SRP134 Y200MP	6			3057	4	SR644					8	335, 227, 247, 80, 24	175	2-11,12
R-7 Superette (DC)	Vol. Tone	63750-1 2996	41 7	SRP134 N				2957	4	SR644					7	24A, 335, 245, 27	175	2-8,10
R7-LW	Vol.	3231	7	A5MP				3057	4	ID684					8	335, 24A, 27, 345, 80	110	4-15,18
T7-5	Vol.	72291-46	20	TRP613				11240	1	SR644					7	6K7, 6A8, 6I16, 6F5, 6F6, 80	460	7-67,70
T7-12	Vol.	72291-46	20	TRP613				11387	14	SR644					7	6A8, 6K7, 6I16, 6F5, 6F6, 5Z4, 6E5	460	7-75,76
Victor 7-11 (Radiola 18)	Vol.		1	SRP144				1-1-5	3	See Note	B1				7	*26, 27, 71A, 80		1-59
Victor 7-25 (Radiola 17)	Vol.		1	SRP145				†	3	See Note	B1				7	*26, 27, 71A, 80		1-59
Victor 7-26 Electrola Radiola	Vol. Phono.		1 63	SRP144 †		See Note	A61	1-1-5	3	See Note	B1				7	*26, 27, 71A, 80		1-62
8A, B, C (Power Supply Units)								11203	1	SR644						5Y3G		11-120
8BK	Vol. Tone	72291-56 11219	18 41	M N				14531	1	WE3050					8	1A6, 21A4, 1F6, 1B4, 30, 249	460	8-35,39
8BK6	Vol. Tone	72291-56 11219	18 41	M N				12804	13	CM172		12817	W245A	C3	8	1A6, 21A4, 1B4, 1F6, 30, 249	460	8-35,39
8BT	Vol. Tone	72291-56 11219	18 41	M N				12804	13	CM172					8	1A6, 21A4, 1F6, 30, 249, 1B4	460	8-35,39
8BT6	Vol. Tone	72291-56 11219	18 41	M N				12804	13	CM172		12817	W245A	C3	8	1A6, 21A4, 1B4, 1F6, 30, 249	460	8-35,39
8K, 8T	Vol. Tone	72558-44 12668	150 150	TM249-SS1 SRP288	6T			11240	1	SR644					8	6L7, 6J7, 6K7, 6I16, 6F5, 6F6, 5Z4, 6E5	460	7-56,60
8K11	Vol.	72558-44	20	TM249-SS1				11240	1	SR644					8	6K7, 6A8, 6I16, 6F5, 6E5, 6F6, 5Z4	460	8-40,44
8M	Vol.	30628	18	MR48	M26			80375-2	24/19	3S584		13688	850	C3	5	6A8G, 6K7G, 6Q7G, 6K6G, 6X5G	460	9-31,32
8M1	Vol.	72558-54	18	UM157-SS4				80392-6	1	2S567		13688	850	C3	6	6K7G, 6A8, 6K7, 6Q7G, 6K6G, 6X5G	260	9-33,36
8M2	Vol. Tone	72558-14 72558-7	18 22	TM222-SS4 MR39				80392-6	24	2S567		13688	850	C3	6	6K7G, 6A8, 6K7, 6Q7G, 6K6G, 6X5G	260	9-34,36
8M3	Vol. Tone	72558-58 72558-7	17 22	TM239-SS4 MR39				30828	1	SR638		12236	249	C3	6	6K7G, 6A8, 6K7, 6R7G, 6J5, 6N7G	260	9-32,40
8M4	Vol.	72558-58	17	TM239-SS4				14902	15	TN111		12236	249	C3	6	6K7G, 6A8, 6K7, 6R7G, 6J5, 6N7G	260	9-37,40
8Q1 (RC337)	Vol. Tone	31450 31807	17 22	TM249-SS1 MR53	M27		A59	.01-.01	1	Buffer	B14				7	6K7G, 6A8, 6K7, 6R7G, 6J5, 6N7G		
8Q2 (RC443)	Vol.	84304-31	18	Order from	Mfr.			80372-18	15	TN111/BB12	B14				7	6K7, 6L7, 6Q7, 6F6G, 6U5, 6J7	455	11-31
								5212	25	WE1830					8	6SK7, 6SA7, 6B8, 6SC7, 6F6G, 5Y3G, 6U5/6G5	455	11-131, 134

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued 8QB, 8QBK (RC336)	Vol. Tone	31776 31777	17 22	Order from MR53	Mfr. M26			86015-3 .02-.02	13	2N519 Buffer	B14	M81657-6	728A		8*6S7G, 6D8G, 6T7G, 6J7, 6Z7G, 6L5G	455	11-129	
8QU5C, 8QU5M (RC443B)	Vol.	84304-31	18	Order from	Mfr.			33014	1/13,15	FPQ424					8 6SK7, 6SA7, 6B8, 6SC7, *6F6G, 5Y3G, 6U5/6G5	455		
8T2, 8T11	Vol.	72558-44	20	TM249-SS1				11240 5212	1 1	SR644 WE1830					8 *6K7, 6A8, 6H6, 6F5, 6E5, 6F6, 5Z4	460	8-40,44	
8U	Vol. Phono.	72558-44 72291-68	20 1	TM249-SS1 Order from	Mfr.			5212 11387	1 14	WE1830 SR644					8 *6K7, 6A8, 6H6, 6F5, 6F6, 5Z4, 6E5	460	8-45,51	
8U2	Vol. Phono.	72558-44 72291-68	20 63	TM249-SS1 Order from	Mfr.			11240 5212 11387	1 1 13	SR644 WE1830 SR644					8 *6K7, 6A8, 6H6, 6E5, 6F5, 6F6, 5Z4	460	8-53,58	
C8-15, C8-17	Vol. Tone	72291-46 72291-58	20 34	TRP613 L				11240 5212 11248	1 1 14	SR644 WE1830 RS213					8 *6K7, 6L7, 6J7, 6H6, 6F5, 6F6, 5Z3	460	7-77,86	
C8-19, C8-20	Vol.	72291-46	20	TRP613				11240 5212 11387	1 1 1	SR644 WE1830 SR644					8 *6K7, 6A8, 6H6, 6F5, 6F6, 5Z4, 6E5	460	7-87,88	
CV8 Pak-O-Power								13046	12	RS203		14422	W245A	C3			8-52	
D8-28	Vol. Phono.	72291-46 72291-58	20 1	TRP613 Order from	Mfr.			.01-.01 11240 5212	1 1 1	SR644 WE1830	B14				8 *6K7, 6A8, 6H6, 6F5, 6F6, 6E5, 5Z4	460	7-89,92	
HF8	Vol.	84304-6	20	DTM291-SS1				11387 11203 5212 14377	11 25 25 14	SR644 SR644 WE1830 RS216				16 *6K7, 6L7, *6J7, *6H6, *6J5, 6U5, *6L6, *5T4	455	9-21,29		
PSU8E (Power Supply Units)								32047 32048 32045 7342	12/19 12 1 4/13	3S579 RS203 BB21 See Note	B8 B158	32050	Order from Mfr.		5W4		11-35,36	
R8 (AC)	Vol. Tone	3092 3234	99 21	SRP153 K12	6										8 *35, 24A, *27, 47, 80	175	2-13,15	
R8 (DC) (230V.)	Vol. Tone		7	SRP134											7 *37, *39, 36, *71A	175		
T8-14, T8-16	Vol. Tone	72291-46 72291-58	41 20 34	TRP613 L				11240 5212 11248	1 1 14	SR644 WE1830 RS213					8 *6K7, 6L7, 6J7, 6H6, 6F5, 6F6, 5Z3	460	7-77,86	
T8-18	Vol.	72291-46	20	TRP613				11240 5212 11387	1 1 14	SR644 WE1830 SR644					8 *6K7, 6A8, 6H6, 6F5, 6F6, 5Z4, 6E5	460	7-87,88	
U8 (RC404A)	Vol.	33504	18	MR44	M26			39124-1	1	2N509					5 12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	10-36,37	
9K	Vol. Tone	12861 72558-21	20 34	DTM295-SS1 L				12467 5212	25 25	WE3050 WE1830					9 *6K7, 6L7, 6H6, 6F5, 6F6, 6J7, 5Z4, 6E5	460	7-93,98	
9K1	Vol. Tone	13647	150	TRP624	6T			12467	25	WE3050					9 *6K7, 6L7, 6J7, 6H6, 6G5, 6F5, 6F6, 5Z4	460	8-59,66	
9K2	Vol. Tone	12861 72558-24	20 34	DTM295-SS1 L				12467 5212 12872	30 30 15	WE3050 WE1830 BB15					9 *6K7, 6L7, 6J7, 6H6, 6F5, 6L6, 6E5, 5Z4	460	7-99, 106	
9K3	Vol. Tone	12861 72558-21	20 34	TRP621 L				12467 5212	1 1	WE3050 WE1830					9 *6K7, 6L7, 6J7, 6H6, 6G5, 6F5, 6L6, 5Z4	460	8-60,62	
9M1	Vol.	31637	18	MR48	M26			80392-8 .0075	24/15	3S579 Buffer	B14	13688	850	C3	5 6A8, 6K7, 6Q7, 6F6, 6X5	455	9-41,42	
9M2	Vol.	31638	18	MR44	M26			80392-9 .0075	24	2S567 Buffer	B14	13688	850	C3	6 *6K7, 6A8, 6Q7, 6F6, 6X5	455	9-43,44	
9Q1	Vol. Tone	34667 34666	75 22	TM220-SS1 †	M26			33014	1/13/15	FPQ424					9 6SK7, *6SA7, 6B8, 6SC7, *6F6G, 6U5, 5Y3G	455	11-139	
9Q4 (RC478)	Vol. Tone	34389 90987-1	17 22	TM220-SS1 Order from	M26 Mfr.			86039-6	1/19	FP†383					9 *6SK7, 6SA7, 6SQ7, 6SF5, *6F6G, 6U5/ 6G5, 5U4G	455	11-142, 143	
9QK	Vol. Tone	34667 34666	75 22	TM220-SS1 †	M26			33014	1/13/15	FPQ424					9 6SK7, *6SA7, 6B8, 6SC7, *6F6G, 6U5, 5Y3G	455	11-139	
9SX1,2,3,4,5,6,7,8	Vol.	32385	18	MR48	M26			32386	4	2P549					5 6A8, 6K7, 6Q7, 25L6, 25Z6	456	10-38,39	
9T	Vol. Tone	12861 72558-24	20 34	DTM295-SS1 L				12467 5212 12872	30 30 15	WE3050 WE1830 BB15					9 *6K7, 6L7, 6J7, 6H6, 6F5, 6L6, 6E5, 5Z4	460	7-99, 106	
9TX1, 2, 3, 4, 5	Vol.	32578	18	MR44	M26			39124-1	1	2N509					5 6A8, 6SK7, 6SQ7, 25L6, 25Z6	455	10-39,40	
9TX21, 22, 23	Vol.	32580 32578	18 18	MR44 MR44	M26 M26			39124-1	1	2N509					5 6A8, 6SK7, 6SQ7, 25L6, 25Z6	455	10-41	
9TX31, 32, 33	Vol.	32578	18	MR44	M26			39124-1	1	2N509					5 12SA7, 12SK7, 12SQ7, 35L6GT, 35Z4GT	455	10-43	
9TX50 (RC435)	Vol.	33291	18	MR44	M26			39124-1	1	2N509					5 12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	10-44	
9TX50, 9TA50M (Ch. RC454)	Vol.	33291	18	MR44	M26			39124-3	1	2N509					5 12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-37	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
9U, 9U2	Vol. 12861	20	DTM295-SS1				12467	30	WE3050					9	*6K7, 6L7, 6J7, 6H6, 6F5, 6E5, 6L6, 5Z4	460	8-67,78	
	Tone 13468	34	SRP284	8			5212	30	WE1830									
	Phono. 13126	63	Order from Mfr.				12872	15	BB15									
9X	Vol. 31322	6	K12	6T	EX200		86011-1	1	BB24					4	6K7, 6J7, 25L6, 25Z6		9-30	
C9-4	Vol. 72291-46	20	TRP613				11240	1	SR644					9	*6K7, 6L7, 6J7, 6H6, 6F5, 6F6, 6E5, 5Z3	460	6-99,103	
	Tone 72291-58	34	L				5212	1	WE1830									
C9-6	Vol. 72291-46	20	TRP613				11240	1	SR644					9	*6K7, 6L7, 6J7, 6H6, 6F5, 6F6, 5Z3, 6E5	460	7-110, 114	
	Tone 72291-58	34	L				5212	14	WE1830									
CRD9 (AC) Counter Demonstrator	Phono. 6384	16	TRP603				10-4-10	4/17	See Note	B158				4	30, *47, 80		5-217	
CRD9 (DC) Counter Demonstrator	Vol. 6384	16	TRP603				6383	12/15	See Note	B160				3	37, *89			
D9-19	Vol. 72291-46	20	TRP613				11240	1	SR644					9	*6K7, 6L7, 6J7, 6H6, 6F5, 6F6, 5Z3, 6E5	460	7-123, 129	
	Tone 72291-58	34	L				5212	1	WE1830									
	Phono. 72291-68	1	Order from Mfr.				11248	14	RS213					8	*35, *27, 24, *45, 80	175	1-12,13	
R9 (AC) Superette	Vol. 63750-1	7	SRP134				2957	4	SR644					7	24A, *35, *27, *45	175	2-8,10	
	Tone 2996	41	N				3057	4	HD684									
R9 (DC) Superette	Vol. 63750-1	7	SRP134															
	Tone 2996	41	N															
T9-7, T9-8	Vol. 72291-46	20	TRP613				12055	25/13	2N506					9	*6K7, 6A8, 6H6, 6F5, *25A6, 6E5, 25Z6	460	7-115, 122	
	Tone 72291-58	34	L				12056	25/15	3S579									
T9-9	Vol. 72291-46	20	TRP613				11240	1	SR644					9	*6K7, 6L7, 6J7, 6H6, 6F5, 6F6, 5Z3, 6E5	460	7-110, 114	
	Tone 72291-58	34	L				5212	1	WE1830									
							11248	14	RS213					9	*6K7, 6L7, 6J7, 6H6, 6F5, 6F6, 6E5, 5Z4	460	7-107, 109	
T9-10	Vol. 72291-46	20	TRP613				11240	1	SR644									
	Tone 72291-58	34	L				5212	1	WE1830									
U9 (Ch. RC482B)	Vol. 34034	18	MR44	M26			86041-7	24	2N515					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-52	
U9 (2nd Production) (Ch. RC482C)	Vol. 34034	18	MR44	M26			86041-7	77	2N515					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-147, 148	
10A, B, C (Power Supply)							14531	1	WE3050						11	5U4G		11-120
Victor 9-18	Vol. 59	59	SRP141				‡	‡	See Note	B2					*27, 50, *81	180	1-64	
	Sen. 1	1	D12			See Note												
Victor 9-54	Vol. 59	59	SRP141				‡	‡	See Note	B2					*27, 50, *81	180	1-66	
	Sen. 1	1	D12			See Note												
Victor 9-56 (Radiola 64)	Vol. 59	59	SRP141				‡	‡	See Note	B2					*27, *81, 50	180		
	Sen. 1	1	D12			See Note												
10K, 10T	Vol. 12861	20	DTM295-SS1				12467	30	WE3050					10	*6K7, 6L7, 6J7, 6H6, 6F5, 6L6, 5Z4, 6E5	460	7-130, 136	
	Tone 72558-31	34	SRP284	8			5212	30	WE1830									
							12872	15	BB15									
							12873	15/13	BB15/BB31	B12								
10K1, 10T (2nd Prod.)	Vol. 12861	20	DTM295-SS1				12467	30	WE3050					10	*6K7, 6L7, 6J7, 6H6, 6E5, 6F5, 6L6, 5Z4	460	8-79,82	
	Tone 72558-31	34	SRP284	8			5212	30	WE1830									
10Q1 (RC377B)	Vol. 31450	75	TM249-SS1				5212	1	WE1830					9	*6K7, 6L7, 6B8, 79, *6F6G, 6U5, 6J7	455	11-39	
	Tone 31807	22	MR53	M27			86015-2	13/19/15	TN125									
10X	Vol. 84779-1	18	MR48	M26		A106	35348	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-17,18	
BP10 (RC544)	Vol. 94817-1	18	Order from Mfr.				36718	12	BB22					4	1R5, 1T4, 1S5, 1S4	455	12-11	
PSU 10E (Power Supply Unit)							32047	1/19	3S579	B8	32050	Order from Mfr.			5T4		11-33,36	
							32045	18	BB24									
							32048	‡	RS203									
							7342	4/13	See Note	B158				8	*35, 24A, 47, *27, 80	175	2-16,17	
R10 (AC)	Vol. 3092	99	SRP153															
	Tone 3234	21	K12	6														
R10 (DC)	Vol. 63750-1	7	SRP134															
	Tone 2996	41	N															
TI10-1	Vol. 72291-49	20	TRP621				11203	25	SR644					10	*6K7, 6L7, 6H6, *6C5, *6F6, 6J7, 5Z3	460	6-104, 108	
	Tone 11219	41	N				5212	25	WE1830									
							11215	‡	See Note	B161								
TI10-3	Vol. 72291-49	20	TRP621				11203	25	SR644					10	*6K7, 6L7, 6J7, 6H6, *6C5, *6F6, 5Z3	460	6-109, 114	
	Tone 11219	41	N				5212	25	WE1830									
							11215	‡	See Note	B161								
UI10 (Ch. RC418B)	Vol. 84304-39	20	TM238-SS1	M26			86031-14	1	FPD231					5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y3G	455	11-42	
Victor SW10 Short Wave Adapter	Vol. 31836	26	J											3	24, *27	1000	1-53,54	
11QK (RC335C)	Vol. 84304-2	22	TM249-SS1	M26			86015-4	25	ST598					11	*6K7, 6L7, 6Q7, 6F5, *6F6G, 6U5, 6J7	455	11-43,44	
	Fid. 84304-2	22	Order from Mfr.				5212	25	WE1830									
11QU (RC335E)	Vol. 31836	17	TM249-SS1	M26			86015-4	25	ST598					11	*6K7, 6L7, 6Q7, 6F5, *6F6G, 6U5, 6J7	455	11-43,44	
	Fid. 84304-2	22	Order from Mfr.				86015-5	25	WE1830									
11Q4	Vol. 31836	17	TM249-SS1	M26			86015-4	25	ST598					11	*6K7, 6L7, 6Q7, 6F5, *6F6G, 6U5, 5T4, 6J7	455	11-43	
	Fid. 84304-2	22	Order from Mfr.				5212	25	WE1830									

‡ Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued 11X1 (Ch. RC1001A)...	Vol.	84779-1	18	MR48	M26		A106	35348	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-20
C11-1, D11-2	Vol. Tone	72291-49 11219	20 41	TRP621 N				11203 5212 11215	25 25 ‡	SR644 WE1830 See Note			B161		11	6K7, 6L7, 6J7, 6I16, 6C5, 6F6, 6E5, 5Z3	460	6-115, 120 7-137, 143 2-18.20
R11 (AC)	Vol. Tone	3092 3093	99 41	SRP153 Y200MP	6			‡	26	See Note	B1				9	24, 27, 335, 247, 80	175	2-18.20
T11-8	Vol. Tone	72291-49 11219	20 41	TRP621 N				11203 5212 11215	25 25 ‡	SR644 WE1830 See Note			B161		11	6K7, 6L7, 6J7, 6I16, 6C5, 6F6, 5Z3, 6E5	460	7-144, 148
R12 (AC)	Vol. Tone	3092 3234	99 21	SRP153 K12	6			7342	4/13	See Note	B158				8	24A, 335, 27, 47, 80	175	2-13, 15
12AX, 12AX2 (RC1001C)	Vol.	84779-1	18	MR48	M26		A106	36301	77	2N515					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-21
12X, 12X2 (RC1001B)	Vol.	84779-1	18	MR48	M26		A106	36301	77	2N515					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-21
12QK (RC338)	Vol.	31848	17	DTM291-SS1				5212	25	WE1830					11	6K7, 6L7, 6U5, 6H7, 6F6, 6J5, 6J7	455	11-47
12QU	Vol.	31848	17	DTM291-SS1				5212	25	WE1830					11	6K7, 6L7, 6U5, 6H7, 6F6, 6J5, 6J7	455	11-47
12Q4 (RC338)	Vol.	31848	17	DTM291-SS1				5212	25	WE1830					11	6K7, 6L7, 6U5, 6H7, 6F6, 6J5, 6J7	455	11-47
U12 (Ch. RC425A)	Vol.	84304-39	20	TM238-SS1	M26			86031-4	1/15	FPT332					7	6SA7, 6SK7, 6SQ7, 6SF5, 6F6G, 5Y3G	455	11-53, 54
13K	Vol. Tone	72558-48 13015	20 41	Order from Order from Mfr.	Mfr.			11203 5212 12470	25 25 15	SR644 WE1830 BB15					13	6K7, 6L7, 6J7, 6I16, 6C5, 6E5, 6L6, 5Z4	460	8-83, 90
C13-2	Vol. Tone	72291-49 72291-48	20 41	TRP621 UC505				11203 5212 11204	25 25 ‡	SR644 WE1830 See Note			B162		13	6K7, 6L7, 6J7, 6I16, 6C5, 6F6, 6E5, 5Z3	460	6-121, 127
14AX (RC1001E)	Vol.	84779-1	18	MR48	M26		A106	36301	77	2N515					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-22, 86 11-149, 150
14BK (Ch. RC525B)	Vol.	36080	18	MR53	M27			33911	12	BB22					4	1A7GT, 1N5GT, 115GT, 3Q5GT	455	11-149, 150
14BT1, 14BT2, 14BK (RC525, 525A), (RC525B)	Vol.	36080	18	MR53	M27			33911	12	BB22					4	1A7GT, 1N5GT, 115GT, 3Q5GT	455	11-149, 150
14X (RC1001D)	Vol.	84779-1	18	MR48	M26		A106	36301	77	2N515					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-22, 86 3-19
Victor R14	Vol. Tone		2/12 44	DRP116 Y				1-2-1.5	26	See Note	B1				7	24, 245, 80		
15BP (Ch. RC527, 527A) Ser.	Vol.	36125	18	MR53				34472 34965	76 78	FPT304 BB15					5	1A7GT, 1N5GT, 115GT, 3Q5GT, 35Z5GT	455	12-23
15BT (Ch. RC526)	Vol.	36080	18	MR53	M27			86041-17	12/13	2N507					5	1N5GT, 1A7GT, 115GT, 3Q5GT	455	12-24
15K	Vol. Fidelity Tunlgt.	13014 13015 13016	20 41 ‡	Order from Order from UC514	Mfr.			11203 5212 5212 12470 13025 12467 11240 11496 5212 12740 12472 13610 13611 36301	25 25 13 15 15 28 28 28 13 15 15 14 15 77	SR644 WE1830 WE1830 BB15 TN111 WE3050 SR644 RS216 WE1830 BB15 BB12 BB41 BB15 2N515				15	6K7, 6L7, 6I16, 6C5, 6L6, 5Z4, 6E5	460	7-149, 155	
15U	Vol. Fid. Exp. Exp. bias	12861 13616 72558-10 12468	20 41 15 ‡	TRP621 Order from P Order from Mfr.	Mfr.			11203 5212 12470 13025 12467 11240 11496 5212 12740 12472 13610 13611 36301	25 25 13 15 28 28 28 13 15 15 14 15 77	SR644 WE1830 WE1830 BB15 TN111 WE3050 SR644 RS216 WE1830 BB15 BB12 BB41 BB15 2N515				15	6K7, 6L7, 6J7, 6I16, 6C5, 6E5, 2A3, 5Z3	460	8-91, 140	
15X (RC462)	Vol.	36242	18	MR48	M26		A106	36301	77	2N515					6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-25, 26
C15-3	Vol. Tone	72291-45 72291-48	100 41	TRP622 UC505				11203 5212 5213	1 1 13/14/ 19	SR644 WE1830 3S584					15	6K7, 6L7, 6J7, 6I16, 6C5, 6E5, 6F6, 5Z3	460	6-129, 134
R15 Victor VA15	Vol.	64000-1	2/12	DRP116				‡	Order	from Mfr.					7	24A, 245, 80		1-14
16K (RC509C)	Vol.	72357-40 35859	50 18	TM220-SS1 TM220-SS1	M26			35858	1/15	FPT333					6	6SK7, 6SA7, 6SQ7, 6K6GT, 5Y3G	455	11-150- 154
16T2, 16T3 (RC509B, RC509A)	Vol.	35859	18	TM220-SS1	M26			35858	1/15	FPT333					6	6SK7, 6SA7, 6SQ7, 6K6GT, 5Y3G	455	11-150- 153
16T4 (Ch. RC509)	Vol.	35859	127	TM220-SS1	M26			35858	1/15	FPT333					6	6SK7, 6SA7, 6SQ7, 6K6GT, 5Y3G	455	11-55, 56

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued 16X1, 16X2, 16X3..	Vol.	36242	18	MR48	M26		A106	36301	77	2N515					6	212SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT..	455	12-25,26
16X4 (Ch. RC462C)	Vol.	36242	18	MR48	M26		A106	36301	77	2N515					6	212SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT..	455	12-27
16X11 (Ch. RC1000)	Vol.	36242	18	MR48	M26		A106	36301	77	2N515					6	212SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT..	455	12-28
16X13 (Ch. RC1000A)	Vol.	36242	18	MR48	M26		A106	36301	77	2N515					6	212SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT..	455	12-28
16X14 (Ch. RC1000B)	Vol.	36242	18	MR48	M26		A106	36301	77	2N515					6	212SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT..	455	12-29
PT16-A1, PT16-A2, RE16.	Vol.	4100	63	SRP152				2957	4	SR644					7	35, 327, 345, 80	175	
	Vol.		7	SRP134				3057	4	11D684								
	Tone		41	N														
RE16A	Phono. Vol.	3100	63	SRP152				2957	4	SR644					8	35, 24A, 327, 347, 80	175	4-19,20
	Vol.		7	SRP134														
	Tone		41	Y200MP	6													
17K (Ch. RC512)	Phono. Vol.	36250	63	SRP152				35858	1/15	FP1333					7	6SK7, 6SA7, 6116, 6SF5, 6K6GT, 5Y3G	455	11-157-159
	Vol.		127	TM249-SS1	M26													5-222
PT17-A1, PT17-A2, PT17-B1, PT17-B2, Radiola 17, R17M	Vol.	4100	63	SRP152											7	26, 27, 71A, 80		1-15
	Vol.	4715	1	SRP145		See Note	A65	3538	1	See Note	B4				4	36, 37, 38, 39		4-21,22
	Vol.	67817-1	7	UC509	6			3536	15	TN111					7	21A, 345, 80		
			2/12	DRP116					Order	from Mfr.								
Victor RE17	Phono. Vol.		63	SRP152											8	6SK7, 6SA7, 6SQ7, 6SF5, 6K6GT, 5Y3G	455	
18T (RC511)	Vol.	35807	124	TM220-SS1	M26			33014	1/13/15	FPQ424					9	24A, 327, 335, 347, 80	175	2-23,25
	Vol.	36250	124	TM249-SS1	M26		A4											
RE18	Vol.	3092	99	SRP153				2-4	4	See Note	B1							
	Tone	3093	41	Y200MP	6													
	Phono. Vol.	7391	63	SRP152				10-4	4	CM172	B169				9	24A, 327, 335, 347, 80	175	2-23,27
RE18A	Vol.	3092	99	SRP153														
	Tone	3093	41	Y200MP	6													
	Phono. Vol.	7391	63	SRP152														
Radiola 18 (AC)	Vol.		1	SRP144				1-1-5	3	See Note	B1				7	26, 27, 71A, 80		1-16
Radiola 18 (DC)	Vol.		1	SRP144				4-2	1	See Note	B11				6	12A, 71A		1-16
R18W	Vol.	67817-1	7	UC509	6			3338	9/14	2N516					4	78, 77, 38, 25Z5		4-23,24
								6535	9	2S560								
								3536	15	TN113								
								35858	1/15	FP1333					9	6SK7, 6SA7, 6116, 6SF5, 6K6GT, 5Y3G	455	11-64-66
19K (Ch. RC512A)	Vol.	35962	124	TM249-SS1	M26		A19								8	24A, 327, 335, 347, 80	175	2-23,29
RE19 (AC) (AVC)	Vol.	3092	99	SRP153				10-4-4	4/13	See Note	B158							
	Tone	3234	21	K12	6													
	Phono. Vol.		63	SRP152				35761	77	2S569					5	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	11-167, 168
Q20 (RC514)	Vol.	35764	18	MR53	M26										10	35, 24A, 327, 347, 80	175	2-30,33
RE20 Electrola	Vol.	3142	13	K12				2-3	4	CM170	B169							
	Tone	3143	101	N														
	Phono. Vol.	6225	63	SRP152				86031-4	1/15	FP1332					7	6SA7, 6K7, 6SQ7, 6SF5, 6K6GT, 5Y3G	455	11-55,56
U20 (Ch. RC498)	Vol.	84701-15	124	TM249-SS1	M26													
Q21	Vol.	35764	18	MR53	M26			35761	77	2S569					5	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	
VA20	Vol.	32499	63	MR44	M26			86027-1	24	FPD225								
R21	Vol.	3092	99	SRP153				2-3	4	CM170	B169				9	24A, 327, 335, 347, 80	175	2-34,36
	Tone	3093	41	Y200MP														
VA21	Vol.	32499	50	MR44	M26			86027-1	24	FPD225					2	6A8, 25Z6G		12-38
Radiola 21, 22	Vol.	6049	12	K12						See Note	B1				5	22, 21A, 71A		1-18
D22-1	Vol.	72291-45	100	TRP622				11203	1	SR644					22	6K7, 6L7, 6H16, 6C5, 6J7, 6E5, 42A3, 35Z3	460	6-135 to 6-149
	Tone	72291-48	41	UC505				5212	1	WE1830								
				Phono Section				5213	13/14	3S584								
	Vol.	11877		Order from Mfr.				11608	13/14	3S584								
	L.F. Tone	11581		M				11497	43	RS213								
	H.F. Tone	11579		L				11496	43	RS216								
	Exp.	11884		O	8			11498	15/19	CM172	B165							
	Exp. Bias	11512		Y5MP				39123-1	24	2N509					2	6SA7, 25Z6G, 886A		11-61
Osc. 22	Phono. Vol.	83404-44	50	MR44				10-10-10-20	1/13/15	FPQ424					6	6SA7, 6SK7, 6SQ7, 6AD7G, 6F6G, 5Y3G	455	12-31,32
Q22 (RC507)	Vol.		18	TM230-SS1	M26													
	Tone		22	MR48	M26			6518	9	CM172					5	78, 6A7, 77, 43, 25Z5	175	4-25,26
R22	Vol.	6508	9	A5MP	6	2		6510	9	BB31								
								6511	13/15	CM172/BB12								
VA22	Phono. Vol.	72357-40	50	TM220-SS1	M26			10-10-10-20	1/13/15	FPQ424					6	6SA7, 6SK7, 6SQ7, 6AD7G, 6F6G, 5Y3G	455	12-31,32
QK23 (RC507B)	Vol.		18	TM230-SS1	M26													
	Tone		22	MR48	M26													

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A. -Continued																		
RO23	Vol. Tone	3092 3093	99 22	SRP153 K12				4-10	4/13	See Note	B158				10	24A, 27, 35, 47, 80	175/1075	2-37, 42
25 (DC) (220 V)	Vol.			SRP134	6										6	37, 39, 89	175	5-56
24BT1, 24BT2 (Ch. RC1004F)	Vol.	36080	18	MR53	M27			38593	12	BB22					4	1A7GT, 1N5GT, 1H5GT, 3Q5GT	455	
Q24 (RC508)	Vol. Tone		18 22	TM230-SS1 MR48	M26			40-40-10-20	24/13,15	FPQ416					6	12SA7, 12SC7, 12C8, 50L6GT, 35Z5GT	455	12-33,34
25BK (Ch. RC1004B)	Vol.	36080	18	MR53	M27			38706	12/13,78	48715					5	1N5GT, 1A7GT, 1H5GT, 3Q5GT	455	
25BP (Ch. RC527D)	Vol.	36125	18	MR53				34472 34965	76 78	FPT304 BB15					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 35Z5GT	455	
25BT2 (Ch. RC1004A)	Vol.	36080	18	MR53	M27			38705 38718	13 78	BB26 BB12					5	1N5GT, 1A7GT, 1H5GT, 3Q5GT	455	
25BT3 (Ch. RC1004B)	Vol.	36080	18	MR53	M27			38706	12/13,78	48715					5	1N5GT, 1A7GT, 1H5GT, 3Q5GT	455	
Q25 (RC507A)	Vol. Tone		18 22	TM230-SS1 MR48	M26			10-10-10-20	1 13 15	FPQ424					6	6SA7, 6SK7, 6SQ7, 6AD7G, 5Y3G, 6F6G	455	
U25 (Ch. 386B)	Vol. & Tone	K85479-2	17/22	SMD503				86018-4 86011-3	1 19 14	3S579 BB60					8	6A8G, 6K7, 6Q7G, 6J5, 6K6G, 6U5, 5Y3G	455	12-31,32
26X1, 26X3 (Ch. RC1014), (Ch. RC1014A)	Vol.	38410	18	MR48	M26			36301	77	2N515					6	12SG7, 12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	
26X4 (Ch. RC1014B)	Vol.	38410	18	MR48	M26			36301	77	2N515					6	12SG7, 12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	
Q26 (RC507J)	Vol. Tone		18 22	TM230-SS1 MR48	M26			10-10-10-20	1/13 15	FPQ424					7	6SA7, 6SK7, 6SQ7, 6AD7G, 6F6G, 6U5/6G5, 5Y3G	455	
RAE26	Vol. Tone Phono	3092 3093 3186	99 41 63	SRP153 Y200MP SRP152				2-4	4	See Note	B1				9	35, 24, 27, 347, 80	175	12-92-94 2-43,45
U26 (RC386B)	Vol.	K85479-2	17/22	SMD503	6			86018-4 86011-3	1 19 14	3S579 BB60					8	6A8G, 6K7, 6Q7G, 6J5, 6K6G, 6U5, 5Y3G	455	12-92-94
27K (Ch. RC567)	Vol.	38404	18	TM254-SS1	M27			38571	1, 15	FPT332 BB60					7	6SK7, 6SA7, 6SQ7, 6K6GT, 5Y3G	455	4-27,28
R27, R27 (REV.)	Vol.	67817-1	7	UC509	6	EX300		3538	13	2N516					4	36, 37, 38, 39		
28T (Ch. RC569)	Vol.	38404	17	TM254-SS1	M27			3536	15	TN113					4	36, 37, 38, 39		
28X (Ch. RC1002)	Vol. Tone	38404 38409	124 95	TM254-SS1 MR48	M27			33014	1/13 15	FPQ424					8	6SK7, 6SA7, 6SQ7, 6K6GT, 5Y3G	455	
28X5 (Ch. RC1002A)	Vol. Tone	38404 38409	124 95	TM254-SS1 MR48	M27			39152	77	2N515/BB26	B8				8	6SG7, 6SA7, 6SK7, 6SQ7, 35L6GT, 25Z6GT	455	
R28, R28BW, R28BWC, R28P	Vol.	6465	7	A3MP	6	1		7590	1	SR644					5	58, 2A7, 57, 2A5, 80	175	3-4, 5-3
CE29	Phono	3588	7	D	6	1		7589	1/14	SR627					4	30, 347, 80		4-29
M30 Auto Radio	Vol.	6157	63	SRP152		See Note A3		10-10-4	26	See Note	B158				4	30, 347, 80		3-55, 58
U30 (RC335KR)	Vol. Tone	72357-44 72357-43	20 22	Y50MP TM249-SS1		EX300 A59		1	12	BB10					9	36, 37, 38, 39	175	2-46, 58
P31 Portable	Vol.	6239	15	O				86015-4	25	2S568	B8				10	6A8, 6J7, 6K7, 6H6, 6F5, 6F6G, 5U4G, 6U5	455	10-47-53
M32 Auto Radio	Vol.	6363	16	P				80385-7	25	RS216					8	31, 32, 30		2-59, 60
Victor R32	Vol. Phono. Tone		102 63 41	DRP115 A O				3-2-5-3	3	See Note	B1				10	37, 39, 85, 89		2-61, 69
PT33 Portable Turn-Table	Phono.	7391	63	SRP152											10	26, 27, 345, 80		1-26
29K, 29K2 (Ch. RC570 and RC570C)	Vol.	38404	124	TM254-SS1	M27			38571	1/15	FPT332					9	6SG7, 6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	
Q33 (RC539)	Vol. Tone		124 22	TM238-SS1 MR53	M26			10-10-10-20	1/13/15	FPQ424					8	6SK7, 6SA7, 6SQ7, 6AD7G, 6F6G, 6U5/6G5, 5Y3G	455	
Radiola 33 (AC)	Vol.		1	SRP144				1-1	2	See Note	B166				7	26, 27, 71A, 80	455	12-80-88 1-28

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued Radiola 33 (DC), M34.....	Vol. Vol.	..... K67967.....	1 1	SRP133. SRP251.....	6			7600. 6492. 6513. 2-2-2.....	1 13 15 3	See Note. Order from TN113. See Note.....	B167 Mfr.	67954.....	271	C15	6 ¹ 2A, 71A..... 4 78, 6A7, 6B7, 89.....	175	1-28 3-9,14
Victor R35.....	Vol. Tone Phono.	..... ..... .....	2/8 22 63	DRP250. P SRP152.....							B1				8 ² 4, 27, 45, 80.....		1-29,30
R37, R37P, R38, R38P.....	Vol. Tone	..... .....	19 103	TRP607. N	6		7590. 6487. 2-2-2.....	1 1/14/15 3	SR644. SR624. See Note.....						6 ³ 58, 2A7, 2B7, 2A5, 80..... 8 ² 4A, 27, 45, 80.....	175	3-15, 4-31 1-29,30
R39.....	Vol. Tone Phono.	..... ..... .....	2/8 22 63	DRP250. P SRP152.....							B1						
BT40.....	Vol.	33059.....	18	MR48.....	M27		32187.....	12	BB31.....						4 1A7G, 1N5G, 1H5G, 1C5G.....	455		
RE40, RE40P.....	Vol. Phono.	6465..... 6475.....	7 87	A3MP..... E12.....	6 8	1 See Note	7590..... 7589.....	1 1/14	SR644. SR627.....						5 58, 2A7, 57, 2A5, 80.....	175	3-17, 4-33	
40X30, 31 (Ch. RC405C, D)	Vol.	32578.....	18	MR44.....	M26		39124-1.....	1	2N509.....						5 12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT.....	455	11-62	
40X50 (Ch. RC436)	Vol.	32545.....	18	MR44.....	M26		39124-1.....	1	2N509.....						5 12SA7, 12SK7, 12SQ7, 35L6GT/50L6GT, 35Z5GT.....	455	11-63	
40X52, 55 (Ch. RC453).....	Vol.	32545.....	18	MR44.....	M26		39124-3.....	1	2N509.....						5 12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT.....	455		
U40 (Ch. RC498A).....	Vol.	84701-15.....	18	TM249-SS1.....	M26		86031-4.....	1/15	FPT332.....						7 6SA7, 6K7, 6SQ7, 6SF5, 6F6G/ 6K6G, 5Y3G.....	455	11-55,56 1-32 1-31	
Radiola 41 (AC).....	Vol.	.....	1	SRP145.....			2-2.....	1	See Note.....	B1					7 26, 27, 10, 80.....	455	11-55,56 1-32 1-31
Radiola 41 (DC), BK41 (Ch. RC449).....	Vol. Vol.	..... 34557.....	1 18	SRP145..... MR44.....			86011-4.....	12	BB21.....						4 1A7G, 1N5G, 1H5G, 1Q5GT.....	455	
BT41 (Ch. RC449).....	Vol.	72357-33.....	18	MR44.....	M27		86011-4.....	12	BB21.....						4 1A7G, 1N5G, 1H5G, 1Q5GT.....	455		
BT42 (Ch. 408A).....	Vol.	34120.....	18	MR53.....	M27		86041-14.....	12	BB21.....						4 1A7G, 1N5G, 1H5G, 1Q5GT.....	455	11-65	
CV42 Electrifier..... U42 (Ch. RC498B).....	Vol.	84701-15.....	18	TM249-SS1.....	M26		38701..... 86031-4.....	24/78 1/15	FPT309..... FPT332.....						8 35Z5GT, Ballast..... 6SA7, 6SQ7, 6K7, 6SF5, 6F6G/ 6K6G, 5Y3G, 6U5.....	455	11-57 1-34	
Radiola 42.....	Vol. Tone	..... .....	2/12 44	DRP116..... Y.....			2-1.....	26	See Note.....	B1					7 24A, 45, 80.....	455	11-57 1-34
U43 (RC498E).....	Vol.	84701-15.....	124	TM249-SS1.....	M26		86031-4.....	1/15	FPT332.....						8 6SA7, 6K7, 6SQ7, 6SF5, 6K6GT, 5Y3G, 6G5/6U5.....	455	1-33	
R43.....	Vol. Tone	..... .....	54 41	K12..... K12.....			2957.....	12	SR644.....						8 32, 30.....	175	1-33
Q44 (Ch. RC531).....	Vol.	.....	124	TM240-SS1.....	M26		40-100..... 30-20-5.....	25/19 25/13	FPT340..... FPT371.....						12 6SK7, 6SA7, 6AD7G, 6BB7, 6H7, 6F6G, 6U5/6G5, 5U4G.....	455	12-89,91
U44 (Ch. RC486B).....	Vol.	84701-5.....	17	Order from Mfr.....			34533..... 86011-1.....	1/19 14	FPT339..... BB34.....						10 6SK7, 6SA7, 6H6, 6SF5, 6F6, 6U5, 5U4G.....	455	11-69,70 1-35,36	
Radiola 44 (AC)..... 45E (Ch. RC435A).....	Vol. Vol.	..... 33291.....	12 18	SRP142..... MR44.....		See Note A67	2-2-2..... 39124-4..... 86041-14.....	3 24 13	See Note.....	B1					5 24, 45, 80..... 5 12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT.....	455	11-72
45X1, 45X2 (Ch. RC457).....	Vol.	35113.....	18	MR44.....	M26		39124-1.....	1	2N509.....						5 12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT.....	455		
45X3, 45X4 (Ch. RC457E).....	Vol.	84701-37.....	18	MR44.....	M26T	A106	39124-1.....	1	2N509.....						5 12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT.....	455		
45X5, 45X6 (Ch. RC457D).....	Vol.	35113.....	18	MR44.....	M26		39124-1.....	1	2N509.....						5 12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT.....	455		
45X11, 45X12 (Ch. RC459), 45X13 (Ch. RC459A).....	Vol.	35057.....	18	MR48.....	M26T		39124-1.....	1	2N509.....						5 12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT.....	455		
45X16, 45X17 (Ch. RC459M).....	Vol.	84701-30.....	18	MR48.....	M26T	A106	35348.....	1	2N514.....						5 12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT.....	455		
45X18 (Ch. RC541C).....	Vol.	35728.....	18	MR48.....	M26	A106	35348.....	1	2N514.....						5 12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT.....	455	12-35	
45X111, 45X112 (RC459J).....	Vol.	84701-30.....	18	MR48.....	M26T	A106	35348.....	1	2N514.....						5 12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT.....	455		

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
45X113 (RC459K)	Vol.	84701-30	18	MR48	M26T	A106	35348	1	2N514						5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	
Victor RE45	Vol. Phono.		102	DRP115			3-2.5-3	3	See Note	B1					10	*26, 27, *45, 80		1-26
U45 (RC486C)	Vol.	84701-5	20	Order from Mfr.			34533	1/19	FPT339						10	*6SK7, 6SA7, 6H6, *6SF5, *6F6G, 6U5/6G5, 5U4G	455	
46X1, 46X2 (Ch. RC459B), 46X3 (Ch. RC459C)	Vol.	35057	18	MR48	M26		35064	1	2N509						5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-36
46X11, 46X12 (Ch. RC456), 46X13 (Ch. RC456A)	Vol.	84701-21	18	TM225-SS1	M26		39124-1	1	2N509						5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	
46X21 (RC461A)	Vol.	84701-21	18	TM225-SS1	M26		35673	77	2N515						5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	
46X23 (RC461B)	Vol.	84701-21	18	TM225-SS1	M26		35673	77	2N515						5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	
46X24 (RC461)	Vol.	84701-21	18	TM225-SS1	M26		35673	77	2N515						5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	
U46 (Ch. RC501)	Vol.	84701-22	20	DTM291-SS1	M26		86042-5	25/19	FPT340						13	*6SK7, 6SA7, 6H6, *6SF5, *6F6G, 6U5/6G5, 5U4G	455	
Radiola 46 (AC)	Vol.		12	SRP142		See Note	2-2-2	3	See Note	B1					5	*24A, 45, 80		1-36
Radiola 46 (DC)	Vol.		12	SRP150			2-2-2	3	See Note	B1					6	*22, *12A, *71A		1-35
Radiola 47	Vol.		12	SRP142			2-2-2	3	See Note	B1					5	*24A, 45, 80		1-37
48 Radiola	Phono. Vol.		63	SRP152			1-2	4	See Note	B1					7	*24A, *45, 80		1-38, 2-70
K50 (Ch. RC418A)	Vol.	84304-39	20	TM238-SS1	M26		86031-14	1	FPT231						5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y3G	455	11-87,88
K50 (Ch. RC497)	Vol.	34796	124	TM249-SS1	M26		86031-4	1/15	FPT332						5	6SA7, 6K7, 6SQ7, 6F6G, 5Y3G	455	
M50 (Ch. RC357J)	Vol.	31637	18	MR48	M26		86031-4	24/15	FPT332		13688	850	C3		5	6A8, 6K7, 6Q7, Buffer, 6K6GT, 024G	455	10-55
O50	Vol.	84304-30	50	TM220-SS1	M26T		.0075	1/15	FPT426						3	6SF5, 6F6G, 5Y3G		2-71,72
R50	Vol.		13	K12			33214	4	See Note	B1					10	*25, *24A, 27, *47, 80	175	
Radiola 50	Vol.		101	N			3.5-3.5	1	See Note	B4					7	*26, 27, 71, 80		1-15
U50 (RC414C)	Vol.	33409	18/22	SRP145			86031-4	1/15	FPT332						5	6SA7, 6K7, 6SQ7, 6F6G, 5Y3G	455	10-61,62
Radiola 51 (AC)	Vol.		1	SRP144			1-1-5	3	See Note	B1					7	*26, 27, 71, 80		1-16
Radiola 51 (DC)	Vol.		1	SRP144											7	*12, 71		1-16
R51B	Vol.	3707	20	TM251-SS1			6548	12	BB31						10	*34, *30	175	4-37,38
Victor RS2	Tone	6449	41	UC505														
R53B	Phono. Vol.		102	DRP115			3-2.5-3	3	See Note	B1					10	*26, 27, *45, 80		1-26
R53B	Vol.	3707	20	TM251-SS1			6548	12	BB31						10	*30, *34	175	4-37,38
55X (Ch. RC1003C)	Tone	6449	41	UC505														
BP55, 56 (Ch. RC455)	Vol.	84701-30	18	MR48	M26	A106	36301	77	2N515						5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	
R55	Vol.		13	K12											5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 117Z6G/35Z5GT	455	11-90
T55 (Ch. RC418)	Tone		101	N			4-4	4	See Note	B1					10	*35, 24A, *27, *47, 80	175	2-71,72
RE57	Vol.	33631	18	MR53	M26		86031-14	1	FPT231						5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y3G	455	11-87,88
RAE59	Phono. Vol.		2/8	DRP250			2-2-2	3	See Note	B1					8	*24A, 27, *45, 80		1-29,30
K60 (Ch. RC415)	Tone		22	P														
K60 (Ch. RC415B)	Phono. Vol.		63	SRP152														
M60 (Ch. RC357K)	Vol.	3142	13	K12			2-3	4	See Note	B1					10	*35, 24A, *27, *47, 80	175	2-73,74
R60 (Ch. RS91B)	Tone	3143	101	N														
T60 (Ch. RC425)	Phono. Vol.		63	SRP152	6													
K60 (Ch. RC415)	Vol.	86304-28	45	TM220-SS1	M26		86031-4	1/15	FPT332						6	6SA7, 6SK7, 6H6, 6SF5, 6F6G, 5Y3G	455	11-91-94
K60 (Ch. RC415B)	Vol.	84701-13	124	TM249-SS1	M26	A59	86031-4	1/15	FPT332						6	6SA7, 6K7, 6H6, 6SF5, 6F6G, 5Y3G	455	11-94-96
M60 (Ch. RC357K)	Vol.	31638	18	MR44	M26		33803	24	FPT231		13688	850	C3		6	*6K7, 6A8, 6Q7, Buffer, 6K6GT, 024G	455	10-63
R60 (Ch. RS91B)	Vol.	84304-30	50	TM220-SS1	M26T		.0075	1/15	FPT426						3	6SF5, 6F6G, 5Y3G		11-103
T60 (Ch. RC425)	Vol.	84304-39	20	TM238-SS1	M26		33214	1	FPT231						6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y3G	455	11-97,98
Radiola 60	Vol.		8	SRP138			2-2	2	See Note	B1					9	*27, 71A, 80	180	1-39
K61 (RC498F)	Vol.	84304-30	18	TM220-SS1	M26T		86031-4	1/15	FPT332						6	6SA7, 6K7, 6H6, 6SF5, 6F6G, 5Y3G	455	
K62 (RC415B)	Vol.	84701-13	124	TM249-SS1	M26	A59	86031-4	1/15	FPT332						6	6SA7, 6K7, 6H6, 6SF5, 6F6G, 5Y3G	455	11-94-96

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R.C.A.—Continued T62 (Ch. RC425D)	Vol.	84304-39...	20	TM238-SS1	M26			86031-14...	1	FPT231					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y3G...	455	11-97,98
Radiola 62	Vol.	35585...	8	SRP138				3.5-3.5	2	See Note	B1				9	27, 71A, 80	180	1-40
T63 (RC472F)	Vol.	35585...	124	TM249-SS1	M26			86031-4	1/15	FPT332					6	6SA7, 6K7, 6SQ7, 6F6G, 6U5/6G5, 5Y3G	455	11-101, 102
T64 (Ch. RC416)	Vol.	84304-36...	18	TM220-SS1	M26			86031-4	1/15	FPT332					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5/6G5, 5Y3G	455	11-104- 106
Radiola 64	Vol.		54	SRP141				4-4-4	26	See Note	B2				11	27, 50, 81	180	1-41
Radiola 66	Sen.		1	D12				2-2-1	3	See Note	B1				8	27, 45, 80	175	1-42
Radiola 67	Vol.		8	SRP139				2-4-4	26	See Note	B1				10	27, 50, 81	175	1-43
	Vol.		8	SRP141														
	Tone		21	N														
	Phono.		63	SRP152														
67M	Vol.	72558-54	56	UM158-SS4				13687, .01-.01	1	CM172 Buffer	B14	13688	850	C3	6	6D6, 6A8, 6K7, 6I37, 42, 84	260	9-47,52
67M1	Vol.	52558-58	17	TM239-SS4				12234	1	RS213		12236	249	C3	6	6D6, 6A8, 6K7, 85, 6C5, 6A6	260	9-49,52
	Tone	52558-7	22	MR39				12238	1/15	CS133/TN111 Buffer	B14				6	6D6, 6A8, 6K7, 85, 6C5, 6A6	260	9-49,52
67M2, 67M3	Vol.	52558-58	17	TM239-SS4				12234	1	RS213		12236	249	C3	6	6D6, 6A8, 6K7, 85, 6C5, 6A6	260	9-49,52
								12238	1/15	CS133/TN111 Buffer	B14				6	6D6, 6A8, 6K7, 85, 6C5, 6A6	260	9-49,52
								.01-.01	26	See Note	B1				9	24, 27, 45, 80	175	7-14
RAE68	Vol.		8	YSMP				3-3-3	26	See Note	B1							
	Tone		34	K12														
	Phono.		63	SRP152														
M70 (Ch. RC394)	Vol. & Tone	86704-1	80	Order from	Mfr.			86031-4, .0075	1/15	FPT332 Buffer	B14	13688	294	C3	7	6K7, 6A8, 6SK7, 6R7, 6V6G, 0Z4G	260	10-65
								10-8-4	4	See Note	B158				7	58, 56, 47, 80	175	4-39,40
R70	Vol.	6372	8	F				10-8-4	4	See Note	B158				8	58, 56, 47, 80	175	3-25,28
	Tone	7522	21	N	6													
	Vol.	6322	8	YSMP				10-8-4	4	See Note	B158				8	58, 56, 47, 80	175	3-25,28
R71	Vol.	6307	21	K12	6			8	12	BB31	B169				8	34, 32, 40	175	3-29,32
R71B	Vol.	6328	20	TM238-SS1														
	Tone	6329	41	UC502														
	Vol.	6322	8	YSMP				10-8-4	4	See Note	B158				8	58, 56, 47, 80	175	3-25,28
R72	Vol.	6307	21	K12	6			10-10-8-8	4	See Note	B169				8	58, 56, 55, 47, 80	175	5-7,8
	Tone	6369	8	A10MP														
	Vol.	6370	41	P	6													
	Tone	6370	41	P	6													
	Vol.	62895	2/8	DRP250				2-2-2	3	See Note	B1				8	24A, 27, 45, 80		2-75,82
	Tone	10813	22	P														
	Phono.	3164	63	SRP152														
R73A (2A5 Output)	Vol.	65982-5	17	P	6			10-10-8-8	4	See Note	B169				8	58, 56, 55, 2A5, 80	175	4-41,42
	Tone	65222-7	41	F	6													
	Supp.	6453	7	F		5												
	Vol.		105	K				10-10-7	2/14	CM175	B169				10	58, 56, 46, 82	175	3-33,34
	Tone		21	L	6			10-10	15/19	CM172	B169				8	58, 55, 56, 47, 80	175	5-10,12
R75 (47 Output)	Vol.		104	G				10-8-10	4/15	CM175	B169				8	58, 56, 55, 2A5, 80	175	5-10,14
	Sen.		104	P														
	Vol.		41	P	6			10-8-10	4/15	CM175	B169				8	58, 56, 55, 2A5, 80	175	5-10,14
	Tone		17	P														
	Vol.		41	F	6													
	Sen.		7	P		5												
Victor RE75	Vol.	10450	102	DRP115				3-2-5-3	3	See Note	B1				10	26, 27, 45, 80		1-26
	Phono.		63	A				10-10-7	2/14	CM175	B169				10	58, 56, 46, 82	175	3-33,36
	Vol.		105	YSMP				10-10	15/19	CM172	B169							
	Tone		21	L	6													
R78 (Less Noise Suppressor)	Vol.		7/20	Order from	Mfr.			8910	4	CM172	B169				12	58, 56, 46, 82	175	3-37,41
	Tone		1	N														
R78 (With Noise Suppressor)	Vol.		20	TRP601				8910	4	CM172	B169				12	55, 58, 56, 46, 82	175	3-42, 7-166
	Supp.		7	Order from	Mfr.													
	Tone		1	N														
	Vol.		13	K12		See Note A61		4-4	4	CM170	B169				13	35, 24A, 27, 47, 80	175	2-83,88
RAE79	Vol.		101	N		See Note A5												
	Tone		87															
K80 (Ch. RC415A)	Vol.	84304-28	18	TM220-SS1	M26			33014	1/13/15	FPQ424					8	6SK7, 6SA8, 6SQ7, 6SF5, 6F6G, 5Y3G, 6G5/6U5	455	11-107
K80, 81 (Ch. RC415D, C)	Vol.	84701-13	124	TM249-SS1	M26		A59	33014	1/15	FPQ424					8	6SA7, 6K7, 6SF5, 6F6G, 5Y3G, 6U5/6G5	455	11-108
T80	Vol.	84304-36	18	TM220-SS1	M26			33014	1/13/15	FPQ424					8	6SA7, 6SK7, 6SQ7, 6SF5, 6F6G, 5Y3G, 6U5/6G5	455	11-109
			7	A5MP		See Note A76		2-3-3	26	CM175	B169				9	24, 27, 45, 80	175	1-44, 2-89
			8	A10MP				3	26	CS131	B12				8	58, 56, 55, 47, 80	175	4-44,48
			41	P	6			10-8-10	4	See Note	B158							
			9	G														
RE80	Vol.	K67241	8	A10MP														
	Tone	65222-7	41	P	6													
	Sil.		9	G														
	Phono.	6385		Order from	Mfr.													

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
RE81	Vol. Tone Phono. Vol.		8 21 16	Y50MP N TRP603				10-10-10 10-10	2/14 15/19	CM175 CM172	B169 B169				10	58, 456, 446, 82	175	3-43, 46
K82 (Ch. 415C)	Vol.	84701-13	124	TM249-SS1	M26		A59	33014	1/13/15	FPQ424					8	6SA7, 6K7, 6SQ7, 6SF5, 6PF6G, 6U5/6G5, 5Y3G	455	11-108
Radiola 82, 82 (with Remote Control)	Vol. Tone		8	Y5MP				2-3-3	26	See Note	B1				9	24A, 327, 345, 80	175	1-45, 2-92
RAE84	Vol. Tone Supp. Vol.	6355 6276 67068	101 100 21	K12 TRP601 N				10-10	4	See Note	B2				12	58, 456, 446, 55, 82	175	3-47, 52
84BT	Vol.	14282	17	A5MP MR55	M27			14287 13046	13 46	2N516 RS203		14309	722A	C3	4	1C6, 1A4, 1F6, 1F4	460	9-53, 56
84BT6	Vol.	14307	18	MR44	M26			14310 .01-.01 14403	46/15 12	3S579 Buffer 2N516	B14				4	6A7, 6D6, 75, 42	460	9-54, 56
85BK, 85BT	Vol.	14400	17	MR55				14287 13046	13 46	2N516 RS203					4	1C6, 1A4, 1F6, 1F4	460	9-53, 56
85BT6	Vol.	30658	18	MR44	M26			14310 .01-.01 14403	46/15 12	3S579 Buffer 2N516	B14				5	1C6, 1A4, 1F6, 30, 19	460	8-105, 108
85E	Vol.	14645	18	MR44	M26			11203 30657 .01-.01	1 1/13/15	SR644 3S579 Buffer	B14	30666	728A	C3	5	6A8G, 6K7G, 6Q7G, 6K6G, 5Y3G	460	9-57, 60
85T	Vol.	14645	18	MR44	M26			14814 14813	25 25/13	SR644 2S569					5	6A7, 6D6, 75, 42, 80	460	9-61, 63
85T1	Vol.	14645	18	MR44	M26			14669	1/19	3S579					5	6A7, 6D6, 75, 41, 80	460	8-109, 111
85T5	Vol.	14335	17	TM249-SS1				11203 5212 14377	25 25 13	SR644 WE1830 RS216					5	6A7, 6D6, 75, 42, 80	460	8-112, 114
BP85 (Ch. RC455)	Vol.	34465	18	MR53	M27			11240 5212 14377 34472	25 25 13 †	SR644 WE1830 RS216 FPPT301					5	6D6, 6A7, 75, 42, 80	460	8-115, 117
Radiola 86	Vol. Tone Phono. Vol.		8 101 63	Y5MP K12 SRP152				2-3-3	26	See Note	B1				9	1A7GT, 1N5GT, 1H5GT, 1F5GT, 1F7Z6GT/35Z5GT, 24A, 327, 345, 80	455 175	11-90 1-51, 52
86BK, 86BT	Vol.	14335	17	TM249-SS1				14403	12	2N516					6	1A4, 1C6, 1F6, 30, 19	460	8-118, 121
86E	Vol.	14335	20	TM249-SS1				11240 5212 30105	25 25 13	SR644 WE1830 RS216					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	460	8-123, 128
86K, 86K7	Vol.	14335	20	TM249-SS1				11240 5212 14377	25 25 13	SR644 WE1830 RS216					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	460	8-123, 128
86T, 86T1	Vol.	14335	20	TM249-SS1				11240 5212 14377	25 25 13	SR644 WE1830 RS216					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	460	8-123, 128
86T3	Vol. Tone	30575 30574	45 22	TM220-SS1 MR53	M26T			30577 5212	1/19 1	RM262 WE1830					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	460	9-64, 66
86T4, 86T44	Vol.	14335	17	TM249-SS1				11203 11203 5212	13 25 25	SR644 SR644 WE1830					5	6A7, 6D6, 75, 42, 80	460	9-67, 70
86T6	Vol. Tone	30575 30574	45 22	TM220-SS1 MR53	M26T			11203 5212 30577	1 1 13/19	SR644 WE1830 RM262					6	6A8G, 6K7, 6H6, 6F5, 6F6, 5W4	455	9-71, 74
86X	Vol.	14645	18	MR44	M26			14643 14644	6 6/13	RS207 UR194					5	6A7, 6D6, 75, 43, 25Z5, 135K1	460	8-129, 131
86X4	Vol.	14645	18	MR44	M26			14767 30297	6/13 1	UR194 BB27	B12				5	6A8, 6D6, 6Q7G, 25L6, 25Z5	460	9-75, 78
87EY	Vol.	14335	20	TM249-SS1				14621 14622	1/14 1/13	2N506 2N506	B8				6	6A8, 6K7, 6H6, 6J7, 25L6, 25Z5	460	9-79, 82
87K, 87T	Vol.	14335	20	TM249-SS1				14624 11240 5212 14377	19 25 25 13	BB12 SR644 WE1830 RS216					7	6A8, 6K7, 6H6, 6F5, 6F6, 6G5, 5W4	460	8-122, 128
87K1, 87K2, 87T2	Vol. & Tone	K85479-1	20/22	SM10501				11203 5212 30577	1 1 19	SR644 WE1830 RM262					7	6A8, 6K7, 6H6, 6F5, 6F6, 5W4, 6U5	460	9-83, 86
87T1	Vol. Tone	30575 30574	45 22	TM220-SS1 MR53	M26T			30577 5212	1/19 1	RM262 WE1830					7	6A8, 6K7, 6H6, 6U5, 6F5, 6F6, 5W4	460	9-64, 66
87X, 87Y	Vol.	14335	20	TM249-SS1				11203 14621 14622	13 1 1/13	SR644 2N506 2N506	B8				6	6A8, 6K7, 6H6, 6J7, 25L6, 25Z5	460	9-79, 82
88K	Vol.	14335	17	TM249-SS1				14624 11203 5212	19 25 25	BB12 SR644 WE1830					8	6K7, 6L7, 6J7, 6Q7, 6F6, 6G5, 5W4	460	8-132, 135
R89	Vol.	84304-13	50	MR55	M26			86011-1	1	BB24					3	6F5, 25L6G, 25Z6G	460	9-87, 88

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R.C.A.—Continued R90, R90P	Vol. B. Tone T. Tone Supp. Vol.	67656-1 6448 6449 6450 31582	100 1 41 7 50	TRP622 Y200MP UC505 E MR53	6			6443 6430	4 4/13	SR644 CM170				10	58, 56, 2A5, 80	175	3-53, 4-49	
R91								31584	24	BB27				3	6F5, 25L6, 25Z6, BK61B			
91B	Vol.	6829	7	Y200MP		EX350		6832 6844	12 15	BB31 TN113				3	78, 77, 38		5-15,16	
R92 Recorder	Vol.	4401	16	N	6			7590 4498 3536	1 1 15	SR644 CS133 TN113				4	56, 53, 80		5-17,20	
R93 Phonograph R93B, R93C R93F (Record Player)	Vol. Vol.	4502	63 50	Y MR44		M26T												5-23,24
94BK, 94BT	Vol. Vol.	33359 72357-33	50 18	MR44 MR44	M26T M27			13610	12	BB41				4	1C7G, 1D5G, 1F7G, 1G5G	455	9-89,90	
94BK1, 94BT1	Vol.	72357-33	18	MR44	M27			86011-4	12	BB21				4	1A7G, 1N5G, 1H5G, 1C5G	455	10-68	
94BK2, 94BT2	Vol.	32262	18	MR53	M27			86011-1	12	BB24				4	1A7G, 1N5G, 1H5G, 1A5G	455	10-69	
94BP1 (Portable)	Vol.	33304	18	MR48	M27			86041-13	12	BB31				4	1A7G, 1N5G, 1H5G, 1C5G	455	12-36	
94BP4	Vol.	32594	18	MR53	M27			86011-4	12	BB31				4	1A7G, 1N5G, 1H5G, 1C5G	455	10-73	
96BP61, 62 (Ch. RC407)	Vol.	33304	18	MR48	M27			86041-13	12	BB31				4	1A7G, 1N5G, 1H5G, 1C5G	455	10-72	
94BP64, 94BP66, 94BP80, 94BP81 (Ch. RC407)	Vol.	33304	18	MR48	M27			86041-13	12	BB31				4	1A7G, 1N5G, 1H5G, 1C5G	455	10-72	
94BT6	Vol.	72357-34	18	MR44	M26T			80378-3 .01	24	2S562 Buffer	14309	722A	C3	4	6A8G, 6K7G, 6Q7G, 6K6G	455	9-90,91	
94BT61	Vol.	72357-34	18	MR44	M26T			86027-1 .01	24	FPD225 Buffer	14309	722A	C3	4	6D8G, 6S7G, 6T7G, 6G6G	455	10-75,78	
94X	Vol.	72357-32	6	MR33	M26T	EX200		80385-3	1	2N506				4	6K7, 6J7, 25L6G, 25Z6G		9-92	
94X1, 94X2	Vol.	72357-32	6	MR33	M26T	EX200		80385-3	1	2N506				4	6K7, 6J7, 25L6G, 25Z6G		9-100	
R94B	Vol.	72357-40	50	TM220-SS1			A59							5	6A8, 6K7, 6Q7G, 6K6G, 5Y3G	455	9-104	
95T	Vol.	72357-27	18	MR44	M26T			80385-4	1	2N518				5	6A8G, 6K7, 6Q7G, 6K6G, 5Y3G	455	9-93,95	
95T5	Vol.	72357-45	18	MR44	M26T			86005-2	1	2N518				5	6A8, 6K7, 6Q7G, 6K6G, 5Y3G	455	11-111	
95T5LW	Vol.	72357-45	18	MR44	M26T			86005-2	1	2N518				4	6K7, 6J7, 25L6, 25Z6, BK55B		9-112	
95X1	Vol.	31194	6	MR33	M26	EX200		80385-3	1	2N506				4	6K7, 6J7, 25L6, 25Z6, BK55B		9-108	
95X, 95XL	Vol.	31194	6	MR33	M26	EX200		80385-3	1	2N506				4	6K7, 6J7, 25L6, 25Z6, BK55B		9-110	
R95 Electrola 95XLW (RC345F)	Vol. Vol.	11861 31194	63 6	Y MR33		EX200		11867 31584 86011-1	9/15 1 1	UR190/CM164 BB27 BB24	B171			4	6K7, 6J7, 25L6G, 25Z6G		11-110	
96BK6, 96BT6	Vol.	84304-19	18	DTM282-SS1	M26			86027-1 86027-2 86028-1	24 24 13	FPD225 FPD234 FPS127				6	6D8G, 6S7G, 6T7G, 6W7G, 6L5G	455	10-77-79	
96E	Vol. & Tone	K85479-3	18/21	SMD504			A67	86005-3	1	2N518				6	6A8G, 6K7, 6H6, 6F5, 6K6G, 5Y3G	455	9-94,95	
96E2 (RC351L)	Vol. & Tone	K85479-5	20/22	SMD501				86023-2	1/14/15	FPQ424				6	6K8, 6K7, 6H6, 6F5, 6F6G, 5Y3G	455	10-80-82	
96K	Vol. & Tone	K85479-2	20/22	SMD503				86018-2	1/14/15	FPQ424	B48			6	6K8, 6K7, 6H6, 6F5, 6F6, 5W4	455	9-97,99	
96K2, 96T3	Vol. & Tone	K85479-2	20/22	SMD503				86018-2	1/14/15	FPQ424	B48			6	6K8, 6K7, 6H6, 6F5, 6F6, 5W4	455	9-102, 103	
96K5, 96K6 (RC351L)	Vol. & Tone	K85479-5	20/22	SMD501				32485	1/14/15	FPQ424				6	6K8, 6K7, 6H6, 6F5, 6F6G, 5Y3G	455		
96T	Vol. & Tone	K85479-3	18/22	SMD504			A67	86005-3	1	2N518				6	6A8G, 6K7, 6H6, 6F5, 6K6G, 5Y3G	455	9-94,95	
96T1	Vol. & Tone	K85479-3	18/22	SMD504			A67	86005-3	1	2N518				6	6A8G, 6K7, 6H6, 6F5, 6K6G, 5Y3G	455	9-94,95	
96T2	Vol. & Tone	K85479-2	18/22	SMD503				86018-2	1/15/14	FPQ424	B48			6	6K8, 6K7, 6H6, 6F5, 6F6, 5W4	455	9-97,99	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued 96T4, 96T5 (RC399)	Vol. & Tone	K85479-3	18/95	SMD504			A67	86027-8	1	F1P7311				5	6SA7, 6K7, 6SQ7, 25L6, 25Z6G, BK49B	455	10-83-85	
96T6 (RC399A)	Vol. & Tone	K85479-3	18/21	SMD504			A67	86027-8	1	F1P7311				5	6SA7, 6K7, 6SQ7, 25L6, 25Z6G, BK49B	455	10-83-85	
96T7 (RC351L)	Vol. & Tone	K85479-5	18/22	SMD501				86023-2	1/14/15	FPQ424				6	6K8, 6K7, 6H6, 6F5, 6F6G, 5Y3G	455		
96X1, 96X2, 96X3, 96X4 (RC400)	Vol.	32545	18	MR41	M26			86041-17, 86041-15	1, 13	2N507, BB26				5	6K8, 6SK7, 6SQ7, 25L6, 25Z6G	455	10-85-87	
96X11, 96X12, 96X13, 96X14 (RC400A)	Vol.	32545	18	MR41	M26			86041-17, 86041-15	1, 13	2N507, BB26				5	6K8, 6SK7, 6SQ7, 25L6, 25Z6G	455	10-86,87	
R96, R97	Vol. & Tone	14798, 14797	34	Order from L.	Mfr. 6			11203, 5212	1	SR644, WE1830				3	6C6, 42, 80		8-142, 146	
97E, 97KG, 97T	Vol. & Tone	K85479-2	18/22	SMD503				86018-2	1/14/15	FPQ424	B48			7	6K8, 6K7, 6H6, 6F5, 6F6, 5W4, 6U5	455	9-101, 103	
97K	Vol. & Tone	K85479-2	18/22	SMD503				86018-2, 86023-2	1/14/15, 1/14/15	FPQ424, FPQ424	B48			7	6K8, 6K7, 6H6, 6F5, 6F6, 5Y3G, 6U5	455	10-88-94	
97K2, 97T2 (RC351K)	Vol. & Tone	K85479-5	20/22	SMD501				86023-2	1/14/15	FPQ424				7	6K8, 6K7, 6H6, 6F5, 6F6G, 5Y3G, 6U5	455	10-80,82	
97X	Vol. & Tone	K85479-3	75/1	SMD504			A67	86019-1	1	2N506				6	6A8G, 6K7, 6H6, 6F5, 25L6G, 25Z6G	455	9-105-107	
97Y (RC352A)	Vol. & Tone	K85479-2	20/22	SMD503				86018-1, 86011-1	46, 15	TN129, BB24				6	6K8, 6K7, 6H6, 6J7, 25L6, 25Z6	455	9-109, 111	
98EY (RC352)	Vol. & Tone	K85479-2	20/22	SMD503				86018-1, 86011-1	46, 15	TN129, BB24				7	6K8, 6K7, 6H6, 6J7, 25L6, 25Z6, 6U5, BK63B	455	9-109	
98K	Vol. & Tone	72357-48, 72357-43	15, 22	TM249-SS1, MR53	M26		A59	11203, 5212	25, 25	SR644, WE1830				8	6A8, 6J7, 6K7, 6H6, 6F5, 6F6, 6G5, 6U5, 5W4	455	9-113, 116	
98K2, 98T	Vol. & Tone	K85479-5	18/22	SMD501				86018-4, 86011-3	1/19, 14	3S579, BB60				8	6A8G, 6K7, 6Q7G, 6J5, 6K6G, 6U5, 5Y3G	455	10-97-99	
98T2 (Ch. RC352D)	Vol. & Tone	K85479-5	20/22	SMD501				86018-1, 86011-1	1/13, 15	TN129, BB44				7	6K8, 6K7, 6H6, 6J7, 25L6, 25Z6, 6U5	455	11-113-115	
98X (RC352)	Vol. & Tone	K85479-2	20/22	SMD503				86018-1, 86011-1	46, 15	TN129, BB24				7	6K8, 6K7, 6H6, 6J7, 25L6, 25Z6, 6U5, BK63B	455	9-109, 111	
98YG (RC352)	Vol. & Tone	K85479-2	20/22	SMD503				86018-1, 86011-1	46, 15	TN129, BB24				7	6K8, 6K7, 6J7, 6H6, 25L6, 25Z6, 6U5, BK63B	455	9-109, 111	
R98 (RS77)	Vol.	84304-35	50	DTM291-SS1				14531, 11203, 11496, 14273	28, 28, 28, 15	WE3050, SR644, RS216, BB15/BB12				5	6J5, 2A3, 5U4G		10-95,96	
R99 High Fidelity Electrola	Vol. & Tone Exp. Bias	14026, 12553, 72558-10, 12468	16, 41, 15, 7	Order from UC505, P, Order from	Mfr. 6			12467, 11240, 11496, 5212, 12470, 12472, 14531, 5212	28, 28, 28, 13, 15, 15, 25, 25	WE3050, SR644, RS216, WE1830, BB15, BB12, WE3050, SR644				7	6L7, 6C5, 6H6, 2A3, 5Z3		7-161, 165	
99K, 99T	Vol. & Tone	31450, 72357-43	20, 22	TM249-SS1, MR53	M26		A59	14531, 5212	25, 25	WE3050, WE1830				9	6A8, 6K7, 6J7, 6H6, 6F5, 6F6, 6G5 or 6U5, 5T4	455	9-117, 120	
100, 101	Vol.	6667	7	E	6	2		6661	1/15	SR625				4	6A7, 6F7, 3B, 1V	460	4-53,54	
R100, V100 (RC517)	Vol.	33359, 36287	50, 18	MR42, MR48	M26			35673	77	2N515				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-37	
M101	Vol.	72291-28	17	MR44	M26			4961, 4958, .02-.02	1, 24/15	RS213, 3S579, Buffer	7857, B14	286S, G286S	C3, C16	5	6D16, 6A7, 6B7, 4L	175	6-1,4	
V101 (RC540)	Vol.	84779-31	18	TM220-SS1				37845, 37846	9/13, 9	Order from BB26	Mfr.			6	6SA7, 6SK7, 6SQ7, 25L6GT, 35Z5GT	455	12-38	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A. (Continued) 102 Victor	Vol.	67817-1	7	UC509	6			6823	1	2N500				4	37, 77, 78, 38		5-25,26	
U102E	Vol.	72357-11	18	TM220-SS1	M26			6824	15	TN113				5	6A7, 6D6, 75, 42, 80	460	9-61,63	
V102 (RC524)	Phono.	14815	63	Order from	Mfr.			14814	25	SR644				7	6SA7, 6SK7, 6SQ7,	455	12-39,40	
	Vol.	36486	124	TM249-SS1	M26			14813	25/13	2S569				4	6SF5, 6K6GT, 5Y3G	460	6-5,7	
								36675	1/15	FPT333				5	6A7, 6D6, 75, 42, 80	460	8-117, 151	
103	Vol.	6667	7	E	6	2		32405	13	BB44				4	6A7, 6F7, 41, 1V	460	6-5,7	
U101, U103	Vol.	72357-11	18	TM220-SS1	M26			6661	1/15	SR625				5	6A7, 6D6, 75, 42, 80	460	8-117, 151	
	Phono.	14815		Order from	Mfr.			14814	25	SR644								
								5212	25	WE1830								
M104	Vol.	72291-28	17	M	6			14377	13	RS216		7857	286S	C3	6D6, 6A7, 6B7, 41	175	6-8,12	
								4961	1	RS213								
								4958	24/15	3S579								
								.02-.02		Buffer	B14							
								86011-1	1	BB24								
U104	Vol.	31966	6	MR33	M26													
	Phono.	32209	50	MR33														
K105 (Ch. RC476)	Vol.	84701-13	45	TM249-SS1	M26			34533	1/19	FPT339				10	6K7, 6J7, 25L6G,	460	10-102, 103	
								86011-1	13	BB44								
M105	Vol.	K67967	17	SRP251	6			4-4	1	2N518	B169	7689	271	C15	78, 6A7, 6B7, 41	455	11-117, 119	
								6492	13	Order from	Mfr.							
								5536	15	TN113								
U105, U107	Vol.	14597	15	Order from	Mfr.			14531	25	WE3050				10	6K7, 6L7, 6H6, 6N7,	460	9-121, 128	
V105	P.U. Volt	30099	4	MR48				5212	25	WE1830				5	6J7, 6F6, 6G5, 5T4	460	9-121, 128	
	Vol.	37977	18	MR48				36301	77	2N515								
U106	Vol. & Tone	K85479-1	15/22	SMD501				14531	25	WE3050				9	6A8, 6K7, 6H6, 6F5,	460	9-129, 133	
								5212	25	WE1830				6	6F6, 6U5, 5T4	460	10-102, 103	
M107	Vol.	6978	19	TRP603	6	See Note A68		7776	1	RM262		7780	253	C3	6D6, 6A7, 75, 41, 81	175	5-33,38	
								6963	15	TN111								
								.02-.02		Buffer	B14							
U107	Vol.	14597	20	Order from	Mfr.			14531	25	WE3050				10	6K7, 6L7, 6H6, 6U7,	460	9-121, 129	
	Phono.	72357-15	4	DTM289-SS1				5212	25	WE1830				5	6J7, 6F6, 6G5, 5T4	175	6-8,12	
M108	P.U. Volt	30099	4	MR48														
	Vol.	72291-28	56	MR44	M26			4961	1	RS213		7857	286S	C3	6D6, 6A7, 6B7, 41	175	6-8,12	
								4958	24/15	3S579								
								.02-.02		Buffer	B14							
U108	Vol.	14835	20	DTM295-SS1	M26			14531	28	WE3050				16	6K7, 6L7, 6J7, 6H6,	460	9-131, 148	
	Fid.	14836	41	UC505	7			11203	28	SR644								
	Phono.	14833	4	DTM289		A96		11496	28	RS216								
	P.U. Adj.	14788	4	MR44				5212	13	WE1830								
	Exp. Bias	12468	7	Order from	Mfr.			14273	15	BB15/BB12								
								14773	14	RS216								
								12682	15	BB12								
M109	Vol.	72291-28	56	MR44	M26			5069	1	2N518		5067	294	C3	6D6, 6A7, 6B7, 76,	175	6-13,17	
	Tone	5072	44	L				.02-.02		Buffer	B14							
								5054	15	BB12								
U109	Vol.	14835	20	DTM295-SS1	M26			14531	28	WE3050				16	6K7, 6L7, 6J7, 6H6,	460	9-134, 148	
	Fid.	14836	41	UC505	7			11203	28	SR644								
	Phono.	14833	4	DTM289		A96		11496	28	RS216								
	P.U. Adj.	14788	4	MR44				5212	13	WE1830								
	Exp. bias	12468	7	Order from	Mfr.			14273	15	BB15/BB12								
								14773	14	RS216								
								12682	15	BB12								
110, 111	Vol.		8	D	6	1		7590	1	SR644				5	58, 2A7, 57, 2A5, 80	175	4-55,56	
	Tone		34	L				7589	1/11	SR627								
110K (Ch. RC513)	Vol.	35962	124	TM249-SS1	M26			36045	1/13/15	F1PQ429				10	6SK7, 6SA7, 6SQ7,	455	12-43,44	
CV110 (A.C. Power Supply)								32013	1	2S569								
ACR111	Vol.	13039	15	MR55				13036	28	2S568				16	5Y3G		12-14	
	Fid.	14131	41	M	6			13046	28	RS203								
	Noise	13042	7	MR14				13041	14	CS133								
	Sen.	13038	7	MR14				13040	15/19	BB13								
111K (Ch. RC513A)	Vol.	35962	124	TM249-SS1	M26			36045	1/13/15	F1PQ429				12	6SK7, 6SA7, 6H6,	455	12-45,46	
CV111								33810	46	F1PT357								
								33968	13	2N514								
U111	Vol.	72357-27	18	MR44	M26T			86005-1	1	2S568				5	6A8, 6K7, 6Q7G,	455	7-169, 170	
112, 112A (DC-220V)	Vol.	69149-2	8	A5MP				6728	25/15	UR189	B172			5	78, 6A7, 77, 43, 12Z3,	175	4-57,59	
CV112								80385-3	1	2N506								
								36553	3	SR646								
1112 (RC341CM)	Vol.	72357-27	18	MR44	M26T			86005-1	1	2S568				5	6A8, 6K7, 6Q7G,	455	9-169, 170	
114	Vol.	6508	8	A5MP	6	2		6783	9/15	UR190/CM172	B171			5	78, 6A7, 77, 43, 25Z5	175	4-60,62	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
115.....	Vol. Tone	6465..... 6623.....	7 34	A3MP..... L.....	6	1		7590..... 7589.....	1 1/14	SR644..... SR625.....					5	5B, 2A7, 57, 2A5, 80.	175	4-55,56
U115.....	Vol. & Tone	32355.....	75/4	SMD504.....				86005-3..... 86031-14.....	1 1	2N518..... FPD231.....					6	6A8G, 6K7, 6H6, 6F5, 6K6G, 5Y3G.....	455 106	10-104- 5-39,42
M116.....	Vol. Tone	K67846..... 6747.....	3 34	M..... O.....				6738..... 6782..... 6781.....	1 1 13	RS213..... CS133..... Order from Mfr.....		7694.....	271	C15	5	7B, 6A7, 6B7, 41, 1V.....	175	5-39,42
117, 118, 119.....	Vol. Vol.	4790..... 4429.....	19 19	TRP603..... TRP603.....	6 6			3536..... 7790..... 4428..... 7589..... 3796.....	15 1 1 13 15	TN113..... SR644..... RS213..... SR627..... BB11.....					5	6A7, 6D6, 6B7, 41, 80.....	460	6-18, 5-43 & 6-25
U119.....	Vol. & Tone	K85479-2.....	20/22	SMD503.....				86018-2.....	1/14/15	FPQ424.....	B48				6	6K8, 6K7, 6H6, 6F5, 6F6, 5W4.....	455 174	9-171, 4-63,65
120.....	Vol. Tone	K69109..... 6619.....	19 34	TRP607..... L.....	6			7590..... 6487.....	1 13/14	SR644..... SR624.....					6	2A7, 2B7, 2B7, 2A5, 80.....	175	4-63,65
121, 122.....	Vol. Tone	K69461-2..... 6705.....	19 34	TRP603..... L.....	6			6571..... 6703..... 3796.....	1 1/13 15	SR644..... CM175..... BB11.....					6	5B, 2A7, 2B7, 2A5, 80.....	370	4-66,69
U121 (RC348J).....	Vol. & Tone	32355.....	18/21	SMD504.....				86031-14.....	1	FPD231.....					6	6A8G, 6K7, 6H6, 6F5, 6K6G, 5Y3G.....	455	10-107- 113
U122E.....	Vol. & Tone	K85479-2.....	20/22	SMD503.....				86018-2.....	1/14/15	FPQ424.....	B48				6	6K8, 6K7, 6H6, 6F5, 6F6, 5W4.....	455 175	9-171, 4-63,65
M123.....	Vol. Tone Supp.	69854-14..... 6971..... 6972.....	18 41 7	M..... K12..... A2MP.....	6		A68	7758..... 6963.....	1 15	See Note..... TN111.....	B173	7757.....	224		6	6D6, 6A7, 75, 41, 79.....	455 175	9-171, 5-47,52
U123 (RC348H 1 Band) (RC421 2 Band).....	Vol. & Tone	32355.....	75/4	SMD504.....				86031-14.....	1	FPD231.....					6	6A8G, 6H6, 6K7, 6F5, 6K6G, 5Y3G or 6SA7, 6K7, 6H6, 6SF5, 6F6G, 5Y3G.....	455 175	10-107- 111 5-53,55
124.....	Vol. Tone	K69109..... 6619.....	19 34	TRP607..... L.....	6			7590..... 6487.....	1 1/13	SR644..... SR624.....					6	5B, 2A7, 2B7, 2A5, 80.....	455 175	10-107- 111 5-53,55
U124.....	Vol. & Tone	K85479-2.....	25/22	SMD503.....				86018-2.....	1/14/15	FPQ424.....	B8				6	6K8, 6K7, 6H6, 6F5, 6F6, 5W4.....	455 460	9-171, 5-53,55
125.....	Vol.	72294-7.....	19	TRP603.....	6			7790..... 5101.....	1 1/14	SR644..... 3S584.....					6	6A7, 6D6, 6B7, 41, 80.....	460	6-29,32
U125.....	Vol. & Tone	K85479-2.....	17/22	SMD503.....				86018-4..... 86011-3.....	1/19 14	3S579..... BB60.....					8	6A8G, 6K7, 6Q7G, 6J5, 6K6G, 6U5, 5Y3G.....	455 460	10-114- 118 5-57,60
126B.....	Vol.	6995.....	9	Y50MP.....				4349.....	12	See Note.....	B174				6	1A6, 34, 32, 30.....	455	9-201, 210
U126.....	Vol. Tone	72357-44..... 72357-43.....	18 22	TM249-SS1..... O.....	6		A59	86015-4..... 80385-7.....	25 25	2S568..... RS216.....	B8				10	6A8, 6J7, 6K7, 6H6, 6F5, 6F6G, 6U5, 5T4.....	455 370	9-201, 5-61,64
127.....	Vol. Tone	69461-2..... 6705.....	19 44	TRP603..... L.....	6			6986..... 6985..... 3796.....	12 13 15	RM257..... 2N500..... BB11.....	B11				6	6D6, 6A7, 75, 41.....	370	5-61,64
U127E (RC348L).....	Vol. & Tone	32355.....	18/21	SMD504.....				86031-14.....	1	FPD231.....					6	6A8G, 6K7, 6H6, 6F5, 6K6G, 5Y3G.....	455	9-201, 210
128, 128E.....	Vol. Tone	72291-4..... 4517.....	19 34	TRP603..... L.....				7790..... 4428..... 7589..... 4325.....	1 1 13 15	SR644..... RS213..... SR627..... BB12.....					6	6D6, 6A7, 6B7, 41, 80.....	460	5-65,70 6-35,39
U128.....	Vol. Tone	72357-44..... 72357-43.....	18 22	TM249-SS1..... O.....	6		A59	86015-4..... 80385-7.....	25 25	2S568..... RS216.....	B8				10	6A8, 6J7, 6K7, 6H6, 6F5, 6F6, 6U5, 5T4.....	455	9-201, 210
U129 (RC335K).....	Vol. Tone	72357-44..... 72357-43.....	18 22	TM249-SS1..... O.....	6		A59	86015-4..... 80385-7.....	25 25	2S568..... RS216.....	B8				10	6A8, 6J7, 6K7, 6H6, 6F5, 6F6G, 5U4G, 6U5.....	455	10-47-51
K130 (Ch. RC501A).....	Vol.	84701-22.....	20	DTM291-SS1.....	M26			86402-5..... 35017.....	25/19 25/14	FPT340..... FPD228.....	B8				13	6SK7, 6SA7, 6H6, 6SF5, 6F6G, 5U4G, 6I5/6G5.....	455	11-79-82
U130.....	Vol. Tone	84394-5..... 84304-3.....	17 1	TM249-SS1..... Order from Mfr.....	M26			86015-4..... 80385-8.....	25 25/14	2S568..... 2S569.....	B8				12	6K7, 6A8, 6J7, 6R7, 6U5, 6F6, 6J5, 5T4.....	455	9-4,10
U132.....	Vol.	84304-6.....	20	DTM291-SS1.....				68597-16..... 68597-15..... 14377.....	25 25 14	WE3050..... RS216..... RS216.....					14	6K7, 6I7, 6J7, 6R7, 6H6, 6U5, 6J5, 6F6, 5T4.....	455	9-18,29
U134.....	Vol.	84304-6.....	20	DTM291-SS1.....				11203..... 68597-15..... 14377..... 4498.....	25 25 14 12	SR644..... RS216..... RS216..... CS133.....					16	6K7, 6I7, 6U5, 6J7, 6H6, 6J5, 6L6, 5T4.....	455	9-21,29 5-71,74
135B.....	Vol. Tone	4535..... 69648-4.....	45 41	M..... N.....											7	1C6, 334, 330, 32, 19.....	460	5-71,74

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
ACR136	Vol. Tone Sen.	4809 8B10 4726	18 34 7	TRP603 L SRP134				7790 1498 7589 4525	1 1 14 15	SR644 CS133 SR627 BB12					7	6D6, 6A7, 6B7, 41, 80	460	6-40,46
140, 141, 141E	Vol. Tone	K69461-2 6627	19 21	TRP603 O	6		6571 6609 6626 35858	1 1 14/15 1/15	1 1 14/15 1/15	SR644 WE1830 CS133/TN111 FPT333				8	58, 2A7, 2B7, 56, 53, 80	445	4-70,76	
V170 (RC523)	Vol.	36486	124	TM249-SS1	M26										6	6SA7, 6SK7, 6H6, 6SF5, 6K6GT, 5Y3G	155	12-47,48
V200 (RC519), V201 (RC522)	Vol.	36534	20	TM249-SS1	M26		36569	1/19		FPT338					7	6SA7, 6SK7, 6SQ7, 6SF5, 6K6GT, 5Y3G	455	12-49,50
V-HR202 (RC548)	Vol. Treble Bass Mike	37604 37024 37023 81779-22	124 22 1 127	TM254-SS1 MR53 MR55 MR48	M26 M26		36569 32405	1/19 13		FPT338 BB44				9	6SA7, 6SK7, 6Q7, 6SJ7, 6K6GT, 6U5/6G5, 5Y3G	455	12-52-59	
V205 (RC521)	Vol. Treble	36337 36339	20 22	TM249-SS1 MR53	M26		34533 32405	1/19 13		FPT339 BB44				9	6SK7, 6SA7, 6H6, 6SF5, 6F6G, 5U4	455	12-61, 62,83, 85	
VHR207 (RC547)	Vol. Mike Bass Treble	37019 81779-22 37023 37024 37024	124 127 1 1 22	TM227-SS1 MR48 MR55 MR53	M26 M26		34889 31584 36589 32405 36045	1 19 13 13 1/13/15		FPD234 BB17 FPT443 BB44 FPQ429	13			11	6SK7, 6SA7, 6Q7, 6SJ7, 6F6G, 12K7GT, 6H6, 6U5/6G5, 5U4G	455	12-54-57	
211K (Ch. RC571)	Vol.	38404	20	TM254-SS1	M27		36045	1/13/15		FPQ429					11	6SK7, 6SA7, 6SQ7, 6K6GT, 5U4G	455	
140, 141, 141E (Revised)	Vol. Tone	K69461-1 6892	19 21	TRP603 UC505	6		6889/6609 6626	1 13/15		WE1830 CS133/TN111				8	58, 2A7, 2B7, 56, 53, 80	445	5-75,80	
142B	Vol.	6714	9	Y50MP			6518	12		BB31				8	334, 330, 32	175	4-77,80	
143	Vol. Tone Sen.	72291-4 72291-5 4618	19 41 7	TRP603 O UC500	6		7790 4626 4619	1 13/15 15		SR644 3S579 BB12/TP441				8	6D6, 6A7, 75, 76, 342, 5Z3	460	5-80,89 6-45,47	
ACR175	Vol. Sen.	12087 12090	15 7	P G			11203 5212 11248	1 1 14		SR644 WE1830 RS213				11	6J7, 6K7, 6L7, 6H6, 6F5, 6F6, 5Z4, 6E5	460	9-162, 168	
210	Vol. Tone	67889-8 6645	8 34	D L	6	1	7590 7589	1 1/11		SR644 SR627				5	58, 2A7, 57, 2A5, 80	175	4-81,83	
211, 214	Vol.	73294-7	19	TRP603	6		7790 4428 7589 3796 6571	1 1 13 15 13/15		SR644 SR644 RS213 SR627 BB11				6	58, 2A7, 2B7, 2A5, 80	175	4-84,86	
220	Vol. Tone	6682 6681	19 34	TRP603 L	6		6571 6691	1 13/15		SR644 SR626				6	58, 2A7, 2B7, 2A5, 80	175	4-84,86	
221	Vol. Tone	K69461-2 6705	19 34	TRP603 L	6		6571 6703	1 1/13		SR644 CM175				6	58, 2A7, 2B7, 2A5, 80	370	5-91,94	
222	Vol. Tone	6682 6681	19 34	TRP603 L	6		6571 6691	1 13/15		SR644 SR626				6	58, 2A7, 2B7, 2A5, 80	175	4-84,86	
223	Vol. Tone	K69109 6860	19 34	TRP607 L	6		6859	13/15		CM175/BB42	B176	7735	Order from Mfr.	6	6D6, 6A7, 6B7, 38, 84	175	5-95, 100	
224, 224E	Vol. Tone	72291-4 4517	19 34	TRP603 L			7790 4428 7589	1 1 13		SR644 RS213 SR627				6	6D6, 6A7, 6B7, 41, 80	460	6-33,39 5-65,70	
225	Vol.	73294-7	19	TRP603	6		4525 7790	15 1		BB12 SR644				6	6A7, 6D6, 6B7, 41, 80	460	6-29,32	
226	Vol. Tone		19 44	TRP603 L			5101 7790 4428	1/14 1 13/14		3S584 SR644 RS213				6	6D6, 6A7, 6B7, 42, 80	460	6-33,36	
235B	Vol. Tone	4535 69648-4	45 41	M N			4198	12		CS133				7	1C6, 334, 330, 32, 19	460	5-71,74	
236B	Vol.	69648-4	41	M			4498	12		CS133				7	1C6, 334, 330, 32, 19	460	6-48,50	
240	Vol. Tone	K69461-2 6705	19 21	TRP603 O	6		6571 6609 6626	1 1 14/15		SR644 WE1830 CS133/TN111				8	58, 2A7, 2B7, 56, 53, 80	445	4-70,76	
240 (Revised)	Vol. Tone	K69461-1 6892	19 21	TRP603 UC505	6		6889/6609 6626	1 14/15		WE1830 CS133/TN111				8	58, 2A7, 2B7, 56, 53, 80	445	5-75,80	
241B	Vol.	6714	9	Y50MP			6518	12		BB31				8	334, 330, 32	175	4-77,80	
242, 243	Vol. Tone Sen.	72291-4 72291-5 4618	19 41 7	TRP603 O UC500	6		7790 4626 4619	1 13/15 15/13		SR644 3S579 BB12/TP441				8	6D6, 6A7, 75, 76, 342, 5Z3	460	5-81,89 6-45,47	
260, 261	Vol. B. Tone T. Tone Supp.	67656-1 6148 6149 6450	100 1 1 7	TRP622 Y200MP UC505 A5MP	6		6143 6430	4 4/13		SR644 CM170				10	58, 56, 2A5, 80	175	4-87,94	
262 (Two Types)	Vol. B. Tone T. Tone Sen.	K69461-6 7795 4648 7804	45 1 34 7	TM221-SS16 Y200MP O UC500			7790 7788 7833	1 1 15/14/19		SR644 RS216				10	6D6, 6A7, 6B7, 342, 5Z3	460	5-101, 110 6-51,52	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued 262, 263 (1935 Production)	Vol.	4832	19	TM221-SS16				7790	1	SR644				10	6D6, 6A7, 85, 76, 342, 80	460	6-53, 59	
	B. Tone	72291-9	34	UC509				7788	1	RS216								
	T. Tone	72291-10	7	O				4831	11/19	CM172								
	Sen.	7804	7	UC500														
280	Vol.	67656-1	100	TRP622				6571	2	SR644				12	58, 56, 55, 59, 5Z3	175	4-95, 98	
	B. Tone	6448	41	Y200MP				6574	13/14	CM172								
	T. Tone	6449	7	UC505														
	Supp.	6150	7	A5MP														
281	Vol.	67656-4	100	TRP622				7790	1	SR644				12	6D6, 6A7, 85, 76, 342, 5Z3	460	5-111, 118	
	B. Tone	7795	41	Y200MP				7788	1	RS216								
	T. Tone	65469-2	7	UM165-SS16				7789	13/14									
	Supp.	7804	6	UC500					19	2S567/BB13	B179							
	Vol.	7804	6	K	6	EX150		6587	9/15	See Note	B180			4	78, 77, 38, 25Z5	4-99	102	
	Phono.		64	E12														
V300 (RC518), V301, V302 (RC518A, R518A)	Vol.	36417	20	DTM291-SS1				36599	1/19	FPO426	B8			11	6SK7, 6SA7, 6H6, 6J5, 6F6G, 6U5/6G5, 5U4G	455	12-83, 64	
	Treble	36419	121	Order from	Mfr.			86031-4	13/15	FPT332				4	6A7, 6F7, 41, 1V	460	5-119, 122	
301	Vol.	6667	7	E	6			6661	1/15	SR625								
	Phono.	6827	16	O				6832	13	BB31								
	Vol.	37859	20	DTM291-SS1	M27			34065	1	FPS145				12	6SK7, 6SA7, 6H6, 6SJ7, 6F6G, 12K7GT, 6U5/6G5, 5U4G	455	12-85, 86	
VHR307 (RC555)	Treble	36419	121	Order from	Mfr.			37877	13	BB61								
	Mike	84779-22	15	MR48				31584	19	BB27								
								34150	1/13/15	FPT338								
								34150	14/13/15	FPT338								
310	Vol.	67889-8	7	D	6	1		7590	1	SR644				5	58, 2A7, 57, 2A5, 80	175	4-103, 106	
	Tone	6645	34	L				7589	1/14	SR627								
	Phono.	6475	63	E12	8		A66											
Duo 320, Duo 321	Vol.	K69461-2	19	TRP603				6571	1	SR644				6	58, 2A7, 2B7, 2A5, 80	370	5-123, 134	
	Tone	6705	34	L	6			6703	1/13	CM175								
	Phono.	73000	1	Order from	Mfr.			3796	15	BB11								
322, Duo 322, 322E, Duo 322E	Vol.	72291-4	19	TRP603				7790	1	SR644				6	6D6, 6A7, 6B7, 41, 80	460	6-60, 71	
	Tone	4517	34	L				4428	1	RS213								
	Phono.	69915-1	1	Order from	Mfr.			7589	13	SR627								
								1525	15	BB12								
327	Vol.	K69461-2	19	TRP603				6986	24	RM257	B11			6	6D6, 6A7, 75, 741	370	5-135, 140	
	Tone	6705	44	L	6			6985	13	2N500								
	Phono.	73979	1	Order from	Mfr.			3796	15	BB11								
330, 331	Vol.	6594	19	TRP607				7590	25	SR644				7	58, 2A7, 55, 56, 80, 53	175	4-107, 118	
	Tone	6595	21	N	6			6555	25/13	CM172								
	Phono.	69651-2	63	TM243-SS1	M26			3536	15	TN113								
340, 340E	Vol.	K69461-1	19	TRP603				6571	1	SR644				8	58, 2A7, 2B7, 56, 53, 80	445	5-149, 156	
	Tone	6627	21	O	6			6609	1	WE1830								
	Phono.	69915-1	1	Order from	Mfr.			6626	13/15	CS133/TN111								
340, 340E "All Wave Duo"	Vol.	K69461-1	19	TRP603				6609/6889	1	WE1830				8	58, 2A7, 2B7, 56, 53, 80	445	5-141, 148	
	Tone	6892	21	UC505				6626	13/15	CS133/TN111								
	Phono.	69915-1	1	Order from	Mfr.													
341, 342	Vol.	72291-4	19	TRP603				7790	1	SR644				8	6D6, 6A7, 75, 76, 342, 5Z3	460	5-157, 164	
	Tone	72291-5	41	O	6			4626	13/15	3S579	B177							
	Sen.	4618	7	UC500				4619	15	BB12/TP441								
	Phono.	69915-1	1	Order from	Mfr.													
Duo 380, Duo 380 HR	Vol.	67656-1	100	TRP622	6			6571	2	SR644				12	58, 56, 55, 59, 5Z3	175	5-171, 188	
	T. Tone	6449	41	UC505				6574	13/11	CM172								
	B. Tone	6448	7	Y200MP				6797	15	BB12								
	Supp.	6150	7	A5MP														
	Phono.	6799	1	Order from	Mfr.													
Duo 381	Vol.	67656-4	100	TRP622				7790	1	SR644				12	6D6, 6A7, 76, 85, 342, 5Z3	460	5-189, 202	
	T. Tone	65469-2	41	UM165-SS16				7788	1	RS216								
	B. Tone	7795	7	Y200MP				7789	13/19	2S567/BB13	B179							
	Supp.	7804	7	UC500														
V405 (RC521B)	Vol.	36337	20	TM249-SS1				25433	1/19	FPT339				9	6SK7, 6SA7, 6H6, 6SF5, 6F6G, 5U4G	455	12-83	
	Treble	36339	22	MR53	M26			32405	13	BB24								
VHR407 (RC547A)	Vol.	37019	124	TM227-SS1	M26			34889	1	FPD234				11	6SK7, 6SA7, 6Q7, 6SJ7, 6F6G, 12K7GT, 6H6, 6U5/6G5, 5U4G	455	12-54-57	
	Mike	84779-22	127	MR48				31584	19	BB17								
	Bass	37023	1	MR55	M26			36589	13	FPS143								
	Treble	37024	22	MR53				32405	13	BB24								
Radiola 500, 501	Vol.	35330	18	MR44	M26		A106	39124-1	1	2N509				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-60	
Radiola 510, 511, 512, 513	Vol.	84701-30	18	MR48	M26		A106	35348	1	2N514				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-67	
515	Vol.	36242	18	MR48	M26		A106	36301	77	2N515				6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455		
810K, 810K1, 810T	Vol.	14335	20	TM249-SS1				14531	25	WE3050				10	6K7, 6L7, 6J7, 6H6, 6N7, 6F6, 6G5, 5T4	460	9-175, 179	
								5212	25	WE1830								
								14531	25	WE3050				10	6K7, 6L7, 6J7, 6H6, 6N7, 6F6, 6G5, 5T4	460	9-181, 184	
								5212	25	WE1830								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. C. A.—Continued																		
811K.....	Vol. Fid.	72558-44 14764	20 22	TM249-SS1 N				14531 5212	25 25	WE3050 WE1830					11	6K7, 6L7, 6J7, 6H6, 6N7, 6F6, 6G5, 5T4	460	8-153, 159
812K.....	Vol. Fid.	12861 14703	20 22	DTM295-SS1 SRP285	8			14531 5212	25 25	WE3050 WE1830					12	6K7, 6L7, 6J7, 6H6, 6N7, 6G5, 6F6, 5T4	460	8-161, 166
813K.....	Vol. Fid.	12861 14703	20 22	DTM295-SS1 SRP285	8			14531 5212	30 30	WE3050 WE1830					13	6K7, 6L7, 6J7, 6H6, 6C5, 6F6, 6G5, 5T4	460	9-185, 193
816K.....	Vol. Fid.	12861 14703	20 22	DTM295-SS1 SRP285	8			14531 5212	30 30	WE3050 WE1830					16	6K7, 6L7, 6J7, 6H6, 6C5, 6F6, 6L6, 6G5, 5T4	460	9-192, 200
910KG.....	Vol. Tone	31450 72357-43	20 22	TM249-SS1 MR53	M26		A59	14531 5212	25 25	WE3050 WE1830					10	6A8, 6K7, 6J7, 6U5, 6H6, 6F5, 6F6, 5T4	455	9-201, 206
911K.....	Vol. Tone	72357-44 72357-43	18 22	TM249-SS1 O	6		A59	14531 5212	25 25	WE3050 WE1830					11	6K7, 6A8, 6J7, 6H6, 6U5, 6F5, 6F6, 5T4	455	9-207, 210
ER-1240-A2.....	Vol. Tone Mike		7 41	SRP134 N				10 4	4 4	SR644 HD684					12	35, 127, 24A, 24S, 80, 381, 350	175	3-63, 67
AC3789 (Nash).....	Vol.	32295		MR48				10-10-20 .0075	24/15	FPT332 Buffer	B14	13688	850	C3	5	6A8, 6K7, 6Q7, 6F6G, 6X5G		
AR-4229.....	Vol.	K67967	18	SRP251	6			4-4 6492	1 13	CM170 Order from Mfr.	B169	7689	271	C15	4	78, 6A7, 6B7, 41	175	5-203, 206
23590-2.....	Vol.	4702	9	A5MP	6			3536 6728	15 25/15	TN113 UR189	H172				5	78, 6A7, 77, 43, 12Z3	175	5-207, 209
RADIO MFG. ENGINEERS, INC.																		
RME 69A AC.....	Vol. Tone Sen. Meter		83 21 7	MR44 MR53 MR38	M27 M26			8, 8 12 20	3 3 15	ST595 ST596 BB15					9	6D6, 6C6, 6B7, 42, 80	465	8-1
RME 69B Battery.....	Vol. Tone Sen. Meter		83 21 7	C200P MR44 MR53 MR28	M27			20	15	BB15					8	6D6, 6C6, 6B7, 42	465	8-1
RME70.....	Vol. Gain Tone Meter	1.19 1.1 1.24 1.28	83 8 21 8	Order from Mfr. J O X	Mfr. 6 6			15-15-10-40	3/15	F1PQ435					11	6K7G, 6J7G, 6H6, 6A6, 6F6, 80, 6K7	463	11-12-14 12-8-10
R. P. C. (Radio Products Corp.)																		
A1.....	Vol. Tone	P934 P943	18 34	N N	6			P950	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5W4	456	7-1, 2
A3.....	Vol. Tone	P934 P943	45 34	N L	6			1 8-4	32 32	ST595 2N518					6	6A7, 6D6, 76, 75, 42, 80	456	10-1
B2.....	Vol. Tone	P912	18	MR48	M26			P337 P304	6 15	2N507 BB12					5	6A7, 6D6, 75, 43, 25Z5, L49B	456	7-3, 4
L2.....	Vol. Tone		75 34	SRP275 O	6			4 8-4	32 32	WE450 2N518					6	6A7, 6K7, 6H6, 6F5, 6F6, 80	456	7-5
L4.....	Vol. Tone		75 44	SRP275 N	6			4 8-4	32 32	WE450 2N518					7	6A8, 6K7, 6H6, 6A6, 6F6, 80	456	7-6
L5.....	Vol. Tone	P660 P661	18 34	L L	6			P474 P160 P304	32 32 15	WE450 2N518 BB12					7	6F5, 6F6, 6H6, 6K7, 6L7, 5Z4, 6C5	456	9-6
L6.....	Vol. Tone	P660 P661	18 44	N L	6			P474 P160 P304	32 32 15	WE450 2N518 BB12					8	6C5, 6F6, 6K7, 6L7, 6Q7, 5Z4	456	8-1
L7.....	Vol. Tone	P691 P682	45 1	SRP275 L	7			P391 .01-.01	1 1	2N516 Buffer	B14	P402	245C	C3	7	1C6, 19, 30, 34	456	8-2
M1.....	Vol. Tone	P660 P661	18 34	N L	M26			P160	1	2N518					6	6A8, 6Q7, 6K7, 6F6, 5Y3	456	8-3
U6.....	Vol. Tone	P801 P828	17 22	UM163-SS3 MR39	M26			P795 6864 .0075	4 15	CM172 BB11 Buffer	B14	P816	294	C3	6	61D6, 6A7, 75, 6F6, 84, 6K7	175	
X8.....	Vol. Tone	P630 P633	18 34	N N	6			8-4 P160	1 1	2N518 2N518					5	6A7, 6D6, 75, 42, 80, 6A7, 6D6, 6H6, 6F5, 42, 80	456	10-5
Z2.....	Vol. Tone	P934 P995	45 34	L L	6			P950	1	2N518					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	456	7-7, 8
Z3.....	Vol. Tone	P680 P682	45 44	SRP275 L	7			P391 .01-.01	1 1	2N516 Buffer	B14	P402	245C	C3	6	1C6, 19, 30, 32, 34	456	9-2
Z4.....	Vol. Tone	P961 P962	45 44	SRP275 L	7			P958 .01-.01	1 1	2N516 Buffer	B14	P402	245C	C3	6	1C6, 19, 30, 32, 34	156	7-9, 10
Z5.....	Vol. Tone	P962 P2600	44 18	L MR48	M27			.01-.01 P2602	1 19	Buffer BB15	B14	P402	245C	C3	4	1A7G, 1N5G, 1H5G, 1C5G	456	9-1

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
R. P. C.—Continued																		
4H	Vol.	P2498	6	MR36	M26			P2434	1	BB26				4	6K7, 6J7, 25L6, 25Z6		10-2	
5A	Vol.	P2392	18	MR53	M26			P2500 P2397	1 23	BB22 2S567				5	6A7, 6D6, 75, 41, 5Y3G	456	9-3	
5C, 5CPH	Vol.	P2213	6	MR36	M26			P2216	1	2N506				4	61D6, 6C6, 25L6G, 25Z5, L55B		9-4	
5E	Vol.	P2432A	18	MR48	M26		A58	P2434 P2427	25 25	BB26 BB22				5	6A8, 6K7, 6Q7, 25L6, 25Z6	456	9-5	
5F	Vol.	P2450A	18	MR48	M26			8-8	23	2S567				5	6A7, 6D6, 75, 41, 80	456	10-3	
5G	Vol.	P2450	6	MR33	M26			8-8	25	2S567				5	61D6, 6C6, 41, 76, 80	456	10-3	
6D	Vol.	P2271	18	Order from	Mfr.			P2251 .015	1	2N518 Buffer	B14	P1114	850	C3	6	6A8G, 6U7G, 6Q7G, 6G6G, 6J5G, 6ZY5G	456	9-7
7A	Vol. Tone	P2136 P2137	18 34	Order from	Mfr.			P2140 .015	1/15	3S579 Buffer	B14	P2147	850	C3	7	6D8G, 6S7G, 6T7G, 6G6G, 6L5G, 6AB5, 6ZY5G	456	9-8
7G	Vol. Tone	P2558A P2559A	80 80	MK 401 MK 401	M26			P2575	25	ST596				7	6A7, 6D6, 75, 41, 6G5, 80, 76	456	9-9	
55 (Auto)	Vol.	P2321	18	UM154-SS3	M26			8-8 .006	23	2S567 Buffer	B14	P1114	850	C3	5	6A8, 6K7, 6Q7G, 6K6G, 6X5G	456	9-10
69	Vol. Tone	P1371 P828	18 22	UM154-SS3 MR39	M26			8-6 .0075	23	2S567 Buffer	B14	P1114	850	C3	6	6K7, 6A8G, 6Q7G, 6K6G, 6X5G	175	10-6
RADIO PRODUCTS 140, 170, 17B (No. 78143 and up)	ALES C. O. Vol.		6	MR18				4-4	23	2S567				4	61D6, 76, 42, 80		§8-7	
	Vol.		6	MR18				4-4	23	2S567				5	6A7, 6K7, 76, 42	450	§8-7	
RADIOTROPE (Also G Console)	see U. S. Vol. Tone	Radio and Television	6	F7	6			8, 8, 8	28	RS213				8	24A, 27, 45, 80		3-2	
R Console	Vol. Tone		41	N				8, 8, 8	28	RS213				8	24A, 27, 45, 80		3-2	
S2 (Two Types)	Vol. Tone		41	UC501				8, 8, 8	28	RS213				8	24A, 27, 45, 80		3-1	
27R (Early & Late)	Vol. Tone		8	A400P				1-3-1	3	See Note	B1			8	24A, 27, 45, 80		3-1	
62, 64	Vol. Tone		6	UC500		See Note A27		8, 8	1	RS213				5	24A, 27, 45, 80		1-2	
70R	Vol. Tone		6	F7		See Note A4		8, 8, 8	28	RS213				7	24A, 27, 45, 80		3-3	
71R, 72R, 73R	Vol. Tone		15	N				8, 8, 8	28	RS213				10	35, 27, 47, 80	262		
74R (First Type)	Vol. Tone		44	UC502				2803	1	CS133				8	35, 27, 47, 80	262		
74R (Second Type)	Vol. Tone		34	UC502				2719	13	CS133				5	24A, 45, 80		3-4	
	Vol. Tone		6	F7				2852	14	CS133				5	24A, 47, 80		1-1	
	Vol. Tone		6	F7				2803	1	CS133				8	35, 27, 47, 80			
	Vol. Tone		34	UC502				2852	17	CS133				8	35, 27, 47, 80			
	Vol. Tone		6	F7				8, 8	1	RS213				5	24A, 45, 80		3-4	
	Vol. Tone		6	F7				8, 8	1	RS213				5	24A, 47, 80		1-1	
RADIO VISION CO. AX	RP. Vol. Tone	2009B 2021	45 22	MR48 L	M26			317	4	RS213				6	6A7, 6D6, 76, 6F5G, 42, 80	456	§8-10	
RADOLEK																		
Marvelo & Monroe "6-7"	Vol.		10	D12				2-1-1-2-1	3	See Note	B1			7	26, 27, 71A, 80		4-1	
Marvelo 8-9	Vol.		10	D12				1-2-1-1-2	3	See Note	B1			9	26, 27, 71A, 80		3-1	
Marvelo 30, SR222, Monroe	Vol.		12	A5MP				4-4-2	3	See Note	B1			7	35, 56, 47, 80		2-1	
SR223 Marvelo & Monroe (Trio Tone Dynamic)	Vol.		12	A5MP				2-3-2-2	3	See Note	B1			9	35, 56, 47, 80		3-1	
SR224 Little Leader	Vol.		6	E7		4		4-4	1	2N518				4	24A, 47, 80		3-4	
SR225 Marvelo "6" Midget	Vol. Tone		12	A5MP				4-4-4	3	CM175				6	35, 56, 47, 80		2-1	
SR227 Batt. Super.	Vol. Tone		22	G12										9	34, 30	456	3-2	
SR228 Marvelo	Vol. Tone		62	N										9	34, 30	456	3-2	
SR229 10 Tube Super.	Vol. Tone		22	UC502										7	35, 24A, 47, 80, 27	175	3-2	
SR230 (1933—12 Tube Super)	Vol. Tone		8	F		A14		8-8	1	See Note	B3			10	56, 57, 58, 47, 80	175	3-1	
SR231 "1933" Compact 5 Tube	Vol. Tone		22	K12				10-10	1	See Note	B3			12	58, 56, 57, 46, 82	175	4-1	
SR232 "Little Master"	Vol. Tone Supp.		45	Z12				8-8-4	3	See Note	B3			12	58, 56, 57, 46, 82	175	4-1	
SR233 (1933—12 Tube Super)	Vol. Tone		41	UC502				8	19	BB13				5	57, 58, 55, 47, 80		3-3	
	Vol. Tone		12	E12										4	58, 57, 47, 80		3-4	
	Vol. Tone		6	G7		2		8-4	25	CM172				12	56, 57, 58, 47, 80		4-2	
	Vol. Tone		7	G		2		8-4	4	CM172				12	56, 57, 58, 47, 80		4-2	
	Vol. Tone		16	N				8-8-8	3	CM175	B3			12	56, 57, 58, 47, 80		4-2	
	Vol. Tone		22	K12				4	15	BB11				12	56, 57, 58, 47, 80		4-2	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
RADOLEK—Continued																		
SR234 (1933—10 Tube Super)	Vol. Tone Supp.		15 44 12	N. K12 G12				8-8-8	3	CM175	B3				10	56, 58, 55, 47, 80, 57	†	4-2
SR235 (1933—5 Tube Super)	Vol.		17	N.				8-8	1	CM172					5	57, 58, 55, 47, 80	†	2-1
SR236 Marvelo (1932 9 Tube)	Vol. Tone		62 22	N. K12				12-8	34	See Note	B3				9	35, 24A, 27, 47, 80	†	4-2
SR237 DeLuxe 5 Tube	Vol. Tone		6 22	G7 K12		2		8-4	4	2S567					5	57, 58, 47, 80	†	3-3
SR241	Vol.		16	MR48				8, 8	1	ST595					4	58, 47, 80		8-2
SR243 "1933" 7 Tube Super	Vol. Tone		17 22	N. K12				8-8	1	2N518					7	56, 57, 58, 55, 47, 80	†	3-3
SR247	Vol.		10	D12				8, 8	2	ST595					5	24, 46, 83		8-2
SR248 Monroe	Vol.		1	D12				1-2-1-1-2	3	See Note	B1				9	42, 32, 37A, 80		3-1
SR249 Marvelo	Vol. Tone		1 22	D12 G12				†	†	See Note	B4				10	26, 27, 50, 80		3-2
SR270 (1934) 15 Watt Amp. (AC)	Vol. Tone		16 41	M. M.				8, 8, 8 10	30 15	RS213 BB12					5	57, 56, 2A3, 5Z3		6-1
SR271 (1934—30 Watt Amp.)	Vol. Tone		16 41	M. M.				8-8-8 10	30 15	See Note BB12	B3				7	57, 56, 2A3, 5Z3		6-2
SR274 (1934) 15 Watt Amp. (DC)	Vol.		16	M.				8, 8 10	24 15	RS213 BB12					4	39, 37, 2A3		6-1
SR280 (3 Watt Amp.)	Vol. Phono. Tone		16 16 17 22	M. K12 M. K12				8-8 10 8, 8 10	1 15 1 20	RS213 BB12 See Note BB12					6	58, 2A7, 2A6, 2A5, 80	†	6-1
SR287 Octomatic	Vol. Tone		22	K12				25 15	15	BB15					5	6A7, 78, 75, 43, 25Z5	265	5-1
951	Vol.	9331	6	H7		6	2	9442	11	UR182	B31				6	57, 58, 2A6, 2A5, 80	465	5-3,6
956, 958	Vol. Tone	9666 9174	17 22	M. K12		6		9659 8876	1 15	RM262 BB12					6	57, 58, 2A6, 2A5, 80	465	5-3,6
10926	Vol.		18	MR48	M26			16-12-8	11	UR182	B3				5	6A7, 6D6, 75, 43, 25Z5	456	7-1
10927	Vol.		75	MR48	M26			8-8	23	CM172	B3				6	6A8, 6K7, 6116, 6F5, 6F6, 80	456	7-2
10928	Vol.		18	MR48				6-10	23	CM172	B3				5	6A7, 6D6, 75, 42, 80	456	7-3
10931	Vol.		6	MR21	M26	EX200		16-12	23	2P546					4	6D6, 6C6, 43, 25Z5		7-4
10943, 10944, 10946	Vol. Tone		75 34	MR18 N.				4 8-4	32 32	WE450 2N518					6	6A7, 6K7, 6116, 6F5, 6F6, 80	456	7-5
10951	Vol.	9331	6	H7		6	2	9442	11	UR182	B31				5	6A7, 78, 75, 43, 25Z5	262	5-7,8
10953	Vol.		7	K		EX150		7-4	1	2N518					4	58, 57, 2A5, 80		5-9
10956	Vol. Tone	9666 9174	17 22	M. K12		6		9659 8876	1 15	RM262 BB12					6	57, 58, 2A6, 2A5, 80	465	5-9,10
10962	Vol. Tone		6 22	G7 L		2		4-4	4	See Note	B3				1	78, 77, 42, 80		5-12
10963, 10964	Vol. Tone		15 22	L M				4-4	4	See Note	B3				5	6A7, 78, 75, 42, 80	465	5-13
10966	Vol.		6	G7		2		4-4	4	See Note	B3				5	6D6, 6C6, 42, 80		5-14
10967	Vol.		6	L		EX400		20-4-5-5	6/15	UR189	B98				5	78, 44, 43, 25Z5, 77	456	5-12
10968 (32 Volt)	Vol. Tone		15 22	M. L				6-10 5-5	1 15	2N518 TN111			F221	C3	5	6A7, 78, 75, 42, 81	456	5-13
10969	Vol. Tone		54 22	M. L				.05-.05	19	Buffer BB11					5	1A6, 34, 32, 30, 19	456	5-11
10970	Vol. Tone		17 41	N. L				4-8-4	26	CM175	B3				8	78, 37, 85, 42, 80	456	5-14
11908	Vol.	1059	6	MR18		EX250		2027	11/15	2N502/2N504	B120				5	6A8, 6K7, 6J7, 43, 25Z5	456	7-6
11910	Vol.		6	MR21		EX200		16-12	23	2P546					4	6D6, 6C6, 43, 25Z5	456	7-7
11911	Vol. Tone		6 22	MR21 SRP263		EX250		8, 8	23	ST595					4	6A7, 6D6, 76, 42, 80	456	7-8
11935	Vol.		18	MR18											5	1C6, 34, 11B5, 30, 19	465	7-9
11947	Vol. Tone		15 22	MR48 MR39				8, 8	†	ST595					6	6A8, 6K7, 6116, 6F5, 6F6, 5Z4	456	7-10
K16700	Vol.	4102A	6	H12		6		4801A	27	UR192					3	6D6, 6C6, 25A7		
K16701	Vol.	4106A	18	N.		6		4801B	27	2P549					4	6A7, 6D6, 75, 25A7	456	
K16702	Vol.		18	N.		7		8-8	1	See Note	B3		See Note	C8	5	1C6, 1A4, 75, 30, 19	456	
K16703	Vol.		45	N.		7		.005 8-8 .005	1	See Note Buffer	B14 B3		See Note	C8	7	1C6, 34, 30, 19	456	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
RAIDOLEK—Continued																		
K16705	Vol.	2009	17	N	6			311	27	ST589				6	6A7, 6D6, 75, 43, 25Z5, 6E5	456		
K16706	Vol. Tone	2007, 2008	45, 22	N, L	6			312, 302	27, 1/15	BB22, 3S579				7	6A7, 6D6, 76, 42, 80, 75, 6E5	456		
K16722	Vol. Tone		15, 34	N, L				8-8, 5	4, 15	CM172, BB11				6	6A7, 6K7, 76, 6F5, 42, 80	456		
K16725	Vol. Tone		45, 22	N, N				4-8-8, 5	1/14, 15	3S584, BB11				10	6K7, 6A8, 6D6, 76, 6F5, 6B5, 80, 75, 6G5	456		
K16728	Vol. Tone		17, 22	N, L				20-4-5-5	6/15	UR189	B98			5	6A7, 6K7, 75, 43, 25Z5	456		
K16740	Vol.	P912	17	N	6			P337, P301	6, 15	2N507, BB11				5	6A7, 6D6, 75, 43, 25Z5	456		
K16743	Vol. Tone	P961, P962	45, 41	SRP275, N	7			P958, .01-.01	1	2N516, Buffer	B14	P402	245C	C3	6	1C6, 34, 30, 32, 19	456	
K16746	Vol. Tone	P1131, P1026	45, 22	N, O	7			P958, .01-.01	1	2N516, Buffer	B14	P402	245C	C3	7	1C6, 34, 30, 19	456	
K16747	Vol. Tone	P934	18, 31	N, N	6			P950	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5W4	456	
K16748	Vol.	P912	18	N	6			P160	1	2N518					5	6A7, 6D6, 75, 42, 80	456	
K16749	Vol.	P405	18	N	7			P958	1	2N516		P1101	245	C3	4	1C6, 34, 1B5, 1F4	456	
K16751	Vol. Tone		17, 22	N, O	6			8, 4-8, 4, 5	3, 3, 13, 15	RS213, 2N518, CS133, BB12					10	6K7, 6A8, 6Q7, 6L6, 6G5, 5W4	456	
K16753	Vol. Tone	P1158, P1159	15, 22	TM236-SS1, L	M26			Tuner Section						19	6K7, 6A8, 6H6, 6C5, 6G5, 5W4, 85, 6D6, 42, 45, 80, 83V	456		
								P1156, P1158, P1155, P1043, P304	3, 14, 3, 13, 15	WE3050, WE3050, BB63, BB60, BB12								
								Amplifier Section										
								P1156, P950, P1208, P304, P950	2, 13, 1, 15, 1	WE3050, 2N518, TN129, BB12, 2N518	B8							
K16756	Vol. Tone	P934, P995	75, 34	N, L	6			8	3	RS213					6	6A8, 6K7, 6H6, 6F5, 6F6, 5W4	456	
K16759	Vol. Tone		17, 22	N, O	6			4-8, 5	3, 15	2N518, BB11					8	6K7, 6A8, 6Q7, 6L6, 5W4, 6G5	456	
K16772	Vol. Tone	2198, 2199	18, 44	UM154-SS16, K12	6			1477, 1476	25, 25	RS215, RS216					8	6A7, 6K7, 75, 6C5, 6F6, 80, 6G5	465	
K16773	Vol. Tone	2239, 2199	18, 22	MR48, L	6										6	6A7, 6D6, 75, 76, 348	465	
K16777	Vol. Tone	2699, 2700	20, 22	TM228-SS16, K12	6			3167, 1476	25, 25	WE3050, RS216					10	6K7, 6L7, 6J7, 6H6, 6C5, 6F6, 5Z3, 6E5	465	
K16780	Vol. Tone	2966, 2965	45, 41	TM234-SS16, MR33	M26			8B76, 3060, 3159, 8B76	15, 13, 15	BB11, 2N518, BB40, BB11		3069	245A	C3	8	15, 6A7, 76, 19, 6E5	465	
K16790	Vol.		18	N	6			8-8	23	2N567					7	6C6, 6D6, 75, 42, 76, 6G5, 80	465	
K16825	Vol. Tone	P801, P828	17, 22	UC514, MR39	6			P795, G864, .0075, 4801A	4, 15, 74	CM172, BB12, Buffer, UR192	B14	P816	294	C3	6	6D6, 6A7, 6K7, 75, 6F6, 84	175	
N16700	Vol.		6	H12	6	EX500	A4								4	6D6, 6C6, 25A7, 25A6		
N16702	Vol.		6	H12	6	EX500	A27								4	6A7, 6C6, 43, 25Z5	456	
N16704	Vol.		18	N	7			8-8, .005	1	2N518, Buffer	B14		See Note	C8	5	1C6, 1A4, 75, 30, 19		
N16704	Vol.		45	N	7			8-8, .005	1	2N518, Buffer	B14		245C	C3	7	1C6, 34, 30, 19		
N16729	Vol.	5-1	6	H12	6			7-1	4/20	UR182					4	6A7, 6C6, 43, 25Z5	456	
N16730	Vol.	A-5-1	6	MR21	M26			A-7-1	4/13	2P546/BB21					4	6D6, 6C6, 43, 25Z5	456	
N16731	Vol.	5-32	17	MR48	M26			7-1	4/15	UR182	B259				6	6A7, 6D6, 75, 25B6C, 25Z5, 6G5	456	
N16762, N16763	Vol. Tone	P1821, P1822	110, 110	TM236-SS1, MR53				P1825, P1783	1/13, 15	3S584, BB12					8	6A7, 6D6, 75, 76, 42, 80	456	
N16765	Vol.	P1515	18	MR53	M26			P1511	23	RM262					5	6A7, 6D6, 75, 41, 80	456	
N16782	Vol.	3403	20	TM251-SS16				3167, 3041, 1110, 1693	25, 13, 13, 20	WE3050, 2N518, BB60, BB12					11	6K7, 6A8, 6J7, 6H6, 6C5, 6F6, 80	465	
RELIANCE																		
L5	Vol. Tone	P660, P661	18, 34	N, L	6			P474, P160, P304	32, 32, 15	WE450, 2N518, BB12					6	6F5, 6F6, 6H6, 6K7, 6L7, 5Z4	456	
L6	Vol. Tone	P660, P661	18, 44	N, L	6			P474, P160, P304	32, 32, 15	WE450, 2N518, BB12					8	6C5, 6F6, 6K7, 6L7, 6Q7, 5Z4	456	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replace- ment	*Note				
RELIANCE—Continued																		
L7.....	Vol. Tone	P691..... P682.....	45 4	SRP275..... L.....	7			P391..... .01-.01	1	2N516 Buffer.....	B14	P402.....	245C	C3	6	1C6, 19, 330, 334.....	456	
Z4.....	Vol. Tone	P680..... P682.....	45 44	SRP275..... L.....	7			P391..... .01-.01	1	2N516 Buffer.....	B14	P402.....	245C	C3	6	1C6, 19, 330, 32, 34.....	456	
Z5.....	Vol. Tone	P691..... P962.....	45 44	SRP275..... L.....	7			P958..... .01-.01	1	2N516 Buffer.....	B14	P402.....	245C	C3	6	1C6, 330, 19, 32, 34.....	456	
REMLER																		
M50.....	Vol.		15	MR48.....				4, 4.....	4	BB60.....					3	6N7, 6F6, 5Z4.....		8-3
10.....	Vol.		58	H.....	6			8-8.....	4	See Note.....	B3				6	35, 21A, 27, 47, 80.....	180	3-2
10-3 "Cameo".....	Vol. Tone		6 22	H12..... H12.....	6 6	EX300		8-8..... 8-8.....	4 4	See Note..... See Note.....	B3 B3				6 6	27, 358, 57, 47, 80..... 27, 358, 57, 47, 80.....	250 250	4-1
10-3 "Cameo" (With 2A5 Output).....	Vol. Tone		6 22	H12..... Y.....	6 6		A14	8-8..... 8-8.....	4 4	See Note..... See Note.....	B3 B3				6 6	27, 358, 57, 2A5, 80..... 6A7, 78, 6B7, 42, 80.....	250 450	
10-4.....	Vol. Tone		76 76	Y..... N.....	6 6			8-8..... 8-4-2.....	4 3	CM172..... MN275.....	B3				6 5	6A7, 78, 6B7, 42, 80..... 24A, 47, 80.....	450 3-4	5-1
11.....	Vol. Tone		6 34	Y..... H12.....		EX400		8-4-2..... 8-4-2.....	3 3	MN275..... MN275.....					5 6	24A, 27, 15, 80..... 24A, 27, 15, 80.....		3-4
14.....	Vol. Tone		6 34	Y..... H12.....		EX400		8-4-2..... 8-8.....	3 4	MN275..... See Note.....					6 7	24A, 27, 15, 80..... 251, 21A, 27, 47, 80.....	180	1-1
15.....	Vol.		7	H.....		3		8-8.....	4	See Note.....	B3				7	251, 21A, 27, 47, 80.....	180	3-3
15-3.....	Vol. Tone Supp.		13 22 12	N..... H12..... Y.....				8-8..... 8-8..... 4.....	4 4 13	RS213..... BB60.....					9	256, 358, 357, 47, 82.....	180	2-2
17.....	Vol. Tone		6 34	Y..... H12.....				8-4-2.....	1/17	MN275.....					8	24A, 27, 45, 80.....	180	3-5
19.....	Vol. Tone Sen.		15 44 7	N..... Y..... H.....				8-6-8.....	3	MN275.....					10	35, 21A, 27, 47, 80.....	180	3-2
21 Minuette.....	Vol.		6	H7.....	6	3		8-8.....	4	CM172.....	B3				4	35, 24A, 47, 80.....		3-3
21-3.....	Vol. Tone		14 22	N..... Y.....	6 6			8-4.....	4	CM172.....	B3				4	357, 47, 82.....	250	3-6
21-4.....	Vol. Tone		18 76	N..... Y.....	6 6		See Note	8-8.....	4	CM172.....	B3				5	2A7, 58, 2B7, 2A5, 80.....	450	5-2
26 (First Type) "Scotty".....	Vol.		6	H12.....	6		A14	8-8.....	1	2N502..... BB12.....					5	77, 78, 43, 25Z5.....	450	3-6
26 (Above 54760) "Scotty".....	Vol.		6	H12.....	6		A14	8-8..... 10.....	6 15	2N502..... BB12.....					5	6A7, 78, 77, 43, 25Z5.....	450	6-1
27 "Scotty".....	Vol.		17	N.....	6			8-8..... 10.....	1 15	2N518..... BB12.....		292		6	6A7, 78, 6B7, 89, 1V, 81.....	465	4-2	
28.....	Vol.		6	G12.....	6	See Note	A14	10-10.....	4	2P544.....					5	6A8, 6K7, 6J7, 25A6, 25Z6, K49B.....	450	9-1
30.....	Vol.		6	H12.....	6			4-4.....	1	2N518.....					4	6A7, 6F7, 11, 81.....	450	4-3
35 Auto.....	Vol. Tone		18 22	UM154..... Y.....		See Note	A96	8-4..... 10-10.....	1 15	2N518..... TN111.....		292		6	6A7, 78, 75, 41, 84.....	450	5-3	
36 Auto Radio.....	Vol. Tone		18 22	UM154-SSI7..... Y.....	M26	See Note	A5	4-4..... 8.....	4 14	CM172..... CS133.....				6	6D6, 6A7, 75, 76, 41.....	250	6-2	
37 Police.....	Vol. Tone		18 22	UM154-SSI7..... Y.....	M26			4-4..... 8.....	4 13	CM172..... CS133.....				6	6K7, 6A8, 6Q7, 6C5, 6F6.....	250	7-1	
39.....	Vol. Tone		18 21	MR48..... MR48.....	M26			16-4.....	4	See Note.....	B3			5	6A7, 6K7, 75, 42, 80.....	450	10-1	
40.....	Vol.		6	H12.....	6			4-4.....	1	2N516.....				4	6A7, 6F7, 41, 84.....	450	4-3, 6-3	
41.....	Vol.		6	G12.....	6			4-4.....	1	2N518.....				5	6A8, 6K7, 6J7, 6F6, 5Z1.....	450	7-2	
42.....	Vol.		18	N.....	6			8-8.....	4	CM172.....	B3			6	6D6, 6A7, 75, 42, 80.....	450	6-4	
43.....	Vol. Tone		17 22	MR48..... Y.....				8-8-10.....	1/19	3S579.....				7	6K7, 6A8, 6H6, 6J7, 6F6, 5Z1.....	450	7-3	
44.....	Vol. Tone		18 22	MR39..... H.....				8-8..... 10.....	25 19	2S567..... BB13.....				7	6K7, 6L7, 6C5, 6Q7, 6F6, 5Z1.....	450	7-4	
45.....	Vol. Tone		15 22	MR48..... MR33.....	M26			10-10..... 10.....	25 15	CM172..... BB12.....	B3			7	6L7, 6C5, 6K7, 6H6, 6F5, 6F6, 5Z4.....	450	7-5	
46.....	Vol. Tone		6 6	G12.....	6	EX200		4-4.....	23	CM170.....				5	6A8, 6K7, 6J7, 6F6, 5Z1.....	450	8-1	
46 (Above 107767).....	Vol. Tone		18 34	MR48..... MR24..... MR48.....	M26			16-4.....	4	See Note.....	B3			5	6A8, 6K7, 6Q7, 6F6, 5W4.....	450	9-1	
47.....	Vol.		17	MR48.....	M26			4-4.....	25	CM170.....				5	6A8, 6K7, 6Q7, 6F6, 5Z1.....	450	9-2	
49.....	Vol.		6	MR18.....	M26	EX200		8-4.....	4	2S567.....				4	6D6, 6C6, 41, 80.....		9-3	
51.....	Vol.		6	G12.....	6			4-4.....	23	CM170.....				4	78, 77, 42, 80.....		7-5	
53 (Above 54862).....	Vol.		6	H12.....	6			8-4.....	1	2N518.....				5	6A7, 6D6, 53, 42, 80.....	450	6-5	
53C (Above 56208).....	Vol.		6	H12.....	6			8-4.....	1	2N518.....				5	6A7, 6D6, 76, 42, 80.....	450	6-6	
55.....	Vol.		18	MR48.....	M26			16-4.....	4	See Note.....	B3			5	6A7, 6K7, 75, 42, 80.....	450		
60.....	Vol.		17	MR48.....	M26			4-4.....	23	CM170.....				5	6A7, 6D6, 75, 42, 80.....	450	7-6	
61.....	Vol. Tone		17 21	MR48..... MR48.....	M26			8-4..... 10.....	23 19	2S567..... BB12.....				6	6A7, 6K7, 76, 6D6, 42, 80.....	450	9-4	
62.....	Vol. Tone		6 22	MR18..... MR33.....	M26	EX200		10, 10.....	1	ST596.....				5	6A8, 6K7, 6J7, 6F6, 5Z1.....		7-6	
63.....	Vol. Tone		17 22	MR48..... MR33.....				10, 10..... 10.....	1 15	ST596..... BB12.....				6	6A8, 6K7, 6H6, 6F6, 6F5, 5Z4.....	450	7-7	

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
REMLER—Continued																		
64.....	Vol.		15	MR48	M26			10, 10	25	ST596					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4	450	7-7
65.....	Vol. Tone		18	MR48	M26			10	15	BB12					7	6D6, 6K7, 76, 75, 42, 80, 6G5	450	9-4
71.....	Vol. Tone		15	MR48	M26			10, 10	25	ST596					8	6K7, 6L7, 6C5, 6F6, 6H6, 5Z4	450	7-2
72.....	Vol. Tone		18	500M No. 1		See Note	A19	10, 10	25	ST596				10	6K7, 6L7, 6C5, 6G5, 6H6, 6N7, 6F6, 5Z4	450	9-5	
73.....	Vol. Tone		34	MR33		See Note	A96	10	15	BB12				6	6K8, 6SK7, 76, 42, 80	450	10-3	
88.....	Vol. Tone		62	UM154		See Note	A96	16-4	23	See Note	B3			10	6K7, 6A8, 6H6, 6J7, 6A6, 2A3, 5Z4	450	7-8	
89.....	Vol. Tone		17	MR48				8	25	ST595				11	6K7, 6L7, 6C5, 6H6, 6E5, 6F5, 6V6G, 3X4G	450	9-6	
91.....	Vol.		41	N				4	13	BB60				4	1C6, 1A4, 1F6, 33, 1A1	450	7-8	
140, 170	Vol.		10	MR48				10, 10, 10	30	ST596				4	6D6, 76, 42, 80	450	8-8	
171	Vol.		20	MR18		See Note	A5	4	13	BB34				4	6D6, 6C6, 41, 80	450	8-8	
178 (Above No. 78142)	Vol.		18	MR48				10	20	BB12				5	6A7, 6K6, 76, 42, 80	450	8-8	
179	Vol.		6	MR18	M26			4-4	23	2S567				6	6A7, 6K7, 76, 6D6, 42, 80	450	8-8	
180	Vol.		62	UM151		See Note	A96	8-4	23	2S567				8	6D6, 6K7, 76, 41, 25Z5, L90B	450	8-8	
462	Vol.		62	UM154		See Note	A96	10	15	BB12				5	6A8GT, 6SK7, 6Q7GT, 6K6GT, 6X5G	455	11-1	
			18	MR48	M26			16-4	23	2S563								
REPUBLIC INDUSTRIES																		
Sky Hawk Patrician	Vol.	853	6	G12	6			965	8	UR182	B3			5	78, 77, 43, 25Z5	175	\$6-12	
MS & Jr. RC5, RC6 "Skyhawk"	Vol.	534	6	G12				928	15	BB15				5	57, 58, 47, 80	175	\$3-7	
SL5D "Skyhawk"	Vol. Tone		18	N				4-4-4-8-8-4	1	See Note	B3			7	78, 6A7, 75, 42, 25Z5	175	4-1	
SL6 "Skyhawk"	Vol. Tone		76	M				496	4	2S567				5	6A7, 78, 75, 42, 80	175	4-2	
SL6D "Skyhawk"	Vol. Tone		534	M	6	2		928	19	BB15				5	77, 78, 43, 25Z5	115	4-3	
BP5E	Vol.		6	G12	6			1085	8	UR182	B3			6	78, 6A7, 75, 43, 25Z5	175	4-4	
CS6	Vol. Tone		22	M				928	15	BB15				5	77, 78, 43, 25Z5	115	5-1	
TL6C	Vol. Tone		18	N	6			1085	8	UR182	B3			6	78, 6A7, 75, 42, 80	175	5-2	
TR5B	Vol.		21	M				928	15	BB15				6	77, 78, 76, 75, 42, 80	175	5-3	
42	Vol.	19-1291	17	MR48	M26			4-4	4	2S567				6	78, 6A7, 75, 42, 80	175	5-4	
51	Vol.	19-1291	17	MR48	M26			25	19	BB15				5	6A7, 78, 75, 43, 25Z5	175	7-1	
56C, 56T	Vol.		15	MR18	M26			18-2003	8	UR193				5	6A7, 78, 75, 43, 25Z5	175	7-2	
76C, 76T	Vol.		15	MR48				18-928	15	BB15				5	34, 6A7, 32, 30, 38	465		
632C, 632T	Vol.		18	N	6			12-6	1	2N519		245C	C3	7	34, 30, 6A7, 32, 76, 19	465		
732C, 732T	Vol.		15	N	6			10	15	BB12				6	6C6, 6A7, 6D6, 85, 48	465		
								.01-.01		Buffer	B14			7	6D6, 6A7, 6C6, 76, 42, 84	465		
								12-6	1	2N519				6	6C6, 6A7, 6D6, 85, 48	465		
								10	15	BB12				7	6D6, 6A7, 6C6, 76, 42, 84	465		
								.01-.01		Buffer	B14							
REX—See Airing																		
RK RADIO LABORATORIES																		
4 Tube Broadcast & Long Wave	Vol.		6	SRP263	6	EX500		12-8-5	6/15	3N525				4	6D6, 6C6, 43, 25Z5	175	5-1	
RK14 (AC-DC)	Vol.		6	SRP263	6	EX500		12-8-5	6/15	3N525				4	6D6, 6C6, 43, 25Z5	175	5-4	
RKS5 Radio Keg	Vol.		6	G7	6	3		12-8-5	6/15	3N525				5	6C6, 6D6, 85, 43, 25Z5	175	\$4-9	
RK60G	Vol.		15	N				8-8	1	CM172				6	2A7, 58, 55, 56, 2H6, 80	175	5-2	
RK60L	Vol.		17	N	6			8-8	1	CM172				6	2A7, 58, 55, 56, 2H6, 80	115	5-3	
421, 422, 423, 424	Vol.		6	SRP263		EX500		25-10	27	2P552				4	6H6, 6C6, 43, 25Z5	175	6-1	
425, 426, 427, 428	Vol.		6	SRP263		EX500		4-4	1	CM170				4	6D6, 6C6, 42, 80	175	6-1	
521, 522	Vol. Tone		18	N				25-10-5	27/15	UR182	B95			5	6A7, 6D6, 75, 43, 25Z5	465	6-1	
			34	L														

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
RK RADIO LABORATORIES 534.....	Vol.	Continued	18	N				8-8	4	CM172	B3				5	6A7, 6D6, 75, 42, 80.	165	6-2
631, 633.....	Vol.		22	G12				8-8	4	CM172	B3				6	6A7, 6D6, 75, 42, 80.	165	6-2
SEA PAL 6P21.....	Vol.	101256	11	MK 402	M27			119-125	24/13/78	FPQ407					6	1A7GT, 21N5GT, 1115GT, 1T5GT, 117Z6GT	455	
101, 102 (Radio Compass)	Vol.	101212	11	MR 48				119-107 119-113	24/78 78	FPT304 HC25025					6	21N5GT, 1A7GT, 1115GT, 1A5GT, 117L7GT	465	12-1,2
SEARS-ROEBUCK FF.....	Vol.	CO. "Silvertone" (Alb.)	1	G12				1	1	See Note	B1				6	26, 27, 12A, 80.		3-15
II.....	Vol.	R4351	1	G12				1-1-2	46	See Note	B1				7	26, 27, 71A, 80.		
J.....	Vol.	R4351	2	G12				3-2	1	See Note	B1				8	26, 27, 71A, 80.		3-16
R71 (101.612, 101.612A).....	Vol.	1012442951	127	MR48				1012042994	1/15	2N520/BB15					7	6K8G, 6U7G, 6J5G, 6Q7G, 6F6G, 5Y3G	455	12-3
R81 (101.613).....	Vol.	1012443108	20	500M			A19	1012043107	1	2-ST598					8	6K8G, 6U7G, 6Q7G, 5Y3G, 6F6G	455	12-4
R101 (101.614).....	Vol.	1012443065	124	2 Meg.			A19	1012043064	3	FPT383					10	6U7G, 6K8G, 6J5G, 6U5, 6Q7G, 6V6G, 5Y3G	455	12-5,6
R111 (101.615).....	Vol.	1012443157	124	2 Meg.			A19	1012013903	3	WE3050					11	6U7G, 6K8G, 6J5G, 6Q7G, 6V6G, 6U5, 5X4G	455	12-7
R121 (101.616).....	Vol.	1012443158	124	2.25 Meg.			A19	1012013903	3	WE3050					12	6U7G, 6K8G, 6J5G, 6H16G, 6U5, 6Q7G, 6V6G, 5X4G	455	12-8
R301 (101.574-2B).....	Vol.	1012443065	124	2 Meg.			A19	1012013903 1012014808	1 1	WE3050 WE3035					10	6K8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 6U5, 5Y3G	455	
R381 (101.639).....	Vol.		127	UM154			A96	20-20-25	1/15	2N520/BB15					8	6K8G, 6U7G, 6J5G, 6Q7G, 6F6G, 6U5, 5Y3G	455	12-9,3
R1021 (110.989-1A).....	Vol.	1102433	75	MR48	M26			1102058	46	TN129					6	12A8GT, 12K7GT, 6H4GT, 12I7GT, 35L6GT, 35Z5GT	455	
R1061 (110.400).....	Vol.	1102433	75	MR48	M26			1102058 1102046	46 46	TN129 2N513					6	12A8GT, 12K7GT, 6H4GT, 12I7GT, 35L6GT, 35Z5GT	455	12-10
R1161 (101.609).....	Vol.	1012442645	18	MR53				1012042425 1012042439	9 9/15	2N514 Order from Mfr.	B8				6	6K8G, 6U7G, 6Q7G, 25C6G, 35Z6G	455	12-11,12
R1171 (101.610-1).....	Vol.	1012443200	15	500M			A19	1012042425 1012042653	9 9/15	2N514 Order from Mfr.	B8				7	6K8G, 6U7G, 6J5G, 6F5G, 25C6G, 35Z4G	455	12-13
R1181 (101.611).....	Vol.	1012442988	124	500M			A19	1012042994	1/15	2N520/BB15					8	6K8G, 6U7G, 6J5G, 6Q7G, 6F6G, 6U5, 5Y3G	455	12-14
R1261 (100.351).....	Vol.	10023160006	18	MR48				10020160095 10020160096	4 4	FPS145 ST598	B197				6	6K8G, 6U7G, 6Q7G, 25C6G, 5Y3G	455	12-15,16
R5501, R5501A (101.618), (101.618-1A).....	Vol.	1012443157	124	2 Meg.			A19	1012043064	3	FPT383					10	6U7G, 6K8G, 6J5G, 6Q7G, 6V6G, 5Y3G, 6U5	455	12-37,38
R5561 (101.617).....	Vol.	1012443437	124	1 Meg.			A19	1012043441	1/15	FPT346	B117				6	6K8G, 6U7G, 6Q7G, 6V6G, 5Y3G	455	12-42
R5854 (135.241).....	Vol.	135243690	50	UM154	M26		A96	1012043444	1/15	FPT346	B12				6	6A8G, 6P5G, 6K7G, 6Q7G, 6F6G, 5Y3G	455	12-1,2
S61 (100.350).....	Vol.	10024119634	124	1 Meg.			A19	10020118421	23	2S569					6	6A8G, 6P5G, 6K7G, 6Q7G, 6F6G, 5Y3G	455	12-1,2
9 Tube Super AVC.	Vol.	7864	15	N	6			7051	34	RS213					9	35, 24A, 27, 47, 80.	175	
36.....	Hum.	7037	44	K12				7078	34	RS216					6	35, 24A, 27, 47, 80.		
36P.....	Hum.	R5390	66	SRP266				8	1	HD684					7	35, 24A, 27, 47, 80.		
37.....			66	SRP266				D4758P	1	HD684					6	35, 24A, 27, 47, 80.		
37P.....								5734A	4	RS216					7	35, 24A, 27, 47, 80.		
39-125.....								16	4	RS216					5	35, 24A, 45, 80.		
41, 41P, 42.....								4758P	4	HD684					6	35, 24A, 45, 80.		
44, 45.....	Vol.		29	R				5734A	4	RS216					6	35, 24A, 45, 80.		
44 (Late).....	Vol.	R6025A	6	H7				4758	4	HD684					5	401A, 12A		7-3
47, 48.....	Vol.	R6025A	6	H7				4758	4	HD684					6	35, 24A, 27, 47, 80.	175	
49, 50.....	Vol.		1	G12				1-2-1-1	3/13	See Note	B1				8	35, 24A, 47, 27, 80.	175	
50 AVC.....	Vol.		7	H				4758P	4	HD684					7	26, 27, 71A, 80.		5-1
51.....	Vol.		6	G12				1-2-2-2	3/14	See Note	B1				10	35, 24A, 27, 47, 80.	175	
52.....	Vol.		6	G7				1-2-1-2	3/14	See Note	B1				8	27, 26, 71A, 80.		7-3
53, 54 (Factory Model 94).....	Vol.		6	G7				1-2-1-2	3/14	See Note	B1				9	27, 45, 80.		6-1
56.....	Vol.		6	G12				1-2-1-2	3/14	See Note	B1				7	24A, 27, 45, 80.		6-2

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—	Continued																	
62	Vol. Tone		6	H7	6		8	25	RS213					7	57,58, 24A, 47, 80, 56	175		
65, 69	Tone		34	N			4	13	BB60					7	30,32, 33, Bullast No. 31	175		
90	Vol.	R4223A	29	R										5	401A, 12A			
91	Vol.	R4684A	29	R										6	401A, 12A or 71A			
92	Vol.	R4640	6	G12			1-2-1-1	3/13	See Note	B1				7	226,227, 71A, 80			
93, 93T	Vol.	R4640	6	G12			1-2-2-2	3/14	See Note	B1				7	227,226, 71A, 80			
94, 95, 99	Vol.	R4640	6	G7			1-2-1-2	3/14	See Note	B1				9	227,245, 80	6-1		
100	Vol.	R4640	6	G12			1-2-1-2	3/14	See Note	B1				7	224A,227,245, 80	6-2		
10711A62	Vol. Tone		18	UC512			8-8	1	2N518	B3		249	C3	6	26D6, 6L7, 76, 75, 6B5	465	6-3	
			22	L			.005		Buffer	B14				8	227,226,71A, 80	6-2		
108	Vol.	R4640	6	G12			2-2-2-2-2	3/14	See Note	B1				7	224A, 27,245, 80	2-17		
109	Vol.	R5202	6	H12			8-8-8	46	MN275					9	227,245, 80	6-3		
110	Vol.	R5045	71	H7			8-8-8	46	MN275					9	224A,227,245, 80	6		
111, 112	Vol.	R5045	6	H12			8-8-8	46	MN275					8	224A,227,245, 80	6-4		
112	Vol.	R5046A	6	H12	6		8-8-8	46	MN275					7	224A,27,245, 80	2-17		
114, 116	Hum.	R5390	66	SRP266			4758P	1	HD684					6	24A,245, 80	2-1		
218	Vol.		6			See Note A5	8-8-8	46	MN275					7	224A, 27,245, 80	2-17		
550	Vol.		6			See Note A5	9327	1	2N502					5	236, 39, 38, 80	265	9-3	
566	Vol.	101-41	18	UM154 S813	M26		9328	15	TN111					5	6A8, 6K7, 75, 41, 84-6Z4	465		
666	Vol.	101-42	18	UC512			119-20	1	CM172		126-1	294	C3	5	6K7, 6A8, 6Q7, 6N6, 84-6X5	465		
671 (101.612, 101.612A)	Vol.	1012442951	127	MR48			.01	1	Buffer	B14	126-1	294	C3	6	6K7, 6A8, 6Q7, 6N6, 84-6X5	465		
701 (101.574-1A)	Vol.	1012440330	127	Order from Mfr.			119-21	1	2N518	B14	126-1	294	C3	6	6K7, 6A8, 6Q7, 6N6, 84-6X5	465		
							.01	1	Buffer	B14				7	6K8G, 6U7G, 6J5G, 6Q7G, 6F6G, 5Y3G	455	12-3	
721 (101.616)	Vol. Tone	1012443158, 1012543123	124, 22	2.25 Meg. MR53	M26	A19	1012013903, 1012014808	1, 1	WE3050, WE3035					10	6K8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 6U5, 5Y3G	455		
771 (101.645-1)	Vol. Tone	1012444892	18	500M		A19	1012013903, 1012043153	3, 3	WE3050, FPD234					12	6U7G, 6K8G, 6J5G, 6H6G, 6U5, 6Q7G, 6V6G, 5N4G	455	12-8	
802, 812	Vol. Tone		46, 22	MR48		See Note A19	1012044553	1/15	FPT327					7	6J5G, 6U7G, 6U7G, 6Q7G, 6F6G, 5Y3G	455		
							40, 40	1	WE4050					12	6K7G, 6H6, 6L7, 6J7G, 6C5, 6C5, 6F6G, 6L6, 5Z3	465	9-5	
1130, 1132	Vol.	2616	6	G12			15-5	2	MN273					7	224A, 27,245, 80			
1134	Vol.	2359	6	H12			2-1-1-1-1	3/13	See Note	B1				8	224, 27,245, 80			
1150	Hum.	R5390	66	SRP266			D4758P	1	HD684					6	24A,245, 80	2-1,2		
1152, 1154	Hum.	R5390	66	SRP266			R5734A	4	RS216					6	24A,245, 80	2-3,4		
1170	Hum.	R5390	66	SRP266			D4758P	1	HD684					6	24A,245, 80	2-1,2		
1174							R5734A	4	RS216					6	245,24A, 80	2-3		
1250							R4758P	4	HD684					5	24A, 45, 80	2-3		
1252							4758A	4	HD684					5	24A,235, 47, 80	2-5,6		
							4758P	4	HD684					6	24A,245, 80	2-1		
1260	Hum.	R5390	66	SRP266			D4758P	1	HD684					6	24A,245, 80	2-1		
1280, 1282	Vol. Tone	7121, 7037	6, 2	G12, K12			8-16	31	See Note	B3				7	24A, 27, 45, 80	175		
1310, 1312, 1320, 1322, 1324 (101)	Vol.	R6025	6	H7		1	R5734A	4	RS216					7	235, 24A,245, 80	2-9,10		
							4758A	4	HD684					8	235, 24A,247, 27, 80	175	2-11,12	
							4758P	4	HD684					8	235,224, 27,247, 80	175		
1320 (106)	Vol. Tone	7613, 7037	26, 22	F, K12	6		7078	4	RS216					8	235,224, 27,247, 80	175		
1324 (106)	Vol. Tone	7613, 7037	26, 22	F, K12	6		7051	4	RS213					8	235,224, 27,247, 80	175		
1326 (101)	Vol. Tone	7613, 7037	26, 22	F, K12	6		7078	4	RS216					8	235,224, 27,247, 80	175		
1326X (106)	Vol. Tone	R6025, 7613, 7037	26, 26, 22	H7, F, K12	6	1	4758, 7078, 7051	4, 4, 4	HD684, RS216, RS213					8	235, 24A,247, 27, 80	175	2-11	
							4758P	4	HD684					8	235,224, 27,247, 80	175		
1330	Vol.						R5734A	4	RS216					7	235, 24A,245, 80	2-9		
1340	Vol. Tone	63-141, 63-142	12, 34	Order from Mfr.			22-84, 22-87	1, 1	BB60, RS213					6	224,245, 80	175		
1360	Vol. Tone	7121, 7037	6, 22	G12, K12			16-8	31	See Note	B3				7	224A, 27, 45, 80	175		
1370 (101)	Vol.	R6172	7	H										4	35, 24A, 47, 80	2-13		
1370, 1371 /W/ Tap Field (106)	Vol.	7613	7	F			7617	4	2S567					4	24A, 35, 47, 80			
1380 (106)	Vol. Tone	7613	8, 22	F, K12	6		7051	34	RS213					4	251,224, 27, 47, 80	175		
1382 (106)	Vol. Tone	7613	22, 22	F, K12	6		7051	34	RS213					7	251,224, 27, 47, 80	175		
1386 (106)	Vol. Tone	7613	26, 22	F, K12	6		7078	4	RS216					8	235,224, 27,247, 80	175		
							7051	4	RS213					8	235,224, 27,247, 80	175		
1390, 1400, 1402, 1404, 1406 (101), 1404 (106)	Vol. Tone	R6025, 7613	6, 8	H7, F	6	1	4758, 7051	4, 34	HD684, RS213					6	224A, 35, 47, 27, 80	175	2-14	
														7	251,224, 27, 47, 80	175		
1406 (106)	Vol. Tone	7613	22, 8	K12, F	6		7051	34	RS213					7	251,224, 27, 47, 80	175		

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—	Continued																	
1408 (106)	Vol. Tone	7613	8 22	F K12	6		7051	34	RS213					7	51, 24, 27, 47, 80	175		
1408 (106) (247 Output)	Vol. Tone	7864 7037	109 22	N K12	6		7078 7051	34 34	RS216 RS213					10	35, 24, 27, 47, 80	175		
1420							5734A	1	RS216					6	24A or 35, 45, 80		2-3, 4	
1430	Vol.	R6242	7	H			4758	4	HD684					9	24A, 27, 35, 47, 80	175	2-15, 16	
1430 (106) (9 Tubes)	Vol. Tone	7864 7037	62 22	N K12	6		7078 7051	34 34	RS216 RS213					10	35, 24, 27, 47, 80	175		
1430 (106) (10 Tubes)	Vol. Tone	7864 7037	109 22	N K12	6		7078 7051	34 34	RS216 RS213					10	35, 24, 27, 47, 80	175		
1442 (106)	Vol. Tone	7613	8 22	F K12	6		7051	34	RS213					7	51, 24, 27, 47, 80	175		
1446 (106)	Vol. Tone	7613	8 22	F K12	6		7051	34	RS213					7	51, 24, 27, 47, 80	175		
1450	Vol.	R6025	6	H7		1	4758	4	HD684					8	35, 24A, 47, 27, 80	175	2-11, 12	
1454 (106)	Vol. Tone	7613 7037	26 22	F K12	6		7078 7051	34 34	RS216 RS213					8	35, 24, 27, 47, 80	175		
1456 (106)	Vol. Tone	7613 7037	26 22	F K12	6		7078 7051	34 34	RS216 RS213					8	35, 24, 27, 47, 80	175		
1462	Vol.	R6420	21	N			4758	25	HD684					8	35, 24A, 47, 27, 80	175	2-18, 19	
1470 (101)	Vol.	R6025	6	H7		1	4758	4	HD684					6	24A, 35, 47, 27, 80	175	2-14	
1480, 1482, 1484	Vol. Tone	R6456 R6454	7 57	H N			4758	23	HD684					7	35, 24A, 27, 47, 80	175	2-19, 20	
1482 (106)	Vol. Tone	7613	8 22	F K12	6		7051	34	RS213					7	51, 24, 27, 47, 80	175		
1490 (45 Output)	Vol. Tone	7121 7037	6 22	G12 K12			16-8	31	See Note	B3				7	24A, 27, 45, 80	175		
1490 (47 Output)	Vol. Tone	7613	8 22	F K12	6		7051	34	RS213					7	51, 24, 27, 47, 80	175		
1500, 1502	Vol. Tone	7732 7037	6 22	F7 K12	6	2	7077	4	RS213					5	24, 35, 47, 80	175		
1506	Vol.	P4035	8	E	6	2	1-1-1	26	See Note	B1				6	51, 24A, 47, 80	175	6-5, 6	
1506A (106)	Vol.	9070	15	N	6		9110	1	2S567					6	58, 57, 55, 47, 80	175		
1510 (101)	Vol.	R6242	7	H	6		4758	4	HD684					10	27, 35, 24A, 47, 80	175	2-15, 16	
1510 (106)	Vol. Tone	7864 7037	109 22	N K12	6		7078 7051	34 34	RS216 RS213					10	35, 24, 27, 47, 80	175		
152X, 1520, 1522, 1522X	Vol. Tone	7864 7037	109 22	N K12			7078 7051	4 4	RS216 RS213					10	27, 35, 24A, 47, 80	175		
1521 (109.354 [A, B, C])	Vol.	109248524	18	MR48	M26		109208525	24	2N514					6	12SA7GT, 112K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-30	
1531 (106)	Vol. Tone	7613 7037	26 22	F K12	6		7078 7051	34 34	RS216 RS213					8	35, 24, 27, 47, 80	175		
1560, 1562, 1564	Vol. Tone		15 57	N N			8 5	12 17	BB31 BB12					7	30, 32, 33	175		
1561 (100.351)	Vol.	10023160006	18	MR48			10020160095 10020160096	4 4	FPS145 ST598	B197				6	6K8G, 6U7G, 6Q7G, 25C6G, 5Y3G	455	12-15, 16	
1570, 1572, 1574, 1575, 1576	Tone	R6570	22	N			8 R7069	12 19	BB31 BB15					7	30, 32, 33	175	3-6, 7	
1571 (101.610)	Vol.	1012442656	45	500M			1012042425 1012042653	9 9/15	2N514 Order from	B8 Mfr.				7	6K8G, 6U7G, 6J5G, 6F5G, 25C6G, 35Z6G	455	12-13	
1580, 1582, 1584, 1585, 1586, 1588, 1589	Vol. Tone	R7240 R6570	6 57	H12 N			8, 8 4	25 13	RS213 BB60					7	57, 58, 24A, 47, 56, 80	175	3-2, 3	
1581 (101.572-2A)	Vol.	1012443049	127	UM163			1012043254	1/15	2N520/BB15					8	6K8G, 6U7G, 6J5G, 6F5G, 6F6G, 5Y3G, 6U5	455	12-6	
1590, 1592 (101)	Vol. Tone	R6762 R6451	6 57	H12 N			4758P	23	HD684					6	57, 58, 24A, 47, 80	175	3-8	
1590 (106)	Vol.	9070	15	N	6		9110 8876	1 17	2S567 BB12					6	58, 57, 55, 47, 80	175		
1590A (106)	Vol.	9070	15	N	6		9110 8876	1 17	2S567 BB12					6	58, 57, 55, 47, 80	175		
1591 (100.353)	Vol.	10024160558	124	TM243-SS1			10020160975 10020110377	23 13	Order from BB13	Mfr.				9	6U7G, 6K8G, 6Q7G, 6F6G, 5Y3G, 6U5	455	12-17, 18	
1592 (106)	Vol.	9070	15	N	6		9110 8876	1 17	2S567 BB12					6	58, 57, 55, 47, 80	175		
1592A, 1592B	Vol.	9070	15	N	6		9110 8876	1 17	2S567 BB12					6	58, 57, 55, 47, 80	175		
1594 (101)	Vol. Tone	R6762 R6454	6 57	H12 N			4758P	23	HD684					6	57, 58, 24A, 47, 80	175	3-8	
1596 (101)	Vol. Tone	R6762 R6454	6 22	H12 N			4758P	23	HD684					6	57, 58, 24A, 47, 80	175	3-8	
1597, 1598	Vol. Tone	R6762 R6570	6 57	H12 MR48			8, 8	23	HD684					6	39, 36, 89, 80	175	7-1, 2	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—	Continued																	
1600	Vol.	R7002	29	U	6		4-4	1	See Note	B3				4	24A, 27, 80	1000	3-1	
1620, 1622	Vol.	109248524	18	MR48	M26		109208525	24	2N514					4	32 or 34, 33		3-4,5	
1621 (109.355)	Vol.						109208525	24	2N514	B12				6	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-41	
1626	Vol.	R6944	15	N			8876	15	BB12					5	39, 36, 85, 41	175	3-2	
1630	Vol.	R6944	6	H12			7236	23	RS216					9	57, 58, 46, 56, 80	175	3-9,11	
	Tone	R6570	57	N			4958	23	HD684					12	57, 58, 46, 83, 56	175	3-12,13	
1640, 1641	Tone	R6570	22	N			R7325	34	WE350					10	58, 56, 27, 47, 80	175	6-7,9	
	Phantom	R7295	7	W			4758P	34	HD684					12	58, 56, 27, 46, 80	175	6-10,12	
1650	Vol.	R7385	15	O			4758	23	HD684					5	39, 36, 89, 80	175	6-13,15	
	Tone	R6571	57	N					RS216									
1652, 1654	Vol.	R7385	15	O			7236	23	HD684									
	Tone	R6571	57	N			4758	23	HD684									
1660	Vol.	R6944	6	H12			4758	23	HD684									
1661 (110.414), (110.415), (110.414)	Vol.	1102433	75	MR48	M26		1102058	46	TN129					6	12A8GT, 12K7GT, 61HGT, 12J5GT, 35L6GT, 35Z5GT	455	12-19	
							1102046	46	2N513	B12				11	58, 56, 27, 47, 80	175	6-16,19	
1670 (Early)	Vol.	R7385	15	O			4758	23	HD684					11	58, 56, 27, 47, 24A, 80	175	6-16,19	
	Tone	R6571	57	N					HD684					11	58, 56, 27, 47, 24A, 80	175	6-18	
1670 (Late) "B"	Vol.	R7385	15	O			4758	23	HD684					11	58, 56, 27, 47, 24A, 80	175	6-18	
	Tone	R6571	57	N					HD684									
1675	Vol.	R7385	15	O			4758	23	HD684					11	58, 56, 27, 47, 24A, 80	175	6-18	
	Tone	R6571	57	N					HD684									
1700	Vol.	R8059	68	D12	6		8053	29	CM175					5	6A7, 6B7, 77, 43, 25Z5	175	4-1,2	
							8058	15	BB12					4	78, 77, 43, 25Z5		4-3	
1702	Vol.	421	7	D	6		405	6	3N525					4	78, 77, 43, 1V	480	4-4,5	
1703	Vol.	R8304	6	UC509	6	EX300*	R8313	23	2P542					5	6A7, 78, 61B7, 43, 1V	175	4-6,7	
1704	Vol.	R8133	56	N	6		R8431	1	2P542					6	6A7, 78, 41, 85, 84	175	4-6,7	
1705	Vol.	R8515	19, 7	Order from Mfr.			R8624	23	RS213					5	41, 75, 78, 6A7, 84	480	4-8,9	
	Tone	R8598	57	O					HD684					8	78, 6A7, 75, 45, 37, 80	175	4-10,13	
1706, 1707	Vol.	R8414	18	N	6		R8408	23	HD684					5	41, 75, 78, 6A7, 84	480	4-8,9	
1708, 1709	Vol.	R8679	7/18	DRP317			R7236	23	RS216					8	78, 6A7, 75, 45, 37, 80	175	4-10,13	
	Tone	R6570	57	N			R8488	23	HD684					8	6A7, 78, 437, 42, 83V	175	5-61,62	
1708A	Vol.	R6570	62	N			R8488	23	HD684					8	6A7, 78, 437, 42, 83V	175	5-61,62	
	Tone	R6570	147	N					BB21/BB15					5	30, 950, 951	175	4-15,16	
1710	Vol.	R8402	29	U			R8389	13/19	BB21/BB15					5	950, 951, 30	175	4-17	
1711	Vol.	R8359	29	U			R8357	13/19	BB21/BB15					5	951, 30, 950	480	5-5,6	
1711A	Vol.		29	U					BB21/BB15					5	332, 34, 30, 33, 5E1	465		
1711X	Vol.	9611	6	H7										7	951, 30, 33	175	4-18,19	
1712, 1713	Tone	R6570	22	N			R8449	12/13/19	2N516/BB17	B183				8	951, 30, 950	175	4-20,21	
							R8707	12/13/19	2N516/BB12	B183				6	78, 6A7, 75, 41	175	5-7,8	
1714	Vol.	R7385	15	O										5	36, 39, 38, 37	175		
	Tone	R6570	34	N										10	78, 6A7, 75, 45, 37, 83V	175	4-22,23	
1715	Vol.	R8679	7/18	DRP317										11	78, 437, 2A3, 56, 83V	175	4-24,25	
	Tone	R6571	57	N	6									12	78, 437, 2A3-II, 6B7, 56, 83V	175	4-26,28	
1716	Vol.	A111	9	MR39			A117	1/15	3S579					12	78, 85, 56, 37, 2A3, 6B7, 5Z3	175	5-9,10	
	Tone	A110	22	MR39	M26									12	78, 85, 56, 37, 2A3, 6B7, 83V	175	4-29,30	
1720	Vol.	R8679	7/18	DRP317			R7236	23	RS216					10	78, 75, 37, 45, 6A7, 83V	175	4-22,23	
	Tone	R6571	57	N			D4758P	23	HD684					11	78, 437, 2A3, 56, 83V	175	4-24,25	
1721	Vol.	R8934	7/15	DRP317			R1114	4	BB60					11	78, 437, 2A3, 56, 83V	175	4-24,25	
	Tone	R6570	34	N			R7236	4	RS216					12	78, 85, 56, 37, 2A3, 6B7, 83V	175	5-11,19	
1722	Vol.	R8934	7/15	DRP317			R8780	13/14	2N518					12	78, 85, 56, 37, 2A3, 6B7, 83V	175	5-9,10	
	Tone	R6570	34	N			R7236	4	RS216					12	78, 85, 56, 37, 2A3, 6B7, 83V	175	4-29,30	
1722 (Revised)	Hum.	R9062	4	SRP266			R8780	13/14	2N518					12	78, 85, 56, 37, 2A3, 6B7, 83V	175	5-11,19	
	Vol.	R8934	7/17	DRP317										4	78, 77, 43, 25Z5			
	Tone	R6570	34	N			R9150	29	3S582					4	78, 77, 43, 25Z5			
1722X	Vol.	R8934	7/17	DRP317										10	78, 75, 37, 45, 6A7, 83V	175	4-22,23	
	Tone	R6570	34	N			R7236	4	RS216					11	78, 437, 2A3, 56, 83V	175	4-24,25	
1722X	Hum.	R9062	4	SRP266			R8780	13/14	2N518					11	78, 56, 85, 437, 2A3, 5Z3	175	5-15,16	
	Vol.	R8934	7/17	DRP317										11	78, 437, 2A3, 56, 83V	175	4-24,25	
	Tone	R6570	34	N			R8780	13/15	2N518					11	78, 56, 85, 437, 2A3, 5Z3	175	5-15,16	
1727	Vol.	554	1	G12			560	4	2S567					5	58, 57, 47, 80			
1728	Vol.	R8304	6	UC509	6	EX300	R8313	23	2P542					4	78, 77, 43, 1V		4-3	
1728A	Vol.	160	58	UC509			5-12-5	8	TN122					4	78, 77, 43, 25Z5		5-17	
							10	15	BB12	B6				7	78, 6A7, 737, 41, 80	175	5-19,20	
1729	Vol.	R9296	64	UC503			D4758P	23	HD684					7	78, 6A7, 737, 41, 80	175	5-19,20	
	Tone	R6571	22	N	6									5	78, 6A7, 85, 41	175	5-21,22	
1730	Vol.	R10172	56	UM154	6	See Note A96	R10086	4	BB60					5	78, 6A7, 85, 41	175	5-21,22	
	Tone	R9711	22	N														

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—	Continue																	
1832A	Vol. Tone	R10458, R10457A	106	N		6		R7236, R8488	23	RS216, 11D684					11	*78, 85, *37, *47, 41, 80.	445	6-35,36
1833	Vol. Tone	R11161A, R10742	106	N		6		R7236, R8488	23	RS216, 11D684					7	*58, 2A6, 47, *56, 80.	175	6-22,23
1835	Vol. Tone	R10458, R10457A	45	MR48				R7236, R11153	23	RS216, WE1830					9	*58, *56, 57, 2A5, 80.	456	7-5,6
1840	Vol. Tone	R10458, R10457	106	N		6		R7236, R8488	23	RS216, 11D684					9	*58, *56, 57, 2A5, 80.	480	6-37,39
1841	Vol. Tone	R11161, R10742	106	N		6		R7236, R8488	23	RS216, 11D684					7	*58, 2A6, 47, *56, 80.	175	6-20,21
1842	Vol. Tone	R10458, R10457	106	N		6		R7236, R11153	23	RS216, WE1830					8	*58, *56, 57, 2A5, 80.	480	6-37
1845	Vol. Tone	R11161A, R10742A	106	N		6		R7236, R8488	23	RS216, 11D684					7	*58, *56, 2A6, 47, 80.	175	6-22,23
1850	Vol. Tone	R10712, R10648	29	U				R10673	13/19	2N516/BB17					5	*951, 32, 33, 30.	175	5-41,42
1850A	Vol. Tone	R12101, R12100	29	U		7		R12117	13/19	2N516/BB17					5	*951, 32, 33, 30.	175	5-41
1851	Vol. Tone	R10712, R10648	29	U				R10673	13/19	2N516/BB17					5	*951, 32, 33, 30.	175	5-41
1852, 1853	Vol.		29	U				R8357	13/19	BB21/BB15					5	*951, 30, 950.	480	5-5,6
1854	Vol. Tone	R10556, R10529	61	N		7		R10555	13/19	2N516/BB12					9	*951, *950, *30, Ballast No. 31	175	5-43,44
1854A	Vol. Tone	R11161, R11174	45	N		6		R11300	13/19	2N516/BB15					9	*951, *30, *950, Ballast No. 31	175	7-7
1855, 1856 (3B Output)	Vol. Tone	R6570, R6571	56	N		6		R8488, .03-.03	40	11D684, Buffer			F294, F297	C13, C14	5	6A7, 78, 6B7, 38, 84.	480	5-45,46
1856 (33 Output)	Tone	R6570	22	N				R8449	12/13/19	2N516/BB17					7	*951, *30, 33, Ballast No. 31	175	4-18,19
1857	Tone	R10529	34	N		7		R10546	13/19	2N516/BB12					7	*951, *30, 33, Ballast No. 31	175	5-47,48
1857A	Vol. Tone	R11175A, R11174	68	D12		6		R11178	13/19	2N516/BB15					7	*951, 32, 33, *30, Ballast No. 31	175	6-40,41
1858	Vol. Tone	R10172, R9711	56	UM154	M26	See Note	A96	R10086	12	BB60					5	*78, 6A7, 85, 41	175	5-49,50
1859	Vol.	R1145	17	UM154	M26	See Note	A96	1138, 9328	1	2N518, TN111			271		4	6A7, 6D6, 6B7, 41	370	
1859A	Vol.	R1145	17	UM154	M26	See Note	A96	1138, 9328	1	2N518, TN111			271		4	6A7, 6D6, 6B7, 41	370	5-59,60
1860	Vol. Tone	R1322, R1382	18	MR48		6		1258, 9328	1	RS213, TN111			F251	C3	5	6A7, 6D6, 78, 38, 84.	465	
1862	Vol. Tone	R10712, R10648	29	U				R10673	13/19	2N516/BB17					5	*951, 32, 33, 30, Ballast No. 30	175	5-41,42
1863	Vol. Tone	608, 609	17	MR48	M26	See Note	A96								6	*6D6, 6A7, 85, *48	175	7-9,10
1864	Vol. Tone	R11638, R9711	17	UM163		See Note	A96	R11909	12/15	BB60/BB12					5	*78, 6A7, 85, 41	175	6-42,43
1865	Vol. Tone	608, 609	17	MR48	M26	See Note	A96								6	*6D6, 6A7, 85, *48	175	7-10
1866	Vol. Tone	R10556, R10529	61	N		7		R10555	13/19	2N516/BB12					9	*951, *950, *30, Ballast No. 31	175	5-43
1867	Vol. Tone	R11175A, R11174	68	D12		6		R11178	13/19	2N516/BB15					7	*951, 32, 33, *30, Ballast No. 31	175	6-41
1868	Vol. Tone	R10712, R10648	29	U				R10673	13/19	2N516/BB17					5	*951, 32, 30, 33, Ballast No. 30	175	5-41,42
1868A	Vol. Tone	R12101, R12100	29	U		7		R12117	13/19	2N516/BB17					5	*951, 32, 30, 33, Ballast No. 30	175	5-42
1869	Vol.	P5035	18	UM154		See Note	A96	P34, .02	1/15	3S579, Buffer			3260B, 294	C3	5	77, 78, 75, 41, 84	456	
1869X	Vol.	2B	18	UM154		See Note	A96	23B	1	2N518			294	C3	5	77, 78, 75, 41, 84	456	7-4
1870	Vol. Tone	R10712, R10648	29	U				R10673	13/19	2N516/BB17					5	*951, 32, 30, 33, Ballast No. 30	175	5-41,42
1871	Vol.	P5035	18	UM154		See Note	A96	P34, .02	1/15	3S579, Buffer			294	C3	6	*78, 77, 75, 41, 84 or 6Z4	262	
1900	Vol. Tone	452, 47A	18	MR48	M26	See Note	A5	656, 56A	1	2N518, BB12					6	6A7, 6D6, 75, *42, 80.	456	
1903	Vol.	64A	18	MR48	M26	See Note	A5	68A, 69A	8	BB21, BB24					5	6A7, 6D6, 75, 43, 25Z5	456	7-11
1903X	Vol.	104B	18	MR48	M26	See Note	A4	16-16	27	2P546					5	6A7, 6D6, 75, 43, 25Z5	456	
1904, 1904A	Vol. Tone	R13467	21	N		6		R12478, R12451	23	RS213					6	6A7, 6K7G, 75, 6F6G, 6C5G, 81	175	6-44,45
1905	Vol.	R12648	18	MR48				R7236, R12840	23	RS216, WE1830					8	6D6, 41, 6K7MG, 75, 6C5MG, *6F6MG, 80	175	7-12,14
1906	Tone	R13467	21	N		6		R12478, R12451	23	RS213					6	6A7, 6K7G, 75, 6F6G, 6C5G, 81	175	6-44,45
1907	Vol.	P385	18	MR48				P160	1	2N518					5	6A7, 6D6, 75, 42, 80.	456	
1908	Vol. Tone	R13467	21	N		6		R12478, R12451	23	RS213					6	6A7, 6K7G, 75, 6F6G, 6C5G, 81	175	6-44,45

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS								CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note					
SEARS-ROEBUCK— 1909.....	Continued Vol.	R12648.....	18	MR48.....					R12656..... R12840.....	23 23	RS216..... WE1830.....				7	6A8MG, 6K7MG, 6Q7MG, 6C5MG, 76F6MG, 5Z4MG.....	175 456	7-15,16	
1910.....	Vol. Tone	452..... 47A.....	18 22	MR48..... MR48.....	M26				656..... 56A.....	1 15	2N518..... BB12.....				6	6A7, 6D6, 75, 42, 80.....	175	7-15,16	
1911.....	Tone	R13467.....	21	N.....	6	A4			R12478..... R12451.....	23 23	RS213..... RS213.....				6	6A7, 6K7G, 75, 6F6G, 6C5G, 84.....	175	6-45,41	
1912.....	Vol.	R12648.....	18	MR48.....					R12656..... R12840.....	23 23	RS216..... WE1830.....				7	6A8MG, 6K7MG, 6Q7MG, 6C5MG, 76F6MG, 5Z4MG.....	175	7-15,16	
1914.....	Tone	R13467.....	21	N.....	6	A4			R12478..... R12451.....	23 23	RS213..... RS213.....				6	6A7, 6K7G, 75, 6F6G, 6C5G, 84.....	175	6-44,45	
1915.....	Vol.	R12648.....	18	MR48.....					R7236..... R12840.....	23 23	RS216..... WE1830.....				8	6D6, 1L, 6K7MG, 75, 6C5MG, 76F6MG, 80.....	175	7-13,14	
1917.....	Vol.	R12633.....	127	MR53.....					R7236..... R11153.....	23 23	RS216..... WE1830.....				10	7B, 76K7G, 76, 75, 6C5G, 76F6G, 5Z3, 6D6, 6A7, 76K7G, 75, 76C5G, 445, 5Z3.....	385	7-17,19	
1918.....	Vol. Tone	R12595..... R12596.....	108 108	MR53..... MR53.....	M26				R12656.....	30	RS216.....				12	76K7MG, 6A8MG, 75, 45, 76C5MG, 5Z3, IC6, 1A4, 1B5, 230, 950, 1G1.....	385	7-20,22	
1918A.....	Vol. Tone	R12595..... R12596.....	108 108	O..... O.....	6				R12656.....	30	RS216.....				12	76K7MG, 6A8MG, 75, 45, 76C5MG, 5Z3, IC6, 1A4, 1B5, 230, 950, 1G1.....	385	7-23,25	
1919.....	Vol. Tone	R13911..... R13583.....	15 21	UM154..... MR53.....		See Note A96			R12117.....	19	2N516/BB15				5	IC6, 1A4, 1B5, 230, 950, 1G1.....	175	8-5	
1920.....	Vol.	R12163.....	9	HI2.....	M27										4	IC6, 1A4, 32, 950, 1B1 Ballast.....	480	6-46,47	
1921.....	Vol. Tone	R10712..... R10648.....	29 34	U..... N.....					R10673.....	13/19	2N516/BB17				5	951, 32, 30, 33, Bal- last No. 30.....	175	5-42	
1922.....	Vol. Tone	R12101..... R12100.....	29 34	U..... N.....	7										5	951, 232, 233, 230, 1A2.....	175	.....
1922A.....	Vol. Tone	R12741..... R13077.....	68 34	Order from N.....	Mfr..... 7				R12117.....	13/19	2N516/BB15				5	IC6, 1A4, 32, 950, 30, 1G1 Ballast.....	175	6-48,49	
1923.....	Vol. Tone	R12371..... R12457.....	68 34	Order from MR48.....	Mfr.....				R12117.....	13/19	2N516/BB15				6	IC6, 1A4, 32, 30, 950, 1E1.....	175	7-26,27	
1924.....	Vol. Tone	2198..... 2282.....	45 22	UM154-SS16 MR33.....	M27				2272 .02	1	CM164 Buffer.....		2269	245A	C3	6	IC6, 34, 330, 19.....	465
1925.....	Vol. Tone	R12177..... R12195.....	18 44	MR48..... N.....	6										6	6A7, 6D6, 75, 76, 748.....	456	7-28,29	
1926.....	Vol.	R12163.....	9	HI2.....											4	IC6, 1A4, 32, 950, 1B1 Ballast.....	480	6-46	
1927, 1927X.....	Vol. Tone	2198..... 2331.....	45 22	UM154-SS16 MR33.....	M24				2289	12	BB21.....				6	IC6, 34, 330, 19.....	456	7-31	
1928.....	Vol.	R12163.....	9	MR29.....											4	IC6, 1A4, 951 or 32, 950, 1B1.....	480	7-30	
1929.....	Vol. Tone	R13911..... R13583.....	56 21	UM154..... MR53.....		See Note A96			R12117.....	13/19	2N516/BB15				5	IC6, 1A4, 1B5, 230, 950, 1G1.....	175	8-5	
1930.....	Vol. Tone	RC410..... RC405.....	18 34	N..... K12.....					CC21..... 10.....	23 19	RS213..... BB12.....				7	6A7, 6K7, 76, 6C5, 75, 6F6, 80.....	456	7-32	
1931.....	Vol. Tone	R19712..... R10648.....	29 34	U..... N.....					R10673.....	13/19	2N516/BB17				5	951, 32, 30, 33, Bal- last No. 30.....	175	5-42	
1932.....	Vol. Tone	R12101..... R12100.....	29 34	U..... N.....	7										5	951, 232, 233, 230, 1A2.....	175	.....
1932A.....	Vol. Tone	R12741..... R13077.....	68 34	Order from N.....	Mfr..... 7				R12117.....	13/19	2N516/BB15				5	IC6, 1A4, 32, 950, 30, 1G1 Ballast.....	175	6-48,49	
1933.....	Vol. Tone	R12371..... R12457.....	68 34	Order from MR48.....	Mfr.....				R12117.....	13/19	2N516/BB15				6	IC6, 1A4, 32, 30, 950, 1E1.....	175	7-26,27	
1933A.....	Vol. Tone	R14066..... R14065.....	15 57	Order from MR53.....	Mfr.....				R12117.....	13/19	2N516/BB15				6	IC6, 1A4, 1B5, 330, 950, 1E1.....	175	7-33,34	
1934.....	Vol. Tone	2198..... 2282.....	45 22	MR48..... MR33.....	M27				2272 .02	1	CM164 Buffer.....		2269	245A	C3	6	IC6, 34, 330, 19.....	465
1935.....	Vol. Tone	R12177..... R12195.....	18 44	MR48..... N.....	6										6	6A7, 6D6, 75, 76, 748.....	456	7-28,29	
1936.....	Vol. Tone	R12371..... R12457.....	68 44	Order from N.....	Mfr.....				R12488.....	13/19	2N516/BB12				9	IC6, 1A4, 330, 32 or 951, 950.....	175	7-35,36	
1937, 1937X.....	Vol. Tone	2198..... 2331.....	45 22	UM154-SS16 MR33.....	M24				2289	12	BB21.....				6	IC6, 34, 330, 19.....	456	7-31	
1938.....	Vol. Tone	R13467.....	21	N.....	6	A4			R12478..... R12451.....	23 23	RS213..... RS213.....				6	6A7, 6K7G, 75, 6F6G, 6C5G, 84.....	175	6-44,45	
1939.....	Vol. Tone	P385..... RC410.....	18 18	MR48..... MR48.....					P160..... 8, 8.....	1 23	2N518..... RS213.....				5	6A7, 6D6, 75, 42, 80.....	456	.....
1940.....	Vol. Tone	RC405.....	34	K12.....					10.....	19	BB12.....				7	6A7, 6K7, 76, 6C5, 75, 6F6, 80.....	456	7-32	
1941.....	Vol. Sen.	A15253..... A15377.....	15 7	MR53..... A.....	M26				A15236..... A15237..... A15258.....	25 25 14/15	WE3050..... SH644..... 2N518.....				9	76K7, 6L7, 6116, 6C5, 76F6, 5Y3.....	262.5	7-43,44	
1942.....	Vol. Tone	R12648..... R14029.....	18 22	MR48..... MR48.....	M26				R12656..... R12840.....	23 23	RS216..... WE1830.....				8	6A8MG, 6K7MG, 6Q7MG, 6E5, 6C5MG, 76F6MG, 5Z4MG.....	175	7-15,16	
1943.....	Vol. Tone	R12371..... R12457.....	68 34	Order from MR48.....	Mfr.....				R12117.....	13/19	2N516/BB15				6	IC6, 1A4, 32, 30, 950, 1E1.....	175	7-26	
1944.....	Vol. Tone	R12648..... R14029.....	18 22	MR48..... MR48.....	M26				R12656..... R12840.....	23 23	RS216..... WE1830.....				8	6A8MG, 6K7MG, 6Q7MG, 6E5, 6C5MG, 76F6MG, 5Z4MG.....	175	7-15,16	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—	Continued																	
1945	Vol. Tone	R12595 R13467	127 22	MR53 MR48				R13903 R13901	23 23	WE3050 RS216				10	6K7MG, 6L7MG, 6Q7MG, 6C5MG, 6E5, 6F6MG, 5Z4MG	385	7-37,38	
1946	Vol. Tone Sen.	R13843 R14228 R13801	20 22 105	TM240-SS1 MR42 N	M26		A4	R12656 R13806	30 15/19	RS216 TN111				13	6K7MG, 6L7MG, 6C5MG, 6E5, 6F5MG, 6F6MG, 5Z4MG	385	7-39,40	
1947, 1948	Vol. Tone	R13911 R13583	15 21	UM154 MR53	M27		A96	R12117	13/19	2N516/BB15				5	1C6, 1A4, 1B5, 230, 950, 1G1	175	8-7	
1949	Vol.	105B	18	UM154	M26		A96	130E	1/15	3S579 Buffer	B14	294	C3	5	6A7, 6D6, 75, 41, 84	175	8-9	
1949A	Vol.	105B	18	UM154	M26		A96	130E .015	1/15	3S579 Buffer	B14	294	C3	5	6A7, 6D6, 75, 41, 84	175	8-10	
1953	Vol.	64A	18	MR48	M26			68A 69A	8 8	BB21 BB24				5	6A7, 6D6, 75, 43, 25Z5	156	7-11	
1953X	Vol.	104B	18	MR48	M26			16-16	27	2P546				5	6A7, 6D6, 75, 43, 25Z5	156	7-11	
1954	Tone	R13467	21	N	6		A4	R12478 R12451	23 23	RS213 RS213				6	6A7, 6K7G, 75, 6F6G, 6C5G, 84	175	6-45	
1954X	Vol.	P517	15	MR48				P474 P160	32 32	WE450 2N516				6	6A7, 6K7G, 6C5G, 75, 6F6G, 80	456	7-41,42	
1955	Vol.	R12648	18	MR48				R7236 R12840	23 23	RS216 WE1830				8	6D6, 1L, 6K7MG, 75, 6C5MG, 6F6MG, 80	175	7-13,14	
1956	Vol. Tone	RC410 RC405	18 34	MR48 K12				CC21 C20	23 19	RS213 BB12				7	6A7, 6K7, 76, 6C5, 75, 6F6, 80	175	7-32	
1956X	Vol.	P385	75	MR48				P474 P160	32 32	WE450 2N518				7	6A8, 6K7, 6H6, 6A6, 6F6, 80	456		
1957	Vol.	P385	18	MR48				P160	1	2N518				5	6A7, 6D6, 75, 42, 80	456		
1962	Vol.	R12648	18	MR48				R12656 R12840	23 23	RS216 WE1830				7	6A8MG, 6K7MG, 6Q7MG, 6C5MG, 6F6MG, 5Z4MG	175	7-15,16	
1964, 1964A	Tone	R13467	21	N	6		A4	R12478 R12451	23 23	RS213 WE1825				6	6A7, 6K7G, 75, 6F6G, 6C5G, 84	175	6-41,45	
1965	Vol.	R12648	18	MR48				R13058 R7236 R12840	13 23 23	BB21 RS216 WE1830				8	6D6, 1L, 6K7MG, 75, 6C5MG, 6F6MG, 80	175	7-13,14	
1967	Vol.	R12633	127	MR53				R7236 R1153	23 23	RS216 WE1830				10	78, 6K7G, 76, 75, 6C5G, 6F6G, 5Z3	385	7-17,19	
1967A, 1967C	Vol.	R12633	127	MR53				R7236 R1153	23 23	RS216 WE1830				10	6K7MG, 6L7MG, 6C5MG, 6K7G, 75, 6C5G, 6F6G, 5Z3	385	7-17,19	
1968	Vol. Tone	R12595 R12596	108 108	MR53 MR53				R12656	30	RS216				12	6D6, 6A7, 6K7G, 75, 6C5G, 445, 5Z3	385	7-20,22	
1968A	Vol. Tone	R12595 R12596	108 108	O O				R12656	30	RS216				12	6K7MG, 6A8MG, 75, 6C5MG, 445, 5Z3	385	7-23,25	
1970	Vol. Tone	95A 96A	18 34	MR48 MR33	M26			94A	23	RS213				7	6A7, 76, 6K7, 6C5, 75, 6F6, 80	456	8-11	
1970A	Vol. Tone	RC410 RC405	18 34	MR48 K12				CC21 C20	23 19	RS213 BB12				7	6A7, 6K7, 76, 6C5, 75, 6F6, 80	156	7-32	
1971	Vol. Tone	R11638 R9711	17 22	UM163 N			See Note A96	R11909	12/15	BB60/BB12				5	78, 6A7, 85, 41	175	6-42	
1972	Vol. Tone	R12648 R14029	18 22	MR48 MR48	M26			R12656 R12840	23 23	RS216 WE1830				8	6A8MG, 6K7MG, 6Q7MG, 6E5, 6C5MG, 6F6MG, 5Z4MG	175	7-15,16	
1978, 1980A	Vol.	R12163	1	1H12										4	1C6, 1A4, 951 or 32, 950, 1B1	480	7-30	
1981, 1981C, 1981CX	Vol. Sen.	A15253 A15377	15 7	MR53 A	M26			A15236 A15237 A15258	25 25 14/15	WE3050 SR644 2N518				9	6K7, 6L7, 6H6, 6C5, 6F6, 5Y3	262.5	7-43,44	
1982	Vol. Tone	R12101 R12100	29 34	Order from N										5	951, 232, 233, 230, 1A2	175		
1982A (315)	Vol. Tone	R12741 R13047	68 34	Order from N	Mfr.			R12117	13/19	2N516/BB15				5	1C6, 1A4, 32, 950, 30, 1G1 Ballast	175	6-48,49	
1982A (315X)	Vol. Tone	R13911 R13583	56 21	SRP275 MR53	M27			R12117	13/19	2N516/BB15				5	1C6, 1A4, 1B5, 230, 950, 1G1	175	8-5	
1983	Vol. Tone	R12371 R12457	68 34	D12 MR48				R12117	13/19	2N516/BB15				6	1C6, 1A4, 32, 30, 950, 1E1	175	7-26,27	
1983A	Vol. Tone	R14066 R14065	15 57	N MR53				R12117	13/19	2N516/BB15				6	1C6, 1A4, 1B5, 230, 950, 1E1	175	7-33,34	
1984	Vol. Tone	R13467	21	N	6		A4	R12478 R12451	23 23	RS213 RS213				6	6A7, 6K7G, 75, 6F6G, 6C5G, 84	175	6-41,45	
1985	Vol. Tone	R12177 R12195	18 44	SRP275 N	6									6	6A7, 6D6, 75, 76, 78	456	7-28,29	
1986, 1987 (100.150)	Vol. Tone	1002488676 1002588677	18 57	MR48 MR48	M26			1002088679 1002088680	25 25	RS216 RS213				6	6A7, 6D6, 6H6G, 6F5G, 6B5, 80	262	8-13	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK— 1986, 1987 (101.407)	Continue d	1012443181	75	MR44	M26		A27	1012014573	23	RS216					6	6A7, 78, 6H16H, 6F5G, 6B5, 84	262	7-45, 16
	Vol.	1012443303	15	MR53	M26		A4	1012012451	23	RS213								
1988 (101.408)	Tone	1012514183	57	MR48				1012014213	1	CM 172					5	6A7, 6D6, 75, 6B5, 1V	165	7-17, 18
	Vol.	101244214	17	MR53				1012014573	1	RS216	B12							
1989 (101.414)	Vol.	1012444083	12	Y25MP	7			101209141	19	BB12					4	1C6, 1A4, 951, 1F4	165	7-49, 50
	Vol.	R12101	29	Order from	Mfr.			R12117	13/19	2N516/BB15					5	951, 232, 233, 230, 1A2	175	
1992A (101.345)	Tone	R12100	34	N	7			R12117	13/19	2N516/BB15					5	1C6, 1A4, 32, 950, 30, 1G1	175	6-48, 19
	Vol.	R13077	34	N	7			2289	12	BB21					5	1C6, 34, 1B5, 30, 19	456	7-51
1992X	Vol.	2290	18	N	14			R12117	13/19	2N516, BB15					6	1C6, 1A4, 32, 30, 950, 1E1	175	7-26, 27
	Tone	2162	22	MR29				2289	13	BB21					6	1C6, 34, 30, 19	165	7-52
1993 (101.334)	Vol.	R12371	68	D12				R12117	13/19	2N516, BB15					6	1C6, 1A4, 32, 30, 950, 1E1	175	7-26, 27
	Tone	R12457	34	MR48			A27	2289	13	BB21					6	1C6, 34, 30, 19	165	7-52
1993X (101.334X)	Vol.	2198	45	UM154-SS16											6	6A7, 6D6, 75, 76, 1A8	456	7-28, 29
	Tone	2331	22	MR33	M24										6	6A7, 6D6, 75, 76, 1A8	456	7-28, 29
1995	Vol.	R12177	18	SRP275											6	6A7, 6D6, 75, 76, 1A8	456	7-28, 29
	Tone	R12195	44	N	6										6	6A7, 6D6, 75, 76, 1A8	456	7-28, 29
1996 (101.359, 101.359X)	Vol.	R12371	68	D12			A27	R12488	13/19	2N516/BB12					9	1C6, 1A4, 30, 32 or 951, 950	175	7-35, 36
	Tone	R12457	44	N				R12656	23	RS216					7	6A8MG, 6K7MG, 6Q7MG, 6C5MG, 6P6MG, 5Z4MG	262	7-53, 54
1998	Vol.	R13930	18	MR44				R12840	23	WE1830					7	6A8MG, 6K7MG, 6Q7MG, 6C5MG, 6P6MG, 5Z4MG	262	7-53, 54
	Vol.	R13930	18	MR44				R12840	23	WE1830					7	6A8MG, 6K7MG, 6Q7MG, 6C5MG, 6P6MG, 5Z4MG	262	7-53, 54
1999 (101.345X)	Vol.	R13911	15	SRP275				R12117	13/19	2N516/BB15					5	1C6, 1A4, 1B5, 230, 950, 1G1	175	8-5
	Tone	R13583	57	MR53	M27			1012019891	12	BB22					5	1A7GT, 1N5GT, 1H5GT, 1A5G/GT	455	
2011 (101.642)	Vol.	1012444452	18	Order from	Mfr.			1012019891	12	BB22					5	1A7GT, 1N5GT, 1H5GT, 1A5G/GT	455	
2051 (101.642)	Vol.	1012444452	18	Order from	Mfr.			1012019891	12	BB22					5	1A7GT, 1N5GT, 1H5GT, 1A5G/GT	455	
2061 (101.602)	Vol.	1012443234	17	MR55				1012018184	1/15	2N502/BB12		1015114840	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GH, 6G6G, 6AB5	155	12-20
	Vol.	1012018672	78	Buffer			B14	1012019891	12	BB22					5	1A7GT, 1N5GT, 1H5GT, 1A5G/GT	455	
2411 (101.642)	Vol.	1012444452	18	Order from	Mfr.			1012018184	1/15	2N502/BB12		1015114840	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GH, 6G6G, 6AB5	155	12-20
2421 (101.602)	Vol.	1012443234	17	MR55				1012018672	78	Buffer		B14			5	1A7GT, 1N5GT, 1H5GT, 1A5G/GT	455	
	Vol.	1012018672	78	Buffer			B14	1012019891	12	BB22					5	1A7GT, 1N5GT, 1H5GT, 1A5G/GT	455	
2451 (101.641)	Vol.	1012442433	18	MR48				1012019891	12	BB22					6	1A7GT, 1N5GT, 1H5GT, 1A5G/GT	455	
2461 (101.643)	Vol.	1012444528	18	UM154			A96	1012019891	12	BB22					6	1A7GT, 1N5GT, 1H5GT, 1A5G/GT	455	
2511 (101.605)	Vol.	1012442450	18	MR48				1012019891	12	BB22					5	1A7G, 1N5G, 1H5G, 1A5G	455	12-21, 22
2511 (101.642)	Vol.	1012444452	18	Order from	Mfr.			1012019891	12	BB22					5	1A7GT, 1N5GT, 1H5GT, 1A5G/GT	455	
2541 (101.603)	Vol.	1012440005	18	MR48	M27			1012019891	12	BB22					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-23, 24
2551 (101.604)	Vol.	1012442433	18	MR48				1012019891	12	BB22					5	1A7G, 1N5G, 1H5G, 1A5G	455	12-25, 26
2611 (101.605)	Vol.	1012442450	18	MR48				1012019891	12	BB22					5	1A7G, 1N5G, 1H5G, 1A5G	455	12-25, 26
2641 (101.603)	Vol.	1012440005	18	MR48	M27			1012019891	12	BB22					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-21, 22
2651 (101.604)	Vol.	1012442433	18	MR48				1012019891	12	BB22					5	1A7G, 1N5G, 1H5G, 1A5G	455	12-23, 24
2711 (101.605)	Vol.	1012442450	18	MR48				1012019891	12	BB22					5	1A7G, 1N5G, 1H5G, 1A5G	455	12-25, 26
2741 (101.603)	Vol.	1012440005	18	MR48	M27			1012019891	12	BB22					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-21, 22
2751 (101.604)	Vol.	1012442433	18	MR48				1012019891	12	BB22					5	1A7G, 1N5G, 1H5G, 1A5G	455	12-23, 24
2761 (101.606)	Vol.	1012442872	18	MR48				1012019891	12	BB22					6	1A7G, 1N5G, 1H5G, 1A5G	455	12-25, 26
3011 (132.810)	Vol.	1322417126	18	MR53	M26			1322017140	79/15	TN129					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-25-27
3041 (132.804)	Vol.	1322416763	18	Order from	Mfr.		A5	1322016838	1/15	3N534					4	12K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-28, 30
3051 (109.352)	Vol.	109248389	18	MR48	M26			109208391	24	F1D208					5	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	
3061 (109.354, A, B, C)	Vol.	109248524	18	MR48	M26			109208525	24	2N514					6	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-30
3111 (132.810)	Vol.	1322417126	18	MR53	M26			1322017140	79/15	TN129					5	12SA7GT, 12SK7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-30
3141 (132.804)	Vol.	1322416763	18	Order from	Mfr.		A5	1322016838	1/15	3N534					4	12K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-28, 30

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK— 3151 (109.352).....	Continued Vol.	109248389..	18	MR48.....	M26			109208391..	24	FPD208.....					5	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	
3161 (109.354, A, B, C).....	Vol.	109248524..	18	MR48.....	M26			109208525..	24	2N514.....					6	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-30
3211 (132.810).....	Vol.	1322417126.	18	MR53.....	M26			1322017140.	79/15	TN129.....					5	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	
3241 (132.804).....	Vol.	1322416763.	18	Order from	Mfr.		A5	1322016838.	1/15	3N534.....				4	12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..		12-28,30	
3251 (109.352).....	Vol.	109248389..	18	MR53.....	M26			109208391..	24	FPD208.....				5	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455		
3261 (109.354, A, B, C).....	Vol.	109248524..	18	MR48.....	M26			109208525..	24	2N514.....				6	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-30	
3311 (132.803).....	Vol.	1322416671.	18	Order from	Mfr.		A5	1322016707.	1	2N514.....				5	12A8GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z4GT..	455	12-31	
3321 (109.357).....	Vol.	109248524..	18	MR48.....	M26			109208525..	24	2N514.....				6	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-32	
3341 (132.805).....	Vol.	1322416763.	18	Order from	Mfr.		A5	1322016838.	1/15	3N534.....				4	12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..		12-33	
3351 (132.802).....	Vol.	1322416671.	18	Order from	Mfr.		A5	1322016719.	1	2N502.....				5	12A8GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z4GT..	455	12-34	
3361 (109.356).....	Vol.	109248524..	18	MR48.....	M26			109208525..	24	2N514.....				6	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-35	
3411 (132.803).....	Vol.	1322416671.	18	Order from	Mfr.		A5	1322016707.	1	2N514.....				5	12A8GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z4GT..	455	12-31	
3421 (109.357).....	Vol.	109248524..	18	MR48.....	M26			109208525..	24	2N514.....				6	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-32	
3441 (132.805).....	Vol.	1322416763.	18	Order from	Mfr.		A5	1322016838.	1/15	3N534.....				4	12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..		12-33	
3451 (132.802).....	Vol.	1322416671.	18	Order from	Mfr.		A5	1322016791.	1	2N502.....				5	12A8GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z4GT..	455	12-34	
3461 (109.356).....	Vol.	109248524..	18	MR48.....	M26			109208525..	24	2N514.....				6	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-35	
3511 (132.803).....	Vol.	1322416671.	18	Order from	Mfr.		A5	1322016707.	1	2N514.....				5	12A8GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z4GT..	455	12-31	
3521 (109.357).....	Vol.	109248524..	18	MR48.....	M26			109208525..	24	2N514.....				6	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-32	
3541 (132.805).....	Vol.	1322416763.	18	Order from	Mfr.		A5	1322016838.	1/15	3N534.....				4	12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..		12-33	
3551 (132.802).....	Vol.	1322416671.	18	Order from	Mfr.		A5	1322016719.	1	2N502.....				5	12A8GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z4GT..	455	12-34	
3561 (109.356).....	Vol.	109248524..	18	MR48.....	M26			109208525..	24	2N514.....				6	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-35	
3611 (132.811).....	Vol.	1322417126.	18	MR53.....	M26			1322014403.	79/15	3N534.....				5	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455		
3621 (109.356).....	Vol.	109248524..	18	MR48.....	M26			109208525..	24	2N514.....				6	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455		
3651 (109.353).....	Vol.	109248389..	18	MR48.....	M26			109208630..	24	2N509.....				5	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-36	
3661 (109.355).....	Vol.	109248524..	18	MR48.....	M26			109208525..	24	2N514.....				6	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-41	
3711 (132.811).....	Vol.	1322417126.	18	MR53.....	M26			1322014403.	79/15	3N534.....				5	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455		
3721 (109.357).....	Vol.	109248524..	18	MR48.....	M26			109208525..	24	2N514.....				6	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-32	
3751 (109.353).....	Vol.	109248389..	18	MR48.....	M26			109208630..	24	2N509.....				5	12SA7GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT..	455	12-36	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK— 4131, 4432 (101.443)	Continued Vol.	1012415547.	17	MR55	M27										4	1C7G, 1F7G, 1D5G, 1F5G.	465	9-15
4433 (101.432)	Vol. Tone	1012414784. 1012514252.	17 57	MR55 MR48	M26			1012014874. 1012014574. 1012014478. .012-.012	1 1 13	BB63 BB61 BB41		1015114840.	246	C3	6	*6S7G, 6D8G, 6Q6G, 1H4G, 6K6G.	465	9-7
4434 (104.127)	Vol.	1042487	18	MR48	M26			1012011 .01	1/15	3S579 Buffer	B14	1045113	246	C3	4	6K8G, 6S7G, 6Q6G, 6K6G or 6A8G, 6K7G, 6Q7G, 6K6G, 1F5G.	456	8-19
4435, 4436 (101.443)	Vol.	1012415547.	17	MR55	M27										6	1C7G, 1D5GP, *1H4G, 1H6G, 1E7G, 1H6G, 6N5, *1H4G, 1J6G.	465	9-15
4437, 4438 (101.447)	Vol. Tone	1012415883. 1012515507.	15 149	MR55 MR39				1012015576.	12/13	2N507					6	1C7G, 1D5GP, *1H4G, 1H6G, 1E7G, 1H6G, 6N5, *1H4G, 1J6G.	465	9-19
4439, 4440 (101.448)	Vol. Tone	1012415748. 1012515747.	17 44	Order from MR39	Mfr.			1012015803.	12/13	2N502					8	*1D5G, 1C7G, 1H6G, 1H4G, 1J6G.	465	8-28
4441 (101.450)	Vol. Tone	1012415959. 1012514726.	17 21	Order from MR48	Mfr. M26			1012015882. 1012015726. .02-.02	1/13	BB42 ST589/BB31 Buffer	B14	1015114840.	246	C3	8	*1D5GP, 1C7G, 1H6G, 6N5, *1H4G, 1J6G.	465	8-31
4442, 4443 (101.415)	Vol. Tone	1012414156. 1012514144.	15 57	MR48 MR48	M27			1012014142.	13/19	2N516/BB15					5	1C6, 1A4, 1B5, 1F4, 30, 1P1	465	7-59,60
4444 (101.416)	Vol. Tone	1012414252. 1012514183.	15 57	MR48 MR18	M27			1012015136. 1012015137.	13 19	2N516 BB15					6	*1A4, 1C6, 1B5, 30, 1F4.	465	7-55,56
4445 (101.416)	Vol. Tone	1012414252. 1012514183.	15 57	MR18 MR48	M27			1012015136. 1012015137.	12/13 19	2N516 BB15					6	*1A4, 1C6, 1B5, 30, 1F4.	465	7-55,56
4446, 4446A (101.417A)	Vol. Tone	1012414579. 1012514141.	17 41	MR55 MR18				1012014578.	12/13	2N516					8	1C6, *1A4, 1B5, *230, 19.	465	8-25
4447 (101.417, 101.417A)	Vol. Tone	1012414579. 1012514141.	17 41	MR55 MR18				1012014578.	12/13	2N516					8	*1A4, 1C6, 1B5, *230, 19.	465	8-25
4448 (101.419)	Vol. Tone	1012414183. 1012514252.	127 57	MR48 MR48	M26			1012014289. 1012014478. .006	1 13	CM172 BB41 Buffer	B14	1015113001.	294	C3	6	6A8G, 1D5G, *1H4G, 1F5G, 6N5G	465	7-57,58
4448A (101.432)	Vol. Tone	1012414784. 1012514252.	17 57	MR55 MR48	M26			1012014874. 1012014574. 1012014478. .012-.012	1 1 13	BB63 BB61 BB41 Buffer	B14	1015114840.	246	C3	6	*6S7G, 6D8G, 1H4G, 6Q6G, 6K6G.	465	7-61,62
4449 (101.437)	Vol. Tone	1012414303. 1012514710.	18 57	MR53 MR53	M26										6	6A7, 6D6, 75, 76, 48.	465	9-11
4450 (101.420)	Vol. Tone	1012414579. 1012514726.	17 41	MR55 MR48	M26			1012014874. 1012014734. .006	1 1	BB63 CM164/BB12 Buffer	B14	1015114300.	294	C3	9	*1D5G, 6A8G, 6G5, 1H6G, *1H4G, 1J6G.	465	8-33
4451 (101.450)	Vol. Tone	1012415959. 1012514726.	17 21	Order from MR48	Mfr. M26			1012015726. 1012015882. .02-.02	1/13 1	ST589/BB31 BB42 Buffer	B14	1015114840.	246	C3	8	*1D5GP, 1C7G, 1H6G, 6N5, *1H4G, 1J6G.	465	8-31
4453	Vol. Tone	1012414784. 1012514252.	17 57	MR55 MR48	M26			1012014874. 1012014574. 1012014478. .012-.012	1 1 3	BB63 BB61 BB41 Buffer	B14	1015114840.	246	C3	6	*6S7G, 6D8G, 6Q6G, 1H4G, 6K6G.	465	9-7
4455, 4456 (101.448)	Vol. Tone	1012415748. 1012515747.	17 44	Order from MR39	Mfr.			1012015803.	12/13	2N502					8	*1D5G, 1C7G, 1H6G, 1H4G, 1J6G.	465	8-28
4459 (101.449)	Vol. Tone	1012415818. 1012515819.	17 44	Order from L	Mfr. 6			1012015971. 1012015882. .02-.02	1/13 1	3S582 BB42 Buffer	B14	1015114840.	246	C3	6	*1D5GP, 6K8G, 6T7G, 1J4G, 1J6G.	465	8-17
4461, 4462 (101.408)	Vol.	1012414214.	17	MR53				1012014213. 1012014573.	1 1	CM172 RS216					5	6A7, 6D6, 75, 6B5, 1V	465	7-47,48
4463, 4464 (100.150)	Vol. Tone	1002488676. 1002588677.	18 57	MR18 MR48	M26			1002088679. 1002088680.	25 25	RS216 RS213					6	6A7, 6D6, 6H6G, 6F5G, 6B5, 80.	262	8-13
4463, 4464 (101.407)	Vol. Tone	1012414184. 1012414303.	45 15	MR44 MR53	M26 M26		A27 A4	1012014573. 1012012451.	23 23	RS216 RS213					6	6A7, 78, 6H6G, 6F5G, 6B5, 81.	262	7-45,46
4465 (100.151)	Vol. Tone	1002488676. 1002588677.	45 21	MR44 N	M26			1002088679. 1002088680.	25 25	RS216 RS213					8	*6K7G, 6C5G, 6L7G, 6Q7G, 6N6G, 6G5, 5Y3.	456	9-21
4465 (101.410)	Vol. Tone	1012414365. 1012514144.	17 57	MR55 MR48	M26			1012013903. 1012014360.	13 1	WE3050 WE1830					8	*6K7G, 6L7G, 6C5G, 6Q7G, 6G5, 6N6G, 5Y3.	465	8-35,38
4466, 4467, 4469 (101.218)	Vol.	1012413	18	MR48	M26			1042012	23	2S563					5	6A7, 6D6, 75, 42, 80.	456	9-24
4468 (101.454)	Vol. Tone	1012415663. 1012514183.	127 57	MR55 MR48	M26			1012014573. 1012012451.	1 1	RS216 RS213					6	6A8G, 6K7G, 6H6G, 6N6G, 6H5, 6X5G.	262	8-39
4470 (101.454)	Vol. Tone	1012415663. 1012514183.	127 57	MR55 MR48	M26			1012014573. 1012012451.	1 1	RS216 RS213					6	6A8G, 6K7G, 6H6G, 6N6G, 6H5, 6X5G.	262	8-39
4471 (104.222)	Vol.	1042413	18	MR48	M26			1042020	4	2P546					5	6A7, 6D6, 75, 43, 25Z5	456	
4472, 4473 (101.464)	Vol.	1012415763.	17	MR55											4	1C7G, 1D5G, 1F7G, 1F5G.	465	9-27
4477, 4478 (101.447)	Vol. Tone	1012415883. 1012515567.	17 149	MR55 MR39				1012015576.	12/13	2N507					6	1C7G, 1D5GP, *1H4G, 1H6G, 1E7G	465	9-19
4484 (100.150)	Vol. Tone	1002488676. 1002588677.	18 57	MR48 MR48	M26			1002088679. 1002088680.	25 25	RS216 RS213					6	6A7, 6D6, 6H6G, 6F5G, 6B5, 80.	262	7-45,46

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK— 4484 (101.407)	Continued Vol. Vol. Tone	1012414184. 1012414303. 1012514183.	75 75 57	MR44 MR53 MR48	M26 M26		A27 A4	1012014573. 1012012451.	23 23	RS216 RS213				6	6A7, 78, 6116G, 6F5G, 6B5, 84	262	7-45,46	
4485 (100.151)	Vol. Tone	1002488876. 1002588677.	45 21	MR44 N	M26			1002088679. 1002088680. 1002088880.	25 25 13	RS216 RS213 RS213				8	*6K7G, 6C5G, 6L7G, 6Q7G, 6N6G, 6G5, 5Y3	456	9-21	
4485 (101.410)	Vol. Tone	1012414365. 1012514144.	17 57	MR55 MR48	M26			1012013903. 1012014360.	1 1	WE3050 WE1830				8	*6K7G, 6L7G, 6C5G, 6Q7G, 6G5, 6N6G, 5Y3	465	8-35,38	
4486 (100.156)	Vol. Tone	1002489524. 1002588677.	124 22	TRP623 MR48	6			1002088679. 1002089512. 1002089186. 1002089614.	25 25 13 13	RS216 RS213 BB40 RS213				10	*6K7G, 6A8, 6116G, 6F5G, 6C5G, 6F6G, 5V4G, 6G5	456		
4486 (101.425)	Vol. Tone	1012414516. 1012514544.	124 21	TM248-SS1 MR53	M26			1012013903. 1012014808.	1 1	WE3050 WE3050				10	*6K7G, 6L7G, 6C5G, 6G5, 6Q7G, 6F6G, 5Y3	465	8-43	
4487 (101.411A)	Vol. Tone	1012414888. 1012514959.	124 57	TM248-SS1 MR53	M26			1012013903. 1012014808. 1012015117.	28 28 28	RS216 WE3050 BB41				11	*6K7G, 6L7G, 6C5G, 6H6G, 6J7G, 6Q7G, 5Y3, 6N6G	465	9-29	
4488, 4488A, 4488B (101.412)	Vol. Tone	1012414888. 1012514887.	15 21	TM248-SS1 N	M26			1012014903. 1012014904. 1012014808. 1012014996. 1012014573. 1012012451.	28 28 13 28/13 1 1	WE3050 WE3050 WE3050 2N518 RS216 RS213				13	*6K7G, 6L7G, 6C5G, 6J7G, 6R7G or 6Q7G, 6N6G, 5X4G	465	8-45	
4490 (101.454)	Vol. Tone	1012415663. 1012514183.	127 57	MR55 MR48	M26									6	6A8G, 6K7G, 6B6G, 6N6G, 6H5, 6X5G	262	8-39	
4492, 4493 (101.443)	Vol.	1012415547.	17	MR55	M27									4	1C7G, 1F7G, 1D5G, 1F5G	465	9-15	
4498, 4499 (101.465)	Vol. Tone	1012415916. 1012515910.	15 22	MR55 MR39	M27			1012015913.	12/13	2N507				6	1C7G, 1D5GP, *1H4G, 1H6G, 1E7G	465	8-59	
4500, 4500A (101.393)	Vol.	1012414034.	6	MR29	M26			1012014036.	1/15	3S579				5	*6D6, 6C6, 43, 1V		8-15	
4501, 4501A (101.426)	Vol.	1012414034.	6	MR29	M26			1012015401.	1/15	3S579				5	*6D6, 6C6, 43, 1V		8-61	
4502, 4502A (101.427)	Vol.	1013418344.	6	MR20	M26	EX150		1012014415. 1012014036.	9 9/15	BB21 3S579				5	*6D6, 6C6, 43, 25Z5		8-58	
4503 (101.426)	Vol.	1012414034.	6	MR29	M26			1012015401.	1/15	3S579				5	*6D6, 6C6, 43, 1V		8-61	
4504 (101.427)	Vol.	1012418344.	6	MR20	M26	EX150		1012014415. 1012014036.	9 9/15	BB21 3S579				5	*6D6, 6C6, 43, 25Z5		8-58	
4505, 4505A, 4506 (101.393)	Vol.	1012414034.	6	MR29	M26			1012014036.	1/15	3S579				5	*6D6, 6C6, 43, 1V		8-15	
4507 (101.426)	Vol.	1012414034.	6	MR29	M26			1012015401.	1/15	3S579				5	*6D6, 6C6, 43, 1V		8-61	
4508 (101.427)	Vol.	1012418344.	6	MR20	M26	EX150		1012014415. 1012014036.	9 9/15	BB21 3S579				5	*6D6, 6C6, 43, 25Z5		8-58	
4509, 4510, 4511 (101.393)	Vol.	1012414034.	6	MR29	M26			1012014036.	1/15	3S579				5	*6D6, 6C6, 43, 1V		8-15	
4512, 4513, 4514 (101.427)	Vol.	1012418344.	6	MR20	M26	EX150		1012014415. 1012014036.	9 9/15	BB21 3S579				5	*6D6, 6C6, 43, 25Z5		8-58	
4515, 4516, 4517 (101.426)	Vol.	1012414034.	6	MR29	M26			1012015401.	1/15	3S579				5	*6D6, 6C6, 43, 1V		8-61	
4519 (101.449)	Vol. Tone	1012415818. 1012515819.	17 44	Order from L	Mfr. 6			1012015971. 1012015882. .02-.02	1/13 1 1	3S582 BB42 Buffer		1015114840.	246	C3	*1D5GP, 6K8G, 6T7G, 1H4G, 1J6G	456	8-17	
4520 (101.414)	Vol.	1012414083.	12	Y25MP	7			101209144.	19	BB12				4	1C6, 1A4, 951, 1F4, 6K8G, 6S7G, 6Q6G, 6K6G or 6A8G	465	7-49,50	
4521 (104.127)	Vol.	1042487	18	MR48				104201101	1/15	3S579 Buffer		1045113	246	C3	6K7G, 6Q7G, 6K6G 1C6, 1A4, 1B5, 1F4, 30, 1P1	456	8-19	
4522, 4523 (101.415)	Vol. Tone	1012414156. 1012514144.	15 57	MR48 MR48	M27			1012014142.	13/19	2N516/BB15				5	1C6, 1A4, 1B5, 1F4, 30, 1P1	465	7-59,60	
4524 (101.416)	Vol. Tone	1012414252. 1012514183.	15 57	MR48 MR48	M27			1012015136. 1012015137.	13 19	2N516 BB15				6	*1A4, 1C6, 1B5, 30, 1F4	465	7-55,56	
4526, 4526A (101.417A)	Vol. Tone	1012414579. 1012514144.	56 41	MR55 MR48				1012014578.	12/13	2N516				8	*1A4, 1C6, 1B5, *230, 19	465	8-25	
4528 (101.419)	Vol. Tone	1012414183. 1012514252.	15 57	MR48 MR48	M26			1012014289. .006	1	CM172 Buffer		1015113004.	294	C3	6A8G, 1D5G, *1H4G, 1F5G, 6X5G	465	7-57,85	
4528A (101.432)	Vol. Tone	1012414784. 1012514252.	17 57	MR55 MR48	M27			1012014874. 1012014574. 1012014478. .012-.012	1 1 13	BB63 BB61 BB41 Buffer		1015114840.	246	C3	*6S7G, 6D8G, 1H4G, 6Q6G, 6K6G	465	7-61,62	
4529 (101.437)	Vol. Tone	1012414303. 1012514710.	18 57	MR53 MR53	M26									6	6A7, 6D6, 75, 76, *48	465	9-11	
4531 (101.443)	Vol.	1012415547.	17	MR55	M27									4	1C7G, 1F7G, 1D5G, 1F5G	465	9-15,16	
4532 (101.438)	Vol. Tone	1012414252. 1012514183.	15 57	MR48 MR48	M27			1012014250.	13/19	CM172/BB15				5	1C6, 1A4, 1B5, 230, 1F4	465	8-23	
4533 (101.464)	Vol.	1012415763.	17	MR55										4	1C7G, 1D5G, 1F7G, 1F5G	465	9-27	
4537 (101.447)	Vol. Tone	1012415883. 1012515567.	15 149	MR55 MR39				1012015576.	12/13	2N507				6	1C7G, 1D5GP, *1H4G, 1H6G, 1E7G	465		

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
SEARS-ROEBUCK—	Continued																		
4539 (101.448)	Vol. Tone	1012415748	17	Order from MR39	Mfr.		1012015803	12/13	2N502						8	1D5G, 1C8G, 1H6G, 1H4G, 1J6G	465	8-28	
4542 (101.415)	Vol. Tone	1012414156	15	MR48	M27		1012014142	13/19	2N516/BB15						5	1C6, 1A4, 1B5, 1F4, 30, 1P1	465	7-59,60	
4542A (101.438)	Vol. Tone	1012414252	15	MR48	M27		1012014250	13/19	CM172/BB15						5	1C6, 1A4, 1B5, 230, 1F4	465	8-23	
4544 (101.416)	Vol. Tone	1012414183	15	MR48	M27		1012015136	13	2N516						6	1A4, 1C6, 1B5, 30, 1F4	465	7-55,56	
4546, 4546A (101.417A)	Vol. Tone	1012414579	17	MR55			1012014578	12/13	2N516						8	1A4, 1C6, 1B5, 230, 19	465	8-25	
4548 (101.419)	Vol. Tone	1012414144	41	MR48			1012014289	1	CM172		1015113004	294	C3	6	6A8G, 1D5G, 1H4G, 1F5G, 6X5G	465	7-57,58		
4548A (101.432)	Vol. Tone	1012414252	57	MR48	M27		1012014874	1	BB63		1015114840	246	C3	6	6S7G, 6D8G, 1H4G, 6Q6G, 6K6G	465	7-61,62		
4549 (101.437)	Vol. Tone	1012414303	127	MR53	M26		1012014578	1	BB61						6	6A7, 6D6, 76, 75, 48	465	9-11	
4550 (101.420)	Vol. Tone	1012414579	21	MR55			1012014474	1	BB63		1015114300	294	C3	9	1D5G, 6A8G, 6G5, 1H6G, 1H4G, 1J6G	465	8-33		
4559 (101.449)	Vol. Tone	1012415818	17	Order from L	Mfr.		1012014734	1	CM164/BB12		1015114840	246	C3	6	1H5GP, 6K8G, 6T7G, 1H4G, 1J6G	465	8-17		
4563, 4564 (100.150)	Vol. Tone	1002488676	18	MR48	M26		1012015971	1/13	3S582						6	6A7, 6D6, 6H6G, 6F5G, 6B5, 80	262	8-13	
4563, 4564 (101.407)	Vol. Tone	1012411184	75	MR44	M26	A27 A4	1012014573	23	RS216						6	6A7, 78, 6H6G, 6F5G, 6B5, 84	262	7-45,46	
4565 (100.151)	Vol. Tone	1012414303	15	MR53	M26		1012014573	23	RS216						8	6K7G, 6C5G, 6L7G, 6Q7G, 6N6G, 6G5, 5Y3	456	9-21	
4565 (101.410)	Vol. Tone	1012414183	57	MR48	M26		1012013903	1	WE3050						8	6K7G, 6L7G, 6C5G, 6Q7G, 6G5, 6N6G, 5Y3	465	8-35,38	
4566 (101.442)	Vol. Tone	1012414303	15	MR53	M26		1012014360	1	WE1830						7	6A7, 78, 6H6G, 6F5G, 6B5, 6X5G	262	9-31	
4567 (104.218)	Vol. Tone	1042113	18	MR48	M26		1012012451	23	RS213						5	6A7, 6D6, 75, 42, 80	456	9-24	
4569 (101.445)	Vol. Tone	1012415483	45	MR53	M26		1012012451	23	RS216						7	6A7, 78, 6H6G, 6F5G, 6G5, 6B5, 6X5G	262	8-63	
4570, 4571, 4572 (100.150)	Vol. Tone	1002488676	18	MR48	M26		1012012451	23	RS213						6	6A7, 6D6, 6H6G, 6F5G, 6B5, 80	262	8-13	
4570, 4571, 4572 (101.407)	Vol. Tone	1012414184	45	MR44	M26	A27 A4	1012014573	23	RS216						6	6A7, 78, 6H6G, 6F5G, 6B5, 84	262	7-45,46	
4575 (101.454)	Vol. Tone	1012414303	15	MR53	M26		1012012451	23	RS213						6	6A8G, 6K7G, 6B6G, 6N6G, 6I15, 6X5G	262	8-39	
4577 (101.447)	Vol. Tone	1012415663	127	MR55	M26		1012013451	1	RS216						6	1C7G, 1D5GP, 1H4G, 1H6G, 1E7G	465	9-19	
4584 (100.150)	Vol. Tone	1012415893	15	MR55	M26		1012015576	12/13	2N507						6	6A7, 6D6, 6H6G, 6F5G, 6B5, 80	262	8-13	
4584 (101.407)	Vol. Tone	1012415677	149	MR39	M26		1012014573	23	RS216						6	6A7, 78, 6H6G, 6F5G, 6B5, 84	262	7-45,46	
4585, 4585A (100.151)	Vol. Tone	1002488676	18	MR48	M26		1012014573	23	RS216						8	6K7G, 6C5G, 6L7G, 6Q7G, 6N7G, 6G5, 5Y3	456	9-21	
4585, 4585A (101.410)	Vol. Tone	1012414184	75	MR44	M26	A27 A4	1012014360	1	WE1830						8	6K7G, 6L7G, 6C5G, 6Q7G, 6G5, 6N6G, 5Y3	465	8-35,38	
4586, 4586A (100.156)	Vol. Tone	1002489524	124	TRP623	6		1012013903	1	WE3050						10	6K7G, 6A8, 6H6G, 6F5G, 6C5G, 6F6G, 5V4G, 6G5	456		
4586, 4586A (101.425)	Vol. Tone	1012414516	124	TM248-SS1	M26		1002089542	25	RS216						10	6K7G, 6A8, 6H6G, 6F5G, 6C5G, 6F6G, 5V4G, 6G5	456		
4587, 4587A (101.411A)	Vol. Tone	1012414516	21	MR53	M26		1002089186	13	BB40						10	6K7G, 6L7G, 6C5G, 6G5, 6Q7G, 6F6G, 5Y3	465	8-43	
4588, 4588A, 4588B (101.412)	Vol. Tone	1012414888	15	TM248-SS1	M26		1002089614	13	RS213						10	6K7G, 6L7G, 6C5G, 6G5, 6Q7G, 6F6G, 5Y3	465	8-43	
		1012514544	21	MR53	M26		1012013903	1	WE3050						10	6K7G, 6L7G, 6C5G, 6G5, 6Q7G, 6F6G, 5Y3	465	8-43	
		1012514959	57	MR53	M26		1012014808	28	WE3050						11	6K7G, 6L7G, 6C5G, 6J7G, 6Q7G, 6H6G, 6N6G, 5Y3	465	8-65	
		1012414888	15	TM248-SS1	M26		1012015117	28	BB41						11	6K7G, 6L7G, 6C5G, 6J7G, 6Q7G, 6H6G, 6N6G, 5Y3	465	8-65	
		1012514887	21	N	M26		1012014903	28	WE3050						13	6K7G, 6L7G, 6C5G, 6J7G, 6R7G or 6Q7G, 6N6G, 5X4G	465	8-45	
							1012014904	28	WE3050										
							1012014808	13	WE3050										
							1012014996	28/13	2N518										

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
4589 (101.445)	Vol. Tone	1012415483.	45	MR53	M26			1012014573.	23	RS216					7	6A7, 78, 6H6G, 6F5G, 6G5, 6H5, 6X5G . . .	262	8-63
4590 (101.411A)	Vol. Tone	1012515482.	22	MR48				1012012451.	23	RS213					11	26K7G, 6L7G, 26C5G, 6H6G, 6J7G, 6Q7G, 26N6G, 5Y3	465	9-29
	Vol. Tone	1012414888.	124	TM248-SS1	M26			1012013903.	28	RS216								
	Vol. Tone	1012514959.	57	MR53				1012014808.	28	WF3050								
4593 (101.451)	Vol. Tone	1012415640.	127	MR55	M26			1012015117.	28	BB41					6	6A8G, 6K7G, 6B6G, 6N6G, 6I15, 6X5G . . .	262	9-33
4598 (101.465)	Vol. Tone	1012515482.	57	MR48				1012014573.	1	RS216								
	Vol. Tone	1012415916.	15	MR55	M27			1012012451.	1	RS213					6	1C7G, 1D5GP, 2H4G, 1H6G, 1E7G	465	8-59
4600 (101.458)	Vol. Tone	1012515910.	22	MR39				1012015913.	12/13	2N507								
	Vol. Tone	1012416101.	17	UM157		See Note A96		1012016105.	1	2N518		1015116034.	852	C3	6	26U7G, 6A8G, 6Q7G, 6N5G, 6X5G	262	9-35
	Vol. Tone	1012516024.	22	MR48				1012016105.	1	2N518		1015116034.	852	C3	7	26U7G, 6A8G, 6V7G, 6J5G, 6N7G, 6X5G . . .	262	8-75
4601 (101.463)	Vol. Tone	1012416100.	17	TM224-SS12				1012016102.	15	TN111								
	Vol. Tone							.005		Buffer	B14				1	1C7G, 1D5GP, 1F7G, 1G5G	465	8-77
4602, 4603 (101.475)	Vol. Tone	1012416232.	17	MR55	M27			1012016102.	15	Buffer	B14							
4604, 4605 (101.474)	Vol. Tone	1012416260.	15	MR55	M27			.005		Buffer	B14							
4606, 4607 (101.473)	Vol. Tone	1012416298.	15	Order from Mfr.				1012016259.	12/13	2N502					6	1C7G, 2D5GP, 2H4G, 1J6G	465	8-78
4608, 4609, 4608A, 4609A (101.472, 101.472X)	Vol. Tone	1012416445.	56	Order from Mfr.				1012016259.	12/13	2N502					6	1C7G, 2D5GP, 2H4G, 1J6G	465	9-37,38
	Vol. Tone							1012015803.	12/13	2N502								
	Vol. Tone							1012014306.	1	WE1830					8	2D5GP, 1C7G, 6B6G, 6V6G, 6U5, 5Y3G	465	9-53-56
4610 (101.482)	Vol. Tone	1012416815.	127	MR55	M26			1012013903.	1	WE3050					8	26K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	9-53-56
	Vol. Tone							1012014360.	1	WE1830								
4611 (101.487)	Vol. Tone	1012417213.	127	MR55	M26			1012016355.	1/13/15	RM257/BB12	B16				6	6A8G, 6K7G, 6B6G, 25L6G, 6N5G, 6U5	465	9-39
4612A (101.533)	Vol. Tone	1012419219.	18	MR48											6	6A7, 6D6, 75, 76, 248	465	10-5
4613 (100.157)	Vol. Tone	10024110672	17	MR53	M27			10020110804	1	2N518		10051110800	246	C3	6	1H4G, 6D8G, 1D5GP, 6T7G, 1F5G, 6A85	465	
	Vol. Tone							10020110377	78	BB12								
4614 (101.497)	Vol. Tone	1012416907.	17	Order from Mfr.				1012017603.	1/13/15	3N528/2N502	B14	1015114300.	294	C3	8	2I5, 6D8G, 6T7G or 6Q6G, 6I5G, 1J6G, 6A85, 6ZY5G	465	9-41, 42
	Vol. Tone							.01		Buffer	B14							
	Vol. Tone							.012		Buffer	B14							
4619 (101.478)	Vol. Tone	1012416951.	127	MR53	M26													
	Vol. Tone	1012516893.	57	MR53														
4620, 4621 (101.475)	Vol. Tone	1012416232.	17	MR55	M27													
4620A (101.503)	Vol. Tone	1012416232.	17	MR55	M27													
4620A (101.503-1)	Vol. Tone	1012416232.	17	MR55	M27													
4621A (101.503)	Vol. Tone	1012416232.	17	MR55	M27													
4621A (101.503-1)	Vol. Tone	1012416232.	17	MR55	M27													
4622 (100.179)	Vol. Tone	10024110672	17	MR53	M27			10020110804	1	2N518		10051110800	246	C3	4	1C7G, 1D5GP, 1F7G, 1G5G	465	9-45
	Vol. Tone							10020110377	78	BB12								
4623 (100.157)	Vol. Tone	10024110672	17	MR55	M27			.01		Buffer	B14							
	Vol. Tone							10020110804	1	2N518		10051110800	246	C3	6	1H4G, 6D8G, 1D5GP, 6T7G, 1F5G, 6A85	465	9-47, 48
	Vol. Tone							10020110377	78	BB12								
4624, 4625 (101.474)	Vol. Tone	1012416260.	15	MR55	M27			.01		Buffer	B14							
	Vol. Tone							1012016259.	12/13	2N502								
4626, 4627 (101.473)	Vol. Tone	1012416298.	15	Order from Mfr.														
4628, 4629 (101.472)	Vol. Tone	1012416445.	56	Order from Mfr.				1012016259.	12/13	2N502								
4630, 4631 (101.475)	Vol. Tone	1012416232.	17	MR55	M27			1012015803.	12/13	2N502								
4632A, 4633A (101.505)	Vol. Tone	1012418350.	17	Order from Mfr.														
	Vol. Tone							1012016259.	13	2N502								
4634, 4635 (101.474)	Vol. Tone	1012416260.	45	MR55	M27													
4636, 4637 (101.473)	Vol. Tone	101246298.	15	Order from Mfr.				1012016259.	12/13	2N502								
4638, 4639 (101.472)	Vol. Tone	1012416445.	56	Order from Mfr.														
4640 (101.476)	Vol. Tone	1012416907.	17	Order from Mfr.				1012015803.	12/13	2N502								
	Vol. Tone							1012016473.	1/13	3S582, BB33	B14	1015114840.	246	C3	7	2D5GP, 1C7G, 1F7G, 1H4G, 1J6G, 6A85	465	
	Vol. Tone							.012		Buffer	B14							
4641A (101.503)	Vol. Tone	1012416232.	17	MR55	M27													
4641A (101.503-1)	Vol. Tone	1012418877.	17	MR55	M27													
4642A (101.503)	Vol. Tone	1012416232.	17	MR55	M27													
4642 (101.503-1)	Vol. Tone	1012418877.	17	MR55	M27													

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous sockon.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—4643 (100.157)	Continued	10024110672	17	MR55	M27			10020110804	1	2N518		10051110800	246	C3	6	1H4G, 6D8G, 1D5GP, 6T7G, 1F5G, 6AB5	465	
4644A (101.504)	Vol.	1012417919	15	MR55				10020110377	78	BB12	B14				6	1C7G, 1H4G, 1F7GH, 1G5G	455	10-9,10
4645A (100.504-1-2)	Vol.	1012417919	15	MR55				1012016259	12/13	2N502					6	1C7G, 1H4G, 1F7GH, 1G5G	465	10-9,10
4646, 4647 (101.473)	Vol.	1012416298	15	Order from Mfr.				1012016259	12/13	2N502					6	1C7G, 1D5GP, 1H4G, 1J6G	465	
4648, 4649 (101.472)	Vol.	1012416445	56	Order from Mfr.				1012015803	12/13	2N502					8	1D5GP, 1C7G, 1H6G, 1H4G, 1J6G	465	
4650 (101.476)	Vol.	1012416907	17	Order from Mfr.				1012016473	1/13	3S582/BB33	B14	1015114840	246	C3	7	1D5GP, 1C7G, 1F7G, 1H4G, 1J6G, 6AB5	465	
4651 (101.497)	Vol.	1012416907	17	Order from Mfr.				1012017603	1/13/15	3N528/2N502	B14	1015114300	294	C3	8	1S, 6D8G, 6T7G or 6Q6G, 6I5G, 1J6G, 6AB5, 6ZY5G	465	9-41
4660 (101.487)	Vol.	1012417213	127	MR55	M26			1012016355	1/13/15	RM257/BB12	B16				6	6A8G, 6K7G, 6I8G, 25I6G, 6X5G, 6U5	465	9-39
4663 (100.158)	Vol.	10024110939	17	MR53	M26			1002089937	25	WE3050					6	6A8G, 6K7G, 6I8G, 6K6G, 5W4G, 6U5	465	
4663 (101.471)	Vol.	1012416452	127	MR55	M26			10020110974	25/13	2N518					6	6A8G, 6K7G, 6I8G, 6V6G, 6U5, 6X5G	465	
4664 (101.480)	Vol.	1012416452	127	MR55	M26			10020110377	19/20	BB12					7	6K7G, 6A8G, 6I8G, 6V6G, 6U5, 6X5G	465	9-51,52
4665 (101.488)	Vol.	1012416962	18	MR55	M26			1012014573	25	RS216					8	6K7G, 6J5G, 6I7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4666 (100.483)	Vol. Sil.	1012416975	124	TM248-SS16	M26			1012016570	25/13	2N518					10	6K7G, 6A8G, 6Q7G, 6U5, 6J5G, 6V6G, 5Y3G	465	
4667 (101.498)	Vol.	1012416815	127	MR55	M26			1012016703	1	BB13					8	6K7G, 6J5G, 6I7G, 6B6G, 6V6G, 6U5, 5Y3G	465	10-11-13
4668 (103AR166)	Vol.	3Z1R288	45	MR48	M26			1012013903	1	WE3050					6	6A7, 6D6, 7G, 4I, 80	456	10-15,16
4669 (101.482)	Vol.	1012416815	127	MR55	M26			2NC246	23	RS216					8	6K7G, 6J5G, 6I7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4677 (101.498)	Vol.	1012416815	127	MR55	M26			2NC247	23	WE1650					8	6K7G, 6J5G, 6I7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4680 (101.479)	Vol. Sen.	1012416705	124	TM248-SS1	M26			1012013903	1	WE3050					8	6K7G, 6J5G, 6I7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4681 (101.499)	Vol.	1012416975	124	TM248-SS16	M26			1012014360	1	WE1830					10	6K7G, 6I7G, 6J5G, 6Q7G, 6J5G, 6V6G, 6U5, 5Y3G	465	9-57
4684 (101.502)	Vol.	1012416452	127	MR55	M26			1012013903	1	WE3050					10	6K7G, 6I7G, 6J5G, 6Q7G, 6J5G, 6V6G, 6U5, 5Y3G	465	10-17-20
4685 (101.488)	Vol.	1012416962	18	MR55	M26			1012014573	25	RS216					7	6K7G, 6A8G, 6I8G, 6V6G, 6U5, 6X5G	465	9-59
4686 (101.483)	Vol. Sil.	1012416975	124	TM248-SS16	M26			1012016570	25/13	2N518					8	6K7G, 6J5G, 6I7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4687 (101.484)	Vol.	1012417004	20	TM248-SS16	M26			1012013903	1	WE3050					10	6K7G, 6A8G, 6Q7G, 6U5, 6J5G, 6V6G, 5Y3G	465	
4688 (100.159)	Vol.	10024111533	20	TM240-SS16	M26			1012016703	1	BB13					12	6I8G, 6I7G, 6J5G, 6J7G, 6K7G, 6I16G, 6U5, 6C8G, 6V6G, 5X4G	465	
4700 (104.235)	Vol.	1042423	18	UM158-SS12				1012015117	1	BB11					14	6K7G, 6I7G, 6C5G, 6I16G, 6J7G, 6U5, 6V6G, 5U4G	465	9-61,74
4701 Power Shiftr (139.450)								1042021	1	2N518	B14	104512	294	C3	5	6A8G, 6K7G, 6Q7G, 6V6G, 6X5G	456	9-80
4708 (139.200)								1391005	1	FPI217						25Z6GT		
4720 (101.475)	Vol.	1012416232	17	MR55	M27			1391007	3	FPI200					4	1C7G, 1D5GP, 1F7G, 1G5G	465	8-77
4722 (100.179)	Vol.	10024110672	17	MR53	M27			1391006	3	IIC610					4	1C7G, 1D5GP, 6T7G, 1F5G	465	9-45
4723 (100.157)	Vol.	10024110672	17	MR55	M27			1391005	1	FPI217					6	1H4G, 6D8G, 1D5GP, 6T7G, 1F5G, 6AB5	465	

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—Continued																		
4724 (101.474)	Vol.	1012416260	45	MR55	M27										6	1C7G, 21D5GP, 11H4G, 1J6G	465	8-78
4726 (101.473)	Vol.	1012416298	15	Order from	Mfr.			1012016259	12/13	2N502					6	1C7G, 21D5GP, 11H4G, 1J6G	465	
4728 (101.472X)	Vol.	1012416445	56	Order from	Mfr.			15803	12/13	2N502					8	21D5GP, 1C7G, 11H6G, 11H4G, 21J6G	465	
4730 (101.475)	Vol.	1012416232	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	465	8-77
4740 (101.476)	Vol.	1012416907	17	Order from	Mfr.			16473	1/13	3S582/BB33 Buffer	B14	1015114840	246	C3	7	21D5GP, 1C7G, 1F7G, 11H4G, 1J6G, 6AB5	465	
4743 (100.157)	Vol.	10024110672	17	MR55	M27			10020110804	1	2N518		10151110800	246	C3	6	11H4G, 6D8G, 1D5GP, 6T7G, 1F5G, 6AB5	465	
4746 (101.473)	Vol.	1012416298	15	Order from	Mfr.			10020110377	78	BB12 Buffer	B14				6	1C7G, 21D5GP, 11H4G, 1J6G	465	
4748 (101.472X)	Vol.	1012416445	56	Order from	Mfr.			1012016259	12/13	2N502					8	21D5GP, 1C7G, 11H6G, 11H4G, 21J6G	465	
4750 (101.476)	Vol.	1012416907	17	Order from	Mfr.			1012016473	1/13	3S582/BB33 Buffer	B14	1015114840	246	C3	7	21D5GP, 1C7G, 1F7G, 11H4G, 1J6G, 6AB5	465	
4760 (101.453)	Vol.	1012417212	18	MR55	M26			1012016355	1/13/15	RM257/BB12	B16				5	6A8G, 6K7G, 6B6G, 25L6G, 6X5G	465	
4761 (101.490)	Vol.	1012416343	18	MR55	M26			1012016355	1/13/15	RM257/BB12	B16				5	6A8G, 6K7G, 6B6G, 25L6G, 6X5G	465	9-75
4762 (101.489)	Vol.	1012416343	18	MR55	M26			1012016892	9/13/15	3S578/BB31					5	6A8G, 6K7G, 6B6G, 25L6G, 25Z6G	465	
4763 (101.471)	Vol.	1012416452	127	MR55	M26			1012017053	9	BB34					6	5A8G, 6K7G, 6B6G, 6V6G, 6U5, 6X5G	465	
4763 (100.158)	Vol.	10024110939	17	MR53	M26			1012016570	25/13	2N518					6	6A8G, 6U7G, 6Q7G, 6K6G, 6U5, 5W4G	465	
4764 (101.480)	Vol.	1012416452	127	MR55	M26			1002089937	25	WE3050					6	6A8G, 6U7G, 6Q7G, 6K6G, 6U5, 5W4G	465	
4764 (101.480)	Vol.	1012416452	127	MR55	M26			10020110974	25/13	2N518					7	26K7G, 6A8G, 6B6G, 6V6G, 6U5, 6X5G	465	
4765 (101.488)	Vol.	1012416962	18	MR55	M26			10020110377	19/20	BB12					8	26K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4766 (101.483)	Vol. Sil.	1012416975	124	TM248-SS16	M26			1012014573	25	RS216					10	26K7G, 6A8G, 26Q7G, 6U5, 6J5G, 26V6G, 5Y3G	465	
4766 (101.483)	Vol. Sil.	1012616704	8	A1MP				1012014808	1	WE3050					8	26K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4767 (101.498)	Vol.	1012416815	127	MR55	M26			1012016703	1	BB13					8	26K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4769 (101.482)	Vol.	1012416815	127	MR55	M26			1012013903	1	WE3050					8	26K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4770 (101.453)	Vol.	1012417212	18	MR55	M26			1012014360	1	WE1830					8	26K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4771 (101.490)	Vol.	1012416343	18	MR55	M26			1012013903	1	WE3050					8	26K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4772 (101.489)	Vol.	1012416343	18	MR55	M26			1012014360	1	WE1830					8	26K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4776 (126-200)	Vol.	1262430704	20					1012016355	1/13/15	RM257/BB12	B16				5	6A8G, 6K7G, 6B6G, 25L6G, 6X5G	465	9-75
4777 (101.498)	Vol.	1012416815	127	MR55	M26			1012016892	9/13/15	3S578/BB31					5	6A8G, 6K7G, 6B6G, 25L6G, 6X5G	465	9-75
4781 (101.499)	Vol.	1012416975	124	TM248-SS16	M26			1012017053	9	BB34					5	6A8G, 6K7G, 6B6G, 25L6G, 6X5G	465	9-75
4783 (101.502)	Vol.	1012416452	127	MR55	M26			1012017053	9	BB34					5	6A8G, 6K7G, 6B6G, 25L6G, 6X5G	465	9-75
4784 (101.480)	Vol.	1012416452	127	MR55	M26			1262011203	25	SR644					6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G, 6U5	460	9-77
4785 (101.488)	Vol.	1012416962	18	MR55	M26			126205212	25	WE1830					6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G, 6U5	460	9-77
4786 (100.196)	Vol. Sil.	10024111736	124	TM248-SS16	M26			1262014377	13	RS216					8	26K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4786 (101.483)	Vol. Sil.	1012416975	124	TM248-SS16	M26			1012013903	1	WE3050					10	26K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465	
4787 (101.484)	Vol.	1012417004	20	TM248-SS1	M26			1012014360	1	WE1830					10	26K7G, 6L7G, 26J5G, 6Q7G, 26V6G, 6U5, 5Y3G	465	
4788 (100.159)	Vol.	10024111533	20	TM240-SS16	M26			1012013903	1	WE3050					10	26K7G, 6L7G, 26J5G, 6Q7G, 26V6G, 6U5, 5Y3G	465	
								1012014808	1	WE3050					10	26K7G, 6L7G, 26J5G, 6Q7G, 26V6G, 6U5, 5Y3G	465	
								1012014808	1	WE3050					10	26K7G, 6L7G, 26J5G, 6Q7G, 26V6G, 6U5, 5Y3G	465	
								1670310120	1	BB13					10	26K7G, 6A8G, 6B6G, 6V6G, 6U5, 6J5G, 26V6G, 5Y3G	465	
								1012013903	1	WE3050					10	26K7G, 6A8G, 6B6G, 6V6G, 6U5, 6J5G, 26V6G, 5Y3G	465	
								1012014808	1	WE3050					10	26K7G, 6A8G, 6B6G, 6V6G, 6U5, 6J5G, 26V6G, 5Y3G	465	
								1012014808	3	WE3050					12	6B8G, 6L7G, 6J5G, 6J7G, 26K7G, 6116G, 6U5, 6C8G, 26V6G, 5X4G	465	
								1012015117	1	BB31					14	26K7G, 6L7G, 26C5G, 26116G, 6J7G, 6U5, 26V6G, 5U4G	465	9-61,74
								1002088679	3	RS216					14	26K7G, 6L7G, 26C5G, 26116G, 6J7G, 6U5, 26V6G, 5U4G	465	9-61,74
								1002089937	3	WE3050					14	26K7G, 6L7G, 26C5G, 26116G, 6J7G, 6U5, 26V6G, 5U4G	465	9-61,74
								10020111689	15	BB15					14	26K7G, 6L7G, 26C5G, 26116G, 6J7G, 6U5, 26V6G, 5U4G	465	9-61,74
								10020110377	15	BB12					14	26K7G, 6L7G, 26C5G, 26116G, 6J7G, 6U5, 26V6G, 5U4G	465	9-61,74

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK— 4789 (101.482).....	Continued Vol.	1012416815.	127	MR55.....	M26			1012013903. 1012014360.	1 1	WE3050 WE1830				8	6K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465		
4790 (101.479).....	Vol. Sen.	1012416705. 1012616704.	124 8	TM248-SS1 A1MP	M26			1012013903. 1012014808. 1012016703.	1 1 15	WE3050 WE3050 BB13				10	6K7G, 6A8G, 6Q7G, 6J5G, 6V6G, 5Y3G, 6U5	465	9-57	
4791, 4792 (101.483)	Vol. Sil.	1012416975. 1012616704.	124 8	TM248-SS16 A1MP	M26			1012013903. 1012014808. 1012016703.	1 1 1	WE3050 WE3050 BB13				10	6K7G, 6A8G, 6Q7G, 6U5, 6J5G, 6V6G, 5Y3G	465		
4796 (126.201).....	Vol.	1262430704.	17				See Note A19	1262014814. 1262014813.	25 25/13	SR644 2S569				6	6A8G, 6K7G, 6Q7G, 6F6G, 6U5, 5Y3G	460		
4798 (101.498).....	Vol.	1012416815.	127	MR55.....	M26			1012013903. 1012014360.	1 1	WE3050 WE1830				8	6K7G, 6J5G, 6L7G, 6B6G, 6V6G, 6U5, 5Y3G	465		
4799 (100.159).....	Vol.	10024111533	20	TM240-SS16	M26			1002088679. 1002089937. 10020111689 10020110377	3 3 15 15	RS216 WE3050 BB15 BB12				14	6K7G, 6L7G, 6C5G, 6H16G, 6J7G, 6U5, 6V6G, 5Y3G	465	9-61,74	
5280, 5281, 5282 (130.282).....	Mic. Phono. Tone	130243111. 130243103. 130243107.	15 63 22	MR48 MR39 L				8-8 12-12	24 24	2N518 2S568				7	6N7, 6J7, 6V6, 5V4 6P5GT			
5302 (Ch. 139.210).....								1392017. 1392016.	1 1	2N502 HC610								
5511, 5511A (Ch. 101.619, 101.619A).....	Vol. Tone	1012443157. 1012543123.	124 22		M26		See Note A19	1012013903. 1012043153.	3 3	WE3050 FPD234				11	6U7G, 6K8G, 6J5G, 6Q7G, 6V6, 6U5, 5X4G	455	12-38,40	
5571, 5571A (Ch. 101.631, 101.631A).....	Vol. Tone	1012443157. 1012543892.	124 22		M26		See Note A19	1012044225. 1012043888.	3 13	FPT383 RS215				11	6U7G, 6K8G, 6J5G, 6Q7G, 6V6G, 6U5, 6J7G, 5X4G	455		
5581 (101.634).....	Vol. Tone	1012443437. 1012543434.	124 22		M26		See Note A19 A96	1012043995.	1	FPD238				8	6K8G, 6U7G, 6Q7G, 6F6G, 5Y3G	455	12-43	
5601A (Ch. 101.628, 101.628-1A).....	Vol. Tone	1012443157. 1012543892.	124 22		M26		See Note A19 A27	1012043064. 1012043888.	3 13	FPT383 RS215				10	6U7G, 6K8G, 6Q7G, 6V6G, 6U5, 6J7G, 5Y3	455		
5621 (101.632).....	Vol. Tone	1012444110. 1012444631. 1012541939.	124 124 22		M26		See Note A19 A4	1012044032.	1/13	FPT383				8	6K8G, 6U7G, 6B8G, 6Q7G, 6V6G, 6J7G, 6U5, 5Y3G	455		
5656A.....	Vol. Tone Sen.		15 34 7	O N C				8. 16. 12-12.	1 1 15	WE850 WE1830 TN111				8	6K7MG, 6L7MG, 6Q7MG, 6C5MG, 6F6MG, 5Y3	465	10-33	
5661 (101.633).....	Vol. Tone	1012444029. 1012544027.	18 22		M26		See Note A19	1012043441.	1/15	FPT346		BB17		6	6K8G, 6U7G, 6Q7G, 6V6G, 5Y3G	455	12-44	
5689, 5690 (116SA10).....	Mic. Tone Phono.	116242521. 116252517. 116242520.	16 21 50	MR33 MR53 MR39	M26			116204250. 116204238. 116204165.	1 1 15/1	HD684 HD684 BB15				3	77, 6B5, 80			
5691, 5692 (116SA20).....	Mic. Phono. Tone	116242518. 116242519. 116252517.	50 50 21	MR53 MR48 MR53	M26			116204194. 116204165.	1 15	SR643 BB15				5	6C6, 6B5, 80			
5693, 5694 (116SA40).....	Mic. Phono. Tone	116242520. 116242519. 116252517.	15 50 21	L N O				116204165. 116204165. 116204224.	15 15	BB15 BB14		BB15		7	6J7, 6C5, 6L6, 5Z3			
5695 (116RT3).....	Vol. Tone	116242519. 116252562.	50 21	N N					6 6									
5697, 5698 (116SA30).....	Mic. Tone Phono.	116242518. 116252517. 116242519.	15 21 50	MR53 MR53 MR48	M26			4194. 4165.	1 15	SR643 BB15				6	6J7, 6N7, 5Z3			
5701 (132.809).....	Vol.	1322416780.	18				A5	1322014370.	46/15	TN129/BB12				4	12K7GT, 12SQ7GT, 35L6GT, 35Z4GT		12-45	
5710, 5710A, 5711, 5711A (107.450).....	Vol. Tone BFO. Gain	1072426281. 1072513278. 1072427281. 1072428281.	18 21 21 7	MR53 MR48 MR48 E				29-266 17-266	1/13 1	2S567 RS213				10	6K7, 6L7, 6J5G, 6Q7G, 6V6G, 80, 6J7G, 6U5	465	11-12	
5711 (110.409).....	Vol.	1102446.	18	MR48	M26			1102053 1102046	16 16	FPT357 2N513		BB17 BB12		5	12A8GT, 12K7GT, 12SQ7GT, 35L6GT, 35Z5GT	455	12-46	
5721 (110.418).....	Vol. Tone	1102454. 1102515.	18 22	TM227-SS1 MR51	M26			1102063.	46	ST598/2S568				6	6SA7GT, 6SK7GT, 6SQ7GT, 6SJ7GT, 6F6GT, 6X5GT	455		

; Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

; Indicates miscellaneous section.

MANUFACTURER AND MODEL	Use	CONTROLS						CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
		Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
SEARS-ROEBUCK— 5727, 5728 (107.A450)	Continued Vol. Tone BFO. Gain Meter Vol. Tone	1072426281. 1072513278. 1072427281. 1072428281. 1072430381. 109288260. 109258519.	18 22 ‡ 7 7 106 106	MR53. MR48. MR48. E. E. ‡ ‡															
5731 (109.359)	Vol. Tone	109288260. 109258519.	106 106	‡ ‡			A5 A5	109208339.	1/15	FPT332									
5732, 5732B (109.371, 109.371-1)	Vol.	109248910.	18	MR53.	M26			109208425.	1/13	FPT360									
5732 (116SA2232)	Mic. Phono. Tone	116252518. 116242948. 116252518.	15 50 21	O. N. O.				116204194. 116204165. 116204224.	1 15 15	SR643. BB15. BB14/BB15									
5737 (130.637)	Mic. Tone Phono.	130253103. 130243111. 130243124.	15 ‡ 63	MR39. N. MR33.				130203056. 130203064. 130203061. 130203059.	24 24 15 15	2N518. 2S568. TN111. BB12									
5741 (132.808)	Vol.	1322416780.	18	‡			A5	1322014370.	46/15	TN129/BB12									
5750 (Ch. 107.A450-S4)	Vol. Tone BFO. RF Gain R Meter Vol.	1072426281. 1072513278. 1072427281. 1072427281. 1072430381. 1102446.	18 22 ‡ 7 7 18	MR53. MR48. MR48. E. E. MR48.				1072017266. 1072029266.	1 1/13	RS213. 2S567. 2N518.									
5751 (110.403)	Vol.	1102446.	18	MR48.	M26			1102053. 1102046.	46 46	FPT357. 2N513.	B117 B12								
5752, 5753 (107.440-S1)	Vol. Tone Gain Meter Vol.	1072426281. 1072513278. 1072428281. 1072435281. 109288260. 109258519.	18 22 7 7 106 106	MR53. MR48. E. MR14. ‡ ‡				1072030266. 1072031266.	1 13	FPD231. FPD231.									
5761 (109.359)	Vol. Tone	109288260. 109258519.	106 106	‡ ‡			A5 A5 A5	109208339.	1/15	FPT332									
5771 (109.358)	Vol.	109248421.	18	‡				109208425.	1/13	FPT360									
5789 (116SA3041)	Mic.	116242757.	‡	G12.	6			116204194. 116201002.	‡ 15	SR643. BB14.									
5790 (116SA40)	Mic. Phono. Tone	116242520. 116242519. 116252517.	15 63 21	L. N. O.				116204194. 116201165. 116204224.	1 15 15	SR643. BB15. BB14/BB15									
5791, 5792 (116SA20)	Mic. Phono. Tone	116242518. 116242519. 116252517.	50 63 21	MR53. MR48. MR53.	M26			116204194. 116204165.	1 15	SR643. BB15.									
5793 (116SA40)	Mic. Phono. Tone	116242520. 116242519. 116252517.	15 63 21	L. N. O.				116201194. 116201165. 116204224.	1 15 15	SR643. BB15. BB14/BB15									
5797 (116SA30)	Mic. Tone Phono.	116242518. 116252517. 116242519.	15 21 63	MR53. MR53. MR48.	M26			116201194. 116204165.	15 15	SR643. BB15.									
5812 (138.905)	Vol.	138242014.	15	MR48.	M26			30-30-20.	24/15	3N534.									
5827 (138.903)	Vol. Tone	138242013. 138212012.	50 21	MR44. MR45.	M26 M26			138202012. 20.	1/15 15	2N519/BB12. BB15.									
5827 (134.903)	Phono. Tone	134192013. 134192013.	21 50	MR44. MR44.	M26 M26			134182015. 134182014. 134182012.	1 1 15	BB61. BB61. BB12.									
5844 (100.355)	Phono.	10023170768.	50	MR44.	M26			10020116470.	24	2N509.									
5848 (100.356)	Phono.	10024160743.	50	MR44.	M26			1012017567.	24/13	3S584. Buffer.	B14			R16034.	852	C3			
6000 (101.495X)	Vol.	1012416101.	18	UM157.			See Note A96	.005.	24/13/15	3S584/TN111. Buffer.	B14			R16034.	852	C3			
6001 (101.496X)	Vol.	1012416100.	18	TM224-SS12.				1012017576.	24/13/15	3S584/TN111. Buffer.	B14			R16034.	852	C3			
6002 (100.195)	Vol.	10024113889.	127	MR48.	M26			10020112883.	60	3S584.									
6003, 6004 (101.510)	Vol.	1012418394.	15	MR55.				1012013903. 1012014808.	1 1	WE3050. WE3050.									
6005 (101.507)	Vol.	1012418163.	17	MR55.				1012018184. 1012818672. .009-.009.	1/15 78	2N502/BB12. BB15. Buffer.	B14			1015114840.	246	C3			
6008, 6009 (101.524)	Vol.	1012418335.	15	Order from Mfr.				1012018559. 1012018560.	13 13	BB21. BB21.									
6010 (101.519)	Vol.	1012418418.	17	MR55.	M27														

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK— 6012, 6013 (101.509)	Continued Vol.	1012417919.	15	MR55.				1012016259.	12/13	2N502.					6	1C7G, 1H4G, 1F7GH, 1G5G.	465	
6014, 6015 (101.505)	Vol.	1012418108.	17	MR55.	M27			1012016259.	12/13	2N502.					6	1C7G, 1F7GH, 1H4G, 1A6G.	465	
6016, 6017 (101.512)	Vol.	1012418335.	17	Order from	Mfr.			1012016259.	12/13	2N502.				6	1C7G, 1F7GH, 1H4G, 4A6G.	465		
6018, 6019 (101.524)	Vol.	1012418335.	15	Order from	Mfr.			1012018559. 1012018560.	13 13	BB21 BB21				7	1C7G, 1D5GP, 1F7GH, 1H4G, 4A6G.	465		
6021 (100.195)	Vol.	10024113889	127	MR48.	M26			10020112883	60	3S584.				6	6A8G, 6K7G, 6Q7G, 6K6G, 5W4G, 6U5	465		
6022 (101.509.1-2)	Vol.	1012418257.	127	MR55.				1012018256.	1, 15	2N562 2N504	B181			7	6J8G, 6U7G, 6H16G, 6B6G, 25L6G, 6U5, 25Z6G.	465		
6023 (101.506)	Vol.	1012418163.	17	MR55.				1012018161.	1 15	TN127.				6	6J8G, 6U7G, 6B6G, 25L6G, 6U5, 25Z6G	465		
6024 (101.510)	Vol.	1012418394.	15	MR55.				1012013903. 1012014808.	1 1	WE3050 WE3050				8	6A8G, 6J5G, 6U7G, 6H16G, 6F5G, 6V6G, 6U5, 5Y3G.	465		
6025 (101.547)	Vol.	1012418881.	127	MR55.				1012018869.	1 15	2N562 2N504	B181			7	6J8G, 6U7G, 6J5G, 6F5G, 25L6G, 6U5, 25Z6G.	455	11-11,12	
6028 (126.204)	Vol.	1262430891.	18	MR44.	M26T			1262031099.	1	2S568.				5	6A8, 6K7, 6Q7G, 6K6G, 5Y3G.	455		
6031 (100.195)	Vol.	10024113889	127	MR48.	M26			10020112883	60	3S584.				6	6A8G, 6K7G, 6Q7G, 6K6G, 5W4G, 6U5	465		
6034 (101.510)	Vol.	1012418394.	15	MR55.				1012013903. 1012014808.	1 1	WE3050 WE3050				8	6A8G, 6J5G, 6U7G, 6H16G, 6F5G, 6V6G, 6U5, 5Y3G.	465		
6036 (101.511)	Vol.	1012418616.	17	TM248-SS1				1012013903. 1012014808.	1 1	WE3050 WE3050				10	6U7G, 6A8G, 6J5G, 6Q7G, 6V6G, 7G5, 5Y3G.	465		
6038 (101.517)	Vol.	1012418616.	20	TM248-SS1				13903. 14808. 18764.	3 3 13/15	WE3050 WE3050 BB31/BB15				13	6B8G, 6J5G, 6A8G, 6U7G, 6H16G, 6V6G, 6AE6G, 6AD6G, 5X4G.	455		
6040 (101.519)	Vol.	1012418418.	17	MR55.	M27									4	1C7G, 1D5GP, 1F7GH, 1G5G.	465		
6042, 6043 (101.504)	Vol.	1012417919.	15	MR55.				1012016259.	12/13	2N502.				6	1C7G, 1H4G, 1F7GH, 1G5G.	465		
6044	Vol.	1012418108.	17	MR55.	M27			1012016259.	12/13	2N502.				6	1C7G, 1F7GH, 1H4G, 4A6G.	465		
6045	Vol.	1012418108.	17	MR55.	M27			1012016259.	12/13	2N502.				6	1C7G, 1F7GH, 1H4G, 4A6G.	465		
6046, 6047 (101.512)	Vol.	1012418335.	17	Order from	Mfr.			1012016259.	12/13	2N502.				6	1C7G, 1F7GH, 1H4G, 4A6G.	465		
6048, 6049 (101.524)	Vol.	1012418335.	15	Order from	Mfr.			1012018559. 1012018560.	13 13	BB21 BB21				7	1C7G, 1D5GP, 1F7GH, 1H4G, 4A6G.	465		
6050, 6051 (Ch. 101.503-1)	Vol.	1012418877.	17	MR55.	M27									4	1C7G, 1D5GP, 1F7G, 1G5G.	455		
6052, 6053 (101.525)	Vol.	1012418808.	15	MR55.				1012016259.	12/13	2N502.				6	1C7G, 1F7GH, 1H4G, 1G5G.	465		
6054, 6055 (101.532)	Vol.	1012419021.	17	MR55.	M27									4	1C7G, 1D5GP, 1F7GH, 1G5G.	465	10-65	
6056, 6057 (101.548)	Vol.	1012419892.	15	MR55.				1012019891.	12	BB22.				5	1C7G, 1F7GH, 1H4G, 1G5G.	455	11-13	
6058, 6059 (101.505)	Vol.	1012418108.	17	MR55.	M27			1012016259.	12/13	2N502.				6	1C7G, 1F7GH, 1H4G, 4A6G.	455		
6064 (101.505)	Vol.	1012418108.	17	MR55.	M27			1012016259.	12/13	2N502.				6	1C7G, 1F7GH, 1H4G, 4A6G.	465		
6065 (101.505)	Vol.	1012418108.	17	MR55.	M27			1012016259.	12/13	2N502.				6	1C7G, 1F7GH, 1H4G, 4A6G.	455		
6068, 6069 (101.504)	Vol.	1012418335.	15	Order from	Mfr.			1012018559. 1012018560.	13 12	BB21 BB21				7	1C7G, 1D5GP, 1F7GH, 1H4G, 4A6G.	465		
6070 (100.189)	Vol.	10024113419	18	MR44.	M27			10020113422 10020110377 .01	1 78	2N516 BB12 Buffer.		10151110800	246	C3	5	1C7G, 1D5GP, 6T7G, 1F5G, 6AB5.	465	10-63,64
6071 (101.507)	Vol.	1012418163.	17	MR55.				1012018184. 1012018672. .009-.009	1/15 7	2N502/BB12 BB15 Buffer.	B14	1015114840.	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GV, 6G6G, 6AB5.	465	
6072 (101.513)	Vol.	1012418259.	17	MR55.				1012018493. 1012018672. .009-.009	1/15 78	3S525 BB15 Buffer.	B14	1015114840.	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GV, 6G6G, 6AB5.	465	
6073 (101.528)	Vol.	1012418939.	18	Order from	Mfr.			1012018938. .012	1/15	3S578 Buffer.	B14	1015114300.	294	C3	6	6D8G, 6S7G, 6T7G, 6AB5, 6G6G, 6ZY5G.	465	10-67,68
6074 (101.515)	Vol.	1012418715.	17	Order from	Mfr.			1012018714. .012	1/13/15	3S578/BB13 Buffer.	B14	1015114300.	294	C3	7	6D8G, 15, 6T7G, 6ZY5G, 6L5G, 1J6G, 6AB5.	465	10-71

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK— 6076 (101.507).....	Continued Vol.	1012418163	17	MR55				1012018184 1012018672 .009-.009	1/15 78	2N502/BB12 BB15 Buffer	B14	1015114840	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GV, 6G6, 6AB5	465	
6077 (101.513).....	Vol.	1012418259	17	MR55				1012018493 1012018672 .009-.009	1/15 78	3S325 BB15 Buffer	B14	1015114840	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GV, 6G6G, 6AB5	465	
6079 (101.515).....	Vol.	1012418715	17	Order from	Mfr.			1012018714 .012	1/13/15	3S578/BB31 Buffer	B14	1015114300	294	C3	6	6D8G, 15, 6T7G, 6L5G, 1J6G, 6AB5	465	
6100 (101.495).....	Vol.	1012416101	15	UM157		See Note A96		1012017567 .005	2/1/3	3S584 Buffer	B14	R16034	852	C3	6	6U7G, 6A8G, 6B8G, 6V6G, 0Z4G or 6X5G	262	10-69,70
6101 (101.496).....	Vol.	1012416100	20	TM224-SS12				1012017576 .005	24/13/15	3S584/TN111 Buffer	B14	R16034	852	C3	7	6U7G, 6A8G, 6H7G, 6N7G, 0Z4G or 6X5G	262	10-7?
6102, 6102A, 6103, 6103A (101.526).....	Vol.	1012418344	6	MR20	M26	EX150		1012017761	1/15	TN127					5	6D6, 6F5G, 25L6G, 12Z3		10-73,74
6104 (126.203).....	Vol.	1262431637	18	MR48	M26			1262031598 .0075	2/1/15	3S579 Buffer	B14	80985-3	850	C3	5	6A8, 6K7, 6Q7, 6F6, 6X5	455	10-75-77
6105, 6105A (101.526).....	Vol.	1012418344	6	MR20	M26	EX150		1012017761	1/15	TN127					5	6D6, 6F5G, 25L6G, 12Z3		
6106, 6107, 6108 (109.278).....	Vol.	109245912	8	MR22	M26			109205780 109205779	25 25	BB25 BB21					4	12K7GT, 12F5GT, 35L6GT, 35Z4GT		11-14
6109, 6110, 6111 (101.568).....	Vol.	1012418827	6	MR21	M26	EX150		1012018823	1/15	3S579					5	6K7, 6J7, 25A6G, 1V		
6112, 6113 (101.521)	Vol.	1012418827	6	MR21	M26	EX150		1012018823	1/15	3S579					5	6K7, 6J7, 25A6G, 1V		10-79
6114, 6115 (101.522)	Vol.	1012418827	6	MR21	M26	EX150		1012018823 8	9 9	3S579 BB31					5	6K7, 6J7, 25A6G, 25Z6G		10-80
6116 (109.278).....	Vol.	109245912	8	MR22	M26			109205780 109205779	25 25	BB25 BB21					4	12K7GT, 12F5GT, 35L6GT, 35Z4GT		11-14
6118 (101.521).....	Vol.	1012418827	6	MR21	M26	EX150		1012018823	1/15	3S579					5	6K7, 6J7, 25A6G, 1V		
6119, 6120 (101.546)	Vol.	1012419856	18	MR48				1012019845 1012019913	9/15 9	TN127 BB24					6	6J8G, 6U7G, 6B6G, 25B6G, 6U5, BK42B, 25Z6G	455	
6121 (100.195).....	Vol.	10024113889	127	MR48	M26			10020112883	60	3S584					6	6A8G, 6K7G, 6Q7G, 6K6G, 6U5, 5W4G	465	
6122 (101.509-1-2)...	Vol.	1012418259	127	MR55				1012018256	1/15	2S562/2N504	B181				7	6J8G, 6U7G, 6H6G, 6B6G, 25L6G, 6U5, 25Z6G	465 455	
6123 (101.506).....	Vol.	1012418163	17	MR55				1012018161	1/15	TN127					6	6J8G, 6U7G, 6B6G, 25L6G, 6U5, 25Z6G	465	
6124 (101.510).....	Vol.	1012418394	15	MR55				1012013903 1012014808	1 1	WE3050 WE3050					8	6A8G, 6J5G, 6U7G, 6H6G, 6F5G, 6V6G, 6U5, 5Y3G	465 455	
6125 (101.527).....	Vol.	1012418881	127	MR55				1012018869	1/15	2S562/2N504	B181				6	6J8G, 6U7G, 6H6G, 25L6G, 6U5, 25Z6G	465	10-81
6126, 6127 (101.546)	Vol.	1012419856	18	MR48				1012019845 1012019913	9/15 9	TN127 BB24					6	6J8G, 6U7G, 6B6G, 25B6G, 6U5, 25Z6G, BK42B	455	
6128 (101.547).....	Vol.	1012418881	127	MR55				1012018869	1/15	2S562/2N504	B181				7	6J8G, 6U7G, 6J5G, 6F5G, 25L6G, 6U5, 25Z6G	455	
6130 (101.557).....	Vol.	1012419856	18	MR48				1012019845 1012019913	9/15 9	3N534 BB24					6	6J8G, 6U7G, 6B6G, 25B6G, 6U5, 25Z6G, BK42B	455	11-17,18
6131 (100.195).....	Vol.	10024113889	127	MR48	M26			10020112883	60	3S584					6	6A8G, 6K7G, 6Q7G, 6K6G, 5W4G, 6U5	465	
6132 (101.509-1-2)...	Vol.	1012418259	127	MR55				1012018256	1/15	2S562/2N504	B181				7	6J8G, 6U7G, 6H6G, 6B6G, 25L6G, 6U5, 25Z6G	465 455	
6133 (101.535).....	Vol.	1012418259	127	MR55				1012019192	1/15	Order from	Mfr.				8	6J8G, 6U7G, 6J5G, 6F5G, 6Y5G, 6U5, 6W5G	455	11-19,20
6134 (101.510).....	Vol.	1012418394	15	MR55				13903 14808	1 1	WE3050 WE3050					8	6A8G, 6J5G, 6U7G, 6H6G, 6F5G, 6V6G, 6U5, 5Y3G	465 455	
6136 (101.511).....	Vol.	1012418616	17	TM248-SS1				1012013903 1012014808	1 1	WE3050 WE3050					10	6U7G, 6A8G, 6H6G, 6Q7G, 6V6G, 6G5, 5Y3G	465 455	10-56,57
6137 (101.535).....	Vol.	1012418259	127	MR55				1012019192	1/15	Order from	Mfr.				8	6J8G, 6U7G, 6J5G, 6F5G, 6Y5G, 6U5, 6W5G	455	11-10, 19,20,27
6138 (101.517).....	Vol.	1012418616	20	TM248-SS1				1012013903 1012014808 1012018764	3 3 13/15	WE3050 WE3050 BB31/BB15					13	6B8G, 6J5G, 6A8G, 6U7G, 6H6G, 6V6G, 6AE6G, 6AD6G, 5X4G	465 455	10-44 55,58
6139 (101.535).....	Vol.	1012418259	127	MR55				1012019192	1/15	Order from	Mfr.				8	6K8G, 6U7G, 6J5G, 6F5G, 6Y5G, 6U5, 6W5G	455	11-10, 19,20,27

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK— 6140 (101.534).....	Continued Vol.	1012419076.	20	TM248-SS1				1012013903. 1012019079.	1 1	WE3050 WE1830					10	6A8G, 26J5G, 6U7G, 6116G, 6Q7G, 26V6G, 6U5, 5Y3G	465	10-82-84
6141 (101.535).....	Vol.	1012418259.	127	MR55				1012019192.	1/15	Order from	Mfr.				8	6J8G, 6U7G, 26J5G, 6F5G, 6Y5G, 6U5, 6W5G	455 465	11-10, 19,20,27
6142 (101.504).....	Vol.	1012417919.	15	MR55				1012016259.	12/13	2N502					6	1C7G, 1H4G, 1F7GH, 1G5G	465 455	
6144 (101.505).....	Vol.	1012418108.	17	MR55	M27			1012016259.	13	2N502					6	1C7G, 1F7GH, 1H4G, 4A6G	465 455	10-6-8
6146 (101.512).....	Vol.	1012418335.	17	Order from	Mfr.			1012016259.	12,13	2N502					6	1C7G, 1F7GH, 1H4G, 4A6G	465	10-47,48
6148 (101.524).....	Vol.	1012418335.	15	Order from	Mfr.			1012018559. 1012018560.	13 12	BB21 BB21					7	1C7G, 1D5GP, 1F7GH, 1H4G, 4A6G	465	10-44,45
6150 (101.503-1).....	Vol.	1012418877.	17	MR55	M27										4	1C7G, 1D5GP, 1F7G, 1G5G	455	
6151 (101.556).....	Vol.	1012419856.	18	MR48				1012020721. 1012020722.	9 9/15	BB25 3N534					6	6J8G, 6U7G, 6B6G, 25B6G, 6U5, 25Z6G	455	11-21,22
6152, 6153 (101.537)	Vol.	1012419207.	20	TM248-SS1				1012013903. 1012019079.	1 1	WE3050 WE1830					10	6A8G, 26J5G, 6U7G, 6116G, 6Q7G, 26V6G, 6U5, 5Y3G	465	10-82,84
6155, 6156 (101.549)	Vol.	1012419207.	20	TM248-SS1				1012013903. 1012019079.	1 1	WE3050 WE1830					11	6A8G, 26J5G, 6U7G, 6Q7G, 26V6G, 6U5, 5Y3G	455	11-23
6157 (100.198).....	Vol.	10024114651	20	TM243-SS16	M26			10020113261 1002089937 10020110377	25 23 15	WE3050 WE3050 BB12					11	6A8G, 26J5G, 26K7G, 6116G, 6F5G, 26F6G, 5Y3G, 6U5	465	10-85-88
6158, 6159 (101.555)	Vol.	1012418616.	20	TM248-SS1				1012013903. 1012014808.	1 1	WE3050 WE3050					11	26U7G, 6A8G, 26J5G, 6Q7G, 26V6G, 6U5, 5Y3G	455	11-25
6160, 6161 (109.199)	Vol.	109244872.	18	MR48	M26			5780 5893	4 4	BB25 BB22					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455 465	11-26
6162 (101.533).....	Vol.	1012419219.	18	MR48				109205780.	4	BB25					6	6A7, 6D6, 75, 76, 248	465	
6163 (109.199).....	Vol.	109241872.	18	MR48	M26			109205893. 1012016259.	4 12,13	BB22 2N502					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	11-26
6164 (101.505).....	Vol.	1012418108.	17	MR55	M27			1012016259.	12,13	2N502					6	1C7G, 1F7GH, 1H4G, 4A6G	465 455	10-6-8
6165, 6166, 6167 (109.216-1).....	Vol.	109245912.	8	MR22	M26			109205780. 109205779.	23 23	BB25 BB21					4	6K7, 6F5, 25L6, 25Z6		
6168 (Ch. 101.524).....	Vol.	1012418335.	15	Order from	Mfr.			1012018559. 1012018560.	13 12	BB21 BB21					7	1C7G, 1D5GP, 1F7GH, 1H4G, 4A6G	465	10-45
6170 (100.189).....	Vol.	10024113419	18	MR44	M27			10020113422 10020110377 .01	1 78	2N516 BB12 Buffer		10051110800	246	C3	5	1C7G, 1D5GP, 6T7G, 1F5G, 6AB5	465	10-63
6171 (101.507).....	Vol.	1012418163.	17	MR55				1012018181. 1012018672. .009-.009	1/15 78	2N502/BB12 BB15 Buffer	B14	1015114840.	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GV, 6G6G, 6AB5	465	10-6
6172 (101.513).....	Vol.	1012418259.	17	MR55				1012018193. 1012018672. .009-.009	1/15 4	2N502/BB12 BB15 Buffer	B14	1015114840.	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GV, 6G6G, 6AB5	465	10-66
6173 (101.528).....	Vol.	1012418939.	18	Order from	Mfr.			1012018938. .012	1/15	3S578 Buffer	B14	1015114300.	294	C3	6	6D8G, 6S7G, 6T7G, 6AB5, 6G6G, 6Z5G	165	10-67
6175 (109.199).....	Vol.	109244872.	18	MR48	M26			109205780. 109205893.	4 4	BB25 BB22					5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	11-26
6176 (101.507).....	Vol.	1012418163.	17	MR55				18184 18672 .009-.009	1/15 4	2N502/BB12 BB15 BB15		1015114840.	246	C3	6	1C7G, 1H4G, 1D5GP, 1F7GV, 6G6G, 6AB5	465	10-6
6177, 6178, 6179 (109.279).....	Vol.	109244872.	18	MR48	M26			109205780. 109205893.	4 4	BB25 BB22					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-28
6177A, 6178A, 6179A (101.279-1)	Vol.	109244872.	18	MR48	M26			109205780. 109205893.	4 4	BB25 BB22					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-22
6185 (109.279).....	Vol.	109244872.	18	MR48	M26			109205780. 109205893.	4 4	BB25 BB22					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-28
6185A (109.279-1).....	Vol.	109244872.	18	MR48	M26			109205780. 109205893.	4 4	BB25 BB22					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT	455	11-22
6190 (126.209).....	Vol.	1262433393.	18	MR44	M26			10-10-20	24/15	FPT332		1265113688.			6	6K7, 6A8, 6SK7, 6SQ7, 6K6G, 0Z4G	260	11-29-31
6192 (101.555).....	Vol.	1012418616.	20	TM248-SS1				1012016259.	12/13	2N502					11	26U7G, 6A8G, 26J5G, 6Q7G, 26V6G, 6U5, 5Y3G	455	11-25

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
SEARS-ROEBUCK— 6193 (101.517).....	Continued Vol.	1012418616.	20	TM248-SS1				1012013903. 1012014808. 1012018764.	3 3 13/15	WE3050..... WE3050..... BB31/BB15				13	2B8G, 2J5G, 6A8G, 2U7G, 6H16G, 2V6G, 6AE6G, 6AD6G, 5X4G	455		
6195, 6196, 6197 (109.216).....	Vol.	109245252..	8	MR22.....	M26			109205295..	23	2P549.				4	6K7, 6J7, 25L6, 25Z6		10-91	
6199 (101.535).....	Vol.	1012418259.	127	MR55.....				1012019192.	1/15	Order from Mfr.				8	6K8G, 6U7G, 2J5G, 6F5G, 6Y5G, 6U5, 6W5G	455	11-10, 19,20,27	
6200 (101.546).....	Vol.	1012419856.	18	MR48.....				1012019845. 1012019913.	9/15 9	TN127..... BB24				6	6J8G, 6U7G, 6B6G, 25B6G, 6U5, 25Z6G, BK42B	455	11-15	
6201 (101.547).....	Vol.	1012418881.	127	MR55.....				1012018869.	1/15	2S562/2N504	B181			7	6J8G, 6U7G, 6J5G, 6F5G, 25L6G, 6U5, 25Z6G	455	11-11	
6202, 6203 (101.535)	Vol.	1012418259.	127	MR55.....				1012019192.	1/15	Order from Mfr.				8	6J8G, 6U7G, 2J5G, 6F5G, 6Y5G, 6U5, 6W5G	455	11-10, 19,20,27	
6208, 6209 (101.554)	Vol.	1012418335.	18	Order from	Mfr.			1012016259.	12/13	2N502				7	1D7G, 1H4G, 1F7GII, 1H6G, 4A6G	455	11-32	
6210 (100.189).....	Vol.	10024113419	18	MR44.....	M27			10020113422 10020110377	1 78	2N516 BB12 Buffer		10051110800	246	C3	5 1C7G, 1D5GP, 6T7G, 1F5G, 6AB5	465		
6214 (101.552, A)...	Vol.	1012419789.	17	Order from	Mfr.			1012019788. 1012018672.	1/15 78	3S579 BB15		1015114840.	246	C3	6 1C7G, 1H4G, 1D5GP, 1F7GII, 6G6G, 6AB5	455	11-33	
6218 (101.553, A)...	Vol.	1012418939.	18	Order from	Mfr.			1012018938. 009-.009	1/15	3S578 Buffer		1015114300.	294	C3	7 6D8G, 6S7G, 6T7G, 6L5G, 6AB5, 6G6G, 6ZY5G	455	11-34,45	
6225 (133.333).....	Vol.	13324181003	6	MR48.....	M26			1332001482.	24	2N514				3	6K8, 6H8, 25Z6	1570	11-35-37	
6226 (134.802).....	Vol.	134192013..	50	MR44.....	M26			16. 8	24 24	BB24 BB21				2	6A7, 25Z5			
6227, 6228 (126.212)	Vol.	1262432499.	50	MR44.....	M26T			1262032152.	24	FPD217.				2	6A8, 25Z6G		11-38,39	
6229 (126.210).....	Vol.	1262432499.	50	MR44.....	M26T			86027-1	24	FPD208				2	12A8GT, 35Z4GT		11-40	
6233 (Ch. 126.222)...	Vol.	1262434804.	50	MR44.....	M26			1012019845.	9/15	TN127				6	6J8G, 6U7G, 6B6G, 25B6G, 6U5, 25Z6G, BK42B	455	11-15,16	
6250 (101.546).....	Vol.	1012419856.	18	MR48.....				1012019913.	9	BB24				7	6J8G, 6U7G, 6J5G, 6F5G, 25L6G, 6U5, 25Z6G	455	11-11	
6251 (101.547).....	Vol.	1012418881.	127	MR55.....				1012018869.	1/15	2S562/2N504	B181			8	6J8G, 6U7G, 2J5G, 6F5G, 6Y5G, 6U5, 6W5G	455	11-10, 19,20,27	
6252, 6253 (101.535)	Vol.	1012418259.	127	MR55.....				1012019192.	1/15	Order from Mfr.				11	6A8G, 2J5G, 6U7G, 6Q7G, 2V6G, 6U5, 5Y3G	455	11-23	
6254 (101.549).....	Vol.	1012419207.	20	TM248-SS1				1012013903. 1012019079.	1 1	WE3050..... WE1830				4	1A7, 1B5, 1H5, 1C5, 1A7G, 1N5G, 1H5G, 1A5G	455	11-41	
6256 (101.290).....	Vol.		18	MR48.....	M27			8	12	BB21				4	1A7G, 1N5G, 1H5G, 1A5G	455	11-42	
6260 (101.558).....	Vol.	1012420813.	18	MR48.....	M27			1012018560.	12	BB21				5	1A7G, 1N5G, 1H5G, 1A5G	455	11-43	
6261 (101.561).....	Vol.	1012420715.	18	MR48.....				1012019891.	12	BB22				5	1A7G, 1N5G, 1H5G, 1A5G	455	11-44	
6262 (101.550).....	Vol.	1012420515.	18	MR48.....				1012019891.	12	BB22				6	1A7G, 1N5G, 1H5G, 1G4G, 1G6G	455	11-45	
6263 (101.562).....	Vol.	1012420807.	18	Order from	Mfr.			1012019891.	24	BB22				6	1A7G, 1H5G, 1N5G, 1G4G, 1G6G	455	11-46	
6264, 6265 (101.551)	Vol.	1012420807.	18	Order from	Mfr.			1012019891.	24	BB22				4	1A7G, 1N5G, 1H5G, 1C5G	455	11-47	
6266 (101.563).....	Vol.	1012420819.	18	MR48.....	M27			1012019891.	12	BB22				6	1C7G, 1H4G, 1D5GP, 1F7GII, 6G6G, 6AB5	455	11-33	
6270 (101.552, A)...	Vol.	1012419789.	17	Order from	Mfr.			1012019788. 1012018672.	1/15 78	3S579 BB15		1015114840.	246	C3	6 1C7G, 1H4G, 1D5GP, 1F7GII, 6G6G, 6AB5	455	11-33	
6271, 6272 (101.553, A).....	Vol.	1012418939.	18	Order from	Mfr.			1012018938. 012	1/15	3S578 Buffer		1015114300.	294	C3	7 6D8G, 6S7G, 6T7G, 6L5G, 6AB5, 6G6G, 6ZY5G	455	11-34,45	
6301 (126.211).....	Vol. & Tone	1262432978.	80	Order from	Mfr.			1262032240. 0075	1/15	FPT332 Buffer		1265113688.	294	C3	7 6K7, 6A8, 6SK7, 6R7, 2V6G, 0Z4G	260	11-49,50	
6302 (101.598).....	Vol.	1012442244.	18	Order from	Mfr.	See Note A19		1012042243. 004	24/15	FPT328 Buffer		1015142249.	868	C3	6 2K7GT, 6A8GT, 6Q7GT, 6V6G, 0Z4G	455	11-51	
6303 (126.223).....	Vol.	1262435550.	18	MR53.....	M26			86031-4. 008	24/15	FPT332 Buffer		80783-6	742	C3	4 6SA7, 6SK7, 6SQ7, 6V6GT	455	11-53	
6320 (101.585).....	Vol.	1012420911.	18	Order from	Mfr.			1012020935.	1	2N514				6	12A8GT, 12K7GT, 12Q7GT, 6H4GT, 35L6GT, 35Z5GT	455	11-55,56	
6321, 6322, 6323 (101.471, 1A, 1B)	Vol.	1012440078.	45	MR48.....				1012040101.	1/15	3N534				6	6K8G, 6U7G, 6J5G, 6F5G, 25L6G, 25Z6G	455	11-57	

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK— 6324 (101.570)	Continued Vol.	1012440078.	45	MR48				1012040101.	1/15	3N534					7	6K8G, 6U7G, 6J5G, 6F5G, 25L6G, 6U5, 25Z6G	455	11-58
6325 (101.572)	Vol.	1012440208.	127	MR55				1012040158. 1012040157.	9/15 15	F1P319 BB26					8	6K8G, 6U7G, 6J5G, 6F5G, 25B6G, 6U5, 25Z6G	455	11-59,60
6326 (110.987, 1)	Vol. Phono.	1102428 1102429	6 50	MR28 MR44	M26 M26			1102053 1102046	46 46	F1P357 2N513	B117 B12				5	12K7GT, 12J5GT or 12J7GT, 12F5GT, or 12J7GT, 35L6GT, 35Z5GT		12-53
6327 (110.990)	Vol.	1102433	75	MR48	M26			1102049 1102046	24 24	FPD221 2N513	B12				6	12A8GT, 12K7GT, 6H4GT, 12J7GT, 35L6GT, 35Z5GT	455	11-62
6329 (110.989)	Vol.	1102433	75	MR48	M26			1102050 1102046	24 24	FPD221 2N513	B12				6	12A8GT, 12K7GT, 6H4GT, 12J7GT, 35L6GT, 35Z5GT	455	11-76
6335 (101.573)	Vol.	1012440208.	127	MR55				1012040274.	46	See Note	B3				8	6K8G, 6U7G, 6Q7G, 25L6G, 6U5, 25Z6G, 6J5G	455	11-63
6336 (101.574)	Vol.	1012440330.	127	Order from	Mfr.			1012013903. 1012014808.	1 1	WE3050 WE3050					10	6K8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 5Y3G, 6U5	455	11-65
6337 (101.576)	Vol.	1012440381.	124	SM307				1012041502. 1012041503.	1 1	WE3050 WE3050					13	6U7G, 6K8G, 6P5G, 6F5G, 6AC5G, 6U5, 5X4G	455	11-67
6345 (110.982, 2, 3)	Vol. Tone	1102431 1102571	76 76	MR48 MR48	M26			1102028 1102029	1 15	BB44 BB44					6	6A8G, 6K7G, 6H6G, 6F5G, 6V6G, 6X5G	455	11-69
6346, 6346A (101.584, 1, 2)	Vol.	1012440789.	124			See Note	A19	1012013903. 1012014808.	1 1	WE3050 WE3050					11	6U7G, 6K8G, 6Q7G, 6P5G, 6AC5G, 6U5, 5X4G	455	11-71,72
6350, 6351, 6352 (101.580)	Vol.	1012440005.	18	MR48	M27			1012019891.	12	BB22					4	1A7G, 1N5G, 1H5G, 1A5G	455	11-77
6353, 6354, 6355 (101.577)	Vol.	1012440087.	18	MR48				1012019891.	12	BB22					5	1A7G, 2N5G, 1H5G, 1A5G	455	11-78
6356, 6357, 6358 (101.578)	Vol.	1012420515.	18	MR48				1012019891.	12	BB22					5	1A7G, 2N5G, 1H5G, 1A5G	455	11-79
6359, 6360, 6361 (101.579)	Vol.	1012440271.	18	Order from	Mfr.			1012019891.	12	BB22					6	1A7G, 2N5G, 1H5G, 1G4G, 1G6G	455	11-81,82
6362, 6363, 6364 (101.581)	Vol.	1012440271.	18	Order from	Mfr.			1012019891.	12	BB22					6	1A7G, 2N5G, 1H5G, 1G4G, 1G6G	455	11-80,82
6368 (Ch. 101.582)	Vol.	1012441753.	18	Order from	Mfr.			1012041756. .012	1/15	F1P360 Buffer	B117 B14	1015114300.	850	C3	7	6D8G, 6S7G, 6T7G, 6L5G, 6AB5, 6G6G, 6ZY5G	455	11-82,83
6372, 6373 (110.991)	Vol.	1102423	18	MR48	M27			1102025	12	BB21					4	1A7G, 1N5G, 1H5G, 1A5G	455	11-84
6379, 6380, 6381 (101.579)	Vol.	1012440271.	18	Order from	Mfr.			1012019891.	12	BB22					6	1A7G, 2N5G, 1H5G, 1G4G, 1G6G	455	11-81,82
6382 (Ch. 101.594)	Vol.	1012441753.	18	Order from	Mfr.			1012041756. .012	1/15	F1P360 Buffer	B117 B14	1015114300.	294	C3	7	6D8G, 6S7G, 6T7G, 6L5G, 6AB5, 6G6G, 6ZY5G	455	11-82,83
6400, 6401, 6402 (101.565)	Vol.	1012420889.	8	MR22	M26			30-20	1	2N514					4	12K7GT, 12F5GT, 35L6GT, 35Z5GT		11-91
6400A, 6401A, 6402A (101.593, A, B)	Vol.	1012420889.	8	MR22	M26			30-20	1	2N514					4	12K7GT, 12F5GT, 35L6GT, 35Z5GT		11-91
6403, 6404, 6405, 6406 (101.566)	Vol.	1012420911.	18	Order from	Mfr.			1012020935.	1	2N514					5	12A8GT, 12Q7GT, 12K7GT, 35L6GT, 35Z5GT	455	11-85,86
6407, 6408, 6409 (101.567)	Vol.	1012420911.	18	Order from	Mfr.			1012020935.	1	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	455	11-86,87
6421 (101.471)	Vol.	1012440078.	45	MR48				1012040101.	1/15	3N534					6	6K8G, 6U7G, 6J5G, 6F5G, 25L6G, 25Z6G	455	11-57
6424 (101.570)	Vol.	1012440078.	45	MR48				1012040101.	1/15	3N534					7	6K8G, 6U7G, 6J5G, 6F5G, 25L6G, 6U5, 25Z6G	455	11-58
6425 (101.572)	Vol.	1012440208.	127	MR55				1012040158. 1012040157.	9/15 15	See Note BB26	B3				8	6K8G, 6U7G, 6J5G, 6F5G, 25B6G, 6U5, 25Z6G	455	11-59,60

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
SEARS-ROEBUCK— 6435 (101.573)	Continued Vol.	1012440208.	127	MR55				75-30-16	46	See Note	B3				8	6K8G, 6U7G, 6Q7G, 25L6G, 6U5, 6J5G, 25Z6G	455	11-63
6436 (101.574)	Vol.	1012440330.	127	Order from Mfr.				1012013903. 1012014808.	1 1	WE3050 WE3050					10	6K8G, 6U7G, 6Q7G, 6P5G, 6AC5G, 6U5, 5Y3G	455	11-65
6437, 6437A (101.576)	Vol.	1012440381.	124	SM307				1012041502. 1012041503.	1 1	WE3050 WE3050					13	6U7G, 6K8G, 6P5G, 6F5G, 6AC5G, 6U5, 5X4G	455	11-67
6438, 6438A, 6438B, 6439, 6439A, 6440 (101.583)	Vol.	1012440381.	124	SM307				1012013903. 1012014808.	1 1	WE3050 WE3050					11	6U7G, 6K8G, 6Q7G, 6P5G, 6AC5G, 6U5, 5X4G	455	11-89
6441 (101.599)	Vol.	1012440381.	124	SM307				1012042113.	46	Order from Mfr.					9	6U7G, 6K8G, 6Q7G, 6J5G, 25C6G, 6U5, 25Z6G	455	11-92
6446 (101.584, 1, 2)	Vol.	1012440789.	124	†			A19	1012013903. 1012014808.	1 1	WE3050 WE3050					11	6U7G, 6K8G, 6Q7G, 6P5G, 6AC5G, 6U5, 5X4G	455	11-71,72
6447 (Ch. 101.590, 1)	Vol.	1012441616.	124	TM249-SS1				1012041596.	1	FPT228	B117				6	6K8G, 6U7G, 6B6G, 6AF5G, 25AC5G, 25Z6G	455	11-93,94
6447 (Ch. 101.590, 2, 3, 4, 5)	Vol. Tone	1012441616. 1012541939.	124 22	TM249-SS1 UM160-SS1				1012041596.	1	FPT228	B117				6	6K8G, 6U7G, 6B6G, 6AF5G, 25AC5G, 25Z6G	455	
6449 (Ch. 101.628)	Vol. Tone	1012443157. 1012543892.	124 22	Order from Mfr. MR53				1012043064. 1012043888.	3 13	FPT383. RS215					10	6U7G, 6K8G, 6Q7G, 6V6G, 6U5, 6J7G, 5Y3	455	
6490 (101.573)	Vol.	1012440208.	127	MR55				75-30-16	46	See Note	B3				8	6K8G, 6U7G, 6Q7G, 25L6G, 6U5, 6J5G, 25Z6G	455	11-63
6491 (110.982-1A)	Vol. Tone	1102431 1102571	76 76	MR48 MR48			A4	1102028 1102029	1 1	BB44 BB44					6	6A8G, 6K7G, 6I16G, 6F5G, 6V6G, 6X5G	455	11-69
6491A (110.410)	Vol. Tone	1102441 1102444	76 75	MR48 TM227-SS1			A27	1102018 12, 12	15 46	BB17 BB63					6	6A8G, 6U7G, 6I16G, 6F5G, 6V6G, 5Y3G	455	12-54
6492 (101.566)	Vol.	1012420911.	18	MR24 Order from Mfr.				20 1012020935.	46 1	ST598 2N514					5	12A8GT, 12Q7GT, 12K7GT, 35L6GT, 35Z6GT	455	11-85
6493 (Ch. 101.570, 1A, 1B)	Vol.	1012440078.	45	MR48				1012040101.	1/15	3N534					7	6K8G, 6U7G, 6J5G, 6F5G, 25L6G, 6U5, 25Z6G	455	11-58
6493A (101.610-2A)	Vol.	1012442656.	45	TM233-SS1				1012043653. 1012042425.	9/15 9	Order from Mfr. 2N514	B8				7	6K8G, 6U7G, 6J5G, 6F5G, 25C6G, 35Z4G	455	11-58
6494 (110.982-1A)	Vol. Tone	1102431 1102571	76 76	MR48 MR48			A4	1102028 1102029	1 1	BB44 BB44					6	6A8G, 6K7G, 6I16G, 6F5G, 6V6G, 6X5G	455	11-69
6495 (101.573)	Vol.	1012440208.	127	MR48 MR55			A27	1102018 75-30-16	15 46	BB17 See Note	B3				8	6K8G, 6U7G, 6Q7G, 25L6G, 6U5, 6J5G, 25Z6G	455	11-63
6496 (101.566)	Vol.	1012420911.	18	Order from Mfr.				1012020935.	1	2N514					5	12A8GT, 12Q7GT, 12K7GT, 35L6GT, 35Z5GT	455	11-85
6497 (101.595)	Vol.	1012440381.	124	SM307				1012041502. 1012041503.	1 1	WE3050 WE3050					11	6U7G, 6K8G, 6Q7G, 6P5G, 6AC5G, 6U5, 5X4G	455	11-95
6521 (101.621, 1, 1A, 1B, 1C)	Vol.	1012442622.	18	MR53				1012042644.	1/78	Order from Mfr.					6	1A7GT, 21N5GT, 11H5GT, 3Q5GT, 50Y6GT	455	12-55, 56,58
6541 (110.401)	Vol.	1102439	18	MR48				1102025	12	BB21					4	1A7GT, 1N5GT, 11H5GT, 1A5GT	455	12-59
6551 (101.620, 1, 2)	Vol.	1012442622.	18	MR53				1012042644.	1/78	Order from Mfr.					5	1A7GT, 1N5GT, 11H5GT, 1A5G, 50Y6GT	455	12-57,58
6561 (101.621-1, A, 1A, 1B, 1C, 2)	Vol.	1012442622.	18	MR53				1012042644.	1/78	Order from Mfr.					6	1A7GT, 21N5GT, 11H5GT, 3Q5GT, 50Y6GT	455	12-55,56
6621 (101.637)	Vol.	101244265.	18	Order from Mfr.				1012042033. 1012042031.	1 1/78	FPT221 FPT357	B3 B8				6	1A7GT, 21N5GT, 11H5GT, 3Q5GT, 50Y6GT	455	12-60
6641 (136.410)	Vol.	1363525	18					1362521	12	BB21					4	11Z6GT	455	12-60
6651 (110.402)	Vol.	1102439	18	MR48				1102025	12	BB21					5	11S, 1T4, 1S5, 1S4, 1A7GT, 1N5GT, 11H5GT, 1A5GT	455	12-59

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK— 6661 (101.621, A-1, 1A, 1B, 1C)	Continued Vol.	1012442622	18	MR53	M27			1012042644	1/78	Order from	Mfr...				6	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 50Y6GT	455	12-55,56
6721 (101.622-A, 101.622, 1, 1A)	Vol.	1012442976	18	Order from	Mfr...			1012042644	1/78	Order from	Mfr...				6	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 25Z6GT	455	12-61
6751 (101.623, 1)	Vol.	1012442976	18	Order from	Mfr...			1012042644	1/78	Order from	Mfr...				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 25Z6GT	455	12-62
6751A (101.636)	Vol.	1012444265	18	Order from	Mfr...			1012042033, 1012042644	1 1/78	FPD221 FPT357	B3 B8				5	1A7GT, 1N5GT, 1H5GT, 1A5G/GT, 11Z6GT	455	12-63
6761 (101.622-A, 101.622, 1, 1A)	Vol.	1012442976	18	Order from	Mfr...			42644	1/78	Order from	Mfr...				6	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 25Z6GT	455	12-61
6761A (101.637, 1)	Vol.	1012444265	18	Order from	Mfr...			1012042033, 1012042031	1 1/78	FPD221 FPT357	B3 B8				6	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 11Z6GT	455	12-60
6921 (101.637)	Vol.	1012444265	18	Order from	Mfr...			1012042033, 1012042031	1 1/78	FPD221 FPT358	B3 B8				6	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 11Z6GT	455	12-60
7000, 7001, 7002	Vol. Tone	7864 7037	109 22	N K12	6			7078 7051	4 4	RS216 RS213				10	*27, *35, *24A, *47, 80	175		
7003	Vol. Tone	P4081 P4079	8 44	G L	6	EX150		P1632	28	RS213	B3			10	*51, *27, *47, 80	175		
7004 (106)	Vol. Tone	7613 7037	26 22	F K12	6			7078 7051	34 34	RS216 RS213				8	*35, *24, 27, *47, 80	175		
7006	Vol. Tone	7613 7037	8 22	F K12	6			7051	34	RS213				7	*51, *24, 27, 47, 80	175		
7009 (101) 7010, 7012, 7016 (106)	Vol. Tone	R6025 7864 7037	6 109 22	H7 N K12	6	1		4758P 7078 7051	4 34 34	HD684 RS216 RS213				6	*24, 35, 47, 27, 80	175	2-14	
7020	Vol. Tone	7864 7037 7732	109 22 6	N K12 F7	6	2		7078 7051 7077	34 34 4	RS216 RS213 RS213				10	*27, *35, *24A, *47, 80	175		
7021, 7022, 7023, 7024, 7025, 7026	Vol. Tone	7613	8	F	6			7051	34	RS213				7	*51, *24, 27, 47, 80	175		
7030 (106)	Vol. Tone	7864 7037	109 22	N K12	6			7078 7051	34 34	RS216 RS213				9	*35, *24, *27, *47, 80	175		
7031, 7032, 7033, 7034, 7035, 7036, 7037	Vol. Tone	7864 7037	109 22	N K12	6			7078 7051	34 34	RS216 RS213				10	*27, *35, *24A, *47, 80	175		
7042	Vol.		6	G7	6	2		9110-0	25	2S567				5	55, 57, 58, 47, 80	175		
7043, 7044, 7045, 7046, 7047	Vol. Tone	P4260 P4259	15 22	UC503 L	6			1-2-8	26	See Note	B1			10	*35, 57, *27, 56, *47, 80	175	5-51,52	
7048	Vol.		6	G12	6			P4443	23	2S567				5	*57, 58, 47, 80	175	5-53	
7049	Vol. Tone	P4273 P4259	8 22	E L	6			See Note	26	See Note	B1			6	*51, 24A, 57, 47, 80	175	5-55,56	
7050	Vol. Tone	R6762 R6570	6 57	H12 N	6			4758P	23	HD684				6	39, *36, *89, 80	175	7-1,2	
7055, 7055A, 7055L	Vol.	9331	6	H7	6	2		9327 9372 9328	8 8 15	2N502 BB20 TN111				5	*38, 39, 36, 25Z5	262		
7056	Vol.	R6944	6	H12	6			4758P	23	HD684				5	39, *36, 89, 80	175	6-13	
7057, 7058	Vol.	9331	6	H7	6	2		9442	11	UR182	B31			5	6A7, 78, 75, 43, 25Z5	265 or 465 262		
7060, 7060A	Vol.	9331	6	H7	6	2		9327 9372 9328	8 8 15	2N502 BB20 TN111				5	*38, 39, 36, 25Z5	265		
7061, 7062	Vol.	R8059	68	D12	6			8053	29	CM175	B51			5	6A7, 6B7, 77, 43, 25Z5	175	4-1,2	
7063	Vol. Tone	1026-Z 1026-3	15 22	UM154 UM133	M26		A96	1028-2 1067-4	1 15	2N518 BB12		10704	220B	C3	5	6A8, 6E7, 6B7, 41, 84	456	
7064	Vol.	R8304	6	UC509	6		EX300	R8313	23	2P542				4	78, 77, 43, 1V	175	4-3	
7065	Vol. Tone	R8679 R6571	7/18 57	DRP313 N	6			R7236 D4758P R1114	23 23 1	RS216 HD684 BB60				10	*78, 75, 37, *45, 6A7, 83V	175	4-22,23	
7066	Vol. Tone		15 21	UC503 L				8-12	34	See Note	B3			10	*58, 57, *56, *46, 80	175	5-57	
7068	Vol.	9776	15	UM154	M26		A96	9532 9328 .02	1 15	2N519 BB12 Buffer		9536	292	C3	6	*78, 6A7, 75, 41, 84	265	
7070, 7071, 7072, 7073, 7074	Vol.	R8433	56	N	6			R8431	4	2P542				5	6A7, 78, 6B7, 43, 1V	480	4-4,5	
7075, 7076, 7077, 7078	Vol.	R8433	56	N	6			R8952	29	3S582				5	6A7, 78, 6B7, 43, 25Z5	480	4-33,34	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS								CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
SEARS-ROEBUCK— 7080, 7081.....	Continued Vol. Tone	P4365 P4259	20 22	TRP606 L				6-8	34	See Note	B3				14	58, 75, 46, 82	175		
7082.....	Vol. Tone	P4259 P4259	15 21	UM158-SS1 L	6			P4514	23	2S563					10	58, 57, 56, 46, 80	175		
7083, 7083A, B, C, D	Vol. Tone		15 44	M K12				50-10-8 8	11 13	See Note BB21	B3				12	6D6, 85, 47, 43, 25Z5	175		
7084.....	Sen. Vol.		7 6	J K12											4	6D7, 6E7, 43, 25Z5			
7085.....	Vol.	9042	6	K12				651 21-8-4	1	UR193 UR182					5	6E7, 6D7, 43, 25Z5			
7088.....	Vol.		15	UM147	M27		A96	9337	4	2S560			220B		6	G57AS, G58AS, G75, G89, G6Z5	456		
7090.....	Vol.	R8359	29	U				R8357	13/19	BB21/BB15					5	951, 30, 950, Ballast No. 52	175	4-17	
7090A.....	Vol.		29	U				R8357	13/19	BB21/BB15					5	951, 30, 950, Ballast No. 52	480	5-5	
7091, 7092, 7093, 7094.....	Vol.	R8433	56	N	6			R8952	29	3S582					5	6B7, 43, 78, 6A7, 25Z5	480 175	4-33, 34 3-2	
7100.....	Vol. Tone	R7240 R6570	6 57	H12 N				4758P	25	HD684					7	57, 58, 24A, 47, 56, 80	175		
7101.....	Vol. Tone		15 44	M K12				50-10-8 8	11 13	See Note BB21	B3				12	6D6, 85, 47, 43, 25Z5	175		
7102.....	Sen. Vol.		7 22	J K12				8-4 10	1 17	2N518 BB12					5	58, 57, 47, 80	456		
7103.....	Vol. Tone	R8679 R6571	7/18 57	DRP317 N				R7236 D4758P R1114	23 23 1	RS216 HD684 BB60					10	78, 6A7, 75, 45, 37, 83V	175	4-22	
7106.....	Vol.	9611	6	H7				9925	12	CS133					5	32, 34, 30, 33, 5E1	465	5-63	
7108.....	Vol.	9611	6	H12				9328	15	TN111					5	78, 77, 38, 37	465	5-63	
7109.....	Vol. Tone		15 44	M K12				50-10-8 8	11 13	See Note BB21	B3				12	6D6, 85, 47, 43, 25Z5	175		
7110.....	Sen. Vol.		7 452	J UC509	6			12-8-10	24/15	UR189	B189				4	78, 77, 38, 12Z3		5-58	
7111.....	Vol. Tone	P4979 P4978	18 22	MR48 MR21		M26		P4961	28	3S584					8	58, 55, 56, 53, 80	175		
7111X, 7112, 7114..	Vol.	105	6	SRP263	6			106	11	UR182	B31				5	6A7, 75, 6D6, 43, 25Z5	456	5-63	
7115.....	Vol. Tone	R8679 R6571	7/18 57	DRP317 N				R7236 D4758P R1114	23 23 1	RS216 HD684 BB60					10	78, 6A7, 75, 45, 37, 83V	175	4-22	
7116.....	Vol.	582	18	MR48				569	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456		
7117.....	Vol.	1145	17	UM154	M26		See Note A96	1138	1	2N518			271		4	6A7, 6D6, 6B7, 41	370	5-59, 60	
7118.....	Vol. Tone	R6570 R6570	62 147	N N				9328	15	TN111					8	78, 37, 42, 6A7, 83V	175	5-61, 62	
7119, 7120.....	Vol. Tone	9666 9174	17 22	MR44 K12		M26		9659	1	2N518					6	2A7, 58, 2A6, 2A5, 80	465		
7121, 7122.....	Vol.	105	6	SRP263	6	EX300		1110	13	BB60					4	58, 57, 2A5, 80		5-64	
7123.....	Vol.	256	18	N	6			8876	15	BB12					5	6A7, 78, 75, 43, 25Z5	456	5-30	
7124.....	Vol. Tone	256 306	18 22	N K12				156	1	2N518					7	58, 57, 2A6, 56, 2A5, 80	456	5-65	
7125.....	Vol. Tone	9296 9295	15 22	N K12	6			307	15	BB12					10	58, 2B7, 57, 56, 2A3, 5Z3	465		
7126.....	Sen. Vol.	9834 60	7 7	G UC509		8		9739	31/15	RS215 4S718					4	77, 78, 38, 12Z3		5-66	
7127.....	Vol. Tone	256 306	18 22	MR48 K12				156	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456	7-63	
7127 (revised).....	Vol. Tone	462 464	18 1	MR48 ↑			See Note A5	461	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456	10-5	
7128.....	Vol. Tone	464 R9710	1 56	↑ SRP252				307	15	BB12					6	78, 6A7, 85, 41, 84	175	5-67, 68	
7129.....	Vol.	R6571	62	MR48				R10264	23	CM172			294	C20	6	78, 6A7, 85, 41, 84	175	5-67, 68	
7130.....	Vol.	60	7	UC509	6			.01-.01	23	Buffer	B14		296	C20	8	6A7, 78, 37, 42, 83	480		
7132.....	Vol. Tone	256 306	18 22	N K12				4758P	24/15	UR189	B189				4	78, 77, 38, 12Z3		5-66	
7133.....	Vol. Tone	462 464	18 1	MR48 ↑			See Note A5	156	1	2N518					7	58, 57, 2A6, 56, 2A5, 80	456	5-65	
7134.....	Vol.	105	6	SRP263	6	EX300		307	15	BB12					5	2A7, 58, 2A6, 2A5, 80	456	10-5	
7135.....	Vol.	E60	58	UC509				156	1	2N518					4	58, 57, 2A5, 80			
7136, 7137.....	Vol.	452	18	MR48	M26			205	8	TN122/BB12					4	78, 77, 43, 25Z5		5-17	
7138.....	Vol.	R6571	62	MR48				E156	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456	7-64	
7139.....	Vol. Tone	470 464	18 1	MR48 ↑		M26		4758P	23	HD684					8	6A7, 78, 37, 42, 83	480		
7140.....	Vol.	E452	18	MR48	M26		See Note A5	461	1	2N518					5	2A7, 58, 2A6, 2A5, 80	456	10-5	
7141, 7142.....	Vol.	24A	18	N				307	15	BB12					5	2A7, 58, 2A6, 2A5, 80	456	7-64	
								28A	8	TN122					6	43, 75, 6D6, 6A7, 25Z5	456	6-50	

‡ Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK—	Continued																	
7143	Vol. Tone	256 306	18 149	N K12	6			156	1	2N518					9	5B, 57, 56, 2A5, 80...	456 8-79	
7143A	Vol.	E452	18	MR48	M26			E156 307	15	2N518 BB12					5	2A7, 5B, 2A6, 2A5, 80	456 7-64	
7144	Vol.	452	18	MR48				656	1	2N518					6	6A7, 6D6, 75, 42, 80	456 7-65	
7145	Vol.	R10201	18	MR48	M26			R9204 R9397	23 23	RS213 RS213				5	6A7, 78, 75, 41, 84	480		
7146	Vol.	R10604	18	MR48	M26			R10601	29	UR190				5	6A7, 78, 75, 43, 25Z5	480		
7147	Vol. Tone	R10712 R10648	29 34	U N				R10673	13/19	2N516/BB17				5	951, 32, 30, 33, Bal- last No. 30	175 5-42		
7148	Vol. Tone	R10648 R10711	18 107	N N				4758P	23	11D684				6	78, 75, 42, 41, 80	480		
7149	Vol. Tone	R9710 R9711	18 22	SRP252 N	6			R9743 R9144	1 15	2N518 BB12		R9723 R10073	220B 296	C13 C14	6	78, 6B7, 41, 6A7, 84	175	
7150	Vol.	452	18	MR48	M26			.01-.01 656	1 15	Buffer 2N519 BB12	B14			5	6A7, 6D6, 75, 42, 80	456 7-66		
7151	Vol. Tone	1572 1573	17 34	MR53 M	6			1624A	1	2N518				6	6A7, 78, 75, 42, 80	370		
7152	Vol.	F60	7	UC509				205	8/15	TN122/BB12				4	78, 77, 43, 25Z5			
7153	Vol.	87A	6	Y	6			156 307	1 15	2N518 BB12				4	58, 57, 2A5, 80	7-9		
7154	Vol.	452	18	N	6			504 10	1 15	2N518 BB12				6	6A7, 6D6, 75, 42, 80	456 7-66		
7155	Vol. Tone	452 47A	18 22	MR48 K12	M26			650 10	1 15	2N518 BB12				6	6A7, 6D6, 75, 42, 80	456 7-67		
7156	Vol.	2410	18	SRP252	6			1809 .015	4	2S567 Buffer	B14	9600	294	C3	6	6D6, 6A7, 75, 41, 84	175	
7157	Vol.	2B	18	UM154		See Note A96		8-4 .02	1	2N518 Buffer	B14	22B	294	C3	5	77, 78, 75, 41, 84	456 7-4	
7158	Vol.	452	18	MR48	M26			656 10	1 15	2N519 BB12				6	6A7, 6D6, 75, 42, 80	456 7-68		
7159	Vol. Tone	1572 1573	17 34	MR53 M	6			1624A	1	2N518				6	6A7, 78, 75, 42, 80	370		
7160	Vol.	256	56	N	6			106	8	UR193				5	6A7, 78, 75, 43, 25Z5	456 5-30		
7161, 7162	Vol. Tone	452 47A	18 22	MR48 MR48	M26			656 56A	1 15	2N519 BB12				6	6A7, 6D6, 75, 42, 80	456		
7163	Vol.	1145	17	UM154	M26		A96	1188 8876	1 15	2N518 BB12		1893	294	C3	5	6A7, 6D6, 6B7, 41, 84	370	
7164	Vol. Tone	R10740 R10740	106 106	O O				4758P R9237	28 13	11D684 RS216				14	78, 75, 45, 37, 41, 523	445 6-25		
7165, 7165X	Vol.	RA408	7	UC509	6		A14	CA23	24/15	4S715				4	6D6, 6C6, 38, 12Z3	7-65		
7166, 7166X	Vol.	RB408	98	UC509	6			CB23	6/15	4S715				4	6K7 or 6D6, 6C6, 43, 25Z5	7-63		
7166A	Vol.	102A-B	6	UC509	6			102	1/15	4S715				5	6D6, 6J7, 43, 25Z5			
7167	Vol.	78B	18	UM154	M26		A96	79B .03	1/15 4	3S579 Buffer	B14		294	C3	5	6A7, 6D6, 75, 41, 84	456 7-70	
7168	Vol.	6207A	6	HI2	6	EX300		8812 3003	4 1	CM164 BB12				5	6D6, 6J7, 43, 25Z5	7-69		
7169	Vol.	P385	75	MR48	M26			P160	1	2N518				6	6A7, 6D6, 6116, 6F5, 42, 80	456		
7170, 7170A	Vol. Tone	A15368 A15357	18 34	MR44 L	M26			A15313 A15237	25 25	RS216 RS216				7	6K7, 6D6, 6L7, 75, 76, 42, 80	262.5 10-93		
7171	Vol.	6212	75	MR48	M26			8817 3003	1 15	2N518 BB12				6	6A7, 6D6, 6116, 6F5G, 42, 80	465 10-94,96		
7172	Vol. Tone	110B 110C	18 34	N K12	6			110E	23	CM175				5	6A7, 6D6, 75, 42, 80	456 8-80		
7172X	Vol. Tone	108B 108C	18 34	N K12	6			108E	1	BB24				5	6A7, 6D6, 75, 43, 25Z5	456 8-80		
7173	Vol.	106B	7	UC509	6			106E	24/15	UR193				4	6D6, 6C6, 38, 12Z3	9-81		
7175	Vol. Tone	R10458 R10457A	106 106	N N	6			R7236 R8488	23 23	RS216 11D684				11	78, 37, 85, 47, 41, 80	480 6-32		
7175A	Vol. Tone	R10458 R10457A	106 106	N N	6			R7236 R8488	23 23	RS216 11D684				11	78, 37, 85, 47, 41, 80	445 6-35		
7176	Vol.	RE408	6	M	6			16-8-5	40/15	UR193				5	6K7, 76, 43, 25Z5	10-98		
7177	Vol.	1042420	6	MR18	6			206	4/15	2P546/BB12				5	6D6, 6J7, 43, 25Z5	10-99		
7178	Vol.	104	6	†	6	See Note A5		106	4	UR193				4	6D6, 6C6, 43, 25Z5, 50B2			
7179, 7180	Vol.		15	MR48				8 5	1 5	BB61 BB12				7	6A7, 6D6, 6116, 6C5, 41, 6E5, 80	480		
7181, 7182	Vol. Tone	T6222 T6223	17 34	MR53 N	M26			8819 8822	1 1	RS216 ST595				7	6K7, 6L7, 6Q7, 6F6, 6C5, 5Y3	465 9-82,84		
7183	Vol.	106B	7	UC509	6			8821	15	TN111								
7184	Vol. Tone	110B 110C	18 34	N K12	6			8820	13	RS213				4	6D6, 6C6, 38, 12Z3	9-81		
7185, 7185A	Vol.		6	SRP263				106E	24/15	UR193				5	6A7, 6D6, 75, 42, 80	456		
7186	Vol.	1042414	6	†	6	See Note A5		8-8-5	24/15	3N525				4	6D6, 6C6, 38, 76			
7210 (101.472, X)	Vol.	1012316445	56	Order from Mfr.				1012013	24/15	3N525				4	6D6, 6C6, 38, 76			
7211 (101.7211)	Vol.	1102417	7	MR28	M26			1012015803	12/13	2N502				8	1D5G, 1C7G, 1H6G, 1H4G, 1J6G	465		
7211 (101.7211)	Vol.	1102417	7	MR28	M26			1102016	24/15	3N525				4	6D6, 6C6, 38, 76	10-100		

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK— 7212, 7212A (110.7212)	Continued																	
7213 (101.7213)	Vol.	1102417	7	MR28	M26			1102097	1	2N509				4	6D6, 6C6, 25L6G, 25Z5			
7214 (110.7214)	Vol.	1102444	18	MR48	M26			10120101	1	2N509				4	6D6, 6C6, 25L6G, 25Z5, M55HG		10-101	
7215	Vol. Tone	1102444 1102571	15 21	MR48 MR48	M26			1102042	1	2S569				5	6A7, 6D6, 75, 25L6G, 1V	456	10-101	
7216 (100.184)	Vol.		15			See Note A19		1102043	1	2N514				5	6A7, 6D6, 75, 25L6G, 25Z5, M49HG	456	10-110	
7217 (100.185)	Vol.	1002411358	20	TM240-SS16	M26			1002089937 10020111469 10020112113 10020110377 10020111298 1002089937 1002088680 10020112467 10020110377 10020112113 1002089937 10020111469 10020112476 1002011689 1102011	51 51 15 15 13 3 3 13 15 15 3 3 3 15 1	WE3050 RS216 BB13 BB12 BB60 WE3050 RS213 BB60 BB12 BB13 WE3050 RS216 BB22 BB15 2N514			11	*6K7, 6L7, *6C5, 6H6, *6V6, 6J7, 5U4	465			
7218 (100.186)	Vol.	1002411358	20	TM240-SS16	M26			1262014531 126205212	25 25	WE3050 WE1830				14	*6K7, 6L7, *6C5, *6H6, *6V6, 6J7, *5W4	465		
7219 (110.7219)	Vol.	1102421	7	MR28	M26			1102043	1	2N514				4	6D6, 6C6, 25L6G, 25Z5, M55HG		11-96	
7220 (110.7220)	Vol.	1102444	18	MR48	M26			1102043	1	2N514				5	6A7, 6D6, 75, 25L6G, 25Z5, M49HG	456	10-103, 104	
7221 (126.202)	Vol.	1262431517	124	TM249-SS1				1102010	1	2N509				10	*6K7G, 6A8G, 6H6G, *6F5G, *6F6G, 6U5, 5U4G	465	10-105, 106	
7225 (110.255)	Vol.	1102445	127	MR48	M26			1102010	1	2N509				5	6A7, 6D6, 75, 25L6G, 25Z5, M49HG	456	10-111	
7226 (110.880)	Vol. Tone	1102411 1102510	76 76	MR48 MR48				1102014 1102012	12 1	RS208 2N514				6	6A7, 6D6, 75, 25L6G, 25Z5, M22HG	456	10-112	
7227 (110.258)	Vol.	1102444	18	MR48	M26			1102012	1	2N514				5	6A8G, 6U7G, 6Q7G, 25L6G, 25Z6G, M49HG	455	11-97	
7228 (126.206)	Vol.	1262432402	124	TM249-SS1		See Note A59		32400 32405	25 25	FPS144 BB64				10	*6K7G, 6A8G, 6J7G, 6Q7G, 6F5G, *6F6G, 6U5, 5U4G	455	11-99	
7230 (126.208)	Vol. & Tone	1262431366	45/22	SMD503				1262032485	1/15/14	FPQ424				6	6K8, 6K7G, 6H6G, 6F5G, 6F6G, 5Y3G	455	11-104, 105	
7231 (105.61H)	Vol.	P1555	18	MR48	M26			P1561	23	2P549				5	6A7, 6D6, 75, 25L6G, 25Z5, L49BJ	456	11-107	
7232 (105.6L)	Vol.	P1555	18	MR48	M26			P1561	4	2P549				5	6A7, 6D6, 75, 25L6G, 25Z5, L49BJ	456	11-108	
7233 (105.6PU)	Vol. Tone	P1677 P1764	18 44	MR48 MR39	M27			P958 .01-.01	1	2S567 Buffer	B14	P402	245C	C3	6	6D8G, 6S7G, 6T7G, 330, 19	456	11-109
7234 (105.7MU)	Vol. Tone	P1749 P1750	139 139	TM227-SS1 UM160-SS1	M26			P1755 P304	23 19	2S563 BB12				7	6A7, 6D6, 76, 75, 42, 6U5, 80	456	11-110	
7235 (105.8KU)	Vol. Tone	P1821 P1822	45 22	TM236-SS1 UM160-SS1	M26			P1825 P1783	46 15	3S584 BB12				8	6A7, 6D6, *76, 75, *42, 80	456	11-111	
7236 (105.8TU)	Vol. Tone	P1821 P1822	20 22	TM236-SS1 UM160-SS1	M26			P1853 P1783	1 15	2N514 BB12				7	6A7, 6D6, 75, 76, *43, 25Z5, 17AJ	456		
7241, 7241A (109.246)	Vol. Tone	109245100 109255511	45 22	MR48 L				109202733 109205101	1 1	RS213 RS216				7	6D8G, 6D6, 76, 6K5G, 6V6G, 80	455	11-115, 116	
7242, 7242A (109.190)	Vol. Tone	109242726 109242737	76 76	MR48 MR55	M26			109203375 109203351	23 23	RS216 RS213				8	6A8G, 6D6, 75, 76, *42, 80, 6U5	455	11-118	
7243 (110.255)	Vol.	1102444	18	MR48	M26			1102012	1	2N514				5	6A8G, 6U7G, 6Q7G, 25L6G, 25Z6G, M49HG	455	11-97	
7244 (110.907)	Vol. Phono.	1102417 1102416	7 50	MR28 MR44	M26			1102012 1102018 1102019	1 15 15	2N514 BB17 BB12				5	6D6, 6C6, 25L6G, 25Z5, M49HG, 76		11-119	
7245 (107.375)	Vol. Tone	1072447281 1072511278	18 21	MR53 MR48				10172030266 107205321	1 15	FPD231 BB12				7	6K8G, 6A7, 6D6, 75, 6U5, 6V6G, 80	465	11-133, 134	
7246 (110.988, 1A, 2A)	Vol.	1102444	75	MR48	M26			1102034 1102032	24 24	2N515 BB27				6	12A8GT, 12K7GT, 6H4GT, 12F5GT, 35L6GT, 35Z5GT		11-120	
7250 (110.558-1)	Vol.	1102444	18	MR48	M26			1102012	1	2N514				5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G, M49HG	455	11-97	
7251 (110.988-1A, 2A)	Vol.		75	MR48	M26			1102034 1102032	24 24	2N515 BB27	B12			6	12A8GT, 12K7GT, 6H4GT, 12F5GT, 35L6GT, 35Z5GT		11-20	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SEARS-ROEBUCK 7300 (Export) (126.216).....	Continued Vol. & Tone	1262434110	18/1	Order from Mfr.				1262032240	1/15	FPT332				5	6SA7, 6K7, 6SQ7, 6F6G, 5Y3G	455	11-121	
7305 (Ch. 126.217)...	Vol. Tone	1262433814 1262534186	18 22	Order from Mfr.				1262033014	1/13/15	FPQ424				7	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y3G	455	11-125-128	
7306 (Ch. 126.218)...	Vol. Tone	1262433814 1262534186	18 22	Order from Mfr.				1262033014	1/13/15	FPQ424				7	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y3G	455	11-124	
7307 (Ch. 126.220)...	Vol. Tone	1262433814 1262534186	18 22	Order from Mfr.				1262033014	1/13/15	FPQ424				7	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y3G	455	11-125-128	
7310 (Ch. 126.219)...	Vol. Tone	1262433814 1262534186	18 22	Order from Mfr.				1262034185	1/19	FPT339				9	6SK7, 6SA7, 6SQ7, 6SF5, 6F6G, 6U5, 5Y3G	455	11-129-131	
7312 (Ch. 126.221)...	Vol. Tone	1262433814 1262534186	18 22	Order from Mfr.				1262034185	1/19	FPT339				9	6SK7, 6SA7, 6SQ7, 6SF5, 6F6G, 6U5, 5Y3G	455	11-129-131	
7315 (Export) (126.224).....	Vol.	1262436564	18	MR53	M26			1262035761	77	ST598/4BB62				5	6SA7, 6SK7, 6SQ7, 6K6GT, 5Y3G	455	12-65,66	
7318 (109.369).....	Vol.		18	MR48	M26			20-100	1 1/78	BB25 BB27/11C2501				6	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117M7GT	455	12-67,68	
7320 (Export) (126.225).....	Vol. Tone	1262436702 1262436703	18 1	MR53 MR48	M26			1262032240	1/15	FPT332				5	6SA7, 6K7, 6SQ7, 6F6G, 5Y3G	455		
7321 (Export) (126.229).....	Vol. Tone	1262436706 1262436707	18 1	MR53 MR55	M27			1262033790	12/13	FPD208				4	1A7G, 1N5G, 1H5G, 1C5G	455	12-69,70	
7322 (Export) (126.231).....	Vol. Tone	1262436705 1262436703	18 1	TM238-SS1 MR18	M26			1262035747	77/15	Order from Mfr.				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455		
7325 (126.226).....	Vol. Tone	1262437051 1262537052	124 22	Order from Mfr.				1262033014	1/13/15	FPQ424				6	6SK7, 6SA7, 6SQ7, 6F6G, 5Y3G	455	12-72-74	
7327 (109.370).....	Vol.	109248524	18	MR48	M26			109208525	24	2N514				6	12A8G, 12SK7GT, 12SQ7GT, 25L6GT, 25Z6GT	455		
7330 (Export) (126.227).....	Vol. Tone	1262437183 1262537184	124 22	TM240-SS1 MR53	M26			1262033014	1/13/15	FPQ424				8	6SK7, 6SA7, 6SQ7, 6AD7G, 6F6G, 6U5, 5Y3G	455		
7807 (113.414).....	Vol.	113244149	127	MR55	M26			1132041453	1 15	FPT332				5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y3G	465	11-132	
7814 (113.504).....	Vol.	1135049	18	MR53				11350453	76	FPT304				5	1A7G, 1N5G, 1H5G, 1A5G, 35Z4GT	465	12-75	
8900 (138.130).....	Vol. Tone	13824201 13824203	50 21	MR48 MR48	M26													
8903 (138.210).....	Mike Russ Phono. Treble Master		15 57 50 57 15	MR48 MR48 MR48 UM149-SS1 MR48				13820113 13820102	46/13 15	2S567 2N509				7	6Q7G, 6SC7G, 6N7G, 6L6G, 6W5G			
8904 (138.230).....	Mike Tone Phono.		15 1 50	MR48 UM159-SS1 MR48				13820121 13820108 13820102 1382025	46 46/13 15 15	WE4050 3S584 2N509 BB15				8	6Q7GT, 6SC7, 6J5GT, 6L6G, 5V4G			
8906, 8907, 8908, 8909, 8910, 8911 8912, 8913, 8914 (Ch. 138.100).....	Mike Phono. Tone	13824201 13824201 13825204	15 50 21	MR48 MR48 MR48				13820107 13820115 13820106	46 46 15	BB61 2N518 BB15				5	6J7G, 6Y7G, 6V6G, 5V4G			
8915, 8916, 8917, 8918, 8919, 8920 (138.120).....	Mike Phono. Tone		15 50 57	MR48 MR48 MR33				13820113	46	RM262		Order from Mfr.		6	6J7G, 6N7G, 6W5G, 6L6G			
8922, 8923, 8924, 8925 (138.110).....	Vol. Phono. Tone	13824202 13824201 13824201	15 50 1	MR48 MR48 MR48				13820107 13820108 13820102 13820106	46 46 15 15	BB61 3S584 TN111 BB15				7	6J7G, 6N7G, 6L6G, 5V4G			
8929, 8930, 8950 (138.190, 1, 2, 3).....	Mike Tone Phono.		15 21 50	MR48 UM149-SS1 MR35				13820113 13820102	3/13 15	2S567 2N509	490	Order from Mfr.		10	6J7, 6N7, 6C5, 6L6, 6W5			
8935, 8936, 8937, 8938, 8939, 8940, 8941, 8942 (138.180).....	Mike Phono. Tone		15 50 21 21	MR48 MR48 MR33 MR44				13820121 13820108 13820102	46 46/13 15	WE4050 3S584 TN111				9	6J7G, 6N7G, 5V4G, 6C5G, 6L6G			

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS								CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
SEARS-ROEBUCK— 8960 (Amplifier) (138.140)	Continued																		
Mike Inst. Vol.			15	MR48				13820108	46	3S584					5	6J7, 6Y7, 6L6, 80			
12816, 12817, 12818, 12819, 12820, 12821, 12822, 12823 (138.210)	Mike Bass Phono. Treble Master		15	MR48				13820113	46/13	2S567					7	6Q7G, 6SC7G, 6N7G, 6L6G, 6W5G			
			57	MR48				13820102	15	2N509									
			50	MR48															
			57	UM149-SS1															
			15	MR48															
SENTINEL RADIO C 5-Tube Battery	ORP. (A Vol. Fil. Vol. Tone	iso see Erla) 9611 9624 1495 1732	71 29 18 14	H12 R MR48 M		EX250									5	32, 34, 33, 30	465		
6A					M26			1477 1476 1110 1693	1 1 13 15	RS215 RS216 BB60 BB12				9	6D6, 76, 75, 41, 80	465	8-1,2		
8, 9 10M	Vol. Vol.		6 17	H12 UM154	M26		A96	2-1-1 1188 8876	3 1 15	See Note 2N518 BB12	B1	1893	294	C3	8 5	24A, 27, 45, 80 6A7, 6D6, 6B7, 41, 84	370	3-1 8-5	
10MF	Vol.	1145	17	UM154	M26		A96	1188 8876 .02	1 15	2N518 BB12 Buffer	B14	1893	294	C3	5	6A7, 6D6, 6B7, 41, 84	370	8-3,4	
11, 12, 15, 16 11M	Vol. Vol. Tone		6 18 34	G12 UM154 M	M26		A96	15-5 1973 .026	2 4	MN273 CM172 Buffer	B14	1974	294	C3	7 6	27, 45, 24A, 80 6D6, 6A7, 75, 41, 84	465	1-1 8-6	
14A	Vol. Tone	2220 1732	18/7 44	DRP314 M	6			1477 1476 1110 1693	1 1 13 15	RS215 RS216 BB60 BB12				9	6D6, 76, 75, 41, 80	465	9-1,2		
19A	Vol. Tone	2055 2056	18 34	N K12	6			1477 1476 1110	24 24 13	RS215 RS216 BB60				6	6A7, 6D6, 75, 42, 80	465	8-7		
20A	Vol. Tone	2055 2162	18 22	N MR29	6			1477 1476	25 25	RS215 RS216				5	6A7, 6D6, 75, 42, 80	465	7-1		
30A	Vol.	1835	6	Y	6	EX200		1258 1260 8876	25 25 15	RS213 RS213 BB12				4	6D6, 6C6, 42, 80		8-8		
31, 33 31B	Vol. Vol. Tone		10 45 22	D12 UM154-SS16 K12				5-1-2 2272 .02	3 1	See Note CM164 Buffer	B1	2269	245A	C3	7 6	426, 27, 45, 80 1C6, 34, 330, 19	465	2-8 6-1,2	
32B	Vol.	2239	18	MR48										4	1C6, 34, 1B5, 33	465	8-9		
33B	Vol. Tone	2290 2162	18 22	N MR29	14			2289	12	BB21				5	1C6, 34, 1B5, 30, 19	465	8-10		
34B	Vol. Tone	2260 2239	18 57	MR48 MR48	M27			2272 .02	1	CM164 Buffer	B14	2269	245A	C3	4	1C6, 34, 1B5, 38	465	8-11	
35B	Vol. Tone	2198 2331	15 22	UM154-SS16 K12	14			2289	12	BB21				6	1C6, 34, 330, 19	465	6-3,4		
36L	Vol. Tone	2055 2162	18 44	N MR29	6									6	6A7, 6D6, 75, 76, 48	465	8-12		
37B	Vol.	2239	18	MR48										4	1C6, 34, 1B5, 33, 5E1	465	8-13		
38B	Vol. Tone	2290 2162	18 22	N MR29	14			2289	13	BB21				5	1C6, 34, 1B5, 30, 19	465	8-14		
39B	Vol. Tone	2198 2131	18 22	UM154-SS16 K12	14			2289	13	BB21				6	1C6, 34, 330, 19	465	8-15		
40B	Vol. Tone	2198 2199	18 34	UM154-SS16 K12	6			1477 1476	25 25	RS215 RS216				6	6A7, 6D6, 6H6, 6F5, 42, 80	465	8-16		
44A	Vol. Tone	2198 2199	75 34	UM154-SS16 K12	6			1477 1476 1110	25 25 14	BS215 RS216 BB60				6	6A7, 6D6, 6H6, 6F5, 42, 80	465	9-7,8		
46A	Vol. Tone	2198 2199	18 44	UM154-SS16 K12	6			1477 1476 1110	25 25 13	RS215 RS216 BB60				8	6A7, 6K7, 75, 6C5, 6E5, 6F6, 80	465	9-9,10		
47A, 47AE	Vol. Tone	2699 2700	20 22	TM228-SS16 K12	6			3167 1476 3170	25 25 19	WE3050 RS216 BB13				11	6K7, 6L7, 6J7, 6H6, 6G5, 6C5, 6F6, 5Z3	465	7-5,6		
48A	Vol. Tone	2624 2625	7 22	E K12	6	3		2627	1/15	3S579				5	6A7, 6D6, 76, 41, 80	465	8-17		
49B	Vol. Tone	2239 2282	18 22	MR48 K12	7			2272 .02	1	CM164 Buffer	B14	2269	245A	C3	5	1C6, 34, 6B7, 30, 19	465	8-18	
50B	Vol. Tone	2198 2282	45 22	UM154-SS16 K12	7			2272 .02	1	CM164 Buffer	B14	2269	245A	C3	7	1C6, 34, 330, 19	465	8-19,20	
52A	Vol. Tone	2239 2199	18 22	MR48 MR33	M26			2627	1/15	3S579				5	6A7, 6D6, 75, 41, 80	465	8-21		
53A	Vol. Tone	2198 2199	18 44	UM154-SS16 K12	6			1477 1476	1 1	RS215 RS216				8	6A7, 6K7, 75, 6E5, 6C5, 6F6, 80	465	8-22		

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SENTINEL RADIO CO	OR P.—	Continued																
54A	Vol.	2239	18	MR48				2627	1/15	3S579					5	6A7, 6D6, 75, 41, 80.	465 8-23	
	Tone	2199	22	K12	6													
55U	Vol.	2775	18	N	6			12-20	27	2P549					5	6A7, 6D6, 75, 43, 25Z5	465 8-24	
56U	Vol.	2055	75	N	6			2159	11	2P549/BB21					8	6A8, 6K7, 6I16, 6E5, 6F5, 25A6, 25Z5	465 10-3	
	Tone	2373	22	K12														
60B	Vol.	2239	18	MR48				3060	1	2N518		3069	245A	C3	4	1C6, 3A, 1F6, 33, 5E1	465 8-25	
63B	Vol.	2239	18	MR48				1693	15	BB12					4	*15, 75, 41	465 8-26	
	Tone	2239	22	MR48				.01		Buffer	B14							
65B	Vol.	2239	18	MR48				3150	12	RS216					5	1C6, 3A, 1F6, 30, 19, 5111	465 8-27	
	Tone	2331	22	K12	14													
66B	Vol.	2966	15	TM234-SS16				3060	1	2N518		3069	245A	C3	8	*15, 6A7, 76, 6E5, 19	465 9-3.4	
	Tone	2965	44	MR33	M26			3159	13	BB60								
								8876	15	BB12								
								.02		Buffer	B14							
67L	Vol.	2239	18	MR48														
	Tone	2199	22	K12	6			3060	1	2N518		3069	245A	C3	6	6A7, 6D6, 75, 76, 48	465 10-5	
68B, 68BE	Vol.	2239	45	MR48				1693	15	BB12								
	Tone	2199	22	K12	6			.02		Buffer	B14							
69U	Vol.	3171	6	H12	6	EX250		3013	27	2P549								
								1693	15	BB12								
70A	Vol.	3024	7	E	6	3		3041	1	2N518								
71U	Vol.	2775	17	MR48	M26			20-12	27	2P549								
72A, 72AE	Vol.	2775	17	MR48	M26			3041	1	2N518								
	Tone	3545	22	MR33														
73B	Vol.	3671	15	N				3060	1	2N518		3698	245A	C3	5	6D8G, 6S7G, 6L5G, 41	465 9-13	
	Tone	3545	22	K12				1693	15	BB12								
								.03		Buffer	B14							
74A, 74AE	Vol.	2775	15	MR48	M26			3718	1	2N518								
	Tone	3545	22	K12				1693	15	BB12								
76A	Vol.	3403	20	TM251-SS16				3167	25	WE3050								
								3041	25/13	2N518								
								1110	13	BB60								
								1693	20	BB12								
78B, 78BE	Vol.	3761	15	UM154-SS16				3060	1	2N518		3698	245A	C3	7	6D8G, 6S7G, 6L5G, 19, 6N5	465 10-7	
	Tone	2199	22	K12	6			1693	15	BB12								
								.03		Buffer	B14							
80B	Vol.	2239	17	MR48														
82A, 82AE	Vol.	3761	17	UM154-SS16				3718	1	2N518								
	Tone	2199	22	K12	6			1693	15	BB12								
83UE	Vol.	3761	15	UM154-SS16				3638	4	RM259	B8							
	Tone	2199	22	K12	6													
84A, 84AE	Vol.	3761	17	UM154-SS16				3718	1	2N518								
	Tone	2199	22	K12	6			1693	15	BB12								
85U, 85UE	Vol.	2775	17	MR48	M26			3638	27	2P553								
	Tone	3545	22	MR33														
86AE	Vol.	4078	17	TM251-SS16				3718	1	2N518								
	Tone	2199	44	K12	6			1108	13	CS130								
87AE	Vol.	4186	20	TM251-SS16				4261	1	WE3050								
								4262	1	RS216								
								1693	15	BB12								
88BE	Vol.	4186	15	TM251-SS16				4188	1	2S562		3698	245	C3	8	*6S7G, 6D8G, 6L5G, 19, 6N5	465 10-15	
								1693	15	BB12								
								.03		Buffer	B14							
90B	Vol.	2239	17	MR48														
91B	Vol.	3761	17	UM154-SS16				3150	12	RS216								
	Tone	2331	22	K12				1693	19	BB12								
92AE	Vol.	3761	17	UM154-SS16				3718	1	2N518								
	Tone	2199	22	K12	6			1693	15	BB12								
93L	Vol.	3761	17	UM154-SS16														
	Tone	2199	22	MR33	M26													
95B	Vol.	3761	17	UM154-SS16				3150	12	RS216								
	Tone	2331	44	K12	14			1693	19	BB12								
96BE	Vol.	2775	15	MR48	M26			3060	1	2N518		3698	245A	C3	6	6D8G, 6S7G, 6L5G, 41, 6N5	465 9-23, 24	
	Tone	3545	22	K12				1693	15	BB12								
								.03		Buffer	B14							
97L	Vol.	3879	17	UM154-SS16														
	Tone	3880	44	MR33														
98AE	Vol.	2775	15	MR48	M26			3718	1	2N518								
	Tone	3545	22	K12														
99AE	Vol.	4304	20	TM251-SS16				4261	1	WE3050								
								4321	13/15	2N518/BB19								
								1110	13	BB60								
								1693	15	BB12								
100X	Vol.	3671	17	MR48				4096	1	2N518		4105	294	C3	5	6D8G, 6S7G, 6T7G, 41, 6ZY5G	465 10-29	
	Tone	3545	22	K12				1693	15	BB12								
								.02		Buffer	B14							
104	Vol.		6	G12				15-5	2	MN273								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SENTINEL RADIO CORP. 106A	Vol.	Continued 4144	18	MR48	M26			4140	23	2S567				5	6A8G, 6K7G, 6Q7G, 6K6G, 5Y4G	465	10-32	
106B	Vol. Tone		6	G12				16-8	2	2N519				8	24A, 27, 45, 80	175	1-2	
107AE	Vol. Tone	4408	17	N				3718	1	2N518				6	6A7, 6D6, 75, 41, 6U5, 80	465	10-34	
108	Vol. Tone	4409	22	K12	6			8-16	31	2S563				7	24A, 27, 45, 80	175	1-3	
108A	Vol. Tone		6	L				8-8	34	See Note	B3			7	35, 27, 24A, 47, 80	175	2-1,2	
109	Vol. Tone		22	K12				16	34	RS216				8	24, 27, 35, 47, 80	175	2-3	
110	Vol. Tone		22	F				8	34	RS213				7	27, 35, 24A, 47, 80	175	2-1,2	
110A	Vol. Tone	3403	20	K12				8, 8	34	RS213				7	27, 35, 24A, 47, 80	175	2-1,2	
111	Vol. Tone		7	F				3167	25	WE3050				11	6K7, 6A8, 6J7, 6H6, 6C5, 6F6, 80	465	10-37,38	
114	Vol. Tone	7864	15	N	6			3041	25/13	2N518				4	47, 24A, 35, 80	175	2-4	
116	Vol. Tone	7037	44	K12				1110	13	BB60				9	247, 24A, 35, 27, 80	175	2-5 & 5-1	
118	Vol. Tone	7864	6	P12	6	EX200		1693	20	BB12				5	224, 35, 47, 80	465	7-22	
118B	Vol. Tone	7037	109	N	6			7078	34	RS213				10	27, 35, 24A, 47, 80	175	5-3,4	
119B	Vol. Tone	4803	18	MK401	M23			7078	34	RS215				4	1A7G, 1N5G, 1H5G, 1A5G	455	10-40	
124A, 124AE	Vol. Tone	4839	18	MK401	M26			4841	24	2N509		3698	245	C3	6D8G, 6S7, 6T7G, 6G6G	455	10-41,42	
125	Vol. Tone		61	N				1693	15	BB12				6	6A8G, 6K7, 6Q7G, 6U5, 6K6G, 5Y4G	455	10-43,44	
125AE	Vol. Tone	10012	22	K12				4772	1	2N518				8	24A, 35, 27, 47, 80	175	5-5	
127B	Vol. Tone	10013	22	MK401				1693	15	BB12				4	6K8, 6K7, 75, 41, 6U5, 80	455	10-45	
128B	Vol. Tone	4871	18	UM133-SS25				1693	19	BB12				5	1A7G, 1N5G, 1H5G, 1A5G	455	10-47,48	
130B, 130BE	Vol. Tone	4803	45	MK401	M23			4862	22	UM133-SS25				5	1C7G, 1H5GP, 1H4G, 1E5GP, 1G5G, 4-1	455	10-49	
137U	Vol. Tone	4871	45	UM154-SS22				4872	22	UM133-SS25	M26			5	6D8G, 6S7, 6L5G, 6T7G, 6G6G	455	10-51,52	
138AE	Vol. Tone	4894	6	UM133-SS18	M26	EX250		4895	4	BB25				4	6K8, 6J7, 25L6, 25Z6, 1.55B/1.5A	455	10-61	
139UE	Vol. Tone	10057	80	TM251-SS25				4896	4	BB21				7	6K7, 6K8, 6Q7G, 6V6G, 6U5, 5Y4G	455	10-53	
140B, 140BE	Vol. Tone	10058	80	TM261-SS25	M26			10102	1	2N519				8	6K7, 6K8, 6H7, 25L6G, 6U5, 25Z6G, 10233	455	10-55	
141AE	Vol. Tone	10057	80	TM251-SS25				10245	14	BB61				7	6S7, 6K8, 6T7G, 6G6G, 6Z7G, 6N5	455	10-57	
142A, 142AE	Vol. Tone	10058	21	TM261-SS25	M26			10188	15	BB17				6	6K8, 6K7, 6Q7G, 6K6G, 6U5, 5Y4G	455	10-59	
143L	Vol. Tone	4871	18	UM154-SS22				10158	23	2S567				6	6K8, 6K7, 6Q7G, 6K6G, 6U5, 5Y4G	455	10-62	
144X, 144XE	Vol. Tone	4871	127	UM133-SS25	M26			4895	4	BB21				5	6K8, 6K7, 6Q7G, 6C5G, 25L6G	455	10-63,64	
145AE	Vol. Tone	10148	22	UM133-SS22	M27			4096	1	2N518		4105	291	C3	6D8G, 6S7G, 6T7G, 6D6G, 6ZY5G, 6U5	455	10-65	
147U	Vol. Tone	10227	124	FM251-SS25				10470	3	WE3050				11	6K7, 6K8, 6Q7G, 6C5G, 6E6G, 6AF6G, 5Z3	455	10-67	
148A	Vol. Tone	10204	18	UM154-SS18	M26			10102	3	2S568				5	6A8, 6K7, 6Q7, 25L6, 25Z6	455	10-69	
149A, 149AE	Vol. Tone	4839	18	MK401	M26			1693	15	BB12				5	6A7, 6K7, 6Q7G, 41, 80	455	10-71,72	
151BI	Vol. Tone	4839	18	MK401	M26			10245	25	BB61				6	6A7, 6K7, 6Q7G, 41, 80, 6U5	455	10-79	
153AE	Vol. Tone	10441	18	MK401	M27			1693	19	BB12				4	1A7G, 1N5G, 1H5G, 1A5G	455	10-73	
163UL	Vol. Tone	10057	80	TM251-SS25				4096	1	2N518				8	6K8, 6K7, 6C5G, 6F5G, 6V6G, 6U5, 5Y4G	455	10-75	
167U	Vol. Tone	10058	80	TM261-SS25	M26			1693	15	BB17				5	6A7, 6D6, 75, 25L6G, 25Z5, 149B	455	10-77	
	Vol. Tone	4839	18	MK401	M26			4895	4	BB26				5	6A8, 6SK7, 6SQ7, 25L6, 25Z6	455	10-80	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SENTINEL RADIO CO.	ORP.	Continued																
168B	Vol.	10441	18	MK401	M27			1693	19	BB12					5	1A7G, 1N5G, 1H5G, 1A5G	455 11-7,8	
	Tone	11098	22	Order from Mfr.											4	1A7G, 1N5G, 1H5G, 1A5G	455 11-9,10	
175B	Vol.	11132	18	MK401	M27			1693	19	BB12					6	1A7G, 1N5G, 1A5G, 1H5G	455 11-11,12	
176B	Vol.	10441	45	MK401	M27			1693	19	BB12					5	6A8GT, 6K7GT, 6Q7, 25L6GT, 25Z6GT	455 10-82	
	Tone	11098	22	Order from Mfr.											4	1A7G, 1N5G, 1H5G, 1A5G	455 10-83	
177U	Vol.	10204	18	UM151-SS18	M26			4895	25	BB26					5	1A7G, 1N5G, 1H5G, 1A5G	455 10-83	
178BL	Vol.	10441	18	MK401	M27			1693	19	BB12					5	1A7G, 1N5G, 1H5G, 1Q5G	455 11-13	
180XL	Vol.	4871	18	UM154-SS22				10847	1	FPD214					1	BB15	455 11-13	
	Tone	4872	22	UM133-SS22				9196	78	BB15					1	BB12	455 11-15	
181BL	Vol.	10772	18	MK401	M27			1693	19	BB12					6	12A8GT, 12SK7, 12SQ7, 50L6GT, 35Z5GT, 6AB5, 35Z5GT	455 11-17	
184U, 184UE	Vol.	4871	18	UM154-SS22				11070	4	2S558					6	6K8, 6SK7, 6SQ7, 6K6G, 6U5, 5Y4G	455 11-19	
	Tone	4872	22	UM133-SS22	M26			11031	1	FPT342	B192				6	6D8G, 6S7, 6I5G, 6T7G, 6G6G, 6AB5	455 11-21,22	
185A, 185AE	Vol.	4871	18	UM154-SS22				1693	15	BB12					6	6K8, 6SK7, 6SQ7, 6K6G, 6U5, 5Y4G	455 11-19	
	Tone	4872	22	UM133-SS22	M26			11150	1	FPT359		3698	245A	C3	6	6D8G, 6S7, 6I5G, 6T7G, 6G6G, 6AB5	455 11-21,22	
186B, 186BE	Vol.	4871	45	UM154-SS22				1693	15	BB12					6	6K8, 6SK7, 6SQ7, 6J5G, 25L6GT	455 11-23,24	
	Tone	4872	22	UM133-SS22	M26			.03		Buffer	B14				7	6S7, 6K8, 6I7G, 6G6G, 6Z7G, 6AB5	455 11-27,28	
189L	Vol.	4871	18	UM154-SS22				11080	12	BB19					6	6K8, 6SK7, 6SQ7, 6J5G, 25L6GT	455 11-23,24	
	Tone	4872	44	UM133-SS22	M26			1693	19	BB12					7	6S7, 6K8, 6I7G, 6G6G, 6Z7G, 6AB5	455 11-27,28	
191B, 191BE	Vol.	11301	124	TM251-SS22				30-10	1	FPD228		3698	245A	C3	7	6S7, 6K8, 6I7G, 6G6G, 6Z7G, 6AB5	455 11-27,28	
	Tone		140			See Note A19		.03		Buffer	B14				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455 11-31	
194UL, C194UL, RC194UL	Vol.	11389	18	MK401	M26			11493	24	FPD214					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455 11-31	
1UC194UL, RC1U194UL, IU194UL	Vol.	11389	18	MK401	M26			11494	24	FPD214					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455 11-3	
195UL	Vol.	11359	18	MK401	M26			11493	24	FPD214					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	465 11-33	
IU195UL	Vol.	11359	18	MK401	M26			11493	21	FPD214					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	465 11-5	
197X	Vol.	4871	18	UM154-SS22				11150	1	FPT359		4105	294	C3	5	6D8G, 6S7, 6I7G, 6G6G, 6Z7G	455 11-35,36	
	Tone	10148	22	UM133-SS22	M27			1693	15/19	BB12					8	6SA7, 6SK7, 6SQ7, 6K6G, 6SF5, 5Y4G, 6AB5	455 11-37	
198A, 198AE	Vol.	11434	124	TM251-SS22				11324	1	FPD234					12	6K8, 6SK7, 6I16, 6C5, 6SF5, 6K6G, 6AB5, 5Y4G	455 11-39,41	
	Tone	11435	1	TM248-SS22	M26			20-20	1	FPD234					5	1A7G, 1N5G, 1H5G, 1A5G, 25Z6G	455 11-43,44	
199A, 199AE	Vol.	11789	124	TM251-SS22				8	13	BB21					5	1A7G, 1N5G, 1H5G, 1A5G, 25Z6G	455 11-45,46	
	Tone	11790	140	TM261-SS25	M26			1693	19	BB12					5	1A7G, 1N5G, 1H5G, 1A5G	455 11-47	
200X	Vol.	10441	18	MK401	M27			11502	4	2N514	B8				5	1A7G, 1N5G, 1H5G, 1A5G, 25Z6G	455 11-47	
	Tone	11098	22	Order from Mfr.				11508	4	FPD214	B8				5	1A7G, 1N5G, 1H5G, 1A5G, 25Z6G	455 11-45,46	
201XL	Vol.	10441	18	MK401	M27			1693	19	BB12					5	1A7G, 1N5G, 1H5G, 1A5G, 25Z6G	455 11-45,46	
202BL	Vol.	11631	18	MK401	M27			11493	1	FPD214					5	1A7G, 1N5G, 1H5G, 1A5G, 25Z6G	455 11-47	
	Tone	4839	18	MK401	M26			9196	78	BB15					6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455 11-49	
203UL	Vol.	4839	18	MK401	M26			11411	4	BB26					6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455 11-49	
	Tone	4862	22	UM133-SS25											6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y4G	455 11-51,52	
204A, 204AE, RC204A, RC204AE	Vol.	4839	18	MK401	M26			10625	4	BB61					4	1A7G, 1N5G, 1H5G, 1A5G	455 11-53	
205BL	Vol.	11580	18	UM154-SS18	M27			1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455 11-53	
206A, 206AE, RC206A, RC206AE	Vol.	4839	18	MK401	M26			10625	4	BB41					6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y4G	455 11-55	
207U, 207UE	Vol.	11301	124	TM251-SS22				10113	1	2S558					8	6SK7, 6K8, 6I7, 25L6G, 25Z6G, 6U5	455 12-9,10	
	Tone	10058	140	TM261-SS25	M26			1108	13	CS130					4	1A7G, 1N5G, 1H5G, 1A5G	455 12-11,12	
210B	Vol.	11132	18	MK401	M27			1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455 12-11,12	
211U	Vol.	11389	18	MK401	M26			11493	24	FPD214					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455 12-13,14	
212UL, 1U212UL, 212, 1U212	Vol.	12033	18	MK401	M26			12001	1	2N515					6	12SK7, 12SA7, 12SQ7, 50L6GT, 35Z5GT	455 12-1,2	
213XL, 1U213XL, 213P	Vol.	12075	18	UM154-SS18	M27			12001	1	2N515					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 11Z6G	455 12-3,4	
	Tone							12179	78	BB17					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455 12-5	
214UL, 1U214UL, 214U, 1U214U	Vol.	11359	18	MK401	M26			12055	24	2N515					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455 12-5	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	Use	CONTROLS						CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
		Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SENTINEL RADIO C 216, 216J	ORP. — Vol. 10227	Continued	124	TM251-SS25				12139	1	FPD214	B197				7	6SA7, 6SK7, 6SQ7, 6U5, 6F6G, 5Y3G.	455	12-15-17
	Vol. 12131			TM261-SS25	M26			9196	15	BB15								
	Tone 12132			MK401														
	Mike 12132			Order from	Mfr.			12001	1	2N515					6	1P5GT, 1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z6G/GT	455	12-18,19
217, 217P	Vol. 12525		18					12179	78	BB17						50L6GT, 35Z5GT	455	12-7,8
218UL, 1U218UL	Vol. 11359		18	MK401	M26			12055	24	2N515								
219, 219P	Vol. 12525		18	Order from	Mfr.			12001	1	2N515					6	1P5GT, 1A7GT, 1N5GT, 1H5GT, 3Q5GT, 117Z6G/GT	455	12-18,19
	Vol. 12350		22	MK401	M26			12355	1	FPT390	B197				8	6SA7, 6SK7, 6SQ7, 6SF5, 6K6G, 6U5, 5Y3G	455	12-20,21
220	Vol. 12132		18	MK401														
	Tone 12350		22	MK401	M26			12400	1	FPT390	B224				9	6SA7, 6SK7, 6SQ7, 6SF5, 6K6G, 6SJ7, 6U5/6G5, 5Y3G	455	12-22-24
221	Vol. 12132		18	MK401														
	Tone 12350		22	MK401	M26		A96	11493	24	FPD214					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	
226, 1U226	Vol. 11389		18	MK401	M26			11494	24	FPD214								
227	Vol. 12064		18	UM154				12750	12	BB22					4	1R5, 1T4, 1S5, 1S4	455	
	Vol. 13014		18	MK403														
	Vol. 11631		18	MK401	M27			12960	24	2N515					6	1P5GT, 1A7GT, 1H5GT, 3Q5GT, 50Z7G	455	
230	Vol. 12537		124	TM251-SS25	M26			11324	1	FPD234					9	6SK7, 6K8, 6SQ7, 6SF5, 6V6G, 6U5/6G5, 5Y3G	455	
231	Vol. 11035		18	Order from	Mfr.			12001	24	2N515					6	1A7GT, 1P5GT, 1N5GT, 1H5GT, 3Q5GT, 35Z4GT	455	
	Vol. 12033		18	MK401	M26			11031	1	FPT342	B192				6	6SA7, 6SK7, 6SQ7, 6K6G, 5Y3G, 6U5/6G5	455	
233	Vol. 13014		18	MK403				12750	12	BB22					4	1R5, 1T4, 1S5, 1S4	455	
235	Vol. 12462		18	UM154			A96	11031	1	FPD228					6	6K8, 6SK7, 6SQ7, 6K6G, 6U5/6G5, 5Y3G	455	12-27,28
	Tone 12461		22	MK401	M26			1693	15	BB12					6	6K8, 6S7, 6L5G, 6T7G, 6G6G, 6AB5	455	12-29, 30,34
236	Vol. 12462		18	MK401				11150	1	FPD228		3698	245A	C3	6	6K8, 6S7, 6L5G, 6T7G, 6G6G, 6AB5	455	12-29, 30,34
	Tone 12461		22	MK401	M26			1693	15	BB12					6	6K8, 6S7, 6L5G, 6T7G, 6G6G, 6AB5, 6ZY5G	455	12-30 31,34
237	Vol. 12462		18	MK401				11150	1	FPD228		4105	294	C3	6	6K8, 6S7, 6L5G, 6T7G, 6G6G, 6AB5, 6ZY5G	455	12-30 31,34
	Tone 12480		22	MK401	M27			1693	19/15	BB12					6	6K8, 6S7, 6L5G, 6T7G, 6G6G, 6AB5, 6ZY5G	455	12-30 31,34
238	Vol. 11359		18	MK401	M26			12055	24	2N515					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	
240	Vol. 10772		18	MK401	M27			1693	19	BB22					4	1A7GT, 1N5GT, 1H5GT, 1A5G/GT	455	12-32,36
241	Vol. 12381		18	MK401	M27			1693	19	BB22					4	1A7GT, 1N5GT, 1H5GT, 1A5G/GT	455	12-35,36
261, 262	Vol. 8883-0		15	N				8876	15	BB12					5	39, 36, 85, 41	175	5-6,8
264	Vol. 9070		15	N	6			9110-0	1	2S567					6	58, 57, 55, 47, 80	175	
								8876-0	17	BB12								
440, 444	Vol. 9611		6	G12						See Note	B1				7	24A, 27, 45, 80	175	1-5
501, 502	Vol. 9624		70	H12											5	32, 34, 33, 30	465	4-1
	Fil. 9624		29	R														
513	Vol. 9042-0		6	G7	6	2		9110-0	25	2S567					5	57, 58, 55, 47, 80	175	4-2,3
521	Vol. 8833-0		15	N				8876	15	BB12					5	39, 36, 85, 41	175	5-6,8
550, 560, 561	Vol. 9331		6	H7	6	2		9355	8	TN120					5	36, 39, 38, 25Z5	265	5-9 & 3-3
								9328	15	TN111								
560TV	Vol. 9331		6	H7	6	2		9355	8	TN120					5	6A7, 78, 77, 38, 25Z5	265	9-12
								9328	15	TN111								
570	Vol. 9331		6	H7	6	2		9442	11	UR182	B31				5	6A7, 78, 75, 43, 25Z5	265 or 465	4-4,5
590	Vol. 9331		6	H7	6	2		9442	11	UR182	B31				5	6A7, 75, 78, 43, 25Z5	465	4-6,7
599	Vol. 9331		6	H7	6	2		9442	11	UR182	B31				5	6A7, 78, 75, 43, 25Z5	265	4-6,7
600, 602	Vol. 9776		17	UM154	M26	See Note A96		9532	1	2N519		9536	292	C3	6	78, 6A7, 75, 41, 84	265	5-14 & 4-8
								9328	15	TN111								
								.02		Buffer	B14							
603	Vol. 1229		17	N	6			1247	1	2N518		1245	292	C3	6	78, 6A7, 75, 41, 84	265	5-17,18
								9328	15	TN111								
								.02		Buffer	B14							
610	Vol. 9033-0		7	F				8, 8	34	RS213					7	51, 27, 24A, 47, 80	175	
			22	K12														
614	Vol. 9033-0		15	N	6			9110-0	1	2S567					6	58, 57, 55, 47, 80	175	2-9
								8876	17	BB12								
622, 623	Vol. 9666		17	M	6			9659	1	RM262					6	57, 58, 2A6, 2A5, 80	465	4-10,11
	Tone 9174		22	K12				8876	15	BB12								
630	Vol. 9666		17	M	6			9659	1	RM262					6	57, 58, 2A5, 2A6, 80	456	4-12,14
	Tone 9174		22	K12				8876	15	BB12								
634, 635	Vol. 9666		17	M	6			9659	1	RM262					6	57, 58, 2A6, 2A5, 80	465	4-12,14
	Tone 9174		22	K12				8876	15	BB12								
660	Vol. 9611		70	H12											5	32, 34, 33, 30, 5B1	465	5-19

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SETCHELL CARLSON																		
PA6	Vol. Tone		15	MR48				8	3	WE860					8	6F5, 37, 26A6, 6X5		
PA13	Vol. Tone		22	MR48				10	15	BB13					5	6F5, 6N7, 6V6, 80	8-1	
PA15	Phono. Tone		63	MR53				10	15	WE860					7	6F5, 42, 2A3, 5Z3		
PA25	Vol. Tone		31	MR48				10	15	BB13					6	6F5, 6N7, 6L6, 5Z3	8-1	
55 (Portable)	Vol.		18	MR48	M27			20-20	24	2N509					5	1A7, 1N5, 1H5, 1A5, 6X5	465	
PA115	Mic. Phono. Tone		63	MR53				8	24	WE860					14	6F5, 6C5, 6L6, 8B3	8-2	
PA613	Mic. Phono. Tone		63	MR53				10	15	BB13					6	6F5, 6C5, 6V6, 80		
332	Vol.		15	MR48				10	15	BB13					9	6A8, 6K7, 6J7, 425L6, 1N5, 1A7, 1N5 1P5, 1H5, 1T5/1Q5	465	
401	Vol.		18	MR48				10	15	BB12					5	1N5, 1A7, 1N5/1P5, 1H5, 1T5/1Q5	175	
405	Vol.		18	MR48				10	15	BB12					5	1N5, 1A7, 1N5/1P5, 1H5, 1T5/1Q5	175	
411 ("Radio-Dor-Phone")	Vol.		18	MR48	M26			50-20	24	TN129	B8				5	12A8, 12K7, 12SQ7, 50L6, 35Z5	465	
412	Vol.		18	MR48				50-20	24	TN129	B8				7	12A8, 12K7, 12SQ7, 12J5, 50L6, 35Z5	465	
413	Vol. Tone		147	MR48	M27			8-8	1	2N518				6	7A7, 7J7, 7B6, 7B5, 7Y4	465		
588	Vol.	VS588	18	MR48	M26			8-8	1	2N518					5	6A8, 6K7, 6Q7, 6K6, 6X5	456	
589	Vol.		18	MR48				10	15	BB12					5	6A8, 6K7, 6SQ7, 6K6, 6X5	465	
600	Vol.		17	UM154		See Note	A96	10	15	BB12					5	1C7, 1D5, 1F7, 1H4, 1J6	465	
602	Vol. Tone		21	UM154		See Note	A96								6	1C7, 1F7, 1D5, 1G5	465	
620	Vol. Tone		17	UM154		See Note	A96	8-8-10	1/15	38579			744		6	6D8, 6S7, 6T7, 6N5, 6K6, 19	465	
622	Vol. Tone		17	UM154		See Note	A96	8-8-10	1/15	38579			744		7	6D8, 6S7, 6T7, 6N5, 6L5, 6Z7, 19	465	
622	Vol. Tone		21	UM154		See Note	A96											
SHAMROCK																		
28-29	Vol.		26	†		See Note	A73	†	1	See Note	B1				7	427, 471A, 80	44-10	
SHELLY																		
5 Kompak	Vol.		6	G7	6	3		4-4	23	2S567					5	6J7, 6K7, 6C5, 6F6, 5W4	7-1	
25	Vol.		6	SRP263				20-20	4	2P549					4	6D6, 76, 25B6G, 25Z5	465	
35C	Vol.		18	MR48				4-4	23	2S567					5	6A7, 6D6, 75, 42, 80, 6G5, Ballast	465	
35C-AW, 37C	Vol.		18	MR48				8-4	23	2S567					6	6A7, 6D6, 75, 42, 80, 6G5, Ballast	465	
48	Vol. Tone		45	MR48				8-8-8	25/13	See Note	B3				7	6A8, 6K7, 6H6, 6G5, 6K7, 6K6, 5Z4	458	
48A	Vol.		45	†		See Note	A19	8-8-8	25/13	See Note	B3				7	6A8, 6K7, 6G5, 6H6, 6F6, 5Z4	460	
65	Vol.		18	UM154		See Note	A96	8-8	74	2S567			294	C3	5	6A7, 6D6, 75, 42, 84, 6K7, 6A8, 6H6, 6F6, 84	460	
67 Auto	Vol. Tone		45	UM154		See Note	A96	8-8	4	2S567			294	C3	7	6K7, 6A8, 6H6, 6F6, 84	460	
75 Auto	Vol.		18	UM133		See Note	A96	8-8	74	2S567			294	C3	5	6A8, 6K7, 6G5, 6H6, 6K6G, 6X5G	460	
75 Auto	Vol.		18	†		See Note	A19	8-8-005		Buffer	B14							
SILVER KING (See Appendix II)																		
SILVER-MARSHALL																		
A	Vol. Tone		8	A5MP	6			13177	46	CS131					8	24A, 35, 47, 80, 327	175	
B	Vol. Tone	4492, 14403	8	N				13181	46	CS133					6	24A, 27, 35, 47, 80	175	
C	Vol. Tone	14419, 14427	8	Y10MP				13181	46	CS133					12	24A, 27, 35, 47, 80	175	
C w/AVC	Vol. Tone	14427, 4507	8	N				13177	3	CS131					12	35, 24A, 27, 47, 80	175	
D, E	Vol. Tone		8	A5MP				13181	34	CS133					9	24A, 27, 35, 47, 80	175	
F	Vol. Tone		31	N				4-4-4	3	CM175					7	24A, 35, 47, 80, 327	175	
F	Vol. Tone		8	A5MP				4-4-4	3	CM175					7	24A, 35, 47, 80, 327	175	
F	Vol. Tone		22	N														

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SILVER-MARSHAL G	L—Cont. Vol. 14323	8	A5MP	6			13120	3	CM175					10	24A, 27, 35, 47, 80	175	2-9	
J. JT.	Tone Vol. 14371	8	O				13177	13	CS131					10	24A, 27, 35, 47, 80	175	2-10	
KB (21)	Vol. 22	22	A5MP	6			13181	3	CS133					8	30, 32, 34	175	9-5	
Q with push-pull 47's	Vol. 9	9	N				13177	3	CS131					10	24A, 27, 35, 47, 80	465	4-4	
Q with parallel 47's	Tone Vol. 57	57	N				13181	7	CS133					10	24A, 27, 35, 47, 80	465	4-5	
Q DeLuxe	Vol. 4360	15	M	6			13177	7	CS131					10	24A, 27, 35, 47, 80	465	4-5	
R, RT.	Tone Vol. 14438	95	L				3162	28	CS135					12	56, 58, 45, 82	465	2-11, 12	
V.	Vol. 4430	7	D				13177	34	CS131					10	24A, 27, 35, 47, 80	465	2-13, 14	
X.	Vol. 4360	15	M	6			13326	19	CS133					10	24A, 27, 35, 47, 80	465	2-13, 14	
Y.	Tone Vol. 14438	95	L				3162	4	CS136					10	58, 56, 45, 82	465	3-4, 5	
Z10.	Vol. 4430	7	D				13177	34	CS131					10	58, 56, 45, 82	465	3-4, 5	
Z13.	Vol. 4360	15	M	6			13177	34	CS136					10	58, 56, 45, 82	465	3-4, 5	
Z DeLuxe	Tone Vol. 85	85	E12				13326	19	CS133					10	58, 56, 45, 82	465	3-4, 5	
Bearcat Midget	Vol. 8	8	E12				13177	34	CS131					8	51, 56, 55, 47, 80	465	16-29	
30.	Vol. 22	22	O				13177	4	CS131					7	2A7, 58, 2B7, 56, 2A5, 5Z3	465	4-7	
30B	Vol. 12	12	A10MP				8-8	2	2N518					7	2A7, 58, 2B7, 56, 2A5, 5Z3	465	4-7	
34A (with 33A Pwr. Unit)	Vol. 9	9	A3MP				8	14	CS133					13	58, 56, 59, 5Z3, 57	472.5	4-8	
35A (with 33A Pwr. Supply)	Vol. 34	34	G12			See Note A74	4	15	BB11					13	58, 56, 59, 5Z3, 57	472.5	4-8	
36A	Vol. 58	58	D				8	34	CS133					13	58, 56, 59, 5Z3, 57	472.5	4-6	
37, 38, 39 Midget	Vol. 8	8	A10MP				12	34	CS136					13	58, 56, 59, 5Z3, 57	472.5	4-6	
684 P.E. Amplifier	Tone Vol. 22	22	O				12	34	CS136					8	24A, 27, 45, 80	175	1-8	
685 P.A. Amplifier	Vol. 14371	15	O				8	34	CS133					8	24A, 27, 45, 80	175	1-8	
686 Portable P.A. Amplifier	Vol. 16	16	N				8, 8	1	RS213					8	24A, 27, 45, 80	175	1-8	
690 Amplifier	Vol. 14371	15	O				2-2-4-1	3	See Note	B1				8	24A, 27, 45, 80	175	1-1	
692 Amplifier	Vol. 4491	15	N				2-1-2-4	3	See Note	B1				7	24A, 27, 45, 80	175	1-2	
710 Sargent-Raymer	Vol. 12	12	A3MP				4-4-4	34/40	CM175	B12				7	24A, 45, 80, 27	175	1-5, 6	
712 Tuner	Vol. 12	12	A10MP				12-8-4	2/19	CM175	B12				9	24A, 27, 45, 80	175	1-5, 6	
714 Tuner	Vol. 58	58	D				4-4-4	3	2S567					9	24A, 27, 45, 80	175	1-7	
716 Tuner with 683 Amplifier	Vol. 8	8	A5MP	6			8, 8	1	RS213					8	24A, 27, 45, 80	175	1-8	
720 AC	Vol. 12	12	A3MP				13181	3	CS133					5	24A, 27, 47, 80	175	2-1	
720 Battery	Vol. 12	12	A3MP				13203	19	BB12					5	27, 26, 50, 81	175	1-15	
722	Vol. 12	12	A10MP				13181	3	CS133					5	24A, 27, 47, 80	175	1-15	
722 DC (Battery)	Vol. 12	12	A10MP				13203	19	BB12					7	27, 26, 50, 81	175	1-15	
724 AC	Vol. 58	58	A3MP				13203	19	BB12					6	24A, 45, 50, 81	175	1-15	
724 DC	Vol. 9	9	Y50MP				4-4-4	3	CM175					6	22, 201A, 12A or 71A	175	1-16	
726 (S.W. & Broadcast)	Vol. 14367	8	A5MP	6			2-2	12	See Note	B3				4	24A, 27	175	1-17	
727 DC	Vol. 9	9	L				13181	3	CS133					10	24A, 27	175	1-18	
727 SW	Tone Vol. 4360	15	M	6			13177	3	CS131					10	24A, 27, 35, 47, 80	175	2-2	
728 SW	Vol. 14438	95	L				13023	15	BB12					6	24A, 27, 45	175	1-19	
729 SW	Vol. 15	15	N	6			13177	34	CS136					6	22, 201A, 12A	175	1-19	
738 Converter	Vol. 95	95	L				3162	4	CS133					7	24A, 27, 45, 80	175	1-20	
739 Converter	Vol. 7	7	D				13177	34	CS131					6	22, 01A, 12A	175	1-21	
Sheridan 750, 750BS	Vol. 45	45	N	6			13326	19	CS133					9	24A, 27, 45, 80	175	1-22	
760	Vol. 22	22	E12				8	34	CS133					8	32, 30, 31	175	1-23	
	Vol. 4	4	D12				8-8	1	CM172					3	24A, 27, 26	1000	1-26	
	Vol. 4	4	D12				4-4	1	CM172					3	24A, 27, 80	650	1-27	
							2-2-5	3	See Note	B1				8	26, 27, 45, 80			
							1-1-1-5	1	See Note	B1				7	26, 27, 45, 80			

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SILVER-MARSHAL	L—Continued																	
770 Auto Set.....	Vol.		7	J.....											5	24A, 12A, 71A.....	115	1-29
773 B'cast/Long Wave.....	Vol.	14342.....	8	A5MP.....	6			13120.....	3	CM175.....					8	24A, 35, 27, 45, 80...	175	2-5
782 Midget.....	Vol.	4507.....	22	N.....											8	24A, 27, 45, 80.....	175	1-8
	Tone		8	A10MP.....				8, 8.....	1	RS213.....					8	24A, 27, 45, 80.....	175	1-8
	Tone		22	O.....											9	24A, 27, 45, 80.....	175	1-8
1022 (724 AC).....	Vol.		58	A3MP.....				4-4-4.....	3	CM175.....					9	24A, 27, 45, 80.....	175	1-8
4801, 4802.....	Vol.	P4260.....	15	UC503.....				P4514.....	34	CM175.....					10	58, 56, 59, 5Z3.....	465	5-1
	Tone	P4259.....	21	L.....	6			P4585.....	15	TN111.....					10	58, 56, 59, 5Z3.....	465	5-1
	Sen.	P4923.....	12	Y.....													465	Late 175
McMURDO SILVER 5D	Vol.		15	N.....				16.....	3	RS216.....					10	6B7, 6C6, 6D6, 76, 42, 5Z3.....	465	
	Tone		21	O.....				18.....	3	RS216.....								
	Sen.		7	G.....				12.....	3	RS215.....								
World Wide Nine...	Vol.		18	O.....				8.....	2	See Note.....	B3				9	2A7, 58, 55, 2A5, 5Z3.....	465	5-12
	Tone		57	Z12.....				12.....	2	See Note.....	B3							
								4.....	14	See Note.....	B3							
SILVERTONE (See Sears-Roebuck Co.)																		
SIMPLEX RADIO CO.																		
AA.....	Vol.		1	UC513.....				2.....	12	BB40.....					4	1A6, 1B4, 1F4.....	456	7-2
	Sen.		4	H12.....	6			5.....	19	BB12.....					8	10, 27, 42, 80.....	456	1-1
D.....	Vol.		17	MR48.....		See Note	le A5	20-4-5.....	6/15	TN125.....					5	6A7, 6K7, 75, 43, 25Z5.....	456	7-1
D (420,001 and up).....	Vol.		22	L.....				20-20.....	6	CM164.....					6	6A7, 6K7, 75, 6G5, 25Z5.....	456	
D (428,001 and up).....	Vol.		17	MR48.....				5.....	15	BB12.....					6	6A7, 6K7, 75, 6G5, 43, 25Z5.....	456	
DB, DF (500,001 and up).....	Vol.		17	N.....				4-8.....	1	2N518 Buffer.....	B14	245C	C3	5	6D8G, 6S7G, 6Q6G, 6G5, 38.....	456		
DB, DF (775,001 and up).....	Vol.		22	L.....	6			.01.....	1	2S562 Buffer.....	B14	245C	C3	4	1C6, 34, 1B5, 38.....	456		
	Tone		17	N.....				.01.....	3	See Note.....	B3			4	45, 27, 24A, 80.....	456	1-1	
G.....	Vol.		44	Order from Mfr.....		See Note	le A5	8-8.....	4	CM172.....	B3			6	6A7, 6K7, 76, 6F5, 42, 80.....	456	7-2	
G (703,001 and up).....	Vol.		15	MR48.....				5.....	15	BB12.....				7	6L7, 6D6, 6H6, 6G5, 75, 25B5, 25Z5.....	456	7-2	
G (707,001 and up).....	Vol.		15	MR48.....				16-16-8-4.....	9/13	See Note.....	B3			7	6L7, 6D6, 6H6, 6G5, 75, 25B5, 25Z5.....	456	7-2	
	Tone		34	L.....				5.....	15	BB12.....				5	1C6, 1A4, 1B5, 30, 19.....	456		
GB (779,001 and up).....	Vol.		17	MR48.....				8-8.....	1	CM172.....		245C	C3	5	1C6, 1A4, 1B5, 30, 19.....	456	7-2	
	Tone		22	MR48.....				.01.....	1	Buffer.....	B14			6	6A7, 6K7, 76, 6F5, 43, 25Z5.....	456	7-2	
GH (691,001 and up).....	Vol.		15	MR48.....				24-8.....	1	2N512 Buffer.....	B3			5	24A, 45, 80.....	456	7-2	
	Tone		34	L.....				5.....	15	BB12.....				5	24A, 45, 80.....	456	7-2	
H.....	Vol.		12	A20MP.....	6			8-8.....	1	See Note.....	B3			5	24A, 45, 80.....	456	7-2	
	Tone		7	N.....				8-8.....	1	See Note.....	B3			5	24A, 45, 80.....	456	7-2	
H (AC).....	Vol.		1	D.....	6			8-8.....	1	See Note.....	B3			5	24A, 45, 80.....	456	7-2	
	Tone		1	N.....				8-8.....	1	2N518 Buffer.....	B3			5	24A, 45, 80.....	456	7-2	
HA.....	Vol.		95	A3MP.....	6			8-8.....	1	2N518 Buffer.....	B3			5	24A, 45, 80.....	456	7-2	
	Tone		6	N.....				8-8.....	1	2N518 Buffer.....	B3			5	24A, 45, 80.....	456	7-2	
J.....	Vol.		6	D12.....	6			8-8.....	1	See Note.....	B3			6	35, 24A, 47, 80.....	175	3-2	
	Tone		22	L.....				8-4.....	4	See Note.....	B3			5	24A, 35, 47, 80.....	175	3-2	
K.....	Vol.		6	G12.....				4-4-4.....	26	See Note.....	B3			5	24A, 35, 47, 80.....	175	3-2	
L.....	Vol.		1	Y50MP.....				4-4-4.....	26	See Note.....	B3			7	35, 24A, 47, 80.....	175	3-2	
	Tone		22	L.....				8-4.....	4	See Note.....	B3			5	24A, 35, 47, 80.....	175	3-2	
N.....	Vol.		6	G12.....				8-4.....	4	See Note.....	B3			5	24A, 35, 47, 80.....	175	3-2	
	Tone		22	L.....				8-4.....	4	See Note.....	B3			5	24A, 35, 47, 80.....	175	3-2	
N (DC).....	Vol.		6	L.....				8-4.....	4	See Note.....	B3			5	24A, 35, 47, 80.....	175	3-2	
	Tone		22	G12.....				8-4.....	4	See Note.....	B3			5	24A, 35, 47, 80.....	175	3-2	
NT (902,001 and up).....	Vol.		20	TM231-SS1.....				8, 8.....	2	CS133.....				10	6K7, 6L7, 6D6, 76, 75, 6B5, 80, 6G5.....	456		
	Tone		34	MR48.....				5.....	15	BB12.....				3	6C6, 6B5, 80.....	175	7-1	
OP (550,001 and up).....	Vol.		16	MR48.....				8-8.....	1	2N518 Buffer.....	B3			5	57, 58, 55, 47, 80.....	175	2-2	
	Tone		22	L.....				50.....	1	BB17.....				5	57, 58, 55, 47, 80.....	175	2-2	
P AC.....	Vol.		15	N.....				4-4-10.....	4/19	See Note.....	B3			5	57, 58, 55, 47, 80.....	175	2-2	
	Tone		22	L.....				4-4.....	4	CM170.....				5	57, 58, 55, 47, 80.....	175	2-2	
P AC (Above serial No. 162500).....	Vol.		15	N.....				10.....	19	BB12.....				5	57, 58, 55, 47, 80.....	175	2-2	
	Tone		22	L.....				4-4.....	4	CM170.....				5	57, 58, 55, 47, 80.....	175	2-2	
P AC (Above serial No. 330001).....	Vol.		15	M.....				4-4.....	4	CM170.....				5	6A7, 78, 75, 42, 80.....	456	4-2	
	Tone		22	L.....	7		A75	5.....	19	BB11.....				5	34, 32, 33.....	175	4-1, 2-2	
P Battery.....	Vol.		9	Y10MP.....				8.....	12	BB31.....				5	34, 32, 33.....	175	4-1, 2-2	
	Tone		22	L.....				10.....	19	BB12.....				5	34, 32, 33.....	175	4-1, 2-2	
PB, PF (Serial No. 352001 and up).....	Vol.		1	N.....				20-10-4.....	1/13	RM259 Buffer.....	B191 B14	9A	245C	C3	4	6D6, 6A7, 75, 38.....	456	
	Tone		1	L.....	6			.01.....	11	RM257 Buffer.....	B3			5	6A7, 6D6, 75, 43, 25Z5.....	456		
PH (690,001 and up).....	Vol.		17	MR48.....				15-8-8.....	11	RM257 Buffer.....	B3			5	6A7, 6D6, 75, 43, 25Z5.....	456		
	Tone		22	L.....				5.....	15	BB12.....				5	6A7, 6D6, 75, 43, 25Z5.....	456		

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SIMPLEX—Continued																		
P 32V (No. 350001 and up)	Vol. Tone		15 22	M L		7		A75	6-10 5 .05-.05	1 15	See Note BB12 Buffer	B3 B14		F221 C3	5	6A7, 78, 75, 42, 84	456	4-2
P Dual Band (Above serial No. 600001)	Vol. Tone		17 22	N L		6			8-8-4 5	4/13 15	3S584 BB11				5	6A7, 6D6, 75, 42, 80	456	6-1
P Battery (Above serial No. 173501)	Vol. Tone		9 22	Y250MP L					5	19	BB11				5	1A6, 34, 32, 19, 30	456	4-4
P 1931	Vol. Tone		6 22	G12 L		8			8-4	4	See Note	B3			5	24A, 35, 47, 80	175	4-3
Q 1931	Vol. Tone		6 22	G12 L			EX350		8-4	4	See Note	B3			5	24A, 35, 47, 80	175	4-3
Q (378,001 and up)	Vol. Tone		17	UM154			See Note	A96	10-6 5 .01-.01	1 15	CM172 BB12 Buffer	B3 B14 B3		294 C3	6	6K7, 6A8, 78, 75, 6N6, 0Z4	175	7-2
R	Vol. Tone		6 22	G12 L		7	EX350	A75	8-4	4	See Note	B3			4	58, 57, 47, 80		4-1
R AC (Above No. 320001)	Vol. Tone		6 22	G12 L		7		A75	AB108	4	CM170				4	78, 77, 42, 80		4-4
R DC	Vol. Tone		6 22	G12 L		7		A14 A75							4	39, 36, 38		8-2
RJH (300,001 and up)	Vol.		17	MR48					20-20 5	1 15	2N509 BB12				5	6A7, 6K7, 6Q7, 251B5, 25Z5MG	456	
RK, RKE, RKS (760,001 and up)	Vol.		6	L			EX300		15-8 5	6 15	2N504 BB12				4	6D6, 6C6, 43, 25Z5MG		7-1
T	Vol.		17	UM154			See Note	A96	6-10 5 .05-.05	1 15	SR601 BB12 Buffer	B3 B14		292 245C C3 C14	6	78, 6A7, 75, 41, 84		4-5
TA	Vol.		17	UM154	M26		See Note	A96	8-8 5 .0125-.0125	1 15	See Note BB12 Buffer	B3 B14	V7	248 C3	4	6A7, 78, 61B7, 41	456	
U AC-DC Receiver	Vol.		6	UC502				A14	20-4 5	6 15	2N507 BB12				5	78, 44, 77, 43, 25Z5	456	4-6
U AC-DC (Late)	Vol.		17	N					5-20-8 5	11 15	UR182 BB12	B3			5	75, 6A7, 6D6, 43, 25Z5	456	6-2
UE, AC-DC Serial 215001	Vol.		17	N					5-20-8 5	11 15	UR182 BB12				5	6A7, 6D6, 75, 43, 25Z5	456	6-2
UX52	Vol. Tone		17 22	MR48 L					4-8 8-8 5	30 30	CM172 CM172				8	6D6, 6A7, 75, 42, 80		
V AC-DC Receiver	Vol.		7	UC510					20-4 5	6 15	2N507 BB12				4	14, 77, 43, 25Z5		4-6
V All-Wave	Vol.		12	N					40-8 5	6 15	2N514 BB12				4	6F7, 77, 43, 25Z5		
W All-Wave	Vol. Tone		17 41	N L					4-8-4 5	26	See Note	B3			8	78, 85, 37, 42, 80	456	5-1
X	Vol.		6	G12			EX200		4-4 5 5	4 15 19	CM170 BB11 BB11				5	6D6, 6C6, 42, 80		5-1
Z, ZS, ZE (321,001 and up)	Vol.		6	L			EX300		15-8-5-5 15-8-5-5	24/15 24/15	UR189 UR189	B5			3	6D6, 6C6, 12A7		7-1
4Z	Vol.		6	L		6			15-8-5-5	24/15	UR189	B5			4	6C6, 78, 38, 76		
5DE (780,001 and up)	Vol. Tone		17 22	MR48 L		6			20-4-5-5	6/15	UR189	B5			5	6A7, 6D6, 75, 43, 25Z5	456	
6A	Vol.		12	†		†	See Note	A5	†	3	See Note	B1			6	45, 27, 24A, 80		1-2
6GH (691,000 and up)	Vol. Tone		†	N L		6			8-8-24 5	1 15	See Note BB12	B3			5	6A7, 6D6, 85, 76, 43, 25Z5	456	
8J (765,001 and up)	Vol. Tone		17 22	MR48 L					4-8 8 5	30 30	2N518 CS133				8	6D6, 6A7, 75, 42, 80		
8J (765,361 and up)	Vol. Tone		17 22	MR48 MR39					4-8 8 5	1 13 15	2N518 CS133 BB12				8	6D6, 6A7, 75, 76, 61B5, 80	456	
8JM	Vol. Tone		† 22	L L				A17	4-8 8 5	1 13 15	2N518 CS133 BB12				8	6K7, 6A8, 6F6, 5Z4		
SKY HAWK—See Airking																		
SKY KING—See Airking																		
SKY ROVER	Vol.		6	G12					4-8	4	CM172				4	35, 24, 47, 80		4-11

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SOLAR																		
062.....	Vol.		45	N			4	15	BB11				205		6	39, 36, 37, 38	262	§5-18
062A, 3622A.....	Vol. Tone		45 34	N UC502			4	15	BB11				205		6	39, 36, 37, 41	262	
SONGBIRD— See Airking																		
SONORA																		
A11.....	Vol.	V6.....	6	MR28	M26	EX200		235		8	Order from Mfr.				4	6D6, 6C6, 25L6G, 25Z5, K55H		
A30, A32.....	Vol.		10	SRP283				2-1-1-3	3/13	See Note	B1					†		1-4,5
A36.....	Vol. Sen.		7	2M		See Note	te A3									†		1-7
A40.....	Vol. Sen.		10	SRP283		See Note	te A3	2-2-1-3	37	See Note	B1					†		1-8,9
A40.....	Vol. Sen.		10	SRP283		See Note	te A3	2-1-1-3	3/13	See Note	B1					†		1-8,9
A40.....	Vol. Sen.		7	2M		See Note	te A3									†		1-8,9
A46.....	Phono. Vol.		63	SRP283		See Note	te A5	2-3-1-3	37	See Note	B1					†		1-7
A46.....	Vol. Sen.		10	SRP283		See Note	te A3	2-3-1-3	37	See Note	B1					†		1-7
B31 (25 cycle).....	Vol.		12	A2MP				8-8	1	See Note	B3				8	24, 27, 345, 80		1-6
E AC.....	Vol.		14	N				2-2-7	3	See Note	B1				7	26, 27, 71A, 80		
P101.....	Vol.		1	N				16-8	1	2N519					3	6C6, 6A3, 83		8-2
P101.....	Tone		57	L				10	15	BB22								
P300.....	Vol. Tone		50	N				60	1	RS208					5	6C5, 25L6, 25Z5		8-2
P300.....	Vol. Tone		57	L				16	1	BB24								
PR101, PR202 (AC).....	Vol.		18	MR48				8	13	BB21					5	6A7, 6D6, 75, 41, 84	456	8-1
PR101, PR300, PR400 (AC-DC).....	Vol. Tone		17	MR48				8-16	1	2N519					5	6A7, 6D6, 75, 25L6, 25Z5	456	8-1
2RP (25 cycle).....	Vol. Sen.		10	SRP283		See Note	te A3	2-1-1-3	3/13	See Note	B1					†		1-12
2RP (25 cycle).....	Vol. Sen.		7	2M		See Note	te A5									†		1-12
3RP.....	Phono. Vol.		63	SRP283		See Note	te A5	3-2-1-3	37	See Note	B1					†		
3RP.....	Vol. Sen.		7	2M		See Note	te A3									†		
3RP.....	Phono. Vol.		63	SRP283		See Note	te A5	2-1-1-3	3/13	See Note	B1					†		1-1
3RP.....	Vol. Sen.		7	2M		See Note	te A3									†		1-1
3R, 4R.....	Vol. Sen.		10	SRP283		See Note	te A3	2-1-1-3	3/13	See Note	B1					†		1-1
5R (Arcturus Tubes).....	Vol. Sen.		10	SRP283		See Note	te A3	2-3-1-3	37	See Note	B1					†		1-2
5R (Arcturus Tubes).....	Vol. Sen.		7	2M		See Note	te A5									†		1-2
7P Elec. Phonograph DeLuxe 44.....	Phono. Vol.		63	SRP283		See Note	te A5	2-3-1-3	37	See Note	B1				10	4A1, 2DE1, 3SO, 2RE2		1-3
7P Elec. Phonograph DeLuxe 44.....	Vol. Sen.		10	SRP283		See Note	te A3	2-3-1-3	37	See Note	B1					†		1-10
7P Elec. Phonograph DeLuxe 44.....	Phono. Vol.		63	SRP283		See Note	te A5	2-3-1-3	37	See Note	B1					†		1-10
64.....	Vol. Tone		6	F12		EX350		8-8-8	28	RM265					7	24A, 27, 345, 80		3-1
70.....	Vol. Tone		15	O				8-8	1	2N518					8	35, 327, 47, 80	262	3-3,4
71, 72, 73.....	Vol. Tone		34	UC502				8-8	1	2N518					10	27, 35, 347, 80	262	2-1
71, 72, 73.....	Vol. Tone		15	O				8-8	1	2N518						†		2-1
71, 72, 73.....	Vol. Tone		44	UC502				8-8	15	CS133						†		2-1
74.....	Vol.		6	F12		EX350		8, 8	1	RS213					5	24, 47, 80		3-2
84, 85.....	Vol.		6	F12		EX350		1-8	1	CM172					5	24A, 35, 47, 80	262	2-2,3
86, 87.....	Vol.		15	N				1-2-4	28	CM175					7	35, 24A, 27, 47, 80	262	2-4,5
86, 87.....	Loc. IZr. Tone		34	Y200MP UC502												†		2-4,5
SONORA RADIO & TELEVISION																		
A11.....	Vol.	V6.....	6	UM128-SS1	M26	EX200		235		8	Order from Mfr.				4	6D6, 6C6, 25L6G, 25Z5		
AU10.....	Vol.	N1238	18	Order from	Mfr.			N1236 .008-.008	24/15	TN136		N1236	264	C3	4	6A8GT, 6K7GT, 6Q7GT, 6K6GT, Buffer	456	11-1
B.....	Vol.	V20	18	MR53	M26			C237	46	FPT357					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G, K49B/165R4G	456	
BA (Ch. A, B, D-D).....	Vol.	V20	18	MR53	M26			C237	46	FPT357					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G, K49B/165R4G	456	
BA (Ch. D).....	Vol. Tone	V20 V109	18 22	MR53 MR28	M26		A90	C237	46	FPT357					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G, K49B/165R4G	456	
BE.....	Vol.	V20	18	MR53	M26			C237	46	FPT357					5	6K8, 6K7, 6Q7G, 25L6G, 25Z6G, K49B/165R4G	456	11-2
BJE.....	Vol.	N2257	18	MR48	M26			N2015	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-3
BJI.....	Vol.	N2257	18	MR48	M26			N2015	24	2N514					5	12SA7/12SA7GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-4
BS.....	Vol.	V20	18	MR53	M26			C237	46	FPT357					5	6K8, 6K7, 6Q7G, 25L6G, 25Z6G	456	11-2
E, EA (1938).....	Vol. Tone	V20 V15	18 1	MR53 MR48	M26			C238	1/19	FPT332					5	6K8, 6K7, 6Q7G, 25A6G, 25Z6G, K49C/165R8G	456	

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
SONORA RADIO & F.....	TELEVISION Vol. Tone	SI0N—Conti V20 V15	18 18	MR53 MR48	M26			C239	1/13	FPT370					7	6K8, 6K7, 6Q7G, 6J5G, *25A6G, 25Z6G	456	
G. GA.....	Vol. Tone	V22 V111	124 22	TM227-SS1 MR48	M26			C246 C245 C247	54 54 20	RS215 See Note BB15	B3				9	6K8, 6H6, 6K7, *6J5G, *6F6G, 5Y3G	456	
KB73.....	Vol.	N2623	18	UM161-SS18				N2748	24/12	FPT304					5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	456	11-5
KD75.....	Vol.	N2623	18	UM161-SS18				N2627	46/78	FPT304/BB25	B128				6	1A7GT, 1N5GT, 1H5GT, 1A5GT, 50L6GT, 35Z5GT	456	11-6
KE78.....	Vol.	N2876	18	UM154-SS18	M26			N2915	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-7
KF, KFU.....	Vol.	N3728	18	UM129-SS25	M26	EX100		N3734	24/15	3N534					4	12SK7GT, 12SJ7GT, 50L6GT, 35Z5GT	456	12-4
KNF, KNFU.....	Vol.	N3045	18	UM154-SS22	M26			N3114	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-3
KTU.....	Vol.	N3307	18	MK401	M26			N3302	24	BB27/BB26					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	12-4
KU9.....	Vol.	N1238	18	Order from	Mfr.			N2795 .013-.013	24/15	3N526 Buffer	B14	N2794	264	C3	4	6SA7, 6SK7, 6SQ7, 6K6GT	456	11-9
KVU85, KVU97, Phono Oscillator. KXF, KXFU.....	Vol. Tone	N2982 N3369	106 106	MR48 UM161	M26		A96	N1675 N2437 N2436	12 10/15 10	BB25 FPT319 BB26	B128				6	50L6GT, 35Z5GT, 6SA7GT, 6SK7GT, 6SQ7GT, 25C6G, *25Z6GT	456	12-5
KY, KYU.....	Vol. Tone	N2982 N3369	106 106	MR48 UM161	M26		A96	N3688	1	FPT234					7	6SA7, 6SK7, *6SQ7, *6K6GT, 5Y4G	456	12-6
L.....	Vol.	V18	18	MR48	M27			C230	12	BB21					4	1C7G, 1D5GP, 1F7G, 1G5G	456	
LD, LDU.....	Vol.	N3065	18	UM154-SS22	M26			N3658	24	FPT214					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	456	12-7
M.....	Vol.	V20	18	MR53	M26			C236 .01-.01	46	FPT360 Buffer	B14	F4	246	C3	4	6A8G, 6K7, 6Q7G, 6G6G	456	
P.....	Vol.	V23	6	UM129-SS18	M26	EX200		C233	46	TN125					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT	456	11-10
PL29.....	Vol.	N1546	18	MR48	M27			N1367	12	BB21					4	1A7G, 1N5G, 1H5G, 1C5G	456	
PL37.....	Vol.	N1738	18	MK401	M27			N1367	12	BB21					4	1A7G, 1N5G, 1H5G, 1C5G	456	
PS.....	Vol.	V13	18	MR48	M26			C240 C230	24 18	BB24 BB21					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	455	
Q, QA.....	Vol. Tone	V20 V110	18 22	MR53 MR48	M26			C242 .01-.01	1	FPT225 Buffer	B14	F4	246	C3	6	6D8G, 1H4G, 6S7G, 6T7G, 6L5G, 1J6G	456	11-12
R, RA.....	Vol. Tone	V13 V15	18 18	MR48 MR48	M26			C241	6	2N514					7	6K8, 6K7, 6Q7G, 6J5G, *25L6G, 25Z6G, BK17E1	456	
SL.....	Vol. Tone	N1373 N1154	18 22	MR48 Order from	M27 Mfr.			N1367	12	BB21					5	1A7G, 1N5G, 1H5G, *1A5G	456	11-13
SM.....	Vol. Tone	N1320 N1454	18 22	MR53 Order from	M26 Mfr.			N1468 .01-.01	46	FPT360 Buffer	B14	N1431	850	C3	5	6A8G, 6K7, 6Q7G, 6G6G, 6ZY5G	456	11-14
TB.....	Vol. Tone	N1734 N1735	17 44	MR48 SRP263	M26			N1755	24/13	TN129					7	6A8G, 6K7G, 6Q7G, 6J5G, *25L6G, 25Z6G	456	11-15
TC.....	Vol. Tone	N1320 N1321	18 18	MR53 Order from	M26 Mfr.			N1312	1	FPT217	B128				5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G	456	11-16
TD.....	Vol. Tone	V22 V109	45 22	MR48 MR28	M26		A90	C237	46	FPT357					7	6A8G, 6K7G, *6J5G, 6F5G, 25L6G, 25Z6G	456	11-17
TE38, 40, 41.....	Vol.	N1864	50	MR48	M26			N1866	24/15	3N534					7	70L7GT	456	
TF39.....	Vol.	N1738	18	MK401	M27			N1367	12	BB21					4	1A7G, 1N5G, 1H5G, 1C5G	456	12-13
TH46.....	Vol.	N2056	18	UM154-SS18				N1367	12	BB21					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	456	11-19
TJ62, 63.....	Vol.	N2257	18	MR48	M26			N2015	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-20
TJF68.....	Vol.	N2257	18	MR48	M26			N2015	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-21
TK44.....	Vol.	N2013	6	UM128-SS18	M26	EX200		N1850	24/15	3N534					4	12K7GT, 12J7GT, 50L6GT, 35Z5GT	456	
TKE.....	Vol.	N1537	6	UM129-SS18	M26	EX200		N2380	24/15	3N534					4	12K7GT, 12J7GT, 50L6GT, 35Z5GT	456	11-22
TL.....	Vol.	N1373	18	MR48	M27			N1367	12	BB21					4	1A7G, 1N5G, 1H5G, 1C5G	456	11-13
TM.....	Vol.	N1320	18	MR53	M26			N1468 .01-.01	46	FPT360 Buffer	B14	N1475	246	C3	4	6A8G, 6K7, 6Q7G, 6G6G	456	11-24

; Data not substantiated.

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† Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SONORA RADIO & TN45.....	TELEVISION	SION—Continued	18	UM154-SS18	M26			N1366	24	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-20	
TNE.....	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-25	
TNF60.....	Vol.	N2070	18	UM154-SS18	M26			N2015	24	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-26	
TNF68.....	Vol.	N2257	18	MR18	M26			N2015	24	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-26	
TP108.....	Vol.	N1537	6	UM129-SS18	M26	EX200		N1850	24/15	3N534				4	12K7GT, 12J7GT, 50L6GT, 35Z5GT			
TPE.....	Vol.	N2013	6	UM128-SS18	M26	EX200		N2380	24/15	3N534				4	12K7GT, 12J7GT, 50L6GT, 35Z5GT		11-22	
TR53.....	Vol. Tone	N2163 N2157	18 22	MR18 MR28	M26			N2206	24	2N514				6	12A8GT, 12K7GT, 12J5GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-27	
TS.....	Vol.	N1434	6	Order from Mfr.				N1366	1	2N514				5	6A8GT, 6K7GT, 6J5GT, 25L6GT, 25Z6GT	456	11-16	
TSA105.....	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-20	
TSB47.....	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-8	
TSBU.....	Vol.	N1955	18	MK401	M26			N2599	24	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-8	
TSG-R "Globe Navigator".....	Vol.	N2745	18	MR48	M26			N2763	24	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-1, 2	
TSU105.....	Vol.	N1955	18	MK401	M26			N1366	24	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-8	
TT52, 64, TTU64.....	Vol.	N2223	127	MR53	M26			N2224	4	2S567				5	6A8GT, 6K7G, 6Q7G, 6K6G, 80	456	11-28	
TV48, TVU48.....	Vol.	N2173	6	UM128-SS22	M26	EX350		N2174	24/15	2N534				4	12A8GT, 12SJ7/12SJ7GT, 50L6GT, 35Z5GT	456	12-9	
Vol.	N2506	6	UM133-SS22	M26	EX350													
TW49, TWU49.....	Vol.	N2087	18	UM154-SS22	M26			N2015	24	2N514				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	11-28	
Vol.	N2522	18	UM154-SS22	M26														
TX53, 58.....	Vol. Tone	N2411 N2435	106 106	MR48 UM160-SS1	M26			N2437 N2436	10/15 10	FPT319 BB26	B128			6	6A8GT, 6K7GT, 6Q7GT, 25C6G, 25Z6G	456	11-29	
TXF67.....	Vol. Tone	N2411 N2435	106 106	MR48 UM160-SS1	M26			N2437 N2436	10/15 10	FPT319 BB26	B128			7	6A8GT, 6K7GT, 6Q7GT, 6G5, 25C6G, 25Z6G	456	12-11	
TY54.....	Vol. Tone	N2282 N2281	17 44	MR48 UC510	M26			N2283	1	FPD225	B128			7	6A8GT, 6K7G, 6Q7G, 6K6G, 6J5G, 80	456	11-30	
TZ56.....	Vol. Tone	N2482 N2483	45 1	TM240-SS1 UC513				N2459 N2460	25 25	BB64 BB64				12	6A8GT, 6SK7, 76, 76F6G, 80	456	12-10	
W17, W19, W24 Phono. Oscillator. XL28.....	Vol.	N1504	18	UM154-SS18	M27			N1675 N1367	12 12	BB25 BB21				4	32L7GT, 1A7G, 1N5G, 1H5G, 1C5G		12-13	
SPARKS-WITHING TON—See Sparton.																		
SPARTA—See Simplex																		
SPARTON AC7.....	Vol.	A3491	7	SRP154				2-2-2	3	See Note	B1			8	6C401, 71A or C181, BH		1-5	
AR19.....	Vol.	A5405	11	Order from Mfr.										5	24A, 12A		1-1	
AR50, AR50A.....	Vol.	A5405	11	Order from Mfr.										5	24A, 27, 12A		1-1	
AC62, AC63.....	Vol.	A3491	7	SRP154				2-2-2	3	See Note	B1			8	6C401 or C373, 71A or C181, BH		1-5	
5, 9.....	Vol.	A6634	8	H	6	RS244		A6610 A6611	1 11	CS131 CS133				5	35, 27, 45, 80		2-1	
9-30.....	Vol.	A3491	7	SRP154					46	See Note	B1			9	485, 2482B8, 80			
9A.....	Vol.	A5663	24	DRP246	6			B2327	1	MN273				6	24A, 27, 483, 80		2-2	
9X.....	Vol.	A8516	109	M		RS244	A24	A8123-1	4	HD682				8	58, 24A, 56, 47, 80	172.5	2-6, 7	
	Vol. Tone	A8517	34	K12	6	RS244	A24	A9019A	4	CS133								
	Supp.	A8652	7	D			A77											
10.....	Vol.	A7000	7	A2MP		RS244	A24	B2748A	1	MN275				7	35, 37, 47, 80	172.5	2-3, 4	
	Vol. Tone	A6926	22	K12		RS244	A24											
	Vol. Tone	A7903	4	DRP169		RS244	A24		4	CS131				5	24A, 35, 47, 80	172.5	2-5, 6	
	Vol. Tone	A9017	22	K12		RS244	A24		4	CS133								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPARTON—Continued																		
13, 14, 14A	Vol. Tone Supp.	A8516 A8517 A8652	109 22 7	M K12 D		6	RS244 RS244 A77	A24 A24 A24	A8123-1 A9019A A77	4 4 1		HD682 CS133 MN272			8	58, 24A, 56, 47, 80	172.5	2-6,7
15	Vol. Tone	A7180 A6926	7 22	UC500 K12			RS244 RS244	A24 A24	B2748A A6611	1 1		CS133 HD682			8	35, 27, 47, 80	172.5	2-8,9
15X	Vol. Tone Supp.	A8516 A8517 A8652	109 34 7	M K12 D		6	RS244 RS244 A77	A24 A24 A24	A8123-1 A9019A A77	4 4 1		HD682 CS133 CS133			8	58, 24A, 56, 47, 80	172.5	2-6,7
16, 16AW	Vol. Tone	A7935 A7896	111 44	G K12		6			A8123-1 A6611A	26 26		HD682 CS133			9	27, 35, 47, 80	172.5	2-10,11
17, 18	Vol. Tone Supp.	A8513-A-1 A8514 A8515	111 22 1	A10MP L UC508		6	RS244 RS244 A94	A24 A24 A94	A8123-1 A6611A A94	26 26 26		HD682 CS133 CS133			10	58, 24A, 56, 47, 80	172.5	4-1,3
19A	Vol. Tone	A5405 A7029A	11 32	Order from A5MP	Mfr.	6	RS244 RS244	A24 A24	A6884 A6884	28 28		RM265 RM265	B183		5 10	24A, 12A 35, 27, 45, 80	172.5	1-1 2-14,15
25, 26, 26AW	Vol. Tone	A7028 A8670	44 111	K12 C			RS244 RS244	A24 A24	A8123-1 A6611A	26 26		HD682 CS133			13	58, 24A, 56, 47, 80	172.5	3-1,2
27	Vol. Tone Supp.	A8514 A8515	22 32	L UC508			RS244 A94	A24 A94	A6611A A94	26 26		HD682 CS133			13	58, 24A, 56, 47, 80	172.5	4-1,5
27A	Vol. Tone Supp.	A8513A A8514 A8515	111 22 32	A10MP L UC508		6	RS244 RS244 A94	A24 A24 A94	A8123-1 A6611A A94	26 26 26		HD682 CS133 CS133			13	58, 24A, 56, 47, 80	172.5	4-1,5
28	Vol. Tone Supp.	A8513A A8514 A8515	111 22 32	A10MP L UC508		6	RS244 RS244 A94	A24 A24 A94	A8123-1 A6611A A94	26 26 26		HD682 CS133 CS133			13	58, 24A, 56, 47, 80	172.5	4-6
28X	Vol. Tone Supp.	A8513-A-1 A8514 A8515	111 22 1	A10MP L UC508		6	RS244 RS244 A94	A24 A24 A94	A8123-1 A6611A A94	26 26 26		HD682 CS133 CS133			10	58, 24A, 56, 47, 80	172.5	4-2,3
30, 30A, 30B	Vol. Tone Phono.	A7029A A7028 A5248	111 44 63	A5MP K12 UC507		6	RS244 RS244 A37	A24 A24 A37	A6884 A6884	28 28		RM265 RM265	B65		10	35, 27, 45, 80	172.5	2-17,22
31, 32	Vol.	A9458	83	MR44											6	32, 30, 31		1-4
33	Vol.	A9458	83	MR44											6	39, 36, 85, 41, 84	172.5	4-7,8
33A, 33B	Vol.	A10216-1	15	UC511		6			A8907 A9308 .02 A10277 A9308 .02	1 15 1 15		CS133 BB15 Buffer CM172 BB15 Buffer	B14 B14		6 6	432, 30, 31 39, 36, 85, 41, 84 78, 36, 75, 41, 84	172.5	7-1,2
34	Vol.	A8587	15	MR44											7	39, 36, 70, 38, 37	172.5	3-3,4
35	Vol. Tone Phono.	A6941 A6694 A10310	111 44 63 83	Y5MP K12 K12 M			RS244 A77 A77		2-4-1	3		See Note	B2		13	35, 27, 50, 81	172.5	3-5,6
36	Vol.	A10310	83	M		6			A10001 A10308	46 15		CM175 TN111		A10345	222	78, 36, 85, 37, 89, 79	172.5	4-9
40 Auto.	Vol.	A7210	15	M											6	36, 37, 38		2-30
41 Police Auto.	Vol.	A7808	7	Order from	Mfr.										5	36, 37, 38		2-31
41A	Vol.	A7808	7	Order from	Mfr.										5	39, 36, 12		4-1
42	Vol.	A8938	15	M											6	39, 36, 38, 37		8-8
43 Police Auto.	Vol.	A8938	15	M											6	39, 36, 37, 38		4-10
43S, 43S-1600, 43S-2400	Vol.	A8938	15	M											6	37, 39, 36, 41 or 42		
45	Vol. Tone Phono.	A7029A A7028 W	111 44 63	A5MP K12 W		6	RS244 RS244 A24	A24 A24 A24	A6884	28		RM265	B65		10	35, 27, 45, 80	172.5	2-32,33
46P	Vol.	A10216-1	17	M		6			A9308	15		BB15			5	78, 36, 75, 42	172.5	9-1
49	Vol.	A3491	26	SRP154											9	486, 701A, 71A		1-5
AR50, AR50A	Vol.	A5248	11	UC507			See Note	A77							5	24, 27, 12A		1-1
51, 52	Vol. Tone	A7595	22	K12			See Note	A4							6	32, 30, 31		2-34,35
53 AC-DC	Vol.	A11480	17	N		6			A11093-1	11		UR193	B31		5	78, 75, 43, 25Z5	456	5-1,3
54	Vol. Tone	A8516 A8932	56 44	M K12		7	RS244 RS244	A24 A24	A8907	12		CS133			8	34, 25S, 30, 32	172.5	3-7,8
55 Police Desk	Vol. Relay	A5608	26	UC513			See Note	A5	B2948	1		MN275			6	24A, 27, C183, 80		2-36
56	Vol. Tone	A7006 A6926	7 22	C K12		6	RS244 A24	A77 A24	B2748A	1		MN275			7	35, 27, 47, 80	172.5	1-6 2-37,38
57, 57A, 57B (AC-DC)	Vol.	A11480	17	N		6			A11093	11		UR193	B31		5	78, 75, 43, 25Z5	456	5-3,5
58	Vol.	A10316	40	Y			RS244	A24	A10318 A6611-2	12 11		BB60 BB61			5	1A6, 32, 30, 33	456	6-1,2
60 S.W. Converter	Vol.	A9579	17	M		6			A9550	11		UR182	B31		4	24A, 27, 80		2-39
61, 61A, 61B, 62	Vol.	A11492	17	M		6			A11093	11		UR193	B31		5	78, 75, 43, 25Z5	456	4-11
65, 66, 65F, 66F	Vol.	A11245	17	M		6			A11223-1 A11224-1 A10377	1 13 15		RM262 BB60 BB12			6	78, 75, 43, 25Z5 78, 6A7, 75, 42, 80	456 345	5-7,9 5-10,12
67, 68, 68XS	Vol.	A11245	17	M		6			A10377	15		BB12			8	484, 585, 80		1-7
69	Vol.	A3491	7	SRP154								See Note	B1		7	34, 1C6, 1A6, 30, 19	345	6-3,4
70	Vol.	A11575	17	UM147-SS2	M27				A11623 A10377	12 19		BB31 BB12			7	34, 1C6, 1A6, 30, 19	345	6-3,4
71, 71B	Vol.	A10014	18	UM147-SS2	M26				A9754	4		RM262	B73		6	6D6, 6C6, 75, 42, 80	456	4-12
72	Vol. Supp.	A10031 A10135	56 58	M E		6	A77 A77	A77 A77	A9754 A9754	4 4		RM262 RM262	B73 B73		7	6D6, 85, 42, 37, 80	172.5	4-13

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS								CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replace- ment	*Note					
SPARTON — Continued																			
721PQ (Police)	Vol. A10031	56	M	6	A77	A9751	4	RM262						8	6D6, 37, 85, 6C6, 42, 80	172.5			
	QAVC A10953	12	K12		A77	A10377	1	BB12											
73	Vol. A9755	17	M	6	RS244	A24	A9754	4	RM262					6	6D6, 37, 75, 42, 80	456	7-4, 6		
73AX, 73HX	Vol. A9755	17	M	6	RS244	A24	A9754	4	RM262					6	78, 75, 42, 80	456	7-5, 6		
74	Vol. A10027	109	M	6	RS244	A24	A10018	35	CS133					9	58, 21A, 56, 2A5, 80	172.5	4-14		
	Tone Supp. A10029	22	K12	6	RS244	A24	A10118	35	CM172										
	Vol. A10028	7	E		RS244	A24													
75A	Vol. A8516	83	M		RS244	A24	A8123	4	CS131					8	58, 56, 57, 55, 47, 80	456	5-13, 14		
	Tone Supp. A8517	22	K12	6	RS244	A24	A9019A	4	CS133										
	Vol. A10446	7	UC510		RS244	A77													
75AX	Vol. A8516	83	M		RS244	A24	A8123	4	HD682					8	58, 57, 56, 55, 47, 80	456	8-1, 2		
	Tone Supp. A8517	22	K12	6	RS244	A24	A9019A	4	CS133										
76	Vol. A10447	15	M	6	A77	A8123-1	26	HD682						13	58, 57, 56, 2A5, 5Z3	456	7-7, 8		
	Tone Supp. A10418	22	L		A77	A6611A	26	CM175											
	Vol. A10446	7	UC510		A77	A10609-1	13	CS130											
77	Vol. A11575	15	UM147-SS2	M27	A77	A11623	12	BB31						7	34, 1C6, 1A6, 19, 30	345	6-3, 4		
	Vol. A10031	62	M	6	A77	A9754	4	BB12						8	6D6, 37, 42, 80	172.5	4-15		
78	Vol. A10135	7	E		A77														
79, 79A	Vol. A3491	7	SRP154																
80	Vol. A11297	56	M	6	A77	11223	1	See Note	B1					8	484, 585, 80		1-7		
	Tone Supp. A11334	22	L		A77	A10377	15	RM262						8	78, 6A7, 76, 85, 42, 80	456	5-15, 18		
	Vol. A11381	26	A5MP		A77														
	Supp. A10446	58	UC510		A77														
81, 81A	Vol. A10316	40	Y		RS244	A24	A10318	12	BB60					5	1A6, 32, 30, 33	456	4-16, 7-18		
	Fil. A10350	29	Q		A77														
82	Vol. A10316	40	Y		RS244	A24	A10318	12	BB60					5	1A6, 32, 30, 19	456	4-17		
	Fil. A10350	29	Q		A77														
83, 84, 85X, 86X	Vol. A11297	56	M	6	A77	11223	1	RM262						8	78, 6A7, 76, 85, 42, 80	456	5-15, 18		
	Tone Supp. A11334	22	L		A77	A10377	15	BB12											
	Vol. A11381	26	A5MP		A77														
	Supp. A10446	58	UC510		A77														
89, 89A	Vol. A3491	7	SRP154																
99	Vol. A4	7	SRP154																
101	Vol. A4770	7	K12		A37	1-4-1	26	See Note	B1					13	481, 27, 26, 585, 81		1-10, 11		
	Phono. A4770	63	K12		A37			See Note	B1					13	481, 27, 26, 585, 81		4-18, 19		
103	Vol. A11297	56	M	6	A77	1-4-1	26	See Note	B1					13	481, 485, 3C586, 81		2-40, 41		
104, 105X, 105XS	Vol. A11334	22	L		A77	A11223-1	1	RM262						10	78, 6A7, 76, 85, 42, 5Z3	456	5-19, 20		
	Tone Supp. A11381	26	UC510		A77	A10377	15	BB12											
	Vol. A10446	98	Y200MP		A77														
109 DeLuxe	Vol. A11381	7	SRP154					See Note	B1					10	484, or 485, 585, or 586, 81		1-12		
110, 111 (DeLuxe) (Two Types)	Vol. A3491	7	SRP154			1-4-1	3	See Note	B1					12	484, 26, 50, 81		1-13		
111A	Vol. A4770	7	K12		A37	1-4-1	3	See Note	B1					13	484, 26, 50, 81		2-43		
111X	Vol. A8513	111	A10MP	6	RS244	A24	A8123-1	26	HD682					10	58, 21A, 56, 47, 80	172.5	4-2, 3		
	Tone Supp. A8514	22	L		RS244	A24	A6611A	26	CS133										
	Vol. A8515	1	UC508		A94														
134, 136	Vol. A10447	15	M	6	RS244	A24	A8123-1	37	HD682					13	58, 2A7, 56, 2A5, 5Z3	456	6-5, 6		
	Tone Supp. A10418	22	L		RS244	A24	A6611A	37	CS133										
	Vol. A10446	7	UC510		RS244	A24	A10609-1	13	BB60										
	Supp. A11381	26	E		A77	A6316-1	19	BB33											
	Vol. A11297	56	M	6	A77	A10377	15	BB12											
135	Vol. A11334	22	L		A77	A11582	15	BB12											
	Tone Supp. A11381	26	A5MP		A77	A11223-1	1	RM262						10	78, 6A7, 76, 85, 42, 5Z3	456	5-19, 20		
	Supp. A10446	98	UC510		A77	A10377	15	BB12											
219P, 219PD	Vol. 1325	58	SRP258			A14927-1	24	FPD208						2	6A7, 25Z5, BK80B		10-		
235	Vol. 1386	63	K12		A37	15-5	1	MN273						10	781, 3C183, 80		2-14		
301 AC	Vol. 880	7	SRP154			2-2	1	See Note	B1					10	484, 50, 81		1-14		
301 DC	Vol. A3491	7	SRP154			3	1	See Note	B1					8	484, 182		2-15		
333	Vol. A10216	17	UC511	6		A10277	1	Order from	Mfr.	B5392	292	C3		5	6F7, 78, 75, 41, 84	456	4-20		
	Vol. A10216	17	UC511	6		A9308	15	BB15											
400	Vol. A12708-A-1	6	F12	6		.02	1	Buffer		B14									
409GL	Vol. A12708-A-1	6	F12	6		15-5	1	MN273						6	24A, 27, 3C183, 80				
410 AC (Junior)	Vol. A5663	24	DRP246	6		A14972	1/15	3N534						4	6A8GT, 6J7GT, 25L6GT, 25Z6GT	456	10-2		
410 DC (Junior)	Vol. A5663	24	DRP246	6		A14782-2	15	BB12						6	24A, 27, 3C183, 80		2-46, 1-15		
417X	Vol. A12708	6	F7	6		B2327	1	MN273						5	24A, 27, 3C183		2-48, 1-17		
420 AC (Jewell)	Vol. A5663	24	DRP246	6		A12706	1/15	3S579						4	6A7, 6F7, 41, 80	456	9-9		
420 DC (Jewell)	Vol. A5663	24	DRP246	6		B2327	1	MN273						6	24A, 27, 3C183, 80		2-46, 1-15		
427X	Vol. A12708	7	L	6		A14101	1/15	3S579						4	6A7, 6F7, 42, 80	456	8-3, 4		
437X	Vol. A12708	7	L	6		A14101	1/15	3S579						4	6A7, 6F7, 42, 80	456	8-3, 4		
457X	Vol. A12708	7	L	6		A14101	1/15	3S579						4	6A7, 6F7, 42, 80	456	8-3, 4		

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPARTON — Continued																		
475A	Vol. A8516	83	M	RS244			A8123	4	HD682					8	58, 57, 55, 56, 47, 80.	456	5-13, 14	
	Tone A8517	22	K12	RS244	6		A9019A	4	CS133									
	Sen. 10446	58	UC510			See Note A77												
475AX, 478AX	Vol. A8516	83	M	RS244			A8123	4	HD682					8	58, 57, 56, 55, 47, 80.	456	8-1, 2	
	Tone A8517	22	K12	RS244	6		A9019A	4	CS133									
478	Vol. A10031	62	M	RS244	6		A9754	4	RM262	B73				8	6D6, 437, 42, 80.	172.5	4-15	
	Supp. A10135	58	E	RS244														
478A	Vol. A8516	83	M	RS244			A8123	4	HD682					8	58, 57, 56, 55, 47, 80.	456	5-13, 14	
	Tone A8517	22	K12	RS244	6		A9019A	4	CS133									
	Sen. 10446	58	UC510			A77												
500	Vol. A15129	18	MK401		M26		A15124	1	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 40Z5GT			
506	Vol. A11480-1	17	N		6		A11093-1	11	UR193	B31				5	78, 75, 43, 25Z5	456	10-3	
510	Vol. A15129	18	MK401		M26		A15093	1	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 40Z5GT	456	6-7, 8	
511, 511U	Vol. A20137	18	UM154		M26	A96	A20135	24	2N509					5	12SA7, 12SK7, 12SO7, 50L6GT, 35Z5GT	456	10-4	
516, 516X	Vol. A12308	76	N		6		A12307	4	CM170					5	6A7, 78, 75, 42, 80.	456	7-11, 12	
	Tone A12309	76	M															
517	Vol. A12988-1	15	MR53		M26		A14102	1/15	3S579					5	6A7, 78, 75, 42, 80.	456	8-5, 6	
518, 518X	Vol. A14216A	18	N				A14428	1/15	3S579					5	6A7, 78, 75, 42, 80.	456	8-5, 6	
	Tone A14217A	22	O		6													
520M	Vol. A15129-4	18	MK401		M26		A14684-4	1/15	FPT332					5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	456	9-2, 3	
527-2	Vol. A14274	18	N		6		A14273	12	BB21					5	1C7G, 1D5G, 1H16G, 33	456	11-1	
	Tone A12987	22	O															
528-2	Vol. A14274A	18	N		6		A14273	12	BB31					5	1C7G, 1D5G, 1H16G, 33	456	10-5	
	Tone A12987A	22	L															
530X	Vol. A15129-2	18	MK401		M26		A14675	1/15	2N519/BB12					5	6A7, 78, 75, 42, 80.	456	9-3, 4	
536, 536X	Vol. A12075	17	O		6		A12048	1/15	3S581					5	6A7, 6K7, 75, 6F6, 80.	456	11-2	
537	Vol. A12988	15	O		6		A14102	1/15	3S579					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	7-13, 14	
	Tone A12987	22	O															
538, 538X	Vol. A14216A	18	N				A14073	25	RS216					6	6A8G, 6K7G, 6Q7G, 6E5, 6F6G, 5Y3G	456	8-6, 7	
	Tone A14217A	22	O				A14072	25	WF3050									
540LX	Vol. A15130	18	MK401				A14073A	25	RS216					5	6J8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	9-5, 6	
	Tone A15131	22	MK402		M26		A14072A	25	WF3050									
540SX	Vol. A15130	18	MK401				A14073A	25	RS216					5	6J8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	11-3	
	Tone A15131	22	MK402		M26		A14072A	25	WF3050									
541SX	Vol. A15130	18	MK401				A14073A	25	RS216					5	6J8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	11-4	
	Tone A15131	22	MK402		M26		A1472A	25	WF3050									
546X	Vol. A12308	76	N		6		A12307	4	CM170					5	6A7, 78, 75, 42, 80.	456	7-11, 12	
	Tone A12309	76	M				A12306	20	BB15									
547X	Vol. A12988	15	O		6		A14102	1/15	3S579					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	8-11, 14	
	Tone A12987	22	O															
548X	Vol. A14216-A-1	18	MR48		M26		A14073	25	RS216					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	9-7	
	Tone A14217-A-1	22	O				A14072	25	WF3050									
549-1	Vol. A14957	18	MR39		M27		A14958	12/13	BB21					5	1A7G, 1N5G, 1H15G, 1C5G	456	10-7	
	Tone A15130-1	18	MK401				A14780	1/15	2N519/BB24					5	6J8G, 78, 75, 42, 80.	456	11-5	
550M	Vol. A15128	22	L			A5	A14102	1/15	3S579					5	6A7, 78, 75, 42, 80.	456	8-5, 6	
	Tone A12988-1	15	MR53		M26													
557, 558B, 558BX, 558C, 558CX	Vol. A14216	18	N				A14428	1/15	3S579					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	9-2, 3	
	Tone A14217	22	O		6													
564	Vol. A3491	7	SRP154				2-2-2	3	See Note	B1				10	484, 485, 486, 81	456	2-50	
564 DC	Vol. A11480	17	N				3	1	See Note	B11				9	484A, 482A	456	2-53	
566	Vol. A12988-1	15	MR53		M26		A11093-1	11	UR193	B3				5	78, 75, 43, 25Z5	456	6-7, 8	
567	Vol. A14216	18	N				A14102	1/15	3S579					5	6A7, 78, 75, 42, 80.	456	8-5, 6	
568, 568X	Vol. A14217	22	O		6		A14228	1/15	3S579					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	9-2, 3	
	Tone A12987	22	O															
570	Vol. SRP258	7	SRP258				2-2-2	3	See Note	B1				11	C484, C586, 81	456	2-50	
570 DC	Vol. SRP258	7	SRP258				3	1	See Note	B11				9	484A, 482A	456	2-53	
570M	Vol. A15129-4	18	MK401		M26		A14684-3	1/15	FPT339					5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	456	11-6	
574	Vol. A4770	7	K12			A37	1-4-1	3	See Note	B1				13	484, 485, 486, 81	456	2-43	
577	Vol. A12988	17	O		6		A14102	1/15	3S579					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	8-6, 7	
	Tone A12987	22	O															
578	Vol. SRP258	98	SRP258				1-4-1	26	See Note	B1				12	484, 485, C586, 81	456	2-41	
578X	Vol. A14217A	18	MR48				A14428	1/15	3S579					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G	456	9-2	
	Tone A14216A	22	O		6													
580X	Vol. A15129-3	18	MK401		M26		A14715	1/15	3S579					5	6A7, 78, 75, 42, 80.	456	11-9	
581X	Vol. A15129-3	18	MK401		M26		A14715	1/15	3S579					5	6A7, 78, 75, 42, 80.	456	12-5	
587-2	Vol. A14274	18	N		6		A14273	12	BB21					5	1C7G, 1D5G, 1H16G, 33	456	10-5	
	Tone A12987	22	O															
588-2	Vol. A14274A	18	N		6		A14273	12	BB31					5	1C7G, 1D5G, 1H16G, 33	456	9-3, 4	
	Tone A12987A	22	L															
589	Vol. SRP258	7	SRP258				15-5	1	MN273					10	484, 482, 80	456	1-19	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPARTON—Continued																		
590-1	Vol.	A15132-1	18	MR48	M27			A14604-5	1/78	FPT354					5	1A7G, 1N5G, 1H5G, 1A5G, 35Z5GT...	456	11-7
591, 593	Vol.		7	SRP154				15-5	1	MN273					9	484, 2C182B, 80...		2-52
594	Vol.	A11480	17	N	6			A11093-1	11	UR193	B31				9	78, 75, 43, 25Z5...	456	6-7,8
600	Vol.		7	SRP258				15-5	1	MN273					10	484, 1B3, 80...		1-20
600A	Vol.	A5663	24	DRP246	6			B2327	1	MN273					6	24A, 27, 3483, 80...		2-2
600 DC	Vol.		7	SRP258				3	1	See Note	B11				9	484A, 1B2A...		2-53
601B	Vol.	A15129-7	18	MK401	M26			A15571	1	2N513					6	12SK7GT, 12A8GT, 12SQ7GT, 35L6GT, 35Z5GT...	456	12-7
601MS	Vol.	A15129-6	18	MK401	M26			A14782-4	9	BB44					6	6SK7GT, 6A8GT, 6SQ7GT, 6K6GT, 117Z6GT...	456	12-8
601S	Vol.	A15129-8	18	MK401	M26			A15571	24	2N513					6	12SK7GT, 12A8GT, 12SQ7GT, 35L6GT, 35Z5GT...	456	
606	Vol. Tone Supp.	A8513	8	A10MP		RS244		4	26	HD682					13	58, 24, 456, 447, 380...	172.5	
		A8514	22	L		RS244		5	26	CS133								
		A8515	7	UC509		See Note A94												
608, 608B	Vol.	A14503	18	MR48	M26			A14500	1	2N514					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G, BK49B...	456	9-10
608, 608B, G, K, R, V, W	Vol.	A14503	18	MR48	M26			A14500	1	2N514					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G, BK49B...	456	9-10,11
610	Vol.		7	SRP258				15-5	1	MN273					10	484, 1B3, 80...		1-20
610A	Vol.	A5663	24	DRP246	6			B2327	1	MN273					6	24A, 27, 3483, 80...		2-2
610 DC	Vol.		7	SRP258				3	1	See Note	B11				9	484A, 1B2A...		2-53
616, 616X, 616M, 616MX	Vol.	A12075	17	O	6			A12048	1/15	3S581					5	78-6K7, 6A7, 75, 42-6F6, 80...	345	6-9,10
617, 617X	Vol. Tone	A14216	77	N				A14073	25	RS216					6	6K7G, 6A8G, 6Q7G, 6F6G, 5Y3...	345	8-9,10
		A14217	22	O	6			A14072	25	WE3050					6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3...	345	8-9,10
620	Vol.		7	SRP258				15-5	1	MN273					10	484, 1B3, 80...		1-20
620 DC	Vol.		7	SRP258				3	1	See Note	B11				9	484A, 1B2A...		2-53
620M	Vol. Tone	A15130-1	18	MK401				A14799	1	2N519					6	6J8G, 78, 75, 6AC5G, 76, 80...	456	11-10
		A15128-1	22	MK400	M26			A8125-1	4	HD682					8	58, 24A, 456, 47, 80...	172.5	2-6,7
		A8516	109	M		RS244	A24	A9019A	4	CS133								
		A8517	34	K12	6	RS244	A24	A9019A	4	CS133								
		A8652	7	D			A94											
628, 628X	Vol. Tone	A14216A	18	N	6			A14073	25	RS216					6	6A8G, 6K7G, 6Q7G, 6E5, 6F6G, 5Y3G...	456	9-5,6
		A14217A	22	O				A17072	25	WE3050					6	78, 6A7, 6K7, 75, 6F6, 5Y3...	345	7-19,20
636MX	Vol.	A12075	17	O	6			A12048	1/15	3S581					6	1C7G, 1D5G, 1H6G, 1H4G, 1E7G...	456	10-9
637-6	Vol. Tone	A14274	18	N	7			A14326	1	2N518		A14344	245	C3	6	1C7G, 1D5G, 1H6G, 1H4G, 1E7G...	456	10-9
		A12987	22	L				A14273	13	BB31	B14	A14344	245	C3	6	1C7G, 1D5G, 1H6G, 1H4G, 1E7G...	456	9-11,12
638-6	Vol. Tone	A14274A	18	MR48	M27			A14326	1	2N518					6	1C7G, 1D5G, 1H6G, 1H4G, 1E7G...	456	9-11,12
		A12987A	149	MR53				A14273	12	CS133	B14				6	1C7G, 1D5G, 1H6G, 1H4G, 1E7G...	456	9-11,12
640LX	Vol. Tone	A15127	18	MK400				A14684-2	1/15	FPT333					6	6K7G, 6J8G, 6Q7G, 6F6G, 5Y3G...	456	11-11,12
640SX	Vol. Tone	A15127	18	MK400	M26			A14684-2	1/15	FPT333					6	6K7G, 6J8G, 6Q7G, 6F6G, 5Y3G...	456	11-12,13
649-6L, S	Vol. Tone	A15128-1	22	MK400	M26			A14942	1/19	3S578		A14945	850	C3	6	6J8G, 1D5GP, 6T7G, 1G5G, 6ZY5G...	456	10-11
		A14075-A1	18	M				A14782-1	12	BB31	B14				6	6A8GT, 6SK7GT, 6SQ7GT, 6F6G, 5Y3G...	456	12-9,10
		A14778	22	M	6			A15755	1	FPT233	B117				6	78, 75, 43, 25Z5...	456	6-11,12
651 (Series)	Vol. Tone	A15130-4	18	MK401	M26			A11093	11	UR193	B31				6	6A7, 78, 75, 76, 6AC5G, 80...	456	11-14
		A15131-1	44	MK402				A14799	1	2N519					6	6A7, 78, 75, 76, 6AC5G, 80...	456	11-14
655	Vol.	A11069	17	M	6			A14780-2	1/15	2S569/BB12					7	6SA7GT, 6SK7GT, 6SQ7GT, 6F6G, 5Y3G, 6U5/6G5...	456	12-11,12
660M	Vol. Tone	A15130-1	18	MK401				A14782-1	13	BB31					6	78-6K7, 6A7, 75, 42-6F6, 80...	345	7-15,17
661RP	Vol. Tone	A15128	22	MK400	M26			A12048	1/15	3S581					5	78 or 6K7, 6A7, 75, 42 or 6F6, 80...	345	6-9,10
666, 666X	Vol.	A12075	17	O	6			A14073	25	RS216					6	6K7G, 6A8G, 6Q7G, 6F6, 5Y3...	345	8-9,10
666M, 666MX	Vol.	A12075	17	O	6			A14072	25	WE3050					6	6A8G, 6K7G, 6Q7G, 6E5, 6F6G, 5Y3G...	456	9-5,6
667, 667X	Vol. Tone	A14216	77	N				A14073	25	RS216					6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G...	456	9-5,6
		A14217	22	O	6			A14072	25	WE3050					6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G...	456	9-5,6
668	Vol. Tone	A14216A	18	N				A14073	25	RS216					6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G...	456	9-5,6
		A14217A	22	O	6			A14072	25	WE3050					6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G...	456	9-5,6
668X	Vol. Tone	A14216A	18	N				A14073	25	RS216					6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G...	456	9-5,6
		A14217A	22	O	6			A14072	25	WE3050					6	6A8G, 6K7G, 6Q7G, 6F6G, 5Y3G...	456	9-5,6
670-6L, 670-6S	Vol. Tone	A14075-A1	18	M				A14912	1/19	3S578		A14945	850	C3	6	6J8G, 1D5GP, 6T7G, 1G5G, 6ZY5G...	456	11-15,16
		A14478	22	M	6			A14782-1	13	BB31	B14	A12726	294	C3	6	6K7, 6A8, 6Q6, 6F6, 84...	172.5	9-30
676 (Late)	Vol. Tone	A14013	17	UM150		See Note A96		A12674	1/15	3S579	B14				6	6K7, 6A8, 6Q6, 6F6, 84...	172.5	9-30
		A12681	22	MR53				.009		Buffer								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
SPARTON—Continued																		
678.....	Vol. Tone	A1416A A14217A	18 22	N O				A14073 A14072	25 25	RS216 WE3050				6	6A8G, 6K7G, 6Q7G, 6E5, 6F6G, 5Y3G	456	9-5,6	
678A, 678X.....	Vol. Tone	A14216A A14217A	18 22	N O				A14073 A14072	25 25	RS216 WE3050				6	6A8G, 6K7G, 6Q7G, 6E5, 6F6G, 5Y3G	456	9-5	
685.....	Vol.	A11245	17	M				A11223-1 A11224 A13077	1 13 15	RM262 BB60 BB12				6	*78, 6A7, 75, 42, 80	345	5-11,12	
686, D686, H686.....	Vol. Tone	A14013 A12681	17 22	UM150 MR53		See Note A96		A12674 .009	1/15 1	3S579 Buffer		A12726	294	C3	6	*6K7, 6A8, 6Q7, 6F6, 84	172.5	9-30
687-6.....	Vol. Tone	A14274 A12987	18 22	N L				A14326 A14273 .009	1 13	2N518 BB31 Buffer		A14344	245	C3	6	1C7G, *1D5G, 1H6G, 1H4G, 1E7G	456	10-9
688-6.....	Vol. Tone	A14274A A12987A	18 149	MR48 MR53	M27			A14326 A14273 .009	1 12	2N518 CS133 Buffer		A14344	245	C3	6	1C7G, *1D5G, 1H6G, 1H4G, 1E7G	456	9-11,12
690M.....	Vol. Tone	A15130-1 A15128-1	18 22	MK401 MK400				A14799	1	2N519				6	6J8G, 78, 75, 6AC5G, 76, 80	456		
691.....	Vol.	A11245	17	M				A11223-1 A11224 A10377	1 13 15	RM262 BB60 BB12				6	*78, 6A7, 75, 42, 80	345	5-10,12	
699.....	Vol. Tone		15 22	MR55				8-6 10 .008	4 15	2S567 BB12 Buffer			294	C3	6	*6D6, 6A7, 6Q7, 41, 0Z4	262	10-6
707.....	Vol. Tone Supp.	A8513 A8514 A8515	1 22 1	A10MP L UC508			RS244 RS244 See Note A94	A8123-1 A6611-A	26 26	HD682 CS133				13	*58, 24, *56, *47, *80	172.5		
711X.....	Vol.	A15129-1	18	MK401	M26			A15571	1	2N513				7	*12SK7GT, 12A8GT, 6H4GT, 12SF5GT, 35L6GT, 35Z5GT	456	12-6	
716, 716X.....	Vol.	A11297-1	17	M			A77	A12048 A10377	1/15 15	3S581 BB12				7	*78, 6A7, 75, 42, 80	456	6-13,14	
727X, 727XD.....	Vol. Tone	A14075 A14089	17 107	M N				A14073 A14072	25 25	RS216 WE3050				7	*6K7, 6A8, 6Q7G, *6F6G, 5Y3	456	8-12,14	
728X.....	Vol. Tone	A14075A A12987A	18 22	M O				A14073 A14072	25 25	RS216 WE3050				7	*6K7G, 6A8G, 6Q7G, 6F6G, 6E5, 5Y3G	456	10-15	
737.....	Vol.		7	SRP258				A14403 B2948	13 1	WE3050 MN273				10	*484, *182, 80		2-55, 1-20	
737DC.....	Vol.		7	SRP258				3	1	See Note	B11			9	*484A, *182A		2-53	
738.....	Vol. Tone	A14075-A1 A14089A	18 22	M N				A14073 A14072	25 25	RS216 WE3050				8	6A8G, 6K7G, 6H6G, 6J7G, 6E5, 6Q7G, 6V6G, 5Y3G	456	9-13	
740.....	Vol.		7	SRP258				2-2-2	3	See Note	B1			10	*484, *C586, 81		2-50	
740 DC.....	Vol.		7	SRP258				3	1	See Note	B11			9	*484A, *182A		2-53	
740LX, 740LXPA.....	Vol. Tone	A15127 A15128-1	18 22	MK400 MK400	M26			A14684-2	1/15	FPT333				7	*6K7G, 6J8G, 6Q7G, 6F6G, 5Y3G, 6U5	456	11-11,12	
740SX, 740SXPA.....	Vol. Tone	A15127 A15128-1	18 18	MK400 MK400	M26			A14684-2	1/15	FPT333				7	*6K7G, 6J8G, 6Q7G, 6F6G, 5Y3G, 6U5	456	11-12,13	
748X.....	Vol. Tone	A15128-1 A14518	18 18	MK400 MR44	M26			A14073 A14072	25 25	RS216 WE3050				7	*6K7G, 6A8G, 6Q7G, 6F6G, 6E5, 5Y3G	345	9-15,16	
750 AC.....	Vol. Tone	A14217-A1 SRP258	22 7	O SRP258				2-2-2 3	3	See Note See Note	B1 B1			11	*484, *C586, *81		2-50	
750 DC.....	Vol. Tone	A8513 A8514	111 22	A10MP L			RS244 RS244	A8123-1 A6611A	26 26	HD682 CS133				9	*484A, *182A		2-53	
750A, 750X.....	Vol. Tone Supp.	A8513 A8514 A8515	111 22 1	A10MP L UC508			RS244 RS244 A94	A8123-1 A6611A	26 26	HD682 CS133				10	*58, 24A, *56, *47, 80	172.5	4-2,3	
760PS.....	Vol. Tone	A15130-1 A15128-1	18 22	MK401 MK400	M26			A14799	1	2N519				7	6SA7GT, 78, 75, 76, 6AC5G, 5W4GT, 6U5	456	11-17	
761.....	Vol. Tone	A15130-2 A15128-1	45 22	MK401 MK400	M26			A14780	1/15	2N519/BB24				7	6SA7GT, 6SK7GT, *6P5GT, 6K6GT, 6SF5GT, 5Y3G	456	12-12,13	
766, 766X, 766XP, 766XS.....	Vol.	A11297	17	M			A77	A12048 A10377	1/15 15	3S581 BB12				7	*78, 6A7, 75, 42, 80	456	6-13,14	
768, 768X.....	Vol. Tone	A14075A A12987A	18 22	M O				A14073 A14072 A14403	25 25 13	RS216 WE3050 WE3050				7	*6K7G, 6A8G, 6Q7G, 6E5, 6F6G, 5Y3	456	9-16,17	
770, 770PA.....	Vol. Tone	A15130-1 A15129-5	45 57	MK401 MK401	M26			A14684-7 A14782-2	3 15	FPT390 BB12				7	6J8G, 6K7G, 6P5G, 6F5G, *6F6G, 5Y3G	456	11-18	
775.....	Vol.	A11575	15	UM147-SS2	M27			A11623 A10377	12 19	BB31 BB12				7	*34, 1C6, 1A6, 30, 19	345	6-3,4	
778, 778X.....	Vol. Tone	A14075A A12987A	18 22	M O				A14073 A14072 A14403	25 25 13	RS216 WE3050 WE3050				7	*6K7G, 6A8G, 6Q7G, 6E5, 6F6G, 5Y3	456	9-16,17	
782PA.....	Vol. Tone	A15130-6 A15129-9	18 22	MK401 MK401	M26			A20110 A20104	3/15 13	FPT424 BB64				7	6SD7GT, 6SA7GT, 6SK7GT, 6SQ7GT, *6F6G, 5Y3G	456	12-15,16	
827X, 827XD.....	Vol. Tone	A14110 A14112	83 22	TM227-SS1 N				A14122 A14113	25 25	RS216 WE3050				9	*6K7, 6A8, 6Q7G, 6J7G, 6N6G, 6E5, 5Y3	456	8-17	
831X.....	Vol. Tone	A15130-3 A15128-2	45 22	MK401 MK400	M26			A15741	1	2S569				8	*6SK7GT, 6SA7GT, *6J5GT, 6SQ7GT, 6AC5G, 7Y4	456	12-10,17	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPARTON—Continued																		
835	Vol. Tone	A11297	56	M	6		A77	11223	1	RM262				8	78, 6A7, 76, 85, 42, 80	456	5-15,18	
	Supp.	A11334	22	L			A77	A10377	15	BB12								
	Vol. Tone	A11381	26	A5MP			A77											
	Supp.	A10446	58	UC510			A77											
867	Vol. Tone	A14075	77	M				A14073	25	RS216				8	6K7, 6A8, 6K7G, 6Q7G, 6F6G, 5Y3	456	8-13,14	
	Supp.	A14089	107	N				A14072	25	WE3050								
870	Vol. Tone		7	SRP258				1-4-1	3	See Note	B1			13	7484, 726, 7C586, 781	456	8-13,14	
870A, 870X	Vol. Tone	A8513	111	A10MP		RS244		A8123-1	26	HD682				10	58, 24, 56, 747, 80	172.5	2-43	
	Supp.	A8514	22	L		RS244	A24	A6611A	26	CS133							4-2,3	
	Vol. Tone	A8515	1	UC508			A94											
877X	Vol. Tone	A14075	17	M				A14073	25	RS216				8	6K7, 6A8, 6Q7G, 6E5, 6F6G, 5Y3	456	8-12,14	
	Supp.	A14089	107	N				A14072	25	WE3050								
880	Vol. Tone	A15127	18	MK 400				A14799-2	1	2N519				8	6K7G, 6J8G, 6Q7G, 6A5G, 6J5G, 5Y3G, 6U5	456	11-10,20	
	Supp.	A15128-1	22	MK 400	M26													
880A	Vol. Tone	A15130-1	45	MK 401				A14684-7	3	FPT390				8	6J8G, 6K7G, 6P5G, 6F5G, 6F6G, 5Y3G, 6U5	456	11-18	
	Supp.	A15129-5	57	MK 401	M26			A14782-2	15	BB12								
928X	Vol. Tone	A14075A	17	M				A14122	25	RS216				9	6K7G, 6A8G, 6Q7G, 6G7G, 6C5G, 6E5, 5Y3G	456	9-21	
	Supp.	A14112A	22	N	6			A14113	25	WE3050								
	Vol. Tone		7	SRP154				A14516	13	WE3050								
930 AC	Vol. Tone		7	SRP154				B2327	1	See Note	B1			9	6C484, 7182, 80		1-21	
931 AC	Vol. Tone		7	SRP154				3	1	See Note	B11			9	6C484, 7C182B, 80		1-22	
931 DC	Vol. Tone		7	SRP154				3	1	See Note	B11			9	6C484, 7C182A		1-22	
940LX, 940SX	Vol. Tone	A15127-1	75	MK 400				A14073A	25	RS216				9	6K7G, 6J8G, 6I16G, 6F5G, 6F6G, 6U5, 5Y3G	456	11-21,22	
	Supp.	A15133	22	MK 402				A14072A	25	WE3050								
966, 966X	Vol. Tone	A11297-1	15	M	6		A77	A12215	1	2N519				10	6K7, 6A7, 6I16, 6E5, 6C5, 742, 5Z3	456	7-21,22	
968, 968X	Vol. Tone	A14075A	18	M				A14122	25	RS216				9	6K7G, 6A8G, 6Q7G, 6E5, 6C5G, 6V6G, 5Y3G	456	9-18,19	
	Supp.	A14112A	22	N	6			A14113	25	WE3050								
977	Vol. Tone	A11297-1	15	M	6		A77	A12048	1/15	3S581				10	776, 6A7, 6K7, 6I16, 6F5, 6E5, 42, 80	456	9-23	
987	Vol. Tone	A14110	77	TM227-SS1				A14122	25	RS216				9	6K7, 6A8, 6Q7G, 6Q7G, 6J7G, 6N6G, 5Y3G, 6E5G	456	8-18	
	Supp.	A14112	22	N	6			A14113	25	WE3050								
997X	Vol. Tone	A14110	83	TM227-SS1				A14122	25	RS216				9	6K7, 6A8, 6Q7G, 6J7G, 6N6G, 6E5, 5Y3G	456	8-17	
	Supp.	A14112	22	N	6			A14113	25	WE3050								
1068, 1068X, 1078, 1078X	Vol. Tone	A14075	18	MR44				A14122	25	RS216				10	6K7G, 6A8G, 6I16G, 6J7G, 6Q7G, 6E5, 6V6G, 5Y3G	456	9-19,20	
	Supp.	A14112A	22	N	6			A14113	25	WE3050								
	Vol. Tone		18	MK 401				A14516	13	WE3050								
1071PA, 1071PAD	Vol. Tone	A15130-2	18	MK 401				A15696	1/13	FPT381	B117			10	7L7, 6SA7GT, 6SK7GT, 6SQ7GT, 6P5GT, 6AC5G, 5Y3G	456	12-18, 20,22	
	Supp.	A15128-4	44	MK 400	M26													
1071RPA	Vol. Tone	A15130-2	18	MK 401				A15729	1/13	FPT444				11	7L7, 6SA7GT, 6SK7GT, 6P5G, 6SQ7GT, 7N7, 6AC5G, 5Y3G, 6U5/6C5	456	12-19, 20,22	
	Supp.	A15128-4	44	MK 400	M26													
1081	Vol. Tone	A15130-2	18	MK 401				A14684-9	1/13	FPT381				10	7L7, 6SA7GT, 6SK7GT, 6SQ7GT, 6P5G, 6F6G, 6AF6G, 5Y3G	456	12-21, 22,26	
	Supp.	A15128-4U	44	MK 400	M26													
1091	Vol. Tone	A15140	17	UM163			A96	A14684-7	3	FPT390				11	6SK7GT, 6J8G, 6K7G, 6SQ7GT, 6J5G, 6V6G, 6P5G, 6AF6G, 5Y3G	456	12-23,24	
	Supp.							A14782-6	13	BB17								
	Vol. Tone		18	M				A14782-8	14	BB60								
1089	Vol. Tone	A14075A	18	M				A14122	25	RS216				10	6K7G, 6A8G, 6I16G, 6J7G, 6Q7G, 6V6G, 6E5, 5Y3G	456	10-17	
	Supp.	A14112A	22	N	6			A14113	25	WE3050								
1116X	Vol. Tone	A12228	15	N	6		A77	A12330	1	2N519				12	6K7, 6L7, 6C5, 6I16, 6F6, 5Z3, 6E5	456	7-23,24	
	Supp.	A11334-1	22	L			A77	A11223-1	24	RM262								
	Vol. Tone	A10446	7	UC510			A77	A10377	15	BB12								
1160	Vol. Tone	A14075A	18	M				A14122A	25	RS216				11	6K7G, 6A8G, 6I16G, 6U5, 6J7G, 6Q7G, 6F6G, 5Y3G	456	11-23	
	Supp.	A14112A	22	N	6			A14113A	25	WE3035								
	Vol. Tone		15	N	6			A12330	1	2N519				12	6K7, 6L7, 6C5, 6I16, 6F6, 5Z3, 6E5	456	7-23,25	
1166, 1166XP, 1166XS	Vol. Tone	A12228	15	N	6			A11223-1	24	RM262								
	Supp.	A11334-1	22	L				A10377	15	BB12								
	Vol. Tone	A10446	7	UC510				A14073	54	RS216				11	6K7, 6A8, 6Q7G, 6C5G, 6J7G, 745, 5Y3, 6E5	456	8-14,16	
1167	Vol. Tone	A14110	83	TM227-SS1			See Note	A14138	1	RS216	B184							
	Supp.	A14137	1	†				A14139	54	RS216								
	Vol. Tone		15	N	6			A14184	54	2S568	B8							
1176, 1176XP, 1176XS, 1186, 1196	Vol. Tone	A12228	15	N	6		A77	A12330	1	2N519				12	6K7, 6L7, 6C5, 6I16, 6F6, 6E5, 5Z3	456	7-23,25	
	Supp.	A11334-1	22	L			A77	A11223-1	24	RM262								
	Vol. Tone	A10446	7	UC510			A77	A10377	15	BB12								

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference					
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note									
SPARTON—Continued																							
1268	Vol. Tone	A14533 A14532	18 1	TM243-SS1 O.	6			A14073 A14139 A14138 A14184 A15625	54 54 54 54 1	RS216 RS216 RS216 2S568 2S569							12	6K7G, 6A8G, 6H6G, 6E5, 6J7G, 6R7G, 6J5G, 745, 5Y3G	456	9-25,26			
1271	Vol. Tone	A15130-2 A15128-1U	18 44	MK 401 MK 400	M26													12	6SK7GT, 6SA7GT, 6S07GT, 6P5GT, 6AF6G, 6AC5G, 5Y3G	456			
1281	Vol. Tone	A15130-2 A15128-4U	18 44	MK 401 MK 400	M26			A14684-9	1/13	FPT381								12	7L7, 6SA7GT, 6SK7GT, 6S07GT, 6P5G, 6AF6G, 6AC5G, 5Y3G	456	12-14,22		
1288, 1288P	Vol. Tone	A14533 A14532	18 1	TM243-SS1 O.	6			A14073 A14139 A14138 A14184 A14073 A14139 A14184 A14138	54 54 54 54 54 54 54 1	RS216 RS216 RS216 2S568 RS216 RS216 WE3050 RS216								12	6K7G, 6A8G, 6H6G, 6E5, 6J7G, 6R7G, 6J5G, 745, 5Y3G	456	9-25,26		
1288LXP	Vol. Tone	A14533 A14547	18 1	TM243-SS1 O.	6		See Note A5	A14073 A14139 A14184 A14138	54 54 54 1	RS216 RS216 WE3050 RS216								12	6K7G, 6A8G, 6H6G, 6J7G, 6R7G, 6J5G, 745, 6E5, 5Y3G	456	10-19		
1291RPA	Vol.	A15141	17/15					A14684-7 A14782-6 A14782-7 A14782-2 A14782-8	3 13 15 19 14	FPT390 BB17 BB12 BB12 BB60								13	6SK7GT, 6J8G, 6K7G, 6S07GT, 6J5G, 6V6G, 6P5G, 6AF6G, 6SJ7GT, 5Y3G	456	12-25,26		
1466	Vol. Tone Sen.	A12228 A11334 A10146	15 22 7	N L UC510	6		A77	A12330 A11223	1 13	2N519 RM262									15	6K7, 6L7, 6C5, 6E5, 6I6, 6F6, 5Z3, 6A6	456	7-26	
1476	Vol. Tone Sen.	A12228 A11334 A10146	15 22 7	N L UC510	6		A77	A12330 A11223	1 13	2N519 RM262									15	6K7, 6L7, 6C5, 6E5, 6I6, 6F6, 6A6, 5Z3	456	7-26	
1567	Vol. Tone	A14110 A14137	18 22	TM227-SS1 O.			See Note A5	A12674	1/15	3S579									12	6K7G, 6A8, 6Q7G, 6E5, 6J7G, 6C5G, 745, 5Y3	456	9-27,28	
1568, 1588P	Vol. Tone	A14546 A14547	18 1	Order from O.	Mfr.		See Note A5	A14548 A14260 A14387-1 A14545-1 A14184 A14259	1 1 1 1 1 17	RS216 RS216 RS216 RS216 WE3050 RS207								15	6K7G, 6A8G, 6H6G, 6J7G, 6E5, 6R7G, 6C5G, 6J5G, 5Y3G, 2A3, 5X4G	456	10-21		
1867	Vol. Tone	A14110 A14137	18 1	TM227-SS1 O.			See Note A5	A14310 A14305 A14139 A14306 A14315 A14139 A14184 A14691	3/30 3 3 15 30 30 13 1	RS216 WE3050 RS216 BB19 RS216 RS216 WE3050 2N514								18	6K7, 6L7, 6J5G, 6K7G, 6Q7G, 6J7G, 6C5G, 6L6G, 6F6G, 6E5, 5X4G	456	10-23, 24		
5008	Vol.	A14656-1	6	K12	6			A14691	1	2N514									4	6K7G, 6J7G, 25L6G, 25Z6G, BK55BJ		10-27	
5018	Vol.	A14656	6	K12	6			A14691	1	2N514									4	6K7G, 6J7G, 25L6G, 25Z6G, BK55BJ		10-28	
5028	Vol.	A14656-1	2	K12	6			A14907	1/15	3N534									4	6A7, 77, 25L6G, 25Z5, BK44BJ	456	10-33	
5218	Vol. Tone	A14779 A14778	18 22	N M	6			A14780	1/15	2N519/BB24									5	6A7, 78, 75, 42, 80	456	10-29	
5518, 5118A, 5518AX	Vol. Tone	A14725 A14779 A14778	18 18 22	N N M	6			A14715 A14799	1/15 1	3S579 2N519									5	6A7, 78, 75, 42, 80, 6A7, 78, 75, 6AC5G, 70, 80	456	10-31	
6218	Vol. Tone	A14779 A14778	18 22	N M	6			A14799	1	2N519									7	6A7, 78, 75, 6AC5G, 76, 6E5, 80	456	10-31	
7618	Vol. Tone	A14778	22	M	6			A14829-D7 A14829-E7	25 25	FPS144 FPS146									9	6K7G, 6J5G, 6J8G, 6H6G, 6Q7G, 6V6G, 6E5, 5Y3G	456	10-35	
8618	Vol. Tone	A14216A A14217A	18 22	N O	6																		
SPENCER (See Truevalue)																							
SPIEGEL																							
A2000	Vol. Tone	A15130-3 A15128-2	18 22	MK 401 MK 400	M26			A14780-1	46	2N519/BB63									8	6SK7GT, 6SA7GT, 6S07GT, 6P5GT, 6K6GT, 6AF6G, 5Y3G	456	12-12	
A2002	Vol.	N1595	18	UM154-SS1B	M26			N1366	24	2N514									5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-1	
A2006	Vol.	P3746	18	MK 401	M26			P3792	46	TN129									5	12A8, 12SK7, 12SQ7, 50L6, 35Z5	455	12-15,16	
A2012	Vol.	11389	18	MK 401	M26			11493	24	FPD214									5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-17,18	
A2026 (Ch. 10-70)	Vol.	24-146	18	UM154	M26		A96	18-255	1	2N514									6	6SA7GT, 6SK7GT, 6S07GT, 25L6GT, 6P5GT, 25Z6GT	455	12-11, 24,29	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued A2052	Vol. Tone	A15130-3 A15128-3	45 44	MK401 MK400	M26			A14799-2	1	2N519				10	6SA7GT, 6SK7GT, 6P5GT, 6K6GT, 6U5, 6SF5GT, 5Y3G	456	12-19	
A2056	Vol.	4839	18	MK401	M26			10625	4	BB61				6	6SA7, 6SK7, 6SQ7, 6F6G, 5Y4G, 6I15	455	12-20	
A2060	Vol. Tone	A15130-3 A15128-3	45 44	MK401 MK400	M26			A14799-2	1	2N519				10	6SA7GT, 6SK7GT, 6P5GT, 6K6GT, 6U5, 6SF5GT, 5Y3G	456	12-19	
A2062	Vol. Tone	A15130-3 A15128-3	45 44	MK401 MK400	M26			A14799-2	1	2N519				10	6SA7GT, 6SK7GT, 6P5GT, 6K6GT, 6U5, 6SF5GT, 5Y3G	456	12-19	
A2080	Vol. Tone	P3335 P3337	18 22	MK401 MK401	M26			10-10	1	FPD231	B117			7	6A7, 6D6, 75, 41, 76, 80	455	12-21,22	
A2100	Vol. Tone	A15130-3 A15138	18 57	MK401 MK403	M27			A14958	12	BB21				6	1A7G, 1E4G, 1N5G, 1I15G, 1A5G	456	12-25	
A2108	Vol.	A15132-1	18	UM154	M27	A96		A14958	12	BB21				5	1A7G, 1N5G, 1I15G, 1A5G	456	12-26	
A2112	Vol.	A15132-1	18	UM154	M27	A96		A14958	12	BB21				5	1A7G, 1N5G, 1I15G, 1A5G	456	12-26	
A2116	Vol.	A15132-1	18	UM154	M27	A96		A14958	12	BB21				5	1A7G, 1N5G, 1I15G, 1A5G	456	12-26	
A2120	Vol.		18	MR48				CE58	12	BB20				3	1A7GT, 1N5GT, 1D8GT	455	12-27	
A2122 (Ch. KD)	Vol.	N2623	18	UM161-SS18				N2627	46/78	FPQ407				6	1A7GT, 1N5GT, 1I15GT, 1A5GT, 50L6GT, 35Z5GT	456	12-28	
A2125	Vol.	Y-VC-41	18			See Note A5		Y-CE-47 Y-CE-57	24 24	2N504 BB19/HC5001				5	1A7GT, 1N5GT, 1I15GT, 1T5GT, 25Z6GT	455	12-29	
A2130	Vol.	N2623	18	UM161-SS18				N2748	24/12	FPT304	B128			5	1A7GT, 1N5GT, 1I15GT, 1A5GT, 35Z5GT	456	12-30	
A2132	Vol.	P3961	18	UM161-SS18	M27			P3971	46/78	FPQ409				5	1A7, 1N5, 1I15, 3Q5, 117Z6	455	12-15,16	
A2150	Vol. Tone	A15130-3 A15138	18 57	MK401 MK403	M27			A14958	12	BB21				6	1A7G, 1E4G, 1N5G, 1I15G, 1A5G	456	12-25	
A2154	Vol.	11132	18	MK401	M27			1693	19	BB12				4	1A7G, 1N5G, 1I15G, 1A5G	455	12-31,32	
A2200	Vol. Tone	A15130-3 A15128-2	45 22	MK401 MK400	M26			A14684-6 .01	46 24	FPT354 Buffer	B14	A15301	245A	C3	7A8, 7B7, 7C7, 7C6, 6G6G	456	12-33	
A2204 (Ch. 119B)	Vol.	4839	18	MK401	M26			4841 1693 .03	24 15	2N509 BB12 Buffer		3698	245A	C3	6D8G, 6S7, 6T7G, 6G6G	455	12-35,36	
A2250	Vol. Tone	A15130-3 A15128-2	45 22	MK401 MK400	M26			A14684-6 .01	46	FPT354 Buffer	B14	A15301	245A	C3	7A8, 7B7, 7C7, 7C6, 6G6G	456	12-33	
A2454	Vol.	17-16422	18	MR53	M26			17-14297 .005	24/15	FPT332 Buffer	B14	17-14747	850	C3	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	455	12-34	
A2456	Vol.	17-16422	18	MR53	M26			17-14297 .005	24/15	FPT332 Buffer	B14	17-14747	850	C3	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	455	12-34	
A2462	Vol.	17-14536	18	UM157-SS12				17-14297 .005	24/15	FPT332 Buffer	B14	17-14747	850	C3	6A8, 6K7, 6Q7G, 6K6G, 6X5G	455	12-40	
AP2004, AP2005	Vol.	17-14320	8	MR20	M26	EX2M		17-14319	1/15	FPT354				3	25B8GT, 50L6GT, 35Z5GT		12-40	
T2054	Vol. Tone	2726 2737	106 106	MR48 MR55	M26			3375 3351	23 23	RS216 WE825				8	6A7, 6D6, 75, 76, 42, 80, 6G5	456	12-13,14	
V1032	Vol.	221	18	MR48	M26			1732	1/15	FPT316				5	6A7, 6D6, 6Q7, 41, 80	465	12-3	
V1148	Vol.	24-119	18	UM154	M26		A96	18-240 004	4	FPD227 Buffer	B117 B14	34-102	850	C3	6A7, 6D6, 6R7, 76, 41, 6Z4/84	456	12-7,8	
W102	Vol. Tone	N1320 N1321	18 1	MR53 Order from Mfr.	M26			N1312	1	FPD217	B128			5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G	456	12-1	
W130	Vol.	V23	6	UM129-SS18	M26	EX200		C233	46	TN122				4	6K7GT, 6T7GT, 25L6GT, 25Z6GT		12-2	
W132	Vol.	221	18	MR48	M26			1732	1/15	FPT316				5	6A7, 6D6, 6Q7, 41, 80	465	12-3	
W134	Vol.	N1738	18	MK401	M27			N1367	12	BB21				4	1A7G, 1N5G, 1I15G, 1C5G	456	12-4	
W216	Vol.	N1320	18	MR53	M26			N1468 .01-.01	46	FPT360 Buffer	B14	N1475	246	C3	6A8G, 6K7, 6Q7G, 6G6G	456	12-5	
W300	Vol. Tone	N1373 N1454	18 22	MR48 Order from Mfr.	M27			N1367	12	BB21				5	1A7G, 1N5G, 1I15G, 1A5G	456	12-6	
W312	Vol. Tone	N1373 N1454	18 22	MR48 Order from Mfr.	M27			N1367	12	BB21				5	1A7G, 1N5G, 1I15G, 1A5G	456	12-6	
W320	Vol.	5-62	18	MR48				10	19	BB12				4	1A7G, 1N5G, 1I15G, 1Q5G	456	12-9	
W330	Vol.	5-62	18	MR48				10	19	BB12				4	1A7G, 1N5G, 1I15G, 1Q5G	456	12-9	
W400	Vol.	24-119	18	UM154	M26		A96	18-240 .004	4	FPD227 Buffer	B117 B14			6	6A7, 6D6, 6R7, 76, 41, 6Z4/84	456	12-7,8	

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued W408	Vol.	N1238	18	Order from	Mfr.			N1369	24/15	TN136		N1236	264	C3	4	6A8GT, 6K7GT, 6Q7GT, 6K6GT	456	12-10
Z5P7026	Vol.	24-146	45	UM154	M26		A96	.008-.008 18-255	1	Buffer 2N514	B14				6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 25L6GT, 25Z6GT	455	11-1
Z5P7112	Vol.	24-148	18	UM161	M27		A96	18-250	12	BB20					5	1A7GT, 1N5GT, 1H5GT, 1A5GT	455	11-1
Z7006	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT	456	12-1
Z7008-9 (Ch. P)	Vol.	V23	6	UM129-SS18	M26	EX200		C233	46	TN122					4	6K7GT, 6J7GT, 25L6GT, 25Z6GT		12-2
Z7008-9 (Late) (Ch. TP)	Vol.	N1537	6	UM129-SS18	M26	EX200		N1850	24/15	3N532					4	12K7GT, 12J7GT, 50L6GT, 35Z5GT		12-2
Z7080	Vol. Tone	P3335 P3337	18 22	MK401	M26			10, 10	1	F1D231	B117				7	6A7, 6D6, 75, 41, 76, 80	455	12-21,22
Z7108 (Early)	Vol.	4803	18	MK401	M23			1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-38
Z7108	Vol.	11132	18	MK401	M27			1693	19	BB12					4	1A7G, 1N5G, 1H5G, 1A5G	455	12-31,32
Z7116	Vol. Tone	10441 11098	45 22	MK401	M27	Order from	Mfr.	1693	19	BB12					6	1A7G, 1N5G, 1A5G, 1H5G	455	12-39
Z7124	Vol.	N1738	18	MK401	M27			N1367	12	BB21					4	1A7G, 1N5G, 1H5G, 1C5G	456	12-4
Z7126	Vol.	P3560	18	UM161-SS22	M27			P3563 P3562	1 15/12	2N514 BB17					5	1A7GT, 1N5GT, 1H5GT, 3Q5GT, 70L7GT	455	12-37
Z7208	Vol.	4839	18	MK401	M26			4841 1693	24 15	2N509 BB12		3698	245A	C3	1	6D8G, 6S7, 6T7G, 6C6G	455	12-35,36
Z7460	Vol.	17-16422	18	MR53	M26			.03 17-14297 .005	24/15	Buffer F1P332 Buffer	B14 B14	17-14747	850	C3	5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	455	12-34
Z7462	Vol.	17-16422	18	MR53	M26			17-14297 .005	24/15	F1P332 Buffer	B14	17-14747	850	C3	5	6A8GT, 6K7GT, 6Q7GT, 6K6GT, 6X5GT	455	12-34
100	Vol.	P630	18	N	6			P160	1	2N518					5	6A7, 6D6, 75, 42, 80	456	9-1
102, 104, 112, 114, 124 (Ch. Z4)	Vol. Tone	P680 P682	45 34	SRP275	7			P391 .01-.01	1	2N516 Buffer	B14	P402	245C	C3	6	1C6, 34, 30, 32, 19	456	10-5
120	Vol. Tone	P660 P661	75 34	N	6			P474 P160 P304	32 32 15	WE450 2N518 BB12					7	6L7, 6K7, 6H6, 6F5, 6F6, 6C5, 5Z4	456	9-3
128B	Vol. Tone	4803 4862	45 22	MK401	M23			1693	19	BB12					5	1C7G, 1D5GP, 1H4G, 1E5GP, 1G5G	455	11-3
130	Vol. Tone	P660 P661	18 44	UM133-SS25	6			P474 P160	32 32	WE450 2N518					8	6L7, 6K7, 6Q7, 6C5, 6F6, 5Z4	456	9-5
132	Vol.	6221	18	MR48	M26			8812	27	2P546					5	6A7, 6D6, 75, 43, 25Z5	465	9-6,8
134	Vol. Tone	P660 P661	18 44	N	6			P474 P160 P304	32 32 15	WE450 2N518 BB12					8	6L7, 6K7, 6Q7, 6C5, 6F6, 5Z4	456	9-5
134 (Ch. 46A)	Vol. Tone	2198 2199	18 44	UM154-SS16	6			1477 1476	25 25	RS215 RS216					8	6A7, 6K7, 75, 6C5, 6F6, 6G5, 80	465	10-1,2
140	Vol. Tone	P660 P661	75 34	N	6			P474 P160	32 32	WE450 2N518					7	6L7, 6K7, 6H6, 6F5, 6F6, 6C5, 5Z4	456	9-3
142	Vol. Tone		18 22	MR48	M27			P304	15	BB12					6	1C6, 34, 1B5, 30, 19	456	11-5
144	Vol. Tone	P691 P682	45 1	MR33	7			P391 .01-.01	1	2N516 Buffer	B14	P402	245C	C3	7	1C6, 34, 30, 19	456	9-6
146	Vol. Tone	P660 P661	18 44	N	6			P474 P160 P304	32 32 15	WE450 2N518 BB12					8	6L7, 6K7, 6Q7, 6C5, 6F6, 5Z4	456	9-5
150	Vol.	2239	18	MR48	7			P391	1	2N516		P402	245C	C3	4	1C6, 34, 1B5, 33	465	9-11
152	Vol. Tone	P691 P682	45 1	SRP275	7			.01-.01	1	Buffer	B14				7	1C6, 34, 30, 19	456	9-6
154	Vol. Tone		18 22	MR48	M27										6	1C6, 34, 1B5, 30, 19	456	11-5
160 (Ch. 603 1936)	Vol. Tone		17 22	MR33	6			8, 8	4	RS213					6	6D6, 76, 75, 42, 80	456	10-3
167	Vol. Tone	P691 P692	45 44	SRP275	7			P958 .01-.01	1	2N518 Buffer	B14	P402	245C	C3	6	1C6, 34, 30, 32, 19	456	9-9
169 (Ch. HI)	Vol. Tone		18 22	UC512				8-8 12	1 15	2N518 BB12	B14	249	C3	6	6D6, 6L7, 75, 76, 42	465	10-6	
172 (Ch. Z4)	Vol. Tone	P680 P682	45 34	SRP275	7			.005 P391 .01-.01	1	Buffer 2N516	B14	P402	245C	C3	6	1C6, 34, 30, 32, 19	456	10-5
178	Vol. Tone	P691 P682	45 1	SRP275	7			P391 .01-.01	1	2N516 Buffer	B14	P402	245C	C3	7	1C6, 34, 30, 19	456	9-6

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
178 (Ch. M5 1936)	Vol. Tone	P1142 P1058	18 22	MR48 MR53	M27			8-8 .01-.01	1	2N516 Buffer	B14	P402	245C	C3	7	1C6, 34, 30, 19	456	10-7
180, 184 (Ch. 603 1936)	Vol. Tone		17 22	N	6			8, 8	4	RS213					6	6D6, 76, 75, 42, 80	456	10-3
182, 183	Vol. Tone	P691	45	SRP275	7			P958	1	2N518 Buffer	B14	P402	245C	C3	6	1C6, 34, 30, 32, 19	456	9-9
184 (Ch. 603 1936)	Vol. Tone	P962	44	L				.01-.01		RS213					6	6D6, 76, 75, 42, 80	456	10-3
186	Vol. Tone	P801 P828	17 22	UC514 MR39	6			P795 G864 .0075	4 15	CM172 BB12 Buffer	B14	P816	294	C3	6	6D6, 6A7, 6K7, 75, 6F6, 84	175	9-10
188	Vol. Tone	2239	18	MR48											4	1C6, 34, 1B5, 33	465	9-11
190	Vol. Tone	P660 P661	18 44	N	6			P474 P160 P304	32 32 15	WE450 2N518 BB12					8	6I7, 6K7, 6Q7, 6C5, 6F6, 5Z4	456	9-5
297	Vol. Tone	6687	18	MR48	M26			6714 .005	24	2N518 Buffer	B14	6735	248	C3	4	6K8GT, 6K7GT, 6SQ7GT, 6K6GT	455	
1002, 1003 (Ch. 219)	Vol. Tone	19-2007	18	MR48	M26			1732	1/15	FPT316					5	6A7, 6D6, 6Q7, 41, 80	465	10-8
1008, 1009	Vol. Tone		18	MR48	M26			18-208	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5Z4	456	11-6
1010, 1011 (Ch. 216)	Vol. Tone	221	18	MR48	M26			20-12-12	46	TN125					5	6A8, 6K7, 6Q7, 25L6, 25Z6	456	10-9
1052, 1053 (Ch. 218)	Vol. Tone	221 305	45 44	MR48	M26			1729	1	2S568 BB12					11	6A7, 6D6, 76, 343, 6U5, 25Z5	465	10-10
1100 to 1103 inc. (Ch. 202)	Vol. Tone	221 305	45 34	MR48	M26		See Note	1732	1/15	FPT316 Buffer	B14	1506	See Note	C8	7	6A8, 6S7, 6L5, 1J6, 6AB5	465	10-11
1104 to 1107 inc. (Ch. 220)	Vol. Tone	221 305	18 44	MR48	M26		See Note	15-15-40	1/15	FPT316 Buffer	B14		See Note	C8	8	6D6, 6S7, 6T7, 6AB5, 6L5, 333, 1114	465	10-12
1108 to 1111 inc. (Ch. 211)	Vol. Tone	221 305	18 34	MR48	M26		See Note	1732	1/15	FPT316 Buffer	B14	1505	294	C3	5	6A8, 6S7, 6T7, 41, 6ZY5	465	10-13
1142, V1142, 1143	Vol. Tone	221 305	17 22	MR55			See Note	8-6 10	4 15	2S567 BB12 Buffer	B14	294	C3	6	6D6, 6A7, 6Q7, 41, 0Z4	262	12-11	
1150 to 1153 inc. (Ch. 212)	Vol. Tone	221 305	45 34	MR48	M26		See Note	1732	1/15	FPT316 Buffer	B14		See Note	C8	7	6A8, 6S7, 6L5, 1J6, 3AB5	465	10-11
1154 to 1157 inc. (Ch. 220)	Vol. Tone	221 305	18 44	MR48	M26		See Note	15-15-40	1/15	FPT316 Buffer	B14		See Note	C8	8	6D6, 6S7, 6T7, 6AB5, 6L5, 333, 1114	465	10-12
1204, 1205, 1206, 1207	Vol. Tone	2239	17	MR48											4	1C6, 34, 1F6, 33, 5E1	465	11-7
1901 (Ch. X6, BA41)	Vol. Tone		45	MR48				8-8 .01-.01	1	2N516 Buffer	B14	P402	245C	C3	6	1C6, 34, 30, 32, 33	456	10-14
1902	Vol. Tone		75				A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5, 80, 6F6	456	11-9
1903 (Ch. 14A)	Vol. Tone	2220 1732	18/7 44	DRP314 M	6			1477 1476 1693	1 1 15	RS215 RS216 BB12					9	6D6, 76, 75, 341, 80	465	10-15
1904	Vol. Tone		75 44	SRP275 L	6			1 8-4 5 2289	32 32 15 12	WE450 2N518 BB12 BB31					7	6A7, 6D6, 76, 6A6, 342, 80	456	11-8
1906 (Ch. 39B)	Vol. Tone	2198 2331	18 22	MR48 MR33	M24										6	1C6, 34, 30, 19	465	10-22
1907 (Ch. X6, BA41)	Vol. Tone		45	MR48				8-8 .01-.01	1	2N516 Buffer	B14	P402	245C	C3	6	1C6, 34, 30, 32, 33	456	10-14
1910	Vol. Tone	2239	18	MR48				8-8 .01-.01	1	2N516 Buffer	B14	P402	245C	C3	4	1C6, 34, 1B5, 33	465	9-11
1911 (Ch. X6, BA41)	Vol. Tone		45	MR48				8-8 .01-.01	1	2N516 Buffer	B14	P402	245C	C3	6	1C6, 34, 30, 32, 33	456	10-14
1916	Vol. Tone		75 44	SRP275 L	6			4 8-4 5	32 32 15	WE450 2N518 BB12					7	6A7, 6D6, 76, 342, 6A6, 80	456	11-8
1917	Vol. Tone		75				A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5, 80, 6F6	456	11-9
1921 (Ch. X6, BA41)	Vol. Tone		45	MR48				8-8 .01-.01	1	2N516 Buffer	B14	P402	245C	C3	6	1C6, 34, 30, 32, 33	456	10-14
1926	Vol. Tone		75				A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5, 80, 6F6	456	11-9
1932 (Ch. X6, BA41)	Vol. Tone		45	MR48				8-8 .01-.01	1	2N516 Buffer	B14	P402	245C	C3	6	1C6, 34, 30, 32, 33	456	10-14
1936	Vol. Tone		75				A5	8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5, 80, 6F6	456	11-9
1952	Vol. Tone		75 44	SRP275 L	6			4 8-4	32 32	WE450 2N518					7	6A7, 6D6, 6A6, 76, 342, 80	456	11-8
1954 (Ch. 39B)	Vol. Tone	2198 2331	18 22	MR48 MR33	M24			5 2289	15 12	BB12 BB31					6	1C6, 34, 30, 19	465	10-22

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued 1955, 1957 (Ch. X6, BA44)	Vol.		15	MR48				8-8, .01-.01	1	2N516 Buffer	B11	P102	245C	C3	6	1C6, 34, 30, 32, 33	456	10-14
1959	Vol.		75	↓				8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5, 80, 6F6	456	11-9
1960 (Ch. 11A)	Vol. Tone	2220, 1732	18 7 44	DRP314 M	6			1477, 1476, 1693	1 1 15	RS215 RS216 BB12					9	6D6, 76, 341, 75, 80	465	10-15
1961 (Ch. X6, BA44)	Vol.		15	MR48				8-8, .01-.01	1	2N516 Buffer	B14	P102	245C	C3	6	1C6, 34, 30, 32, 33	456	10-14
1965	Vol. Tone		75 44	SRP275 L	6			4, 8-4, 5, 8-4	32 32 15 1	WE450 2N518 BB12 2N518					7	6A7, 6D6, 76, 6A6, 342, 80	456	11-8
1971	Vol.		75	↓				8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5, 80, 6F6	456	11-9
1980	Vol.		75	↓				8-4	1	2N518					6	6A7, 6D6, 6H6, 6F5, 80, 6F6	456	11-9
1981 (Ch. X6, BA44)	Vol.		45	MR48				8-8, .01-.01	1	2N516 Buffer	B11	P402	245C	C3	6	1C6, 34, 30, 32, 33	456	10-14
2000, 2001 (Ch. 40)	Vol. Tone	221 305	18 34	MR48	M26			8-8, .01-.01	1	2N516 Buffer	B11				6	6A7, 6D6, 6Q7, 41, 6U5, 80	465	10-17
2000, 2001 (6W)	Vol. Tone	P1579 P1642	18 22	N	6			P1591	23	2S567					6	6A7, 6D6, 75, 6H5, 41, 80	456	9-12
2004, T2001, 2005	Vol. Tone	2726 2737	18 17	MR48 MR55	M26			3375, 3351	23 23	RS216 WE825					8	6A7, 6D6, 75, 76, 342, 80, 6G5	456	12-13, 14
2006, 2007 (Ch. FT) 2006, 2007 (Ch. IS6A)	Vol. Tone	P2136 P2137	18 34	Order from L	Mfr. 7			P2140 .015	1/15	3S579 Buffer	B14	P1414	850	C3	6	6D8G, 6S7G, 6T7G, 6C6G, 6L5G, 6ZY3G	456	11-10
2008, 2009 (Ch. 10)	Vol. Tone	221 305	18 34	↓				1703	23	2S567					6	6A7, 6D6, 6Q7, 41, 6U5, 80	465	10-17
2012, 2013	Vol.	19-2007	18	MR48	M26			18-208	1	2N518					5	6A8, 6K7, 6Q7, 6F6, 5Z1	456	11-6
2014, 2015, 2016	Vol.	P2392	18	MR53	M26			P2397	23	2S567	B33				5	6A7, 6D6, 75, 41, 5Y3G	456	11-11
2018, 2019 (Ch. 40)	Vol. Tone	221 305	18 34	↓				1703	23	2S567					6	6A7, 6D6, 6Q7, 41, 6U5, 80	465	10-17
2050, 2051 (Ch. 40)	Vol. Tone	221 305	18 34	↓				1703	23	2S567					6	6A7, 6D6, 6Q7, 41, 6U5, 80	465	10-17
2050, 2051 (6W)	Vol. Tone	P1579 P1612	18 22	N L	6			P1591	23	2S567					6	6A7, 6D6, 75, 6H5, 41, 80	456	9-12
2056, 2057	Vol. Tone	24-105 26-106	18 21	MR48 MR48	M26			18-102	1/15	3S579					6	6A7, 6D6, 75, 41, 6G5, 80	456	11-12
2058, 2059 (1938)	Vol. Tone	P1916 P1917	110 140	TM240-SS1 UM160-SS1	M26			P1937 P1939	1 1/13	WE3050 2N518					11	6A8, 6K7, 6J7, 6J5, 6F6, 5Z3	456	9-13
2060, 2061 (Ch. 16R)	Vol. Tone Buss	P1989 P1990 P1991	1 34 15	Order from M N	Mfr.			P1993 P1994 P1997 P1992	30 30 13/14 30	WE3050 WE1250 2N518 WE4030					16	6K7G, 6L7G, 6H6G, 6J5G, 6L6G, 5Z3, 6J7G	456	10-19, 20
2064, 2065 (Ch. 745, 1937)	Vol. Tone	24-105 26-106	18 21	MR48 MR48	M26			18-213	23	2S567					7	76, 6A7, 6D6, 75, 41, 6C5, 80	456	10-23
2066, 67, 68 (Ch. 43)	Vol. Tone	221 305	15 44	MR48	M26			1729	1	2S568					11	6A7, 6D6, 76, 343, 6U5, 25Z5	465	10-10
2070, 71 (Ch. 1105)	Vol. Tone	24-115 26-112	118 44	↓				18-214 18-215	1 1	RS216 RS215					11	6C5G, 6A8G, 6K7G, 6H6G, 6J7G	456	10-24
2080, 2081	Vol. Tone	2726 2737	76 76	MR48 MR55	M26			18-216	13	BB31					8	6V6G, 80, 6G5, 6A7, 6D6, 75, 76, 342, 80, 6G5	456	9-16
2082, T2082, 2083	Vol. Tone	2726 2737	18 147	MR48 MR55	M26			3375, 3351	23 23	RS216 WE825					8	6A7, 6D6, 75, 342, 80, 6G5, 76	456	12-13, 14
2100 to 2103 inc. (Ch. 109B)	Vol. Tone	3671 4486	15 22	MR48 K12	14										5	1C6, 1A4, 30, 1B4, 1G5G, 4-1	465	10-25
2104 to 2107 inc. (Ch. 1095B)	Vol. Tone	3761 2331	17 44	UM154-SS16 K12	14			3150, 1693	12 15	RS216 BB12					6	1C6, 34, 1F6, 30	465	12-23, 24
2108 to 2111 (Ch. 1090B)	Vol.	2239	17	MR48											4	1C6, 34, 1F6, 33, 5F1	465	10-27
2112, 2113 (Ch. 90B)	Vol.	2239	17	MR48											4	1C6, 34, 1F6, 33, 5F1	465	10-27
2120, 2121 (Ch. 90B)	Vol.	2239	17	MR48											4	1C6, 34, 1F6, 33, 5F1	465	10-27
2122 (Ch. KD)	Vol.	N2623	18	UM161				N2748	46	FPT304	B128				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z5GT	456	12-30
2150 to 2153 inc. (Ch. 109B)	Vol. Tone	3671 4486	15 22	MR48 K12	14										5	1C6, 1A4, 30, 1B4, 1G5G, 4-1	465	10-25
2154, 2155 (1938)	Vol. Tone	P1579 P1612	62 22	N L	6			10	19	BB12					5	1A6, 1A4, 30, 1G5G, 1B1	456	9-15

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note					
SPIEGEL—Continued																			
2200 to 2203 inc. (Ch. X23)	Vol. Tone	215	45 34	MR48				1720	1	2N518			See Note	C8	6	6D8, 6S7, 6L5, 1J6	465	10-31	
2204 to 2207 inc. (Ch. 23E)	Vol. Tone	215	45 34	MR48				1720	1	2N518			See Note	C8	7	6D8, 6S7, 6L5, 1J6, 6AB5	465	10-31	
2208, 2209, 2210, 2211	Vol.	3418	18	N	7			4459	24	2N512			245	C3	4	6D8G, 6S7G, 6T7G, 1G5G	456	12-27	
2212, 2213, 2214, 2215	Vol. Tone	3418 3571	18 147	N P	7			3575 3574	1 13	CS133 2N519		3421	245	C3	7	6D8G, 6S7G, 6T7G, 33, 114G, 6L5G	456	9-18	
2220, 2221 (Ch. X23)	Vol. Tone	215	45 34	MR48				1720	1	2N518			See Note	C8	6	6D8, 6S7, 6L5, 1J6	465	10-31	
2222, 2223, 2224, 2225 (Ch. 25)	Vol. Tone	221 305	45 34	MR48	M26			1720	1/15	3S579		480	245	C3	6	6A8, 6S7, 6L5, 41	465	11-16	
2222 to 2229 inc. (Ch. 73B)	Vol. Tone	3671 3545	15 22	MR48 K12				3060 1693	1 15	2N518 BB12			3698	245A	C3	5	6D8G, 6L5G, 6S7G, 41	465	10-29
2230 to 2233 inc. (Ch. X23)	Vol. Tone	215	45 34	MR48				1720	1	2N518			See Note	C8	6	6D8, 6S7, 6L5, 1J6	465	10-31	
2254, 2255, 2256, 2257	Vol. Tone	3418 3571	18 147	N P	7			3575 3574	1 13	CS133 2N519		3421	245	C3	7	6D8G, 6S7G, 33, 114G, 6L5G, 6T7G	456	9-18	
2280, 2281	Vol. Tone	3418 3571	18 147	N P	7			3575 3574	1 13	CS133 2N519		3421	245	C3	7	6D8G, 6S7G, 6T7G, 33, 114G, 6L5G	456	9-18	
2300, 2301, T2300	Vol. Tone		17 34	MR55				8-6 10	4 15	2S567 BB12			294	C3	6	6D6, 6A7, 6Q7, 41, 0Z4	262	12-11	
2302, 2303 (Ch. 78-780)	Vol. Tone	P1371 P1388	45 22	UM154-SS3	M26			P1293	23	2S567		P1414	850	C3	7	6D6, 6A7, 6K7, 6H6, 6V6G, 84, 6C5	175	10-32	
4000	Vol. Tone	2775 3545	15 22	MR48 MR33	M26			3718	1	2N518					7	6A7, 6D6, 76, 75, 41, 6G5, 80	465	11-17	
4002 (Ch. 1072AF)	Vol. Tone	2775 3545	15 22	MR48 K12	M26			3041	1	2N518					6	6A7, 6D6, 75, 41, 6G5, 80	465	10-33	
4004 (Ch. 871)	Vol. Tone	24-105 26-106	18 21	MR48 MR48	M26			18-202 18-201	1 1	RS215 RS215					8	6A7, 6D6, 75, 76, 342, 6H5, 80	456	10-35	
4006 (Ch. 12AC)	Vol. Tone	215 304A	45 22	MR48				18	13	WE2050 BB61					12	6K7, 6A8, 6H6, 6G5, 6C5, 6F6, 3Y3	465	10-36	
4010 (Ch. 11X)	Vol. Tone	215 304A	45 22	MR48				20-20	4	2P549					8	6A7, 6D6, 76, 6G5, 25L6, 25Z5, L10C	456	10-37	
4014 (Ch. 745 1937)	Vol. Tone	24-105 26-106	18 21	MR48 MR48	M26			18-213	23	2S567					7	76, 6A7, 6D6, 75, 41, 6G5, 80	456	10-23	
4020	Vol. Tone	2775 3545	15 22	MR48 MR33	M27			3718	1	2N518					7	6A7, 6D6, 75, 76, 41, 6G5, 80	465	11-17	
4040	Vol. Tone	P2136 P2137	18 34	Order from L	Mfr.			P2140	1/15	3S579 Buffer		P1414	850	C3	6	6D8G, 6S7G, 6T7G, 6Z6G, 6L5G, 6ZY5G	456	11-10	
4050 (Ch. 1072AF)	Vol. Tone	2775 3545	15 22	MR48 MR33	M26			3041	1	2N518					6	6A7, 6D6, 75, 41, 6G5, 80	465	10-33	
4052 (Ch. 871)	Vol. Tone	24-105 26-106	18 21	MR48 MR48	M26			18-202 18-201	1 1	RS215 RS215					8	6A7, 6D6, 75, 76, 342, 6H5, 80	456	10-35	
4054 (1937)	Vol. Tone	P1916 P1917	140 140	TM240-SS1 UM160-SS1	M26			P1937	1	WE3050					11	6A8, 6K7, 6J7, 6J5, 6F6, 5Z3	456	9-13	
4056 (Ch. 16R)	Vol. Tone Bass	P1989 P1990 P1991	34 34 15	Order from M N	Mfr.			P1939 P1993 P1994 P1997	1/13 30 30 13/14	2N518 WE3050 WE1250 2N518					16	6K7G, 6L7G, 6H6G, 6J5G, 6L6G, 6J7G, 3Z3	456	10-19,20	
4064, 4066 (Ch. 745 1937)	Vol. Tone	24-105 26-106	18 21	MR48 MR48	M26			18-213	23	2S567					7	6A7, 76, 6D6, 75, 41, 6G5, 80	456	10-23	
4068 (Ch. 885)	Vol. Tone	24-113 26-110	118 39					18-202 18-201	1 1	RS215 RS215					8	6A7, 6D6, 6H6G, 80, 6Y7G, 6V6G, 6G5	456	10-38	
4070 (Ch. 12AC)	Vol.		15					12	1	RS215					12	6K7, 6A8, 6H6, 6G5, 6C5, 6F6, 3Y3	465	10-36	
4074 (Ch. 161I)	Vol. Tone Bass	P1989 P1990 P1991	34 34 15	Order from M N	Mfr.			P1993 P1992 P1994 P1997	30 30 30 13/14	WE3050 WE4030 WE1250 2N518					16	6K7G, 6L7G, 6H6G, 6J5G, 6L6G, 6J7G, 3Z3	456	10-19,20	
4076 (Ch. 1105)	Vol. Tone	24-115 26-112	148 44					18-214 18-215 18-216	1 1 13	RS216 RS215 BB31					11	6C5G, 6A8G, 6K7G, 6H6G, 6J7G, 6V6G, 80, 6G5	456	10-24	

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued 4210 (Ch. 66, 660)	Vol. Tone	P801 P828	17 22	1M163-SS3 MR39	M26			P1293 P1312 .0075	4 15 1	2S567 BB11 Buffer	B33 B14	P1414	850	C3	6	2D6, 6A7, 75, 41, 84	175	10-39
4212 (Ch. 88, 880)	Vol. Tone	P1408 P1388	17 22	UM161-SS12 Order from Mfr.	M26			6-8 5 .0075	1 15 4	2N518 BB11 Buffer	B14		294	C3	8	6D6, 6A7, 6K7, 6C5, 6R7, 6V6G, 0Z4	175	10-40
4215	Vol. Tone		17 22	MR55			See Note A3	8-6 10 .008	4 15 1	2S567 BB12 Buffer	B14		294	C3	6	2D6, 6A7, 6Q7, 41, 0Z4	262	12-11
4400	Vol. Tone	P1677 P1764	18 31	N L	7			P958 .01-.01	1	2N518 Buffer	B14	P402	245C	C3	7	6K8G, 6S7G, 6AB5, 6T7G, 330, 19	456	9-19
4402	Vol. Tone	24-105 26-107	18 21	MR48 MR53	M27			1845 .01-.01	1	2N516 Buffer	B14	3407	246	C3	5	1C6, 1A4, 6T7G, 41, 6N5	456	11-19
4404	Vol. Tone	P1677 P1764	18 44	N L	7			P958 .01-.01	1	2N518 Buffer	B14	P402	245C	C3	6	6D6G, 6S7G, 6T7G, 330, 19	456	9-21
4410	Vol. Tone	24-105 26-107	18 22	MR48 MR53	M27			1845 .01-.01	1	2N518 Buffer	B14	3407	246	C3	5	1C6, 1A4, 6T7G, 41, 6N5	456	11-19
4420	Vol. Tone	P1677 P1764	18 34	N L	7			P958 .01-.01	1	2N518 Buffer	B14	P402	245C	C3	7	6K8G, 6S7G, 6AB5, 6T7G, 330, 19	456	9-19
4452	Vol. Tone	P1677 P1764	18 44	N L	7			P958 .01-.01	1	2N518 Buffer	B14	P402	245C	C3	6	6D6G, 6S7G, 6T7G, 330, 19	456	9-21
4500 (4536)	Vol.	1262	6	SRP263	6	EX200		1258 1260	25 25	RS213 RS213					4	78, 77, 42, 80 or 6D6, 6C6, 42, 80		9-20
4500, 4502, 4504 (6Q)	Vol. Tone	P1579 P1642	62 22	N L	6			10	19	BB12					5	1A6, 1A4, 30, 1G5G, 1B1	456	8-4 & 9-17
4503	Vol.		75	†			A5	8-4	1	2N518					6	6A7, 6D6, 6I16, 6F5, 80, 6F6	456	11-9
4504 (Ch. 190)	Vol. Tone		18 44	SRP275 L				8-4 4	25 25	2S567 BB60	B212				7	6A7, 6D6, 85, 42, 80	456	11-20
4505 (Ch. 6A60)	Vol. Tone	1495 1732	18 149	MR48 M	M26			1477 1476 1693	1 1 15	RS215 RS216 BB12					8	6D6, 75, 76, 42, 80	465	10-41, 42
4506	Vol.		75	†			A5	8-4	1	2N518					6	6A7, 6D6, 6I16, 6F5, 80, 6F6	456	11-9
4507	Vol. Tone		18 44	SRP275 L				8-4 4	25 25	2S567 BB60	B212				7	6A7, 6D6, 85, 42, 80	456	11-20
4508	Vol. Tone	P96005 P97003	15 41	MR55 UC504	M26			P81039 P81018	2 2/13	RS216 CM175					10	6D6, 76, 45, 80	456	9-23
4509	Vol. Tone	P96005 P97011	15 21	MR55 UC502	M26			P81058 P81056 P82000 P81039A	48 48 48 48	RS216 2N516 BB19 RS216					12	6D6, 76, 42, 380	456	9-25
4510	Vol.	1322	45	N											5	1A6, 34, 30, 32, 33, 5E1	465	9-32
4510 (Ch. 1091B)	Vol. Tone	3761 2331	17 22	UM154-SS16 MR33	M24			3150 1693	12 19	RS216 BB12					7	1C6, 34, 430, 1B4	465	11-21
4512 (6Q)	Vol. Tone	P1579 P1642	62 22	N L	6			10	19	BB12					5	1A6, 1A4, 30, 1G5G, 1B1	465	9-18
4512 (7700)	Vol.	1289	45	N	7			1291	12	ST585					6	1C6, 34, 330, 32, 19	465	9-27
4514 (6Q)	Vol. Tone	P1579 P1642	62 22	N L	6			10	19	BB12					5	1A6, 1A4, 30, 1G5G, 1B1	465	9-17
4514 (9148)	Vol. Tone	1447 1450	45 22	MR48 SRP263											9	34, 1C6, 330	465	9-29, 30
4516	Vol.	1322	45	N											5	1A6, 34, 30, 32, 33, 5E1	465	9-32
4519 (Ch. 603, 1934)	Vol.	9776	17	UM154	M26		A96	9532 9328 .02	1 15	2N519 TN111 Buffer		9536	292	C3	6	78, 6A7, 75, 41, 84	265	10-43
4525	Vol.		75	†			A5	8-4	1	2N518	B14				6	6A7, 6D6, 6I16, 6F5, 80, 6F6	456	11-9
4530	Vol.		75	†			A5	8-4	1	2N518					6	6A7, 6D6, 6I16, 6F5, 80, 6F6	456	11-9
4532	Vol.		75	†			A5	8-4	1	2N518					6	6A7, 6D6, 6I16, 6F5, 80, 6F6	456	11-9
4533 (6246)	Vol.	1322	45	N											5	1A6, 34, 30, 32, 33, 5E1	465	9-32
4534	Vol.	1145	17	UM154	M26		A96	1188 8876 .02	1 15	2N518 BB12 Buffer	B14	1893	294	C3	5	6A7, 6D6, 6B7, 41, 84	370	11-22
4536	Vol. Tone		18 44	SRP275 L				8-4 4	25 25	2S567 BB60	B212				7	6A7, 6D6, 85, 42, 80	456	11-20
4550	Vol. Tone	P1579 P1642	62 22	N L	6			10	19	BB12					5	1A6, 1A4, 30, 1G5G, 1B1	465	9-17
4556	Vol. Tone	3761 2331	15 22	UM154-SS16 MR33	M24			3150 1693	12 19	RS216 BB12					7	1C6, 34, 430, 1B4	465	11-21
5002	Vol.	24-101	18	N				8-8	4	2S567					5	6A7, 6D6, 75, 41, 84	456	12-9
5004, 5005	Vol. Tone	24-101 26-101	18 21	N N	6			18-202 18-201	25 25	RS215 RS215					7	76, 6A7, 6D6, 75, 42, 6G5, 80	456	11-26
5006	Vol. Tone	2726 2737	76 76	MR48 MR55	M26			3375 3351	23 23	RS216 WE825					8	6A7, 6D6, 75, 76, 42, 80, 6G5	456	9-16

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued																		
5020 (Ch. 1072AF)	Vol. Tone	2775 3545	15 22	MR48 K12	M26			3041	1	2N518				6	6A7, 6D6, 75, 41, 6G5, 80	465	10-33	
5052	Vol. Tone	2726 2737	76 76	MR48 MR55	M26			3375 3351	23 23	RS216 WE825				8	6A7, 6D6, 75, 76, 742, 80, 6G5	456	9-16	
5054, 5062 (Ch. AM7)	Vol. Tone	P1158 P1159	15 44	TM236-SS1 K12	M26			P1156 P1155 P1154	1 1 14	WE3050 WE1250 WE4030				11	6K7, 6A7, 6I16, 6C5, 6F6, 6G5, 5Z3	456	10-49	
5056	Vol. Tone	24-101 26-101	18 21	N N				18-202 18-201	25 25	RS215 RS215				7	76, 6A7, 6D6, 75, 42, 6G5, 80	456	11-26	
5058, 5060	Vol. Tone	24-101 26-101	18 21	N N	6			18-201 18-102	25 1/15	RS215 3S579				6	6A7, 6D6, 75, 6G5, 41, 80	156	9-33	
5102	Vol.	2239	17	MR48	6									4	1C6, 34, 1F6, 33, 5E1	465	9-33	
5104	Vol. Tone	2198 2331	17 44	UM154-SS16 K12				3150 1693	12 15	RS216 BB12				6	1C6, 34, 1F6, 330	465	11-23,24	
5106, 5110 (Ch. 65B)	Vol. Tone	2289 2331	18 22	UM154 K12		See Note A96		3150	12	BB24				5	1C6, 34, 1F6, 30, 19	465	10-45	
5152	Vol. Tone	2198 2331	17 44	UM154-SS16 K12	14			3150 1693	12 15	RS216 BB12				6	1C6, 34, 1F6, 330	465	11-23,24	
5200, 5210, 5214, 5216	Vol. Tone	24-101 26-102	18 21	N		See Note A5		1845 16-100 .01-.01	1 15	ST505 BB12 Buffer		3407	246	C3	6 30, 1A6, 1A4, 6T7G, 6L5G, 19	456	9-36	
5218	Vol. Tone	3418 3571	18 147	N P	7			3575 3574 .01	1 13	CS133 2N519 Buffer	B14	3421	245	C3	5 6D8G, 687G, 6T7G, 33, 114G	456	9-18	
5256, 5260 (Ch. 700)	Vol. Tone		45 22	MR48 MR33	M27			8-8 .0075	1 4	2N518 Buffer	B14		246A	C3	7 1C6, 33A, 1A4, 330, 19	456	10-50	
5300	Vol. Tone	P801 P828	17 22	UM163-SS3 MR39	M26			P795 G864 .0075	4 15	CM172 BB12 Buffer	B14	P816	294	C3	6 6D6, 6A7, 6K7, 75, 6F6, 84	175	9-10	
6500 (Ch. 603 1936)	Vol. Tone		15 22	N L	6			8, 8	4	Buffer RS213	B14			6	6D6, 76, 75, 42, 80	456	10-3	
6502 (Ch. 7AC)	Vol. Tone		18 34	UM161 L		See Note A96		16 8	4 4	ST597 ST595				7	6L7, 6K7, 6Q7, 6C5, 6F6, 6G5, 5W4	456	10-46	
6504 (Ch. 603 1936)	Vol. Tone		17 22	N L	6			8, 8	4	RS213				6	6D6, 75, 76, 42, 80	456	10-3	
6504	Vol. Tone	21-101 26-101	18 21	N N	6			18-202 18-201	25 25	RS215 RS215				6	76, 6A7, 6D6, 75, 42, 80	456	9-35	
6506 (Ch. AM3)	Vol. Tone		17 22	UM154 UM161		A96 A96		8 4-8 5	3 3 15	WE850 2N518 BB12				8	6K7, 6A8, 6G5, 6Q7, 6L6, 5W4	456	10-47	
6508 (Ch. AM6)	Vol. Tone		17 22	UM154 UM161		A96 A96		8 4-8 5	3 3 15	WE850 2N518 BB12				10	6K7, 6A8, 6Q7, 6G5, 6L6, 5W4	456	10-48	
6510, 6514, 6520	Vol.	P912	18	MR48				P160	1	2N518				5	6A7, 6D6, 75, 12, 80	456	9-37	
6512 (Ch. 14-142ES)	Vol. Tone	2726 2737	106 106	MR55 MR48				3375 3351	1 1	RS216 WE1830				7	78, 6A7, 75, 6D6, 42, 6G5, 80	456	10-51	
6518 (Ch. 603 1936)	Vol. Tone		15 22	N L	6			8, 8	4	RS213				6	6D6, 75, 76, 42, 80	456	10-3	
6525	Vol.		18	MR48				16	25	RS216				6	6A7, 6D6, 75, 6G5, 41, 1V	456	9-41	
6532	Vol.		18	MR48				16	25	WE825 RS216				6	6A7, 6D6, 75, 6G5, 41, 1V	456	9-41	
6540	Vol.		18	MR48				16	25	RS216 WE825				6	6A7, 6D6, 75, 6G5, 41, 1V	456	9-41	
6542 (Ch. 14-142ES)	Vol. Tone		106 106	MR55 MR48				3375 3351	1 1	RS216 WE1830				7	78, 6A7, 6D6, 75, 42, 6G5, 80	456	10-51	
6544	Vol. Tone	2726 2737	76 22	MR48 MR55	M26			3375 3351	23 23	RS216 WE825				8	6A7, 6D6, 75, 76, 742, 80, 6G5	456	9-16	
6546, 6550 (Ch. 603 1936)	Vol. Tone		15 22	N L	6			8, 8	4	RS213				6	6D6, 75, 76, 42, 80	456	10-3	
6552 (Ch. 7AC)	Vol. Tone		18 34	UM161 L		See Note A96		16 8	4 4	ST597 ST595				7	6L7, 6K7, 6Q7, 6C5, 6F6, 6G5, 5W4	456	10-46	
6554 (Ch. AM3)	Vol. Tone		17 22	UM154 UM161		A96 A96		1-8 5	3 15	WE850 2N518 BB12				8	6K7, 6A8, 6G5, 6Q7, 6L6, 5W4	456	10-17	
6556 (Ch. AM6)	Vol. Tone		17 22	UM154 UM161		A96 A96		8 4-8 5	3 3 15	WE850 2N518 BB12				10	6K7, 6A8, 6Q7, 6G5, 6L6, 5W4	456	10-48	
6560	Vol.		18	MR48				16	25	RS216 WE825				6	6A7, 6D6, 75, 6G5, 41, 1V	456	9-41	
6562, 6564 (Ch. 603 1936)	Vol. Tone		17 22	N L	6			8, 8	4	RS213				6	6D6, 75, 76, 42, 80	456	10-3	
6566 (Ch. 14-142ES)	Vol. Tone		106 106	MR55 MR48				3375 3351	25 25	RS216 WE1830				7	78, 6A7, 6D6, 75, 42, 6G5, 80	456	10-51	
6568	Vol. Tone	2726 2737	76 76	MR48 MR55	M26			3375 3351	23 23	RS216 WE825				8	6A7, 6D6, 75, 76, 742, 80, 6G5	456	9-16	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPIEGEL—Continued 6570, 6580, 6582, 6590 (Ch. AM7)...	Vol. Tone	P1158... P1159...	15 41	TM236-SS1 K12	M26			P1156... P1155... P1154... 18-102	1 1 1, 15	WE3050... WE1250... WE4030... 3S579...					11	6K7, 6A7, 6116, 6C5, 6F6, 6G5, 5Z3	456	10-49
6590	Vol. Tone	24-101... 26-101...	18 21	N											6	6A7, 6D6, 75, 6G5, 41, 80	456	9-36
6600	Vol.	2239	18	MR48											4	1C6, 34, 1F6, 33, 5E1	465	9-38
6602	Vol. Tone		18 22	MR48 MR33	M27										6	1C6, 34, 1B5, 30, 19	456	11-5
6606 (Ch. 525)	Vol.		18	MR48	M27										4	1C6, 34, 1B5, 33	456	11-25
6606 (Ch. 536)	Vol.	24-102	17	MR48	M26			16-100	19	BB12					4	1C6, 34, 1B5, 33, 5E1	456	12-37
6650	Vol. Tone		18 22	MR48 MR33	M27										6	1C6, 34, 1B5, 30, 19	456	11-5
6700	Vol. Tone	2239... 2199...	45 22	MR48 K12				3060... 1693... .01-.01 8-8... .01-.01 3575... 3574	1 15 1 1 13	2N518... BB12... Buffer... 2N516... Buffer... CS133... 2N519		3069	245A	C3	7	6A7, 7F5, 7F6, 19, 6G5	465	11-27
6708 (Ch. M5 1936)	Vol. Tone	P1142... P1058...	18 22	MR18... MR53	M27							P402	245C	C3	7	1C6, 34, 30, 19	456	10-7
6712, 6716	Vol. Tone	3418... 3571	18 147	N... P	7							3421	245	C3	7	6D8G, 6S7G, 6T7G, 33, 1H4G, 6L5G	456	9-18
6714	Vol. Tone		45 22	MR48... MR33	M27							3407	246	C3	6	1C6, 34, 30, 19	456	11-28
6750, 6752 (Ch. Z4)	Vol. Tone	P680... P682	45 34	SRP275... L	7							P402	245C	C3	6	1C6, 34, 30, 19, 32	456	10-5
6754 (Ch. M5 1936)	Vol. Tone	P1142... P1058...	18 22	MR48... MR53	M27							P402	245C	C3	7	1C6, 34, 30, 19	456	10-7
6758	Vol. Tone		45 22	MR48... MR33	M27							3407	246	C3	6	1C6, 34, 30, 19	456	11-28
6760, 6770 (Ch. 700)	Vol. Tone		45 22	MR48... MR33	M27								246A	C3	7	1C6, 34, 1A4, 30, 19	456	10-50
6766	Vol. Tone	3418... 3571	18 147	N... P	7							3421	245	C3	7	6D8G, 6S7G, 6L5G, 6T7G, 33, 1H4G	456	9-18
6770 (Ch. 700)	Vol. Tone		45 22	MR48... MR33	M27								246A	C3	7	1C6, 34, 1A4, 30, 19	456	10-50
6772	Vol. Tone	3418... 3571	18 147	N... P	7							3421	245	C3	7	6D8G, 6S7G, 6T7G, 33, 1H4G, 6L5G	456	9-18
6800	Vol. Tone	P801... P828	17 22	UM163-SS3... MR39	M26								294	C3	6	6D6, 6A7, 6K7, 75, 6F6, 84	175	9-10
6805 to 6808 inc., 6815 to 6818 inc., 6836 (Ch. 14-112S)	Vol. Tone Sen.	3038... 3034... 3035	18 22 27	UM157-SS3... MR36 CIMP									294	C3	6	7B, 6A7, 75, 42, 84	262	10-51
9902	Vol. Tone	1004... 1322	18 22	N... N	6										5	2A5, 2A6, 2A7, 58, 80	465	9-42
9904	Vol. Tone	P96014... P97011	17 34	MR48... UC502	M26										7	6D6, 6B7, 76, 42, 80	456	9-43
9905	Vol. Tone	P96005... P97003	15 41	MR55... UC504	M26										10	6D6, 7F6, 7A5, 80	456	9-23
9907 (Ch. 5258)	Vol.	1004	18	N	6										5	6A7, 6D6, 75, 42, 25Z5	465	10-52
9908	Vol. Tone	1104... 1322	18 22	N... N	6										5	2A5, 2A6, 2A7, 58, 80	465	9-42
9910	Vol. Tone	P96014... P97011	17 34	MR48... UC502	M26										7	6D6, 6B8, 76, 42, 80	456	9-43
9911	Vol. Tone	P96005... P97003	15 41	MR55... UC504	M26										10	6D6, 7F6, 7A5, 80	456	9-23
9912	Vol. Tone	P96005... P96011	15 21	MR55... UC502	M26										12	6D6, 7F6, 7A2, 7B0	456	9-25
9914, 9915 (7700)	Vol.	1289	45	N	7										6	1C6, 34, 30, 32, 19	465	9-27
9916, 9917	Vol. Tone	P96016... P97013	15 44	MR55... K12											9	34, 30, 19	456	9-45
9923	Vol.	1322	45	N											5	1A6, 34, 30, 32, 33, 5E1	465	9-32
9926, 9928	Vol. Tone	P96014... P97011	17 34	MR48... UC502	M26										7	6D6, 6B7, 76, 42, 80	456	9-43
9930	Vol.	P96017	17	P	6							P2229	286S	C3	5	6D6, 6C6, 75, 41	175	9-47
9932, 9933	Vol.	1289	45	N	7										6	1C6, 34, 30, 32, 19	465	9-27
9936	Vol. Tone		18 44	SRP275... L											7	6A7, 6D6, 85, 7A2, 80	465	11-20

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SPLITDORF (See Thomas A. Edison Inc.)																		
STAR																		
All Star Junior.....	Vol.		8	J.....	6		4-4-4.....	3	CM175.....					5	6F7, 6A7, 77, 42, 80.....			
All Star Senior.....	Vol.		8	G.....			8-8-8.....	3	RS213.....					7	2A7, 58, 56, 2A5, 80.....			
062, 062A.....	Tone		21	L.....														
6U.....	Vol.		45	N.....	6		4.....	15	BB12.....			205		6	39, 36, 37, 38.....	262	5-1	
	Vol.		18	M.....			10-10.....	1	CM172.....			253		6	78, 77, 75, 41, 84.....	262.5	5-2	
	Tone		22	UC502.....			12-12.....	15	TN111.....									
							.01.....		Buffer.....	B14								
STAR RAIDER (See Continental Radio Corp.)																		
STEINITE RADIO CO.																		
10.....	Vol.		7	Z.....		EX450	2-2-1-3.....	37	See Note.....	B1				7	24A, 27, 45, 80.....		1-3	
10 Chassis No. 15.....	Vol.		7	Z.....		EX450	8-8.....	1	See Note.....	B3				6	24A, 27, 71, 80.....		2-3	
20 (Chassis No. 22).....	Vol.		6	G7.....		EX450	.....	3	See Note.....	B1				8	24A, 27, 45, 80.....	175	2-1
	Tone		22	.....	†	See Note	A5										
Chassis No. 21.....	Vol.		6	Z.....	6		8-8-8.....	3	CM175.....					6	24A, 45, 80.....		2-5	
Chassis No. 23.....	Vol.		6	Z.....			8-8.....	1	CM172.....					5	24A, 47, 80.....		2-6	
25 (8 tube Pentode).....	Vol.		6	G7.....			8-2-1.....	3	See Note.....	B3				8	.....		6-32
26.....	Vol.		7	E.....			8-2-1.....	3	See Note.....	B3				8	51, 24A, 27, 47, 80.....	175	2-7	
	Tone		149	D12.....														
28.....	Vol.		6	E7.....			8-8.....	4	See Note.....	B3				5	51, 24A, 47, 80.....		2-9	
40, 40A.....	Vol.		7	Z.....		A14	2-3-2.....	3	See Note.....	B1				8	27, 71A, 80.....		1-1	
40C.....	Vol.		7	Z.....			2-3-3.....	3	See Note.....	B1				8	45, 27, 80.....		1-2	
50, 50A.....	Vol.		7	Z.....		A14	1-2-4.....	3	See Note.....	B1				9	27, 50, 81.....		1-1,2	
	Phono.		63	K12.....														
60C.....	Vol.		7	Z.....			2-3-3.....	3	See Note.....	B1				8	45, 27, 80.....		1-2	
70, 80, 95 (Chassis No. 10).....	Vol.		7	Z.....		EX450	2-2-1-3.....	37	See Note.....	B1				7	24A, 27, 45, 80.....		1-3	
102, 102A.....	Vol.		7	Z.....			1-2-4.....	3	See Note.....	B1				9	27, 50, 81.....		1-1	
	Phono.		63	K12.....														
102C.....	Vol.		7	Z.....			2-3-3.....	3	See Note.....	B1				8	27, 45, 80.....		1-2	
203 (Chassis No. 22).....	Vol.		6	G12.....		EX450	.....	3	See Note.....	B1				8	24A, 27, 45, 80.....	175	2-1
	Tone		22	.....	†	See Note	A5										
261, 262, 263, 264, 265.....	Vol.		10	G12.....			1-1-1-1.....	3/13	See Note.....	B1				7	26, 27, 71A, 80.....		1-4	
420 (Chassis No. 15).....	Vol.		7	Z.....		EX450	8-8.....	1	See Note.....	B3				6	24A, 27, 71, 80.....		2-3	
420 (Chassis No. 17).....	Vol.		7	Z.....		EX450	2-2-3.....	3	See Note.....	B1				7	24A, 27, 45, 80.....		2-2	
421, 425 (Chassis No. 21).....	Vol.		6	Z.....	6		8-8-8.....	3	CM175.....					6	24A, 45, 80.....		2-4,5	
423 (Chassis No. 23).....	Vol.		6	Z.....			8-8.....	1	CM172.....					5	24A, 45-47, 80.....		2-6	
450 (Chassis No. 15).....	Vol.		7	Z.....		EX450	8-8.....	1	See Note.....	B3				6	24, 27, 71, 80.....		2-3	
450 (Chassis No. 17).....	Vol.		7	Z.....		EX450	2-2-3.....	3	See Note.....	B1				7	24A, 45, 27, 80.....		2-2	
600, 605, 630, 635, 642, 643 (Chassis No. 22).....	Vol.		6	G12.....		EX450	.....	3	See Note.....	B1				8	27, 24A, 45, 80.....	175	2-1
	Tone		22	.....	†	See Note	A5										
642B, 700 (Chassis No. 26).....	Vol.		7	E.....			8-2-4.....	3	See Note.....	B3				8	27, 51, 24, 47, 80.....	175	2-7	
	Tone		149	D12.....														
700, 701 (Chassis No. 28).....	Vol.		6	E7.....			8-8.....	4	See Note.....	B3				5	51, 24A, 47, 80.....		2-9	
705, 706, 725, 705 (Chassis No. 26).....	Vol.		7	E.....			8-2-4.....	3	See Note.....	B3				8	51, 24A, 27, 47, 80.....	175	2-7	
	Tone		149	D12.....														
STERLING MFG. CO.																		
A (DC).....	Vol.		25	DRP119.....	6		4.....	1	See Note.....	B11				6	32, 30, 31.....		3-1	
3A.....	Vol.	7031	12	G12.....			7350.....	3	RS213.....					8	51, 27, 45, 80.....		1-1	
B3.....	Vol.		12	G12.....										7	24, 27, 45.....		3-3	
B.....	Vol.		12	G12.....										7	24, 27, 45.....			
4.....	Vol.		12	G12.....			8-8.....	1	See Note.....	B3				8	35, 27, 45, 80.....		1-2	
B4.....	Vol.		12	G12.....										7	24, 27, 45.....		3-3	
C.....	Vol.		40/12	DRP119.....	6		1-2.....	1	See Note.....	B1				6	24, 45, 80.....		3-3	
F.....	Vol.	7777	24	DRP119.....	6		1-2.....	1	See Note.....	B1				5	24, 45, 80.....		1-5	
Miniature.....	Vol.		25	DRP119.....	6		1-2.....	1	See Note.....	B1				5	24, 45, 80.....		1-3	
M, N, P, Q.....	Vol.	7775	24	DRP119.....	6		8237.....	1	RS213.....					5	24, 45, 80.....		3-2	
							8238.....	1	RS213.....									
8 Tube Receiver.....	Vol.	7777	25	DRP119.....	6		8-8-8.....	3	See Note.....	B3				8	24, 27, 45, 80.....		1-5	
	Tone		41	O.....														
VA.....	Vol.	8753	6	H12.....	6		8573.....	4	CS133.....					5	24, 51, 47, 80.....	175	3-1	
STEWART RADIO CO.																		
50, 60.....	ORP.		17	UM154.....		See Note	A96	6-10.....	1	CM172.....		292		6	6D6 or 78, 6A7, 75, 41, 6Z5.....	262	1-1	
	Vol.							5-5.....	15	TN111.....								
STEWART-WARNER CORP.																		
01-5D9, 01-5D9WT.....	Vol.	116762	18	UM161.....	M26		A96	113472.....	1	BB27.....				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT.....	455	11-33	
								112898.....	1	BB24.....								
01-5H, 01-5H1 to 01-5H19.....	Vol.	117035	124	TM243-SS25.....	M26			117034.....	23	2S563.....				5	6SA7, 6SK7, 6SQ7, 6F6G, 5W4G.....	455	11-1,2	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STEWART-WARNE R CORP	—Continued																	
01-6A, 6B, 6D.....	Vol.	117035.....	124	TM243-SS25	M26			114972.....	23	BB64.....					6	6SA7, 6SK7, 6116, 6SQ7, 6F6G, 5W4G	455	11-3,4
01-6C9.....	Vol.	117069.....	124	TM238-SS25				117356.....	19	BB12.....					6	6SA7, 6SK7, 6116, 6SQ7, 6F6G, 5W4G	455	11-7,8
01-6E (Rev. MD) 01-6E1 to 01-6E9)	Vol.	117035.....	124	TM243-SS25	M26			114258.....	23	BB61.....					6	6SA7, 6SK7, 6116, 6SQ7, 6F6G, 5W4G	455	11-13,14
01-6F9 (Ch. 01-6F)	Vol.	117069.....	124	TM238-SS25				116262.....	23	BB64.....					6	6SK7, 6SA7, 6SQ7, 6F6G, 5W4G	455	12-1-4
01-6G, 01-6G-Z.....	Vol.	117035.....	124	TM243-SS25	M26			118421.....	23	2S563.....					6	6SK7, 6SA7, 6SQ7, 6F6G, 5W4G	455	11-15,16
01-6G4-1 to 01-6G4-5 inc., 01-6G1-Z, 01-6G4-1-Z to 01-6G4-5-Z inc.....	Vol.	117035.....	124	TM243-SS25	M26			110377.....	19	BB12.....					6	6SK7, 6SA7, 6SQ7, 6F6G, 5W4G	455	11-15
01-6K1.....	Vol.	119086.....	18	UM161.....	M26		A96	119343.....	23	Order from	Mfr.....				6	12K7GT, 12SA7, 12SQ7, 25L6G, 6X5G	455	11-17
01-6M9.....	Vol.	119086.....	18	UM161.....	M26		A96	119343.....	23	Order from	Mfr.....				6	12K7GT, 12SA7, 12SQ7, 25L6G, 6X5G	455	11-17
01-8A.....	Vol.	118198.....	15	UM163.....	M26		A96	114972.....	25	BB64.....					8	6SK7, 6SA7, 6116, 6J5GT, 6SF5, 6V6G, 5W4G	455	11-19
01-8B.....	Vol.	118198.....	15	UM163.....	M26		A96	114972.....	25	BB64.....					8	6SK7, 6J5GT, 6SF5, 6116, 6V6G, 5W4G, 6SA7	455	11-27
01-8C and 01-8C-Z.....	Vol.	118669.....	124	TM243-SS25	M26			114972.....	23	BB61.....					8	6SK7, 6SA7, 6J5GT, 6SQ7, 6F6G, 5W4G	455	11-21
01-0A, 01-9A-Z.....	Vol.	118669.....	124	TM243-SS25	M26			114972.....	23	BB64.....					9	12SK7, 12A8GT, 12Q7GT, 6J5GT, 6K6G, 5Y3G	455	11-23,24
01-521 to 01-529 (Ch. 01-52).....	Vol.	116005.....	18	UM161.....	M26		A96	114258.....	1	BB61.....					5	6A8G, 6K7, 6Q7G, 6F6G, 5W4G	465	10-55
01-531 to 01-539 (Ch. 01-53).....	Vol.	116236.....	18	MR48.....	M26			114972.....	23	BB64.....					5	6A8G, 6K7, 6Q7G, 6F6G, 5W4G	465	10-57
01-531S to 01-539S (Ch. 01-53S).....	Vol.	116236.....	18	MR48.....	M26			114258.....	23	BB61.....					5	6A8G, 6K7, 6Q7G, 6F6G, 5W4G	465	10-57
01-611 to 01-619, 01-611S to 01-619S (Ch. 01-61, 01-61S).....	Vol.	116236.....	75	MR48.....	M26			114972.....	23	BB64.....					6	6A8G, 6K7, 6116, 6Q7G, 6F6G, 5W4G	465	10-60
01-811 to 01-819 (Ch. 01-81).....	Vol.	114928.....	124	TM243-SS1	M26			110377.....	19	BB12.....					6	6A8G, 6K7, 6116, 6Q7G, 6F6G, 5W4G	465	10-61, 62
02-4A1 to 02-4A9 inc.	Vol.	117706.....	18	UM161.....	M27		A96	113965.....	25	WE1650.....					8	6K7, 6A8G, 6J5G, 6116, 6Q7G, 6F6G, 5W4G	465	10-61, 62
02-4B1 to 02-4B9 (Chassis 02-4B).....	Vol.	119426.....	18	UM161.....	M27		A96	116262.....	25	BB64.....					4	1A7GT, 1N5GT, 11I5GT, 1C5GT	455	11-28
02-4C1 to 02-4C9 (Ch. 02-4C).....	Vol.	119529.....	18	UM161.....	M27		A96	116263.....	13	BB60.....					4	1A7GT, 1N5GT, 11I5GT, 1C5GT	455	11-28
02-5T1 to 02-5T9 (Chassis 02-5T).....	Vol.	119551.....	18	UM161.....	M27		A96	113118.....	12	BB21.....					4	1A7GT, 1N5GT, 11I5GT, 1A5GT	455	12-5,6,8
02-41.....	Vol.	116393.....	18	O.....	7			112898.....	12	BB24.....					4	1A7GT, 1N5GT, 11I5GT, 1A5GT	455	12-6-8
03-5A1 to 03-5A9 (Ch. 03-5A).....	Vol.	116691.....	18	MR53.....	M26			112898.....	12	BB24.....					5	1A7G, 1N5G, 11I5G, 1Q5G, 1G4G	455	12-8-10
Senior Varsity (Ch. 03-5B, 07-5B)	Vol.	116691.....	18	.....	.....		A5	113118.....	12	BB21.....					4	1A7G, 1N5G, 11I5G, 1C5G	465	10-65
03-5C1.....	Vol.	116762.....	18	UM161.....	M26		A96	113472.....	22	BB27.....					5	12SA7, 12SK7, 12SQ7, 12SQ7, 35L6GT, 35Z5GT	455	11-29
03-5E and 03-5J.....	Vol.	116834.....	18	UM163.....	M26		A96	112898.....	22	BB24.....					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	11-31
03-5K1 to 03-5K9 inc.....	Vol.	114879.....	18	UM161.....	M26		A96	113472.....	22	BB24.....					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	11-33
								112898.....	22	BB27.....					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	11-35,36
								112898.....	22	BB24.....					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455	11-37
								117559.....	22	2N513.....					5	12SA7, 25B8GT, 12SQ7, 35L6GT, 35Z5GT	455	11-37

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
STEWART-WARNE 03-5R1	R CORP Vol.	---Continued 119413	18	UM161	M26		A96	118911	22	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-39
03-5R3 to 03-5R6 inc.	Vol.	119413	18	UM161	M26		A96	118911	22	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-39
03-5S1, 03-5S2	Vol.	119086	18	UM161	M26		A96	118911	22	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-11
03-6J, 03-6J-Z, 03-6L, 03-6L-Z	Vol.	116834	18	UM161	M26		A96	119021 110377	4 20	2P553 BB12		B10			6	6SK7, 6SA7, 6SQ7, 25L6GT, 25Z6GT	455	11-43.44
03-6N-1, 03-6N1-Z, (Ch. 03-6N, 03-6N-Z)	Vol.	116834	18	UM161	M26		A96	119021	4	2P553					6	6SK7, 6SA7, 6SQ7, 25L6GT, 25Z6GT	455	12-11.12
05-5L1 to 05-5L9 inc.	Vol.	117897	15	UM161	M27		A96	117759 117730	22 78	2N509 11C2501					5	1A7GT, 1N5GT, 11L5GT, 1Q5GT, 70L7GT	455	11-12
07-5R1	Vol.	119413	18	UM161	M26		A96	118911	22	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-39
07-5R3 to 07-5R6 inc.	Vol.	119413	18	UM161	M26		A96	118911	22	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-39
07-511 to 07-519 (Ch. 07-51)	Vol.	114879	18	UM161	M26		A96	114869	22	2N506					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	465	11-67
07-511H to 07-519H (Ch. 07-51H)	Vol.	114879	18	UM161	M26		A96	116470	22	FPD208					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	465	10-69
07-551 to 07-559 (Ch. 07-55)	Vol.	114879	18	MR53	M26			116470	1	FPD208					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	465	10-69
07-631 to 07-639 (Ch. 07-63)	Vol.	116272	18	MR53	M26			112898 113472	24 13	BB24 BB27					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G, L49B	465	10-71
08-521 to 08-529 (Ch. 08-52)	Vol.	116005	18	UM161	M26		A96	114258	1	BB61					5	6A8G, 6K7, 6Q7G, 6F6G, 5W4G	465	10-55
08-811 to 08-819 (Ch. 08-81)	Vol.	114928	124	TM243-SS1	M26			113965 116262 116263	25 25 13	WE1650 BB64 BB60					8	6K7, 6A8G, 6J5G, 6I16, 6Q7G, 6F6G, 5W4G	465	10-61, 62
010-6RX, 010-6DX, 010-6AX	Vol.	117035	124	TM243-SS25	M26			114972 117356 114972	23 19 23	BB64 BB12 BB64					6	6SA7, 6SK7, 6I16, 6SQ7, 6F6G, 5W4G	455	
010-6CX	Vol.	117069	124	TM238-SS25	M26			114972	23	BB64					6	6SA7, 6SK7, 6I16, 6SQ7, 6F6G, 5W4G	455	11-78
010-521 to 010-529 (Ch. 010-52)	Vol.	116005	18	UM161	M26		A96	114258	1	BB61					5	6A8G, 6K7, 6Q7G, 6F6G, 5W4G	465	10-55
010-531 to 010-539 (Ch. 010-53)	Vol.	116236	18	MR48	M26			114972 114258 112113	23 23 19	BB64 BB61 BB13					5	6A8G, 6K7, 6Q7G, 6F6G, 5W4G	465	10-57
010-531S to 010-539S (Ch. 010-53S)	Vol.	116236	18	MR48	M26			114972 114258 112113	23 23 19	BB64 BB61 BB13					5	6A8G, 6K7, 6Q7G, 6F6G, 5W4G	465	10-57
010-611 to 010-619, 010-611S to 010-619S (Ch. 010-61, 010-61S)	Vol.	116236	75	MR48	M26			114972 114258 110377	23 23 19	BB64 BB61 BB12					6	6A8G, 6K7, 6I16, 6Q7G, 6F6G, 5W4G	465	10-60
010-811 to 010-819 (Ch. 010-81)	Vol.	114928	124	TM243-SS1	M26			113965 116262 116263	25 25 13	WE1650 BB64 BB60					8	6K7, 6A8G, 6J5G, 6I16, 6Q7G, 6F6G, 5W4G	465	10-61, 62
11-2A1 (Wireless Record Player) (Ch. 11-2A)	Vol.	160576	50	UM147	M26		A96	116470	24	FPD208					2	35L6GT, 35Z5GT		12-18
11-5V9 (Ch. 11-5V)	Vol.	119912	18	UM161	M26		A96	160012	1/15	3N534					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-13
11-5W1 to 11-5W9 (Ch. 11-5W)	Vol.	119629	18	UM161	M26		A96	114258	1	BB61					5	6F6G, 6SQ7, 5W4G, 6SK7, 6SA7	455	12-14

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STEWART-WARNER CORP. — Continued																		
11-6T1 to 11-6T9, 11-6T1S to 11-6T9S (Ch. 11-6T, 11-6TS)...	Vol.	160175	124	†			A19	160174	1, 15	F1P7339					6	6SA7, 6SK7, 6SQ7, 6F6G, 6J5GT, 5Y3G	455 12-15-17	
11-6U1 to 11-6U9, 11-6U1-Z to 11-6U9-Z (Ch. 11-6U, 11-6U-Z)	Vol.	160407	18	†			A5	117034, 110377	23, 19	2S563, BB12					6	6SA7, 6SK7, 6SQ7, 6F6G, 6J5GT, 5W4G	455 12-19,21	
11-6V1 to 11-6V9 (Ch. 11-6V)	Vol. Tone	160238, 160361	140, 140	1 Meg. UM161			A19, A96	161193	1/15	F1P7339					6	6SA7, 6SK7, 6J5GT, 6SQ7, 6F6G, 5Y3G	455 12-20,21	
11-7A1 to 11-7A9 (Ch. 11-7A)	Vol. Tone	160238, 160361	140, 140	1 Meg. UM161			A19, A96	160008	1	F1D234					7	6SA7, 6SK7, 6SQ7, 6J5GT, 6F6G, 5Y3G	455 12-12,22	
11-8F1 to 11-8F9, 11-8F1-Z to 11-8F9-Z (Ch. 11-8F, 11-8F-Z)	Vol.	118669	124	TM243-SS25	M26			114972, 110377	23, 19	BB64, BB12					8	6SK7, 6SA7, 6J5GT, 6SQ7, 6F6G, 5W4G	455 12-23,24	
11-9B1-Z to 11-9B9-Z (Ch. 11-9B-Z), (11-9B1 to 11-9B9 (Ch. 11-9B)	Vol.	118669	124	TM243-SS25	M26			160008	1	F1D234					9	6SK7, 6SA7, 6SQ7, 6J5GT, 6F6G, 5Y3G	455 12-16,31	
12-4D1 (Ch. 12-4D)	Vol.	161325	18	UM154	M27		A96	110377	19	BB13					4	1A7GT, 1N5GT, 1H5GT, 1A5GT	455 12-32,40	
13-5U1 to 13-5U9 (Ch. 13-5U)	Vol.	119912	18	UM161	M26		A96	160012, 118911	1/15, 1	3N534, 2N509	B12				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455 12-33	
13-6P1 to 13-6P9 (Ch. 13-6P)	Vol.	119912	18	UM161	M26		A96	112898, 113472	4, 4	BB24, BB27					6	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT, 12J5GT	455 12-34	
15-5X1 to 15-5X9 (Ch. 15-5X)	Vol.	160297	18	UM161	M27		A96	117559, 118452	4, 78	2N513, HC2501					5	1LA6, 1LN5, 1LH4, 1LA4, 35Z3	455 12-35	
15-5Y1 to 15-5Y9 (Ch. 15-5Y)	Vol.	161227	18	Order from Mfr.				117559, 161273	4, 78	2N513, BB17					5	1LA6, 1LN5, 1LH4, 3Q5GT, 35Z3	455 12-21,36	
91-511 to 91-519 (Ch. 91-51)	Vol.	113649	18	MR48	M26			113096	23	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5W4G	465 10-9	
91-531 to 91-539 (Ch. 91-53)	Vol.	113024	18	UM154	M26		A96	8-4-4	60	See Note	B3				5	6A8G, 6K7, 6Q7G, 6K6G, 5W4G	465 10-11	
91-611 to 91-619 (Ch. 91-61)	Vol.	113062	18	UM154	M26		A96	89937, 113066, 110377	25, 25, 19	WE3050, BB61, BB12					6	6A8G, 6K7, 6Q7G, 6U5, 6K6G, 5W4G	465 10-15, 16	
91-621 to 91-629 (Ch. 91-62)	Vol.	113024	18	UM154	M26		A96	8-4-4	60	See Note	B3				6	6A8G, 6K7, 6Q7G, 6K6G, 6U5, 5W4G	465 10-19	
91-641 to 91-649 (Ch. 91-64)	Vol.	113852	18	MR48	M26			114329, 113808	23, 23	BB64, BB61					6	6A8G, 6K7, 6Q7G, 6K6G, 5W4G	465 10-21	
91-648 (Ch. 91-64) (With S Stamped on Chassis)	Vol.	116274	45	MR48	M26			114972, 113808	23, 23	BB64, BB61					6	6A8G, 6K7, 6H6, 6Q7G, 6F6G, 5W4G	465 10-23	
91-711 to 91-719 (Ch. 91-71)	Vol.	110766	18	MR53	M26			89937, 110768, 110377	25, 25, 19	WE3050, BB61, BB12					7	6L7G, 6U7G, 6C5G, 6U5, 6Q7G, 6L6G, 5W4G	465 10-25	
91-811 to 91-819 (Ch. 91-81)	Vol.	113254	18	TM221-SS1	M26			113261, 89937	1, 1	WE3050, WE3050					8	6K7, 6A8G, 6Q7G, 6U5, 6K6G, 5Y3G	465 10-29	
91-821 to 91-829 (Ch. 91-82)	Vol.	113967	20	TM243-SS1				113965, 113962, 89937, 113963, 113961, 110377	30, 30, 30, 13, 14, 15	WE1650, BB62, WE3050, BB64, BB33, BB12					8	6A8G, 6K7G, 6H6G, 6J5G, 6U5, 6L6G, 5U4G	465 10-31, 32	
91-1111 to 91-1119 (Ch. 91-111)	Vol. Remote Cont.	113258, 113646	15, 7	TM238-SS1, MR34	M26			113261, 89937, 110377	1, 1, 15/19	WE3050, WE3050, BB12					11	6K7, 6L7G, 6J5G, 6H7G, 6U5, 6V6G, 5W4G	465 10-5,6	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
STEWART-WARNER CORP.	—Continued																	
97-521 to 97-529 (Ch. 97-52)	Vol.	113049	18	MR48	M26			112898	4	BB24					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G, L49B	465	10-35
97-561 to 97-569 (Ch. 97-56)	Vol.	113501	6	UM124-SS18	M26	EX300		113472 112898	4 4	BB27 BB24					4	6A8G, 6J7G, 25L6G, 25Z6G, L55B	465	10-37
97-561S to 97-569S (Ch. 97-56S)	Vol.	113501	6	UM124-SS18	M26	EX300		113472 112898	4 4	BB27 BB24					4	6A8G, 6J7G, 25L6G, 25Z6G, L55B	465	10-37
97-571 to 97-579 (Ch. 97-57)	Vol.	114814	18	UM161	M26		A96	113472 112898	23 23	BB27 BB24					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G	465	10-41
98-511 to 98-519 (Ch. 98-51)	Vol.	113049	18	MR48	M26			113096	23	2S567					5	6A8G, 6K7, 6Q7G, 6K6G, 5W4G	465	10-9
98-531 to 98-539 (Ch. 98-53)	Vol.	113024	18	UM154	M26		A96	112802	60	2S567/BB60					5	6A8G, 6K7, 6Q7G, 6K6G, 5W4G	465	10-11
98-611 to 98-619 (Ch. 98-61)	Vol.	113062	18	UM154	M26		A96	89937 113066 110377	25 25 19	WE3050 WE851 BB12					6	6A8G, 6K7, 6Q7G, 6U5, 6K6G, 5W4G	465	10-15,16
98-621 to 98-629 (Ch. 98-62)	Vol.	113024	18	UM154	M26		A96	112802	60	2S567/BB60					6	6A8G, 6K7, 6Q7G, 6K6, 6U5, 5W4G	465	10-19
98-641 to 98-649 (Ch. 98-64)	Vol.	113852	18	MR48	M26			114329 113808	23 23	BB64 BB61					6	6A8G, 6K7, 6Q7G, *6K6G, 5W4G	465	10-21
98-511 to 98-519 (Ch. 98-51)	Vol.	113049	18	MR48	M26			113096	23	2S567					5	6A8G, 6K7, 6Q7G, 5W4G, 6K6G	465	10-9
98-711 to 98-719 (Ch. 98-71)	Vol.	110766	18	MR53	M26			89937 110768 110377	25 25 19	WE3050 BB61 BB12					7	6L7G, 6U7G, 6C5G, 6U5, 6Q7G, 6K6G, 5W4G	465	10-25
98-811 to 98-819 (Ch. 98-81)	Vol.	113254	56	TM221-SS1	M26			113261 89937	1 1	WE3050 WE3050					8	*6K7, 6A8G, 6Q7G, 6U5, *6K6G, 5Y3G	465	10-29
98-821 to 98-829 (Ch. 98-82)	Vol.	113967	15	TM243-SS1				113965 113962 89937 113963 113961 110377	30 30 30 13 14 15	WE1650 BB62 WE3050 BB64 BB33 BB12					8	6A8G, 6K7G, 6L16G, *6J5G, 6U5, 6L6G, 5U4G	465	10-31,32
98-1111 to 98-1119 inc. (Ch. 98-111)	Vol. Remote	113258	15	TM238-SS1	M26			113261 89937	1 1	WE3050 WE3050					11	*6K7, 6L7G, 6J5G, 6R7G, 6U5, *6V6G, *5W4G	465	10-5,6
910-511 to 910-519 inc. (Ch. 910-51)	Vol.	113646	7	MR34				110377	15/19	BB12								
910-511 to 910-519 inc. (Ch. 910-51)	Vol.	113049	18	MR48	M26			113536	23	2S567					5	6A8G, 6K7, 6Q7G, 5W4G, 6K6G	465	10-9
910-531 to 910-539 (Ch. 910-53)	Vol.	113024	18	UM154	M26		A96	112802	60	2S567/BB60					5	6A8G, 6K7, 6Q7G, 6K6G, 5W4G	465	10-11
910-611 to 910-619 (Ch. 910-61)	Vol.	113062	18	UM154	M26		A96	89937 113066 110377	25 25 19	WE3050 WE851 BB12					6	6A8G, 6K7, 6Q7G, 6U5, 6K6G, 5W4G	465	10-15,16
910-621 to 910-629 (Ch. 910-62)	Vol.	113024	18	UM154	M26		A96	112802	60	2S567/BB60					6	6A8G, 6K7, 6Q7G, 6K6G, 6U5, 5W4G	465	10-19
910-641 to 910-649 (Ch. 910-64)	Vol.	113852	18	MR48	M26			114329 113808	23 23	BB64 BB61					6	6A8G, 6K7, 6Q7G, *6K6G, 5W4G	465	10-21
910-711 to 910-719 (Ch. 910-71)	Vol.	110766	18	MR53	M26			89937 110768 110377	25 25 19	WE3050 BB61 BB12					7	6L7G, 6U7G, 6C5G, 6U5, 6Q7G, 6K6G, 5W4G	465	10-25
910-811 to 910-819 (Ch. 910-81)	Vol.	113254	56	TM221-SS2	M26			113261 89937	1 1	WE3050 WE3050					8	*6K7, 6A8G, 6Q7G, 6U5, *6K6G, 5Y3G	465	10-29
910-821 to 910-829 (Ch. 910-82)	Vol.	113967	15	TM243-SS1				113965 113962 89937 113963 113961 110377	30 30 30 13 14 15	WE1650 BB62 WE3050 BB64 BB33 BB12					8	6A8G, 6K7G, 6L16G, *6J5G, 6U5, 6L6G, 5U4G	465	10-31,32
910-1111 to 910-1119 inc. (Ch. 910-111)	Vol. Remote	113258	15	TM238-SS1	M26			113261 89937	1 1	WE3050 WE3050					11	*6K7, 6L7G, 6J5G, 6R7G, 6U5, *6V6G, *5W4G	465	10-5,6

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STEWART-WARNE	—Continued																	
102D (7 tubes).....	R CORP Vol. Tone	—	2, 12	Order from Z12	Mfr.									7	32, 30, 33		10-3	
102D (8 tubes).....	R CORP Vol. Tone		2, 12	Order from Z12	Mfr.									8	32, 30		10-4	
A6 (Ch. 07-31), Air Pal.....	Vol.	116579		UM124-SS25	M26	EX300		116587	1	2N509				3	12SA7, 25B8GT, 70L7GT	455	10-1	
A6S (07-32).....	Vol.	117088		UM154-SS25	M26			116587	1	2N509				3	12SA7, 25D8GT, 70L7GT	455	11-32	
R100A, B, E (AC).....	Vol. Tone	66389 67023	113 22	SRP245 Z12				66170	3	CM172				8	24, 27, 45, 80		1-10	
R100C, R100CF (DC).....	Vol. Tone	66559 67023	1 22	Order from Z12	Mfr.									7	12A, 01A, 22, 71A		1-12	
R101A, R101B.....	Vol.	67267	6	E12				67265	4	RS213				4	51 or 35, 24, 47, 80		2-1	
R102A, B and E.....	Vol. Tone	67457 67679	6 22	A10MP Z12			A66	67264 67328	4 5	RS213 RS213				6	24A, 51 or 35, 47, 27, 80	177.5	2-4,5	
R-102-C (DC).....	Vol. Tone	67822 67704	5, 12 34	DRP241 Z12				67588	26	RS213	B12			7	36, 37, 33			
R-102-D7.....	Vol. Tone	67821	5, 12	DRP241 Z12	7									7	32, 30, 33			
R-102-D8.....	Vol. Tone	67822 67701	5, 12 31	DRP241 Z12										8	32, 30			
R104A, B and E.....	Vol. Tone	67937 67309	15 114	N Z12				67328 67588	5 26	RS213 RS213	B12			6	57, 58, 47, 56, 80, Wunderlich	177.5	3-1,4	
105 Series (50 to 59).....	Vol. Tone	81419 81437	100 22	Z12 L		6		81367 67328	26 26	RS215 RS213	B12			11	57, 58, 56, 27, 47, 80	177.5	3-3,5	
R106.....	Vol. Sen.	81484 81534	56 7	N A10MP		6								7	58, 55, 59, 56, 80	177.5	4-1,2	
108, 108X, (10 to 20 incl.).....	Vol.	81679	6	UC509	6	EX100		81678	1	CM170				4	39, 36, 38, 12Z3		3-6	
109 (1090-1099).....	Vol.	81722	56	N	6			81698	15	TN111				6	58, 55, 56, 2A5, 80	177.5	3-7,8	
R110, R110B, R110C.....	Vol.	81870	56	SRP285	7		A4	81347	1	RS213				6	58, 51, 55, 27, 2A5, 80	177.5	4-3,4	
R111.....	Vol.	81904	56	N	6			81901	14	BB31				10	78, 6B7, 43, 37, 25Z5	456	4-5,6	
R112 (1121, 1122, 1123).....	Vol.	81908	17	N	6			81959	11	UR193	B31			6	78, 6B7, 43, 37, 25Z5	456	4-5,6	
R112 (1121, 1122, 1123).....	Vol.	83202	18	MR48	M26			83394	11	BB22				6	78, 37, 6B7, 43, 25Z5	456	4-5,6	
R115.....	Vol.		17	N	6			83111	1/15	CM172/TN111		83371	292	C3	5	6A7, 78, 75, 41, 84	456	4-7,8
R116, R116X, R116XH, R116AL, R116XL.....	Vol. Tone	83118 83118	1 1	Order from Buffer	Mfr.			83118	1	Order from Buffer	B14			5	6A7, 78, 75, 42, 80	456	4-10,11	
R117 (1171, 1172).....	Vol. Tone	83551 83728 83812	17 17 22	N UC512 K12	6 6			83613 83734 83803	1 4 15	ST595 CM172 BB12		83800	294	C3	6	78, 6A7, 75, 42, 84	177.5	5-1,2
R118 (1181, 1182, 1183).....	Vol. Tone	83728 83812	17 22	UC512 K12	6			83734	4	CM172		83800	294	C3	6	78, 6A7, 41, 75, 84	177.5	6-11
R119, R119A, R119EF.....	Vol.	83728 83812	17 22	UC512 K12	6			83734	4	CM172		83800	294	C3	6	78, 6A7, 41, 75, 84	177.5	6-11
R119, R119A, R119EF.....	Vol.	83424	56	N	6			81347	1	RS213				6	78, 6A7, 85, 42, 80	177.5	4-12,13	
R120 (1201-1209).....	Vol. Tone	83425 83466	56 39	N Y	6			67328 80537	1 15	RS213 BB12				6	78, 6A7, 85, 42, 80	177.5	4-12,13	
R123 (1231-1239).....	Vol.	83959	6	F7	6	3		81347	4	RS213				12	57, 58, 55, 2A5, 56, 80	177.5	4-14,16	
R125, R125A and R125X (1251-1259).....	Vol.	83959	6	F7	6	3		67328 83960	4 1	RS213 WE850				4	6A7, 6F7, 41, 80	456	6-1,5-3	
R126, Series R126A, R126P, R126X (1261-1269).....	Vol. Tone	83959	6	F7	6	3		83962	1/15	2N518				4	6A7, 6D6, 75, 41, 80	456	5-5,6-3	
R127, R127X (1271-1279).....	Vol. Tone	84193	25	N	6			84193	25	RS216				5	6A7, 6D6, 75, 41, 80	456	5-5,6-3	
R128D (Batt. 1281D-1289D).....	Vol. Tone	84289 84279	19 107	TM230-SS1 M		6		84288 84286	25 25, 13	SR644 RM261				7	6C6, 6D6, 75, 42, 76, 80	456	5-9,6-5	
R130 (1301-1309).....	Vol. Tone	84289 84368	19 107	TM230-SS1 M		6		84288 84286	25 25, 13	SR644 RM261				7	6C6, 6D6, 75, 42, 76, 80	456	5-9,6-5	
R131 (1311-1319).....	Vol. Tone	84528 84368	18 57	N M	13			84192 84193	25 25	RS216 RS216				5	6A7, 6D6, 75, 41, 80	456	6-8, 5-15	
R130 (1301-1309).....	Vol. Tone	84739 84942	18 107	N M	6			84193	25	RS216				5	6A7, 6D6, 75, 42, 80	456	6-12	
R131 (1311-1319).....	Vol.	83728	17	UC512	6			84829 83803	4 15	CM172 BB12		84904	294	C3	6	78, 77, 75, 41, 84	177.5	6-13,14

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STEWART-WARNE R CORP. R132 (Firestone R1322)	—Continued Vol. Tone	85215. 85179.	1 44	UC511 Z12	6			85237. 83803. 85216. .005.	1 15 15	CM172 BB12 BB13 Buffer		85243.	289Y	C3	7 [†] 8. 77. 85, 241, 76.	177.5	6-15	
R133 (Firestone 1332)	Vol.	83728.	17	UC512	6			84961. 83803. .03-.03	4 15	CM172 BB12 Buffer	B14	84995.	294	C3	5 6A7, 6D6, 75, 41, 84.	456	6-16	
R134 (1341-1349)	Vol. Tone	85073. 85074.	18 107	M	6			85792. 85793.	25 25	RS216 RS216					6 [†] 6D6, 6A7, 75, 42, 80.	456	6-17, 7-3	
R136 (1361-1369)	Vol. Tone	85073. 85074.	16 107	M N	6			85431. 85430.	25 25	RS216 RS216					7 [†] 6K7, 6A8, 6H6, 6J7, 6F6, 5Z4.	456	6-18, 7-4	
R137 (1371-1379)	Vol. Tone	85073. 85074.	15 57	M N	6			85583. 85584. 85588. 85565. 83803.	31 31 31 18 15	RS216 RS216 WE1830 BB27 BB12					9 [†] 6K7, 6A8, 6H6, 6C5, 2A3, 83V.	456	6-19, 7-5	
R138 (1381-1389)	Vol. B. Tone T. Tone	85073. 85621. 85620.	15 1 57	M MR48 MR53	6			85583. 85584. 85588. 85565. 85692. 83803.	31 31 31 18 14 15	RS216 RS216 WE1830 BB27 BB20 BB12					11 [†] 6K7, 6A8, 6H6, 6C5, 2A3, 6J7, 83V.	456	6-20, 7-6	
R139D	Vol.	84528.	18	N	7										6 1A6, 34, 1B5, 330, Ballast—1G1	456	7-7	
R140 (1401-1409)	Vol.	83551.	18	N	6			84193. 85112.	25 25	RS216 WE1830					5 6A7, 6D6, 75, 42, 80.	456	7-9,10	
R142A, R142AS, (1421-1429)	Vol.	88036.	6	SRP263	6			88033. 88007.	25 25	RS213 RS213					5 [†] 6K7, 6J7, 6F6, 6X5.	456	7-11,12	
R143 (R1431)	Vol.	88171.	17	UM154-SS11	M26			88256. 88170. .01	4 15	CM172 BB12 Buffer	B14	88156.	294SW	C3	6 [†] 6D6, 77, 75, 41, 84.	456	8-15,16	
R144AS (1441-1449)	Vol.	88036.	6	Y	6			88007. 88033. 88512.	25 25 25	RS213 RS213 RS216					5 [†] 6D6, 6C6, 41, 84.	456	7-13,14	
R145 (1451-1459)	Vol. Tone	88487. 88488.	18 57	TRP623 N	6			88511. 85431.	25 25	WE1830 RS216					6 6A8, 6K7, 6H6, 6F5, 6F6, 5Z4.	456	7-15,16	
R146 (1461-1469)	Vol. Tone	88487. 88488.	18 57	TRP623 N	6			88511. 88033. 88576.	25 25 13	WE1830 RS216 RS213 RS203					7 [†] 6K7, 6A8, 6H6, 6F5, 6F6, 5Z4.	456	7-17,18	
R147 (1471-1479)	Vol. Tone	88487. 88488.	18 57	TRP623 N	6			85431. 88033. 88576.	25 25 13	RS216 RS213 RS203					8 [†] 6K7, 6A8, 6H6, 6F5, 6L6, 5Z4, 6G5.	456	8-1,2	
R148 (1481-1489)	Vol. Tone	88487. 88488.	75 41	TRP623 N	6			85583. 88511. 88007. 89053.	25 25 13 19	RS216 WE1830 RS213 BB12					10 [†] 6K7, 6A8, 6H6, 6C5, 6L6, 6G5, 5V4G.	456	8-3,4	
R149 (1491-1499)	Vol.	89118.	20	TRP608	6			85583. 88511. 89186. 88007. 83803. 88256. 88170. .01	54 54 54 13 15 4 15	RS216 WE1830 ST585 RS213 BB12 CM172 BB12 Buffer	B14	88156.	294SW	C3	6 [†] 6D6, 77, 75, 41, 84.	456	7-8	
R160 (1601-1609)	Vol.	88171.	17	UM154-SS11	M26			88256. 88170. .01	4 15	CM172 BB12 Buffer	B14	88156.	294SW	C3	6 [†] 6D6, 77, 75, 41, 84.	456	7-8	
R161D (1611D-1619D)	Vol.	89330.	18	N	7										6 1C7G, 1D5G, 1H6G, 3H4G, 1R1G.	456	8-7,8	
R162D (1621D-1629D)	Vol. Tone	89330. 88488.	18 57	N	7										6 1C7G, 1D5G, 1H6G, 3H4G, 1R1G.	456	8-9,10	
R163D (1631D-1639D)	Vol.	89332.	18	N	6			89147. 89145. 88170. .005.	25 25 19	ST585 Order from Mfr. BB12 Buffer	Mfr. B14	89272.	Order from Mfr.		6 1C7G, 1D5G, 1H6G, 3H4G.	456	9-1,2	
R164D (1641D-1649D)	Vol. Tone	89332. 88488.	18 57	N	6			89147. 89145. 88170. .005.	25 25 19	ST585 Order from Mfr. BB12 Buffer	Mfr. B14	89272.	Order from Mfr.		6 1C7G, 1D5G, 1H6G, 3H4G.	456	9-1,2	
R166	Vol. Tone	88487. 88488.	75 57	TRP623 N	6			88512. 88511. 89755.	25 25 13	RS216 WE1830 BB31					7 6A8, 6K7, 6H6, 6F5, 6F6, 6G5, 5Z4.	456		
R167S, R168 (1671-1689)	Vol.	88036.	6	Y	6			88033. 88007.	25 25	RS213 RS213					5 [†] 6K7G, 6J7G, 6K6G, 6X5G.	456	9-3,4	
R169 (1691 to 1695)	Vol. Tone	89606. 88488.	18 57	MR44 MR48	M26			88512. 88511.	25 25	RS216 WE1830					5 6A8G, 6K7G, 6Q7G, 6K6G, 5V4G.	262	8-11,12	
R171 (1711 to 1719)	Vol.	89953.	18	MR48	M26			89954.	27	2P546.					5 6A7, 6D6, 75, 43, 25Z5.	165	9-5,6	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
STEWART-WARNE R CORP R172 (1721 to 1729)	Vol.	-Continues.	18	MR11	M26			88512	25	RS216					6	6A8G, 6K7G, 6Q7G, 6C5, 6K6G, 5Y4G	262	8-11,12	
	Tone		57	MR18				88511	25	WE1830					7	6A8, 6K7, 6L16, 6F5, 6F6, 6C5, 5Z4	156	8-13,14	
R173 (1731-1739)...	Vol.	88147	75	TRP623	6			88512	25	RS216									
	Tone	88188	57	N				88511	25	WE1830									
R178 (R1781).....	Vol.	110311	17	TM229-SS3				89755	13	BB31		110432	294SW	C3	6	6K7, 6J7, 6Q7, 6F6, 6X5	262		
	Tone	110310	21	Order from Mfr.				110376	1	2S567									
R180 (1801 to 1809)	Vol.	110503	18	MR53	M26			110497	4	2S567	B14				5	6A8G, 6U7G, 6Q7G, 6K6G, 5Y4G	165	9-7,8	
	Tone	110501	57	MR18				112359	4	2S567									
R181 (1811 to 1819)	Vol.	110766	18	MR53	M26			89937	25	WE3050					6	6L7G, 6C5G, 6U7G, 6Q7G, 6K6G	156	9-9,10	
	Tone	110767	57	MR18				110768	25	RS213									
R182 (1821 to 1829)	Vol.	110927	15	TM238-SS1	M26			110377	19	BB12									
	Tone		57	N				112113	19	BB13									
R183 (1831 to 1839)	Vol.	111096	20	TM238-SS1	M26			112108	25	RS213									
								89937	25	WE3050									
R184 (1841 to 1849)	Vol.	111358	20	TM240-SS16	M26			110768	25	RS213									
								110377	19	BB12									
R185 (1851 to 1859)	Vol.	111358	20	TM240-SS16	M26			110377	15	BB12									
								111098	25/19	2S567									
R186 (1861 to 1869)	Vol.	111358	20	TM240-SS16	M26			110377	15	BB12									
								89937	25	WE3050									
R188 (1881 to 1889)	Vol.	112275	17	MR48	M26			111469	15	BB12									
	Tone	112056	22	MR33				110377	15	BB12									
R189	Vol.		18	N	6			112113	15	BB13									
	Tone		57	N				112298	13	BB31									
R190D (1901 to 1909)...	Vol.	112220	17	MR48				112467	13	BB31									
R191D (1911 to 1919)...	Vol.	112061	15	MR48				111469	1	RS216									
	Tone	112057	22	MR33				89937	1/13	WE3050									
R192D (1921 to 1929)...	Vol.	112255	15	MR48				111652	13	BB22									
	Tone	112253	22	MR33	M26			110377	15	BB12									
R304 (3041 to 3049)	Vol.	112614	18	MR48	M26			112476	13	BB22									
202A, B, E.....	Vol.	67457	6	A10MP				112480	15	BB12									
715, 720.....	Tone	67679	22	Z12				112270	27	2P553									
750.....	Vol.		3	F12				56110	22/13	ST585	B14	56265	285AS	C3	5	6A7, 6D6, 75, 43, 25Z5, M19B	165	9-23,24	
801, 802.....	Vol.	39256	81	Y10MP				.01		Buffer						4	1C6, 34, 1F6, 33, 5E1	165	10-47,48
801, 801A, 811, 811A	Vol.	39256	116	Y10MP															
900, 901, 902, 903, 911, 912, 913.....	Vol.	61557	7	Z		See Note A10													
950 Series (AC).....	Vol.		113	SRP245		See Note A80													
971, 972, 973 (DC).....	Vol.		4	Order from Mfr.															
STRAWFIELD—See Electrical Specialties Export Co.																			
STROMBERG-CARLSON 10, 11.....	Vol.		9	SRP260				2-2-2	3	See Note	B1					7	24, 345, 80		1-14,15
	Ham.		30	SRP253															
12, 14.....	Vol.		115	SRP213				2-2-2	3	See Note	B1					10	245, 227, 224A, 380		1-16,17
	Ham.		30	SRP253															
16, 17 (DC).....	Phono.		63			See Note A5													
	Vol.		9	SRP260				1-6	4	See Note	B11					7	245, 227, 224A		3-12
19, 20 (AC).....	Vol.		4	SRP260				2-2-3-3	3	See Note	B1					9	227, 245, 245, 80	175	1-18,21
	Ham.		30	SRP253															
22, 22A.....	Vol.		15	SRP216				2-3-4	3	See Note	B1					10	245, 227, 245, 80	175	2-4,7
	Ham.		30	SRP253															
25, 26 (AC).....	Vol.		9	SRP260				2-2-2	3	See Note	B1					8	24, 345, 80, 27	175	2-8,11
	Ham.		30	SRP253															
27 (AC).....	Vol.	P19458	4	SRP213				2-2-2	3	See Note	B1					10	24, 227, 245, 380	175	2-12,14
	Ham.	P19617	30	SRP253															

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STROMBERG-CAR 29	Vol. Tone Hum.	Continued P22318	15 44 30	N N SRP253	8 6			6-2-1	3	See Note	B1				9	45, 45, 42, 80	175	2-15, 17
33	Vol. Tone	P19617 P23586	15 44	UC514 O	6			P23538	1	CM175		P23466	210		6	78, 6A7, 6B7, 37, 4A1	175	4-3, 6
33A	Vol. Tone	P23586	15	UC514	6			P23538	1	CM175			210		6	78, 6A7, 6B7, 37, 4A1	175	6-14
37	Vol. Tone Hum.	22696 22593 19617	15/15 34 30	MM UC503 SRP253	6			22701	22	CM175					9	45, 45, 45, 80	175	3-3, 4
38, 39, 40, 41 (1st type)	Vol. Tone Hum.	P22546 P22593 P19617	15/15 34 30	MM UC503 SRP253	8 6			4-7-3-3	22	See Note	B1				9	45, 45, 45, 80	175	2-18, 20
38, 39, 40, 41 (2nd type)	Vol. Tone Supp. Hum.	P22546 P22593 P22862 P19617 P23004	15/15 34 30 30 30	MM UC503 SRP266 SRP253 DRP245	8 6			4-7-6-1	22	See Note	B1				10	45, 45, 45, 56, 57, 80	175	3-5, 7
48, 49, 50, 51	B. Tone T. Tone Hum.	P23024 P19617 P23005	44 30 30	M SRP253 DRP245	6			4-5-6-4	1	See Note	B1				11	45, 55, 45, 42A3, 57, 5Z3	175	3-8, 11
52, 54	B. Tone T. Tone Hum.	P23236 P19617 P23005	44 30 30	UC509 SRP253 DRP245	6			4-5-6	3	See Note	B1				12	45, 21H7, 55, 45, 42A3, 57, 27, 5Z3	175	4-7, 9
55, 56	Vol. Tone Hum.	P23696 P23650 P23815	8 34 30	G M SRP265				8-8-4	22	CM175	B3				8	58, 78, 42A5, 55, 21H7, 6A7, 5Z3	175	4-10, 15
58L, 58LB, 58T, 58TB, 58W, 58WB	Vol. Tone	P25507 P25508	17 21	O UC513	6			P25479 P25480 P25510 P24190 P24207	1 13 15 3 15	SR638 RS213 TN111 RM265 BB13				6	61D6, 6A7, 75, 42, 80	465	6-1, 2	
60	Vol. Tone	P24201 P24202	15 34	P H12	6			P24207	15	BB13				7	61D6, 6A7, 6B7, 37, 341, 80	370	5-1, 4	
61 Series (AC)	Vol. Tone	P25507 P25508	18 57	O UC513	6			8-8 10	1 15	2N518 BB12				7	6K7, 6A8, 6116, 6F5, 6F6, 80	465	7-1, 2	
61, 61Y, 61Z (AC-DC)	Vol. Tone	P25507 P25508	18 57	O UC513	6			P25907 P25934 P25459 P25498 P22757 P25757 P25458 P25788 P25459 P24207	1 6 13 15 3 3/13 3 13 13 15	RS207 2N504 BB31 TN111 RS213 RM265 RS216 CS130 BB31 BB12			7	6K7, 6A8, 6Q7, 43, 25Z5	465	7-3, 4		
62, 63, 62B, 63B	Vol. Tone	P25570 P25571	15 22	P P	6			P25757 P25458 P25788 P25459 P24207	3 3 13 13 15	RS213 RM265 RS216 CS130 BB31 BB12			8	6K7, 6A8, 6116, 6F6, 5Z3	465	6-3, 6		
64	Vol. Tone	P24064 P24065	15 34	P UC509	6			16-8-8-4-1	3/13	See Note	B195			8	78, 6A7, 6B7, 37, 42, 5Z3	175	4-16, 20	
65, 66, 67	Vol. Tone	P24346 P22593	8 22	UC501 UC509	6			16-8-8-8-1-1-1-4	3/13/15	See Note	B247			9	78, 6A7, 6B7, 85, 42, 80	465	7-5, 6	
68	Vol. Tone	P24346 P22593	8 22	G UC503	6			16-16-8-8-1-1-1-4	3/13	See Note	B195			10	61D6, 6A7, 76, 6B7, 85, 42, 5Z3	370	5-5, 7	
69 All Wave Selector 70, 70B, 72, 72B, 72D	Vol. Tone	P24848 P24957	1 22	Order from Mfr.	6			24567	1	RM262				4	61D6, 6A7, 76, 84	545	5-11, 14	
74, 74B, 74D	Vol. Tone	P24848 P24957	1 22	Order from Mfr.	6			P24835	1	See Note	B195			13	61D6, 76, 6A7, 6B7, 6C6, 42, 42A3, 5Z3	370	6-7, 13	
80	Vol. Tone	P25570 P25571	15 22	P P	6			8 16 8-4-4	3 3 3/13	RS213 RS216 RM265				8	6K7, 6A8, 6J7, 6116, 6F6, 5Z3	465	7-7, 9	
82, 82B	Vol. Tone	P22767 P22769	20 22	TM244-SS1 P	6			P22757 P22789 P22758 P22758 P22759 P22760 P24207	3 3 3 3 13 14 15	RS213 RS213 RS213 RS216 RM265 BB19 BB12			10	61D6, 6A7, 76, 42, 5Z3	465	6-15, 18		
83, 83B	Vol. Tone	P22767 P22769	20 22	TM244-SS1 P	6			P22757 P22789 P22758 P22758 P22759 P22760 P24207	3 3 3 3 13 14 15	RS213 RS213 RS216 RM265 BB19 BB12			10	6K7, 6A8, 6C5, 6116, 6F6, 5Z3	465	6-19, 22		
84, 84B	Vol. Tone	P22767 P25807	20 22	TM244-SS1 P	6			P22757 P22789 P22758 P22759 P22760 P24207	3 3 3 13 14 15	RS213 RS213 RS216 RM265 BB19 BB12			12	6K7, 6A8, 6C5, 6116, 6J7, 6F6, 5Z3	465	7-11, 13		

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STROMBERG - CAR 115	LSON - Vol. Tone	Continued																
		P25507	17	O				P26049	1	RM262		P26028	245	C3	7	34, 1C6, 1B5, 30, 149	465	7-14,15
125 (AC-DC)	Vol.	P26033	57	N				P25480	13	RS203					5	6A8, 6K7, 6Q7, 43, 25Z5	465	7-16,18
		P26114	18	O				.005		Buffer	B14							
126 (AC-DC)	Vol. Sen.	P26114	124	O				26162	6	RS207					7	6K7, 6A8, 6Q7, 143, 25Z5	465	8-1,3
		P26095	1				26163	6	RS208									
127 (AC-DC)	Vol. Sen.	P26114	124	O				26164	13/15	3S582					8	6K7, 6A8, 6Q7, 148, 25Z5	465	8-4,6
		P26095	1				26163	1	RS208									
130 Series	Vol. Sen.	P26114	15	N				26164	13/15	2N500/BB15					7	6K7, 6A8, 6I16, 6F6, 6F5, 80	465	7-19,22
			1				26403	1	WE3050									
140 Series	Vol. Sen.	P26114	17	N				25458	1	RS216					9	6K7, 6A8, 6Q7, 6E5, 6F6, 5Z3	465	8-15,17
			1				24207	15	BB12									
145 Series	Vol. Tone	P26077	17	TM240-SS1				22757	3	RS213					10	6K7, 6J7, 6A8, 6Q7, 6E5, 6L6, 5Z3	465	7-23,26
			39				22789	3	RS213									
150	Vol. Fid.	P26077	20	TM240-SS1				25458	3	RS216					12	6K7, 6J7, 6A8, 6I16, 6L6, 6E5, 5Z3	465	8-7,10 9-2,5
		P26439	1	Order from	Mfr.			26693	13	BB60								
160	Vol. Tone	P26077	20	TM240-SS1				24207	15	BB12					14	6K7, 6J7, 6A8, 6I16, 6E5, 6F6, 6L6, 5Z3	465	8-10,14
		P26485	21	Order from	Mfr.			25498	15	TN111								
180	Vol. T. Tone B. Tone	P26077	17	TM240-SS1				22757	3	RS213					17	6K7, 6J7, 6A8, 6I16, 6E5, 6F6, 6L6, 5Z3	465	8-18,21 9-7,9
		P26485	21	P				26510	3	RS216	B12							
225 (AC-DC)	Vol. Tone	P26798	15	O				26773	3	RS216					5	6A8, 6K7, 6Q7, 25A6G, 25Z6G	465	8-22,24
			57	MR53		M26		26162	6	RS207								
228	Vol. Tone	P27610	17	TM243-SS1				26164	13/15	2N500/BB15					6	6A8, 6K7, 6Q7, 6G5, 6F6G, 5Y4G	465	8-25,26
		P27637	1	MR50		M26		27552	1	RM262								
229P	Vol. Tone Sen.	P27610	20	TM243-SS1				27553	13	RS216					7	6K7, 6A8, 6I16, 6F5, 6F6, 80	465	8-27,30
		P27311	1	MR50		M26		27554	13	BB34								
230 Series	Vol. Tone	P26095	1					27619	15	TN111					7	6A8, 6K7, 6I16, 6G5, 6F5, 6F6, 5Y4G	465	8-31,36
			1					26403	1	WE3050								
231 Series	Vol. Tone	P27610	20	TM243-SS1				25458	1	RS216					7	6A8, 6K7, 6I16, 6G5, 6F5, 6F6, 5Y4G	465	8-34
		P27311	1	Y1000MP		6		26880	13	RS216								
235II, IIB, L, LB	Vol. Tone	P27610	20	TM243-SS1				27554	13	BB34					8	6A8, 6J5, 6K7, 6I16, 6I18, 6F6, 6U5, 5Y4G	465	9-13,16
		P27311	22	O		6		24207	15	BB12								
240	Vol.	P27569	20	DTM289-SS1				27122	1	WE3050					11	6K7, 6A8, 6I16, 6CS, 6G5, 6F5, 6F6, 5U4G	465	9-19,24
			1					27123	1	RS216								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
STROMBERG-CAR 245L, LB, M, MB, R, RB, P, PB...	Vol.	P27569	20	DTM289-SS1				27622	3	WE1660				11	6K7, 6A8, 6J5, 6B8, 6H6, 6F5, 6C5, 76F6, 6U5, 5U4G	465	9-26,30	
250	Vol.	P27569	20	DTM289-SS1				27336	3	WE1650				13	6K7, 6A8, 76J7, 6B8, 6G5, 6H6, 6F5, 6C5, 76L6, 5U4G	465	8-37,30	
255	Vol.	P27569	20	DTM289-SS1				27537	3/13	3S581				13	6K7, 6A8, 76J7, 6B8, 6G5, 6H6, 6F5, 6C5, 76L6, 5U4G	465	8-37,30	
260	Vol. Tone	P28389 P27897	124 22	TR1621			See Note A5	27123	14	RS216				16	6K7, 6A8, 76J7, 76H6, 6G5, 6Q7, 6C5, 76L6, 5U4G	465	9-31,38	
320	Vol.	26114	15	O				25498	15	TN111				5	6A8, 6K7, 6Q7, 6V6G, 80	155	10-9	
325	Vol.		15	MR53	M26			27753	30	RS213				5	6A8, 6K7, 6Q7G, 6V6G, 80	155	10-13	
335	Vol. Tone		45	†			A19	27751	30	RS216				7	6A8, 6K7, 6H6, 6F5, 6F6G, 6U5, 80	155	10-17	
337	Vol. Tone	P29518	124	MR53				27755	30	RS216				7	6K8, 6K7, 6H6, 6F5, 6F6G, 6U5, 80	155		
340	Vol. Tone	P27610	124	TM243-SS1				27757	13	2N516				9	6A8, 6K7, 6H6, 6F5, 6C5, 76V6G, 6U5, 80	455		
341	Vol. Tone	P27610	124	TM243-SS1				27756	13	WE1830				9	6A8, 6K7, 6H6, 6F5, 6C5, 76V6G, 6U5, 80	455		
345	Vol. Tone	P27610	124	TM243-SS1				27759	15	TN111				10	6K8, 76K7, 6H6, 6F5, 6C5, 76V6G, 6U5, 80	455		
350	Vol.	27569	124	DTM289-SS1				28256	30	WE851				11	76K7, 6A8, 6F8G, 6H6, 6B8, 6C5, 76F6, 6U5, 5Z3	155		
360	Vol.		20	†			See Note A19	28257	30	WE1650				12	76K7, 6A8, 6F8G, 6B8, 6H6, 6R7, 6N7, 76F6, 6U5, 5Z3	155	10-37	
370	Vol.		20	†			See Note A19	28258	30	WE1650				14	76K7, 6A8, 6F8G, 76H6, 6R7, 6F5, 6C5, 76L6, 6U5, 5Z3	155	10-40	
400	Vol.	30136	18	MR48				28259	13	RS216				5	6A8G, 6K7, 6SQ7, 6V6G, 80	455		
402	Vol.	31026	18	MR53	M27			28260	13/15/19	3S579/BB13	B130			4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	11-3,4	
405	Vol.	30136	18	MR48					1	RS216	B130			5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z5GT	455		
410	Vol.	30136	18	MR48					1	RS216	B130			5	6A8G, 6K7, 6SQ7, 6F6G, 80	455	11-7,8	
411	Vol.	29560	18	TM240-SS1					1	RS216	B130			5	6A8G, 6K7, 6SQ7, 6F6G, 80	455		
412H, 412HB	Vol.		127	MR53					1	RS216	B130			6	6A8, 6J5, 6K7, 6B8, 6K6G, 80	455	11-11	
420	Vol. Tone	30136 29560	75 124	MR48 TM240-SS1					1	RS216	B130			7	6A8G, 6K7, 6H6, 6SQ7, 6F6G, 80	455		
425	Vol. Tone	27311	127	MR53	M26				1	RS216	B130			8	6SA7, 76AC7/1852, 6SJ7, 6H6, 6SF5, 6F6G, 80	2100		
	Vol. Tone		114	MR48 MR53	M26				1	RS216	B130							

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
STROMBERG-CARLSON	Vol. Tone	29560	75	TM240-SS1				30499	1/13	FPT383					9	6A8, 6K7, 6H6, 6SQ7, 6V6G, 80, 6AF6G	455		
		27311	1	MR53	M26			27685	15	BB15					16	6A8, 6K7, 6H6, 6SA7, 6AC7, 6SJ7, 6SK7, 6SQ7, 6V6G, 6AF6G, 80	455/2100		
435	Vol. Tone	29560	127	TM240-SS1				30499	1/13	FPT383									
		27311	1	MR53	M26			27685	15	BB15									
440	Vol. Tone	30249	121	SM308				30499	1/13	FPT383					10	6A8, 6J5, 6K7, 6H6, 6SQ7, 6V6G, 80, 6AF6G	455		
		30566	22	MR53				27685	15	BB15									
450	Vol.	30249	124	SM308				30539	1	Order from Mfr.					11	6K7, 6A8, 6J5, 6H6, 6SQ7, 6V6G, 5Z3, 6AF6G	455		
								27622	66	WE1660									
455	Vol. Tone	31534	124				A19	30231	66/13	FPD234					12	6SK7, 6SA7, 6AC7, 6H16, 6SJ7, 6SC7, 6V6G, 5Z3, 6U5	455/2100		
		31535	1	MR55	M26			31531	3/13	FPQ439	Mfr.								
460	Vol.		20				A19	16, 16, 16	30	WE1660					12	6K7, 6A8, 6F8G, 6B8, 6H6, 6R7, 6N7, 6F6, 6U5, 5Z3	455	10-37	
								16	13	RS216									
470	Vol.		20				A19	4-4-10	13/15	3S579									
								8, 8	30	WE860						14	6K7, 6A8, 6F8G, 6H16, 6R7, 6F5, 6CS, 6L6, 6U5, 5Z3	455	10-40
480	Vol.	30249	20	SM308				16	30	WE1660									
								16	30	WE1835									
500 (AC-DC)	Vol.	31694	18	MR53	M26			4-4-8-12-12	13	WE1830									
								12-12	2	Order from Mfr.						20	6SK7, 6F8G, 6SA7, 6K7, 6H16, 6SJ7, 6R7, 6C8G, 6SQ7, 6L6, 5Z3, 6AF6G	455/3000	
505	Vol. Tone	30136	76	MR48				31405	37	WE860									
		27311	114	MR53	M26			31495	37	SR615	B8								
509	Vol. Tone	29560	121	TM240-SS1				31406	13	WE1830									
		30566	1	MR53				31335	13/15	FPQ414									
515	Vol. Tone	29560	121	TM240-SS1				30539	1	Order from Mfr.									
		27311	1	MR53	M26			31682	46	FPT357									
520 (Series)	Vol. Tone	29560	18	TM240-SS1				30399	1 13/15	FPQ429									
		32821	22	MR53	M26			31405	37	WE860									
530 (Series)	Vol. Tone	29560	20	TM240-SS1				31495	37	SR615	B8								
		32821	22	MR53	M26			31406	13	WE1830									
535	Vol. Tone	29560	20	TM240-SS1				31335	13/15	FPQ414									
		32821	22	MR53	M26			30539	1	Order from Mfr.									
585	Vol.	30249	20	SM308				31682	46	FPT357									
								31405	37	WE860									
635 (DC)	Vol.		3	SRP961		Front		31495	3	SR615	B8								
			10	SRP901		Rear		31406	13	WE1830									
635, 636	Vol.		3	SRP961		Front		31335	13/15	FPQ414									
			10	SRP901		Rear		4-1	1	See Note	B11								
638 (AC)	Vol.	P18422	3	SRP961		Front		4-1	1	See Note	B1								
		P18421	10	SRP269		Front		4-1	1	See Note	B11								
638 (DC)	Vol.		3	SRP961		Front		4-1	1	See Note	B11								
			10	SRP269		Rear		2-1-2-1	3	See Note	B1								
641	Vol.		8	SRP960		Front		2-1-2-1	3	See Note	B1								
			3	SRP900		Rear		2-2-2-2	3	See Note	B1								
642	Vol.		8	SRP960		Front		2-1-2-1	3	See Note	B1								
			3	SRP900		Rear													
652, 654	Vol.		8	SRP960		Front													
			3	SRP900		Rear													
846, 848	Vol.		115	SRP962		Front													
			3	SRP900		Rear													
STUDEBAKER LAB	Vol.		6	D12				8-8	1	CM172					5	51, 24A, 47, 80		§3-8	
			6	Y				8-8	1	CM172					7	51, 27, 24A, 47, 80			
SUNGLOW	Vol.		40/12	GE				†	†	See Note	B1				†				

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
SUPERTONE PRODUCTS CO., INC.																		
Superba L5	Vol. P660 Tone P661	17 18 34	N N L		6			8-16 P474 P160 P304 P474 P160 P304 P391	4 32 32 15 32 32 15 1	See Note WE450 2N518 BB12 WE450 2N518 BB12 2N516	B3				7 7 8	57, 58, 2A5, 56, 2A6, 80 3Z4, 6F5, 6F6, 6116, 6K7, 6L7, 6C5 5Z4, 6C5, 6F6, 6K7, 6L7, 6Q7	465 456	\$5-21
L6	Vol. P660 Tone P661	18 44	N L		6			P391 .01-.01 P391	1 1	Buffer 2N516	B14	P402	245C	C3	7	1C6, 19, 330, 334	456	
L7	Vol. P691 Tone P682	45 44	SRP275 L		7			.01-.01 P391	1	Buffer 2N516	B14	P402	245C	C3	6	1C6, 19, 330, 32, 34	456	
Z4	Vol. P680 Tone P682	44 44	L L		7			.01-.01 P958	1	Buffer 2N518	B14	P402	245C	C3	6	1C6, 19, 330, 32, 34	456	
Z5	Vol. P691 Tone P962	45 44 18	SRP275 L L		7			.01-.01 P958	1	Buffer 2S567	B14 B33				5	6A7, 6D6, 75, 42, 80	456	\$5-20
SYNCHROPHASE (See A. H. Grobe & Co.)																		
L. TATRO PRODUCTS CORP.																		
AK54 (Mayor)	Vol. P660 Tone P661	17 44 15	N N MR48					10 16 8 10 5 .005 41.5 41.11 16 8 10 5	15 1 1 15 15 15 1 1 15 15	BB12 BB44 BB41 BB12 BB11 Buffer BB12 BB12 BB44 BB41 BB12 BB11 Buffer RS213 BB12 BB12 Buffer BB61 BB64 BB12 Buffer		744	C3	6	6A7, 78, 75, 338 6D8G, 6S7G, 6T7G, 41, 6E5, 6ZY5G	175 456	5-1 10-6	
AQ69	Vol. P660 Tone P661	15 21	MR48 L			See Note A5		.005 41.5 41.11 16 8 10 5	15 1 15 1 15 15	Buffer BB12 BB12 BB44 BB41 BB12 BB11 Buffer	B14			6	77, 78, 75, 338 6D8G, 6S7G, 6T7G, 41, 6E5, 6ZY5G	456	6-2 10-6	
A525, B525	Vol. 10L1 Tone 10L11	17 22 15	N N MR48		6			.005 41.3 41.5 41.11 .005 8 16 5 .005	17 22 15 1 1 15 15	Buffer BB12 BB12 BB12 Buffer BB61 BB64 BB12 Buffer	B14	15L2	F251	C3	6	78, 6A7, 75, 38, 84	177.5	6-4
BQ69	Vol. 10L1 Tone 10L11	17 22 15	N N MR48		6			.005 41.3 41.5 41.11 .005 8 16 5 .005	17 22 15 1 1 15 15	Buffer BB12 BB12 BB12 Buffer BB61 BB64 BB12 Buffer	B14		245	C3	7	6A8G, 6S7G, 6T7G, 6L5G, 6Z7G, 6ZY5G, 6E5	456	9-1,2
C625, D625	Vol. 10L1 Tone 10L11	17 22	N N		6			.005 41.3 41.5 41.11 .005 8 16 5 .005	17 22 15 1 1 15 15	Buffer BB12 BB12 BB12 Buffer BB61 BB64 BB12 Buffer	B14	15L2	F251	C3	6	78, 6A7, 75, 38, 84	177.5	6-4
CQ69, DQ69	Vol. P660 Tone P661	17 57	MR48 L			See Note A5		.005 41.3 41.5 41.11 .005 8 16 5 .005	17 57 1 1 15 1 1 15	Buffer BB61 BB64 BB12 Buffer BB61 BB64 BB12 Buffer	B14		245	C3	7	6A8G, 6S7G, 6T7G, 6L5G, 6Z7G, 6ZY5G, 6E5	456	9-1,2
E83	Vol. P660 Tone P661	117 41	E12 N					6N-2 6N-1 .005 16 8 10 5	1 19 1 1 15 15	2N518 BB12 Buffer BB44 BB41 BB12 Buffer		F204		8	44, 37, 338, 85			
EN64	Vol. P660 Tone P661	56 57	MR48 MR48		M26			.005 6N-1 6N-1 .005 16 8 10 5	1 19 1 1 15 15	2N518 BB12 Buffer BB44 BB41 BB12 Buffer		246	C3	4	1C6, 1A4, 1B5/25S, 1F4	457	7-1	
EQ39	Vol. P660	15	MR53					.005 6N-1 6N-1 .005 16 8 10 5	1 19 1 1 15 15	2N518 BB12 Buffer BB44 BB41 BB12 Buffer	B14			6	6A7, 78, 75, 41, 84, 6E5	456	10-1	
F725	Vol. 10L1 Tone 10L11	17 34	N N		6			.01-.01 41.3 41.4 41.14 41.5 41.11 .005	1 1 1 15 15 15	Buffer RS213 RS216 2-BB19 BB12 BB12 Buffer	B14	15L2	F251	C3	7	78, 6A7, 75, 41, 84	177.5	6-6
F913	Vol. P660 Tone P661	117 41	E12 N					.005 6N-1 6N-1 .005 16 8 10 5	1 1 1 15 15	Buffer RS213 RS216 2-BB19 BB12 BB12 Buffer	B14		F204		8	41, 85, 41, 37		4-4
FQ39	Vol. P660 Tone P661	15	MR53					.005 6N-1 6N-1 .005 16 8 10 5	1 1 1 15 15	Buffer RS213 RS216 2-BB19 BB12 BB12 Buffer	B14		F204	C3	6	6A7, 78, 75, 41, 84, 6E5	456	10-1
H465, I465	Vol. 10L1 Tone 10L11	17 22	N N		6			.01-.01 41.1 41.5 41.11 16 8 10 5	1 1 15 15 1 15 15	Buffer RS203 BB12 BB12 BB44 BB41 BB12 BB11 Buffer	B14		271		4	115, 75, 38	456	6-1
HQ39	Vol. P660	17	MR48					.01-.01 41.1 41.5 41.11 16 8 10 5	1 1 15 15 1 15 15	Buffer RS203 BB12 BB12 BB44 BB41 BB12 BB11 Buffer	B14		Order from Mfr.		8	6A7, 78, 75, 37, 42, 6E5, 84	456	10-2
IN25	Vol. P660 Tone P661	18 57	MR48 MR48					.02-.02 6N-4 6N-5 6N-1 .02-.02 41.1 41.5 41.6 10 41.1 41.5 41.6	1 15 15 15 1 15 19 15 1 15 19	2N518 BB12 BB12 Buffer RS203 BB12 BB15 BB15 RS203 BB12 BB15 BB15 Buffer	B14		F251	C3	5	6A7, 78, 75, 38, 84	457	7-2
J665	Vol. 10L1 Tone 10L11	17 22	N N		6			.02-.02 41.1 41.5 41.6 10 41.1 41.5 41.6	1 1 15 19 15 19	Buffer RS203 BB12 BB15 BB15 RS203 BB12 BB15 BB15 Buffer	B14	15L1	271		6	115, 6A7, 75, 30, 19	177.5	6-5
K54	Vol. P660 Tone P661	17 17	N N		6			.02-.02 41.1 41.5 41.6 10 41.1 41.5 41.6	1 1 15 19 15 19	Buffer RS203 BB12 BB15 BB15 RS203 BB12 BB15 BB15 Buffer	B14	15L1	271		4	77, 78, 75, 38	175	4-2
K665	Vol. P660 Tone P661	17 22	N N		6			.02-.02 41.1 41.5 41.6 10 41.1 41.5 41.6	1 1 15 19 15 19	Buffer RS203 BB12 BB15 BB15 RS203 BB12 BB15 BB15 Buffer	B14	15L1	271		6	115, 6A7, 30, 75, 19	177.5	6-5
L54	Vol. P660 Tone P661	17 41	N N					.02-.02 41.1 41.5 41.6 10 41.1 41.5 41.6	1 1 15 19 15 19	Buffer RS203 BB12 BB15 BB15 RS203 BB12 BB15 BB15 Buffer	B14		F211		4	78, 6A7, 75, 41	177	4-3

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
L. PATRO PRODUCTIONS L74 (L. Governor)	Vol. Tone	P. -Continued	17	N				8	1	BB31			F251	C3	7	6A7, 78, 75, 41, 84	175	5-2
			41	N					16	1	BB31							
L525	Vol. Tone	10L3	15	O				10	15	BB12					5	6A7, 78, 12A7, 48	156	6-3
			22	L	6				10	15	RS203		25L25	285XS	C22	5	77, 78, 75, 38	456	4-2
M54	Vol. Tone	10L1	18	N				4L1	1	Buffer	B14			4	6A7, 15, 75, 33	456	8-1	
M4616	Vol. Tone	10L11	57	N		6		.005	1	Buffer	B14							
			17	N					8	1	BB31			F211	5	6A7, 78, 75, 41	177	4-3
N54	Vol. Tone		41	N				16	1	BB31								
			41	N					20	1	2-BB19	B196						
N74 (Governor)	Vol. Tone		17	N				8	1	BB31			F251	C3	7	78, 6A7, 75, 41, 84	175	5-2
			41	N					16	1	BB31							
NH44	Vol. Tone		17	N				10	15	BB12					5	77, 78, 75, 38	175	4-2
			17	MR48	M26				8-8	1	2N518		216		C3	5	6S7G, 6D8G, 6T7G, 41	175	10-4
NO65	Vol. Tone		10	N				10	15	BB12								
			10	N					.005	1	Buffer	B14						
O84	Vol. Tone Supp.		17	N				8	1	BB31			F211	8	78, 6A7, 75, 41, 37	177	4-3	
			41	N					16	1	BB34							
O94 (President)	Vol. Tone Supp.		7	J		EX800		10	15	BB12								
			7	J		EX800			20	1	2-BB19	B196						
O4626	Vol. Tone	10L1	18	N				4L1	1/13	RS203			285XS	C22	4	6A7, 15, 75, 33	456	7-3
			57	N		6			Buffer		B14							
OO65	Vol. Tone	10L11	17	MR48		M26		8-8	1	2N518			216	C3	5	6S7G, 6D8G, 6T7G, 41	175	10-4
			17	N					10	15	BB12							
P54	Vol. Tone		17	N				.005	1	Buffer	B14							
			17	N					8-8	1	See Note	B3		F251	C3	5	6A7, 75, 78, 38, 84	177.5	5-4
P4626	Vol. Tone	10L1	18	N				10	15	BB12								
			17	N		6			10	15	2-BB14	B196						
Q5636, R5636, S5636	Vol. Tone	10L11	57	N				4L1	1/13	RS203			285XS	C22	4	6A7, 15, 75, 33	456	7-3
			17	O					.01	1/13	Buffer	B14						
SP67	Vol. Tone		15	MR48				4L1	1/13	RS203			285XS	C22	5	15, 6A7, 75, 33	456	7-4
			57	MR48		6			4L6	15	BB15							
T6216	Vol. Tone		17	N				16	1	BB44			744	C3	7	6A8G, 6S7G, 6T7G, 6L5G, 6Z7G, 6E5, 6ZY5G	456	10-5
			22	N		6			8	1	BB41							
TP67	Vol. Tone		15	MR48				10	15	BB12								
			22	MR48					5	15	BB11							
U5226, V5226	Vol. Tone	10L1	18	N				.005	1	Buffer	B14							
			57	N		6			4L3	5	RS213			F251	C3	5	6A7, 78, 75, 38, 84	456	8-2
W6236, X6236, Y6236	Vol. Tone	10L5	17	O				4L1	13	RS203								
			57	N		6			4L1	13	RS203							
TELEPHONE 5 Tube TRF	Vol. Tone		6	E12		6		4-6	4	RM262					5	24, 47, 80		
			22	K12														
TEMPLE CORP. 8-60, 8-80, 8-90	Vol. Tone		4	E12				1-4-2	3	See Note	B1				9	27, 45, 80		1-1
			4	E12					.15	3	See Note	B9						
8-61, 8-81, 8-91	Vol. Tone		6/16	DRP240				2-4-2	3	See Note	B1				9	15, 27, 24A, 80		1-2
			6/16	DRP240					.15	3	See Note	B9						

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
TIFFANY TONE—(See Herbert H. Horn)																		
TOBE DEUTSCHMAN Browning 35	NN Vol. Sen.		45 7	N G				8, 8 10	1 15	RS213 BB12					8	6K7, 6A8, 6E5, 6C5, 6116, 6P6, 5Z4	456	
TOM THUMB—(See Automatic Radio)																		
TONE MASTER—(See Airking)																		
TRANSFORMER CO. TC1, TC2	RP. OF Vol. Tone	AMERICA 10840 10830	(TCA) 17 22	(Clarion) O M				10140 10850	28 28	RM262 RS213					7	78, 37, 75, 42, 80	262	9-1,2
TC6	Vol.		18	MR48	6			8-4	23	2S567					5	6A7, 6D6, 75, 42, 80	465	8-1,3
C10	Vol.	6210	1	TRP609				8-8	3	RS213	B3				4	6C6, 6B5, 83V		7-1
C16	Vol.	6223	1	N		A4		8-8	3	2N518								
	Vol.	6210	1	TRP609				8, 8	1	RS213	B3				6	6C6, 76, 6A6, 6B5, 83V		7-2
	Vol.	6223	1	N		A4		1	13	CS130								
C17	Vol.	6210	1	TRP609				8, 8	1	RS213	B3				6	6C6, 76, 6A6, 6B5, 83V		7-2
	Vol.	6223	1	N		A4		1	13	CS130								
TC20, TC21	Vol.		56	N	6			9659	1	2N518					5	58, 2A7, 2A6, 2A5, 80	465	5-7,8
	Vol.							1108	13	CS130								
C21	Vol. Tone	6210 6223	1 57	TRP609 N				8, 8, 8	1	RS213	B3				8	6J7, 6C5, 6E6, 83		7-3
	Vol.		18	MR48	M26			5	15	BB12								
TC22, TC23	Tone		22	L				12, 12	4	RS215					7	6D6, 6A7, 76, 42, 80	456	9-3
	Vol.	6210	1	TRP609				5	15	BB12								
C27	Vol. Tone	6210 6223	1 57	TRP609 N				8, 8	2	WF850					8	2A6, 53, 59, 46, 83		7-3
	Vol.		18	MR48				5	15	BB12								
TC28, TC29	Tone		22	L				24, 24	8	BB26					6	6A8, 6K7, 75, 43, 25Z5, 12Z3	465	8-2,3
	Vol.		6			See Note A5		5	15	BB12								
TC30	Vol.		6			See Note A5		12-16	4	2P546					4	6D6, 6C6, 43, 12Z3		5-6
TC31	Vol.	TPE2090	6			See Note A5		TPE2290	6	BB24					5	6C6, 6D6, 43, 12Z3	456	10-1
	Vol.		1	TRP609				TPE2300	6	BB21								
	Tone	6210 6224	1 57	N				TPE2270	15	BB12								
	Vol.		18	MR48	M26			TPE2240	15	BB12								
TC35A, TC35LW	Vol. Tone		18 34	MR48 L	M26			8, 8	4	BB61					5	6A7, 6D6, 75, 42, 80	456	10-2,3
TC36	Vol. Tone		18 22	MR48 MR39				12, 12	4	BB63	B20				6	6A7, 6D6, 75, 43, 25Z5	456	10-4
TC36A, TC36LW	Vol. Tone		45 34	MR48 L	M26			20-12	6	2N509					5	6A7, 6D6, 75, 43, 25Z5	456	9-4
TC37	Vol. Tone		7 22	D MR39				20-12-8	8	TN125					8	6A7, 6D6, 85, 43, 25Z5	456	9-5
	Vol.		18	MR48				25-12	6	BB12								
TC37A, TC37LW	Vol. Tone		41 18	MR39 MR48				20	12	2N514					8	6D6, 6A7, 85, 43, 25Z5	456	10-5
TC38	Vol. Tone		18 22	MR48 L				12-20	6	BB25					6	6A7, 6D6, 75, 43, 25Z5	456	9-6
	Vol.		45	MR48				4	13	BB20								
TC39	Vol. Tone		34 34	MR48 L				10-10	15	TN111					7	6D6, 6A7, 76, 42, 80	456	8-7,8
TC39A, TC39W	Vol. Tone		45 34	MR48 L				12, 12	4	RS215					7	6D6, 6A7, 76, 42, 80	456	9-7
40	Vol.		8	A5MP	6	1		1-4	25	See Note	B1				5	51, 21A, 47, 80		1-1,2
TC40	Vol.		6	G12				4-4	4	CM170					5	6D6, 6C6, 42, 80		5-9
	Vol.		5					5	19	BB11								
TC42, TC43, TC44	Vol. Tone		45 44	MR48 L	M26			12, 12	1	ST596					10	6K7, 6A8, 6116, 6C5, 445, 6125, 80	456	8-4,5
TC50	Vol.		18	UM154	M26		A96	6-6	1	2N518			294 296	C20 C20	6	78, 77, 75, 41, 81	175	5-10
	Vol.		12	Y	8			.015	15	BB15								
AC51, 53, 55	Vol.		6	G12	6			1-1.5-1-1.5	37	Buffer	B14				8	24A, 227, 45, 80		1-3,4
TC52	Vol. Tone		3 3	G12 G12				1295	8	See Note	B1				5	77, 78, 43, 25Z5	115	5-9
TC53A	Vol. Tone		45 41	MR48 L	M27			928	15	BB15					10	6D6, 6A7, 76, 445, 5Z3	456	9-8
	Vol.		7	A3MP				5	15	BB12								
AC60 (25-60)	Vol.		12	Y	6			1.5-1.5-5	3	See Note	B1				6	21A, 445, 80		1-5,6
TC60	Vol. Tone		7 22	G G				TCG1018	6	UR182	B3				6	6A7, 6D6, 75, 43, 25Z5	456	5-11,12
	Vol.		6	H12				TCG1019	13	BB31								
AC61 (25-60)	Vol.		18	MR48	M27			TCG1020	15	TN111					6	24, 445, 80		1-7,8
TC65	Vol. Tone		44	L				1.5-1.5-1	3	See Note	B1				6	24, 445, 80		1-7,8
	Vol.		18	MR48	M27			25-12	6	2N512					10	6K7, 6A7, 85, 43, 25Z5	156	8-4,6
	Vol.		44	L				20	12	BB25								

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MANUFACTURER AND MODEL	CONTROLS								CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
TRANSFORMER CO. TC66	RP—Co. Vol. Tone	continued	18 22	MR48 L				12-20 4	6 13	2N509 BB20				6	6A7, 6K7, 75, 43, 25Z5	456	10-6		
AC70	Vol. Tone		6	H12				10-10	15	TN111				7	24, 27, 45, 80		1-7,9		
TC75, TC76	Vol. Tone		15 34	MR48 MR39	M26			1.5-1.5-1	3	See Note BB63	B1			6	6A8, 6K7, 6116, 6F5, 6F6, 80	456	10-6		
AC80, 81	Vol. Tone		8	G				8	25	RS213				7	51, 24A, 47, 27, 80	175	1-10,12		
AC84, 85	Vol. Tone		8	G				2-2-2.5	28	See Note	B1			7	51, 24, 27, 47, 80	175	2-1,4		
88	Vol. Tone		34	H12	6			2-2-2.5	28	See Note	B1			7	51, 27, 24A, 47, 80	175			
AC90, 90A, 91, 91A, (25-90, 25-91)	Vol. Tone		8	A400P				8, 8	28	RS213				8	35, 24A, 27, 47, 80	175	1-10,12		
92, AC94 (25-94)	Vol. Tone		34	H12	6			8, 8	28	RS213				8	27, 51, 24A, 47, 80	175	2-2,6		
AC100 Series	Vol. Tone		8	A5MP	6			1-1-1	26	See Note	B1	P4763		6	35, 24A, 47, 80	175	2-7,10		
100AR	Vol. Tone		15	L				P4767	4	CM172			294	5	6A7, 78, 6B7, 89, 6Z4	465	5-1		
120-139	Vol. Tone		8	G				2-2-2.5	28	See Note	B1			7	51, 24A, 47, 27, 80	175	2-11		
AC160 (25-160), 160AVC	Vol. Tone		8	A1MP	6			8, 8	28	RS213				10	51, 27, 47, 80	175	3-1,2		
AC220 (25-220)	Vol. Tone		44	L	6														
AC240	Vol. Tone		8	A5MP				1-1-1	26	See Note	B1			6	35, 57, 47, 24A, 80	175	3-5,7		
241	Vol. Tone		22	L	6			2-2-2.5	28	See Note	B1			8	24A, 51, 56, 58, 27, 47, 80	490	2-12, 4-1		
AC260	Vol. Tone		15	UC503				2-2-2.5	28	See Note	B1			8	51, 56, 27, 47, 80, 57	175	5-2		
AC280 (25-280)	Vol. Tone		22	L	6			8	26	See Note	B3			10	51, 57, 27, 56, 47, 80	175	4-2,3		
AC300	Vol. Tone		15	UC503				8	26	See Note	B3			12	51, 27, 57, 56, 46, 80	175	3-8,9		
AC320	Vol. Tone		22	L	6			6-8	34	See Note	B3			14	58, 56, 46, 82	175	4-4		
AC340	Vol. Tone		6	TRP606															
360	Vol. Tone		20	G12				8-4	23	CM172				5	57, 58, 47, 80	175	4-5		
400 AC-DC	Vol. Tone		15	UC503				P4514	23	CM175				8	58, 57, 56, 47, 80	175	4-6		
AC420	Vol. Tone		22	L	6			P4514	23	CM175				10	58, 57, 56, 46, 82	175	5-3		
422, 423, 425	Vol. Tone		21	L	6														
440	Vol. Tone		7	H				8-8	6	2N518				5	39, 36, 38, 25Z5				
450	Vol. Tone		17	N				5-5	15	TN111									
470, 472	Vol. Tone		17	N				2-16-8	11	UR182	B31			5	6A7, 78, 75, 43, 25Z5		3-10		
480	Vol. Tone		98	J				10	15	BB12				5	6A7, 78, 77, 43, 25Z5	465	4-7,8		
480	Vol. Tone		98	J				P4633	11	BB21									
490	Vol. Tone		56	N				P4717	11	BB22									
500	Vol. Tone		17	N				P4632	11	BB21									
TRANSITONE—See Philco Radio & Television Corp.								P4709	11	UR182	B31			1	6A7, 77, 43, 25Z5	465	4-9		
TRAV-LER RADIO & TELEVISION CORP.								P4737	29	UR190	B72			6	78, 6A7, 85, 43, 25Z5	465	4-10		
AC-SG-DX	Vol. Screen		6	G12				P4443	23	CM172				6	58, 2A6, 47, 56, 80	465	4-11		
B70, B71	Vol. Screen		12	A5MP				P4724	15	BB12				10	58, 56, 59, 52, 3	465	4-12		
B712	Vol. Screen		12	MR53				P4514	34	CM175				8	58, 55, 53, 56, 80	175	5-4		
B712	Vol. Screen		12	MR53				P4585	15	TN113				7	34, 1A6, 30, 19	175	5-5		
C, FB73	Vol. Screen		12	A5MP															
K, S8	Vol. Screen		6	E12															
S9	Vol. Screen		8	G															
SG-AC-Super	Vol. Screen		41	K12															
SG-DC	Vol. Screen		100	L				4-2	4	See Note	B1			9	35, 27, 47, 80, 24	175	3-2		
SG-DX	Vol. Screen		41	N				4-2	4	See Note	B1			9	35, 27, 47, 24, 80		3-2		
Trav-Lette	Vol. Screen		100	L															
	Vol. Screen		41	N															
	Vol. Screen		12	Y50MP				8-8	3	See Note	B11			7			3-2		
	Vol. Screen		6	G12				2-1-1	3	See Note	B1			6	24A, 45, 80		1-2		
	Vol. Screen		6	L				4-4	4	CM170				4	51, 24A, 47, 80		1-2		

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
TRAV-LER—Continued																		
5-Tube AC-DC Superhet	Vol.		6	H12				20-12-5	27/19	UR182				4	6A7, 6C6, 43, 25Z5	456	10-1	
5-Tube AC-DC TRF	Vol.		6	MR35	M26			20-12-5	27	2P519				4	6D6, 6C6, 43, 25Z5		11-1	
5-Tube Battery Receiver	Vol.		18	MR48				8-8 .005	1	2N516 Buffer	B14		246	5	1C6, 1A4, 75, 30, 19	456	8-2	
6-Tube Auto	Vol.		17	UM154		See Note	A96	8-8 .008	15	2N518 BB12 Buffer	B14		850	6	6D6, 6A7, 75, 41, 84	262	10-3	
6-Tube Battery or AC	Vol.		45	MR48				12-12 10 .012-.012	1 15	2S568 BB12 Buffer	B14		850	6	6K8, 6S7G, 6T7G, 6L5G, 6G6G, 6Z554	456	10-4 3-1	
6 Tube TRF	Vol. Tone Screen		6 34 12	E12 K12 A5MP				2-1-1	30	See Note	B1 B1			6	26, 24, 45, 80			
7-Tube AC-DC	Vol.		17	MR48	M26			20-12-5	4/15	UR182				6	6A7, 6D6, 75, 25B6G, 6G5, 25Z5	456	11-1	
8-Tube Batt. or AC	Vol.		18	MR48				16, 16 10 .012-.012	1 15	RS216 BB12 Buffer	B14		850	8	6T7G, 6K8, 6S7G, 6L5G, 6Z7G, 6N5, 6Z55G	456	10-4	
8 Super	Vol. Tone		8 41	G N				8-8-2	30	See Note	B14 B3			8	51, 21A, 27, 47, 80			
11-Tube AC Superhet	Vol. Tone		75 41	MR48 H12	M26			12, 12 20	1 15	RS215 BB14				11	6K7, 6A8, 6H6, 6G5, 6F5, 6F6, 380	456	10-1	
41	Vol.		6	H12		EX200		12-16	27	2P546				4	6D6, 6C6, 43, 25Z5		6-1	
42F Air Chief	Vol.		6	H7	6			16-10	23	2P546				4	6D6, 6C6, 43, 25Z5		9-2	
46R	Vol.		6	H12		EX200		12-16	27	2P546				4	6D6, 6C6, 43, 25Z5		6-1	
50A	Vol.		6	H12		EX200		16-12	27	2P546				4	6D6, 6C6, 43, 25Z5		6-1	
51	Vol.		18	N				4-8	23	CM172				5	6A7, 6D6, 75, 42, 80		6-1	
53	Vol.		18	N				6-10	23	CM172				5	6A7, 6D6, 75, 42, 80		6-2	
54	Vol.		18	UM154	M26		A96	6-10 .02	4	RM262 Buffer	B14		294	5	6A7, 6D6, 75, 42, 84	456	6-2	
56	Vol.		116	K12				4	12	BB31				4	31, 32, 33, 1E1		6-3	
60A	Vol.		18	N				8-16-12	11	UR182	B31			5	6A7, 6D6, 75, 43, 25Z5	456	6-3	
63A	Vol.		75	N				8, 8	23	RS213				6	6A8, 6K7, 6H6, 6F5, 6F6, 5Z4, or 6A7, 6D6, 75, 42, 80		6-4	
64	Vol.		18	UM154	M26		A96	6-10 .02	4	See Note Buffer	B3 B14		294	6	6A7, 6D6, 75, 42, 84	456		
76	Vol.		18	N				8-8 .02	1	2N516 Buffer	B3 B14		246	6	34, 1B5, 1E1, 1C6, 30		6-4	
112	Vol.		127	MR53	M26			8 25 46	46	RS213 WE3050				12	6K7G, 6L7G, 6C5G, 6H6G, 6G5, 6V6G, 5Y3G	465		
115	Vol.		15	MR53	M26			8-16 8 25 46	46/13	2S563 RS213 WE3050				15	6K7G, 6L7G, 6C5G, 6H6G, 6G5, 6V6G, 5Y3G	465		
131	Vol.		75	MR48	M26			4 12 10	13	BB60 RS215				11	6K7, 6A8, 6C5, 6H6, 6F5, 6F6, 380, 6G5	456	9-1	
136	Vol.		18	MR48				10 7-32	15	BB12 2N518				6	6A7, 76, 6D6, 75, 41, 80	456		
137	Vol.	5-46	18	MR48	M26			5 30-20	15	BB12 2P553				6	6A7, 6D6, 75, 76, 25L6G, 25Z5	456		
138	Vol.		18	MR48	M26			5 8 12	20	BB12 RS213 RS215				8	6A7, 76, 6D6, 85, 6V6G, 80	456		
173	Vol.		45	MR48				4 8-8 .005	13	BB60 2N518 Buffer	B3 B14		246	7	1C6, 31, 30, 19	456	7-2	
179	Vol.	5-41	18	MR48				7-21 5 .01-.01	1	2N518 BB12 Buffer	B14		294	7	6D8G, 6S7G, 6T7G, 6L5G, 6Z7G, 6Z55G	456		
180	Vol.		18	MR48				8-8 5 .01-.01	1	2N518 BB12 Buffer	B14		294	8	6D8G, 6S7G, 6T7G, 6L5G, 6Z7G, 6Z55G, 6N5	456		
250	Vol.		45	MR48										5	1A6, 1A4, 30, 1B4, 1F4	456		
315	Vol.	5-55	18	MR48	M26			7-64	1	2N514				5	6ABGT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	11-5	
315SW	Vol.		18	MR48	M26			40-12	1	2N514				5	6K8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	11-5	
325	Vol.	5-55	18	MR48	M26			7-53 7-54	1	BB27 BB22				5	6ABGT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456	11-5	
337	Vol.		45	MR48				40-12	1	2N514				6	6K8G, 6K7G, 76, 75, 25L6G, 25Z6G	456	12-3	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
TRAV-LER—Continued																		
400	Vol.		6	MR29	M26	EX300		10	1	BB27					4	6K7GT, 6F5GT, 25L6G, 25Z6GT	10-2	
415	Vol.		18	MR48	M26			10	15	BB12					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT	456 10-5	
420A, 420S	Vol.		6	MR29	M26	EX400		10	15	BB12					4	6K7G, 6F5G, 25L6G, 25Z5, L55B	10-7	
425	Vol.		18	MR48	M26			8-8	1	2N518					5	6A7, 6D6, 75, 41, 80	456 10-5	
426	Vol.		18	MR48	M26			10-12	1	2N514					5	6A7, 6D6, 75, 25L6G, 25Z5, L49B	456 10-5	
431, 431SW	Vol.		6	II7				20-12	74	UR192					4	6D6, 6C6, 25A7	9-2	
436M	Vol.		18	MR48				12-12	1	2S568					6	6K8, 6K7, 75, 76, 6AC5G, 80	456 10-7	
437M	Vol.		45	MR48				40-12	1	2N514					6	6K8, 6K7, 76, 25L6G, 25Z5, L42X	456 10-7	
440, 445	Vol.	5-42	6	MR33	M26			7-24	4	2P549					3	6D6, 6C6, 25A7		
442	Vol.		6	II2		2		16-12	27	2P546					4	6D6, 6C6, 43, 25Z5	6-1	
450, 452	Vol.	5-42	6	MR33	M26			20-20-8	1	See Note	B3				4	6D6, 6C6, 43, 25Z5		
455L	Vol.		18	MR48	M26			5	15	BB12					4	6D6, 6C6, 43, 25Z5		
455L 2nd Type, 455LN	Vol.		15	MR53	M26			40-12	1	2N514					6	6A7, 6D6, 76, 75, 25L6G, 25Z5	456 11-3	
465M	Vol.		18	MR48	M26			8-8	1	2N518					5	6K8, 6D6, 75, 41, 80	456 10-9	
466M	Vol.		18	MR48	M26			40-12	1	2N514					5	6K8, 6D6, 75, 25L6G, 25Z5, L49B	456 10-9	
470, 471, 472, 473	Vol.	5-45	6	MR33	M26			10	15	BB12					4	6D6, 6C6, 43, 25Z5		
470, 471, 472, 473	Vol.	5-45	6	MR33	M26			20-20-8	1	See Note	B3				4	6D6, 6C6, 43, 25Z5		
500	Vol.	5-44	18	MR48	M26			5	15	BB12					5	6A7, 6D6, 75, 41, 1V	456	
501	Vol.		6	MR22				8-8	25	CM172					4	6D6, 6C6, 43, 25Z5, 55KB	10-10	
A502	Vol.		6	MR22	M26			10	19	BB12					4	6D6, 6C6, 43, 25Z5, 185R8	10-9	
511	Vol.		18	N				20-12-5	1, 15	3N528					4	6D6, 6C6, 43, 25Z5, 55KB	10-10	
512	Vol.		18	MR48	M26			20-12-5	4/13	2P549/BB21					4	6D6, 6C6, 43, 25Z5, 185R8	10-9	
521	Vol.		6	MR21	M26			4-8	23	CM172					5	6A7, 6D6, 75, 42, 80	6-1	
522	Vol.		18	MR48	M26			16-12-8	11	See Note	B3				5	6A8, 6K7, 6B6, 25A6, 25Z6	456 7-1	
525	Vol.		18	UM154		A96		16-12	23	2P546					4	6D6, 6C6, 43, 25Z5, K55B	8-1	
526, 527	Vol.		18	MR48				20-12	27	2P549					5	6A7, 6D6, 75, 25A7, K74B	456 8-1	
536M	Vol.		18	500M		See Note A19		8-8	1	2N518			246	C3	5	1C6, 1A4, 75, 30, 19	456 7-1	
539M 1st Type	Vol.	5-54	18	MR48	M26			.005	1	Buffer	B14				5	6A7, 6D6, 75, 41, 80	456	
539M 2nd Type	Vol.		18	MR48	M26			8-8-8	19	CM175					7	*6K7, 6K8, 6Q7, 6P6G, 6U5, 5Y3G	456 10-11	
542	Vol.		18	UM154		See Note A96		5	1	BB12					9	*6K7, 6K8, 6R7, *6V6G, 6U5, 5X4G	456 10-11	
552B	Vol.		18	MR48				10	15	BB12					9	*6K7, 6K8G, 6R7G, 6J5G, *6V6G, 6U5, 5X4G	456 11-6	
553, 553BT, 554, 554BT	Vol.	5-62	18	UM154		A96		7-51	13	RS216			294	C3	5	6A7, 6D6, 75, 6B5, 84	456 7-2	
555, 555BT	Vol.	5-65	17	MR53	M27			8-4	4	CM172					4	1A7G, 1N5G, 1H5G, 1C5G	456 10-11	
556, 556B, 556BT	Vol.	5-65	17	MR53	M27			.01		Buffer	B14				4	1A7G, 1N5G, 1H5G, 1Q5G	456 11-3	
560	Vol.		18	MR48	M26			10	12	BB21					5	1A7G, 1N5G, 1H5G, 1Q5G	456	
570B	Vol.		18	500M		A19		7-53	1	BB27					5	1A7G, 1N5G, 1H5G, 1T5G, 25Z6G	456	
576, 576B	Vol.		18	Order from Mfr.				7-67	78	1C2501					5	6D8G, 6S7G, 6T7G, 6G6G, 6ZY5G	456 10-5	
600	Vol.	5-43	45	MR48				8-8	1	2N518			850	C3	8	*6S7G, 6K8, 6T7G, 6L5G, 6Z7G, 6N5, 6ZY5G	456 11-9	
620 Early	Vol.	5-62	18	MR48	M26			.015-.015	1	Buffer	B14				6	6K8G, 6S7G, 6T7G, 6G6G, 6ZY5G, 6U5	456	
620 Late, 621	Vol.		18	MR48	M26			16, 16	1	RS216			850	C3	8	*6S7G, 6K8, 6T7G, 6L5G, 6Z7G, 6N5, 6ZY5G	456 11-9	
								.012-.012	15	BB12					6	6K8G, 6S7G, 6T7G, 6G6G, 6ZY5G, 6U5	456	
								10	15	BB12					6	1A6, 1A4, 30, 6N5, 1B4, 1F4	456	
								.012-.012	1	Buffer	B14		39-4	C3	6	6A7, 6D6, 75, 76, 6AC5G, 84	456	
								7-30	1	CM172					6	*6K7GT, 6A8GT, 6Q7GT, 6K6GT, 6X5GT	456 11-4,7	
								.005	1	Buffer	B14				6		456 11-7,4	
								7-65	1	2S568					6			
								.016-.016	1/15	Buffer	B14				6			
								12-12-10	1/15	Buffer	B14				6			
								.005	1/15	Buffer	B14				6			

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
TRAV-LER—Continued																		
622, 623, 626, 627	Vol.		18	MR48				16-12-8	11	See Note	B3				5	6A7, 6D6, 75, 43, 25Z5	456	7-3
630	Vol.	5-46	18	MR48	M26			30-20	27	2P553				5	6A7, 2P553, 25Z5	456		
633, 634	Vol.		75	MR48				5	20	BB12				6	6A7, 76, 6D6, 75, 41, 80	456		
635M	Vol.		45	MR48	M26			7-32	1	CM172				6	6A7, 6D6, 76, 75, 42, 80	456	7-3	
642	Vol.		18	UM154		See Note A96		8-8	4	CM172	B3	294	C3	6	6A8, 6K7, 6H6, 6F5, 6F6, 80	456	8-2	
645E	Vol.		18	MR48				.01	1	Buffer	B14			6	6D6, 6A7, 75, 6B5, 0Z4	456	7-4	
650	Vol.	5-43	45	MR48				20	15	WE1830				7	6K7, 6K8, 6Q7, 6F6G, 6U5, 5Y3G	456	10-10	
679	Vol.	5-41	18	MR48				10	1	BB12		246	C3	5	1A6, 1A4, 30, 1B4, 1F4	456		
680	Vol.		18	MR48				7-30	1	CM172		294	C3	7	6D8C, 6S7G, 6T7G, 6L5G, 6Z7G, 6Z7Y5G	456		
720	Vol.	5-55	45	MR48	M26			.005	1	Buffer	B14			8	6D8C, 6S7G, 6T7G, 6L5G, 6Z7G, 6Z7Y5G, 6N5	456		
730	Vol.	5-46	18	MR48	M26			8-8	1	CM172	B3	246	C3	6	6A7, 6D6, 76, 75, 25L6G, 25Z5	456		
733	Vol.		45	MR48				5	15	BB12				6	6A7, 6D6, 75, 76, 25L6G, 25Z5	456		
801	Vol.	5-69	18	MR48	M26			.01-.01	1	Buffer	B14			7	IC6, 3A, 30, 19	456	7-2	
1555, 1555BT	Vol.	5-65	17	MR53	M27			8-8	1	CM172	B3	246	C3	7	6A7, 6D6, 75, 76, 6AC5G, 80	456		
1556, 1556B, 1556BT	Vol.	5-65	17	MR53	M27			7-65	1	Buffer	B14			5	1A7G, 1N5G, 1H5G, 1Q5G	456		
6300	Vol.	5-46	18	MR48	M26			7-56	12	BB21				5	1A7G, 1N5G, 1H5G, 1T5G, 25Z6G	456	11-9	
								7-72	76/78	2N515/ 11C2501				6	6A7, 76, 6D6, 75, 41, 80	456		
								7-32	1	CM172								
								5	15	BB12								
TRIANGLE ELECT																		
5M17	Vol.	B16970	6	K12	6			B16973	27	RS207				4	6D6, 6C6, 43, 25Z5			
6M27	Vol.	B17010	17	O				B17042	27	RS207				5	6A8G, 6K7G, 6Q7G, 25H6G, 25Z6G	456		
6P	Tone	B17047	1	M	6			B17041-3	4	RS208				6	6D6, 6L7, 76, 75, 42	465	7-1,2	
6U107, 6L137, 6C607	Vol.	6226	18	UM154-SS11				B17197	4	RS208		9600	249	C3	6	6A8G, 6K7G, 6Q7G, 6G5, 6K6G, 5Y3	456	
6U107, 6L137, 6C607	Tone	6225	22	L				8-8	1	CM172				6	6A8G, 6K7G, 6Q7G, 6G5, 6K6G, 5Y3	456		
7U117, 7L147, 7C707	Vol.	B16542-2	18	N	6			.005		Buffer	B14			7	6L7G, 6C5G, 6K7G, 6Q7G, 6G5, 6F6G, 5Y3	456		
7U117, 7L147, 7C707	Tone	B16540-2	34	UC502				B16466	4	RS216				7	6L7G, 6C5G, 6K7G, 6Q7G, 6G5, 6F6G, 5Y3	456		
8C807	Vol.	B16542-2	18	N	6			B16467-2	4	WE825				8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, 6F6G, 5Y3	456		
8C807	Tone	B16540-2	44	UC502				B16467-2	4	WE825				8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, 6F6G, 5Y3	456		
8U127	Vol.	B16542-2	18	N	6			A15236-3	25	WE3050				8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, 6F6G, 5Y3	456		
8U127	Tone	B16539-2	44	SRP284	8			A15237-2	25	RS213				8	6A8G, 6K7G, 6Q7G, 6G5, 6C5G, 6F6G, 5Y3	456		
10C1007	Vol.	B16553-2	17	TRP618	6			A15237-2	25	WE3050				10	6K7G, 6L7G, 6C5G, 6Q7G, 6G5, 6F6G, 5Z3	456		
10C1007	Tone	B16540-2	22	UC502				B16554-3	1	WE3050				10	6K7G, 6L7G, 6C5G, 6Q7G, 6G5, 6F6G, 5Z3	456		
								B15427	1	RS216								
								B16551-4	15	TN111								
TROPIC-AIRE																		
96W	Vol.		56	N				8-16	1	2N519		210	C5	6	78, 77, 85, 41	262	§5-22	
96W	Tone		44	UC502				4	13	BB31								
								4	15	BB12								
TROY RADIO MFG.																		
2A3	Vol.		1	MR44				8, 8, 8	3	RS213				5	2A6, 53, 2A3, 5Z3		7-1	
2A5	Vol.		1	MR44				12	17	BB22				5	56, 53, 2A5, 80		7-1	
4	Vol.		6	G12				8, 8, 8	3	RS213				5	56, 53, 2A5, 80		7-1	
4 (Revised)	Vol.		6	MR18	M26	EX200		10	15	BB13				4	6D6, 6C6, 42, 80		6-1	
4 Tube TRF	Vol.		6	H12		EX250		5	15	BB12				4	6D6, 6C6, 42, 80		6-1	
5L5, 5U5	Vol.		56	N	6			4-4	23	CM170				4	6D6, 76, 41, 80		11-1	
14	Vol.		6	G12				4-4	23	2S567				4	58, 57, 2A5, 80		5-4	
15, 15-5	Vol.		56	N	6			4-4	23	CM170				5	6A7, 6D6, 85, 80, 42	465	6-1	
40	Vol.		6	G12				4-4	23	CM170				4	58, 57, 2A5, 80		6-1	
42	Vol.		6	G12				4-4	23	CM170				5	2A7, 58, 55, 2A5, 80	465	6-1	
42	Tone		22	L		EX300		4-4	23	CM170				4	58, 57, 2A5, 80		6-1	
								4-4	23	CM170				4	6A7, 6F7, 42, 80	465	5-1	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
TROY RADIO MFG.	Continued																	
45	Vol.		18	MR48				4-4	23	2S567					5	6A7, 6D6, 75, 41, 80	465 11-1	
46	Vol.		17	UM154		See Note	A96	4-4	4	CM170					4	6A7, 6D6, 75, 42	465 5-2	
51B5	Vol.		17	MR48				5-5	15	TN111					5	1A6, 34, 25S, 30, 19	465 7-3	
52	Tone		22	MR33											5	2A5, 2A6, 2A7, 58, 80	465 5-1	
53	Vol.		17	N	6			4-4	23	CM170					5	6A8, 6K7, 6Q7, 6F6, 5Y3	465 7-4	
54	Tone		22	K12				10	15	BB12					5	2A5, 2A6, 2A7, 58, 80	465 5-3	
55	Vol.		17	N	6			4-4	23	CM170					5	6A7, 6D6, 76, 41, 80	465 8-1	
55 (Revised)	Vol.		22	UC501				4-4	23	CM170					5	6A7, 6D6, 75, 41, 80	465 11-1	
56	Vol.		17	MR48				4-4	1	2N518					5	6D6, 6A7, 75, 42	175 5-2	
57	Vol.	7374	18	MR48	M26			5-5	15	TN111					5	6A7, 6D6, 75, 41, 80	465 11-1	
62BC, 62BU	Vol.	7866	22	MR34				4-4	23	2S567					6	34, 1C6, 25S, 30, 19	465 6-2	
62C, 62PC, 62L, 62U	Vol.		17	N											6	6D6, 6A7, 75, 42, 80	465 6-2	
67	Vol.		21	K12				8-8	23	CM172					6	6A7, 6D6, 75, 6G5, 42, 80	465 8-2	
67SW	Vol.		18	MR48				10	15	BB12					6	6A7, 6D6, 75, 6G5, 42, 80	465 8-3	
68	Vol.		17	UM154				4-4	23	CM170					6	6A7, 6D6, 75, 41, 80	465 7-2	
75 (AC)	Vol.		18	MR48				8-8	1	CM172			294	C3	5	6A8, 6K7, 6Q7, 6F6, 84	465 7-2	
75B	Vol.		22	K12				10	15	BB12	B14				5	6A7, 6D6, 75, 42, 80	465 7-4	
77	Vol.		18	MR48				4-4	23	CM170					4	1A6, 1A4, 1B5, 33	465 7-3	
79	Vol.		22	MR33				8-8	23	CM172					7	6K7, 6A8, 6Q7, 6F5, 6F6, 5Y3	465 7-3	
84	Vol.		18	MR48				8-4	23	CM172					6	6A7, 6D6, 75, 6G5, 42, 80	465 8-3	
84C, 84PC, 84U	Vol.		22	K12				8-8	1	CM172					8	2A7, 58, 55, 53, 45, 80	465 5-3,4	
TR86	Vol.		17	N				10	15	BB12					8	6D6, 6A7, 85, 42, 76, 80	465 6-3	
95	Vol.		118	N				16-16	4	See Note	B3				8	6D6, 6A7, 85, 42, 76, 80	465 6-3	
100	Vol.		22	K12				4	13	BB60					6	6D6, 6A7, 75, 41, 84	465 6-3	
113	Vol.		17	UM154		See Note	A96	10	15	BB12			296	C3	6	6D6, 6A7, 75, 41, 84	465 6-3	
151-5	Vol.		22	K12				10-10	15	CM172					6	6D6, 6A7, 75, 41, 84	465 6-3	
153, 153C	Vol.		15	MR48				.01	23	Buffer	B14				8	6A8, 6K7, 6116, 6G5, 6F5, 6F6, 5Y3	465 8-2	
162C, 162U	Vol.		22	MR44				8-8	15	CM172					5	6A7, 6D6, 75, 42, 80	465 8-4	
170	Vol.		18	MR48				8-4	23	CM172					11	6A8, 6K7, 6116, 6C5, 6U5, 41, 80	465 11-2	
175	Vol.		15	250M				8-8	23	2S567					5	6A7, 6D6, 75, 43, 25Z5	465 6-4	
179	Vol.		22	MR33				8	13	BB61					5	6A8, 6K7, 6Q7, 25A6, 25Z6	465 7-4	
825	Vol.		17	MR48				16-8-10-10	6/15	UR189	B98				5	6A7, 6D6, 75, 43, 25Z5	465 6-4	
TRUE TONE—See Western Auto Supply Co.																		
TRUE VALUE 6U	Vol.	P96015	18	UC511				P81028	1	CM172			253	C3	6	78, 77, 75, 41, 84	262.5 \$5-23	
TURNER CO. M8	Vol.	P97012	22	UC502				P81021	15	TN111	B14				6	78, 77, 75, 41, 84	262.5 \$5-23	
M16	Vol.		15	M				.01	13	Buffer					3	57, 2A5, 5Z3	\$6-34	
MC16	Vol.		57	M				8-8	13	BB31					5	56, 2A5, 80	\$6-34	
	Vol.		15	M				8-8	1	CM172					6	57, 56, 2A5, 80	5-1	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
TURNER—Continued 5780	Vol.		15	M				8-8	1	CM172				3	357, 80		5-2	
								8	13	BB31								
								25	15	BB15								
TYRMAN ELECTRIC CORP. Imperial 80	Vol.		29	Z				‡	3	See Note	B3			10	‡27, ‡22, 50, ‡81		‡1-20	
ULTRAMAR 306	Vol.		18	MR48	M26			20	1	RS207				5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z5	465	10-4	
307	Vol. Tone		17 22	MR53 N		6		40 14 16	1 25 25	RS208 RS216 RS216				8	*6K7G, 6J7G, 6Q7G, 6C5G, 6G5, 6F6G, 5Y3G	465	9-1	
309	Vol. Tone		18 22	MR44 K12		6		40 30-30	11 11/13	RS208 2N514				8	*6K7G, 6A8G, 6R7G, 6G5, 25B6G, 25Z5	465	9-2	
316	Vol.		18	MR48				20	1	RS207				5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z5	465		
317	Vol. Tone		17 22	MR53 N		6		40 14 16	1 25 25	RS208 RS216 RS216				8	*6K7G, 6J7G, 6Q7G, 6C5G, 6G5, 6F6G, 5Y3G	465	9-1	
319	Vol. Tone		18 22	MR44 K12		6		40 30-30	11 11/13	RS208 2N514				8	*6K7G, 6A8G, 6R7G, 6G5, 25B6G, 25Z5	465	9-2	
325, 335	Vol.		18	MR48		6		8, 8	25	RS213				5	6A8G, 6K7G, 6Q7G, 6F6G, 80	456		
327	Vol. Tone		127 22	MR53 MR48		M27		9055 .005	1	2N516 Buffer		9056	246	C3	*1A4, 1C6, 1B5, 6L5G, 19, 6AB5	465	11-1	
337	Vol. Tone		127 22	MR53 MR48		M27		9055 .005	1	2N516 Buffer	B14	9056	246	C3	*1A4, 1C6, 1B5, 6L5G, 19, 6AB5	465	11-1	
345, 355	Vol. Tone		17 57	MR53 MR48		M27		8-8 .005	1	CM172 Buffer	B3 B14	9056	246	C3	6D8G, 6S7G, 6T7G, 6AB5, 6L5G, 19	465		
366, 376	Vol. Tone		17 22	MR53 N		6		8, 8	25	RS213				7	6A8G, 6K7G, 76, 6Q7G, 6E5, 6F6G, 80	465		
456	Vol.		18	MR48				12-12	1	2S568				6	6K8, 6K7, 75, 76, 6AC5G, 80	456	10-1	
465	Vol.		18	MR48		M27		8-8	1	2N518				5	6A7, 6D6, 75, 41, 80	456	10-1	
477	Vol.		45	MR48				40-12	1	2N514				6	6K8, 6K7, 76, 25L6G, 25Z5, L42C	456	10-1	
587	Vol.		18	500M			See Note	10	15	BB12				7	*6K7, 6K8, 6Q7, 6F6G, 6U5, 5Y3G	456	10-3	
							See Note	16	1	RS216								
							See Note	20	1	WE1830								
801, 802	Vol. Tone	1110	75	N		8	See Note	10	15	BB12				8	*6K7, 6L7, 6L16, 6C5, 6F5, 6F6, 5Y3	465	8-1	
	Sen.	1109	57	N		8	See Note	8	25	RS213								
	Vol.	1114A	59	A5MP				25	25	WE3035								
826	Vol. Tone		18	MR48				10-10	1	2S568				6	6J8G, 6D6, 75, 6V6G, 80, 6U5	465	11-3	
856	Vol. Tone		21 45	MR48 MR48				12-12 10	1 15	2S568 BB12			850	C3	6K8, 6S7G, 6L5G, 6T7G, 6G6G, 6ZY5G	456	10-1	
								.012-.012		Buffer	B14							
857	Vol. Tone		18	MR48				30-24	27	2P553				6	6J8G, 6D6, 75, 25L6G, 6U5, 25Z5	465	11-3.4	
877	Vol.		21	MR48				10	19	BB12				8	*6S7G, 6T7G, 6L5G, 6K8, 6Z7G, 6N5, 6ZY5G	456	10-3	
								10	15	RS216			850	C3				
								.012-.012	1	Buffer	B14							
889	Vol.		18	500M			See Note	25	1	WE3050				9	*6K7, 6K8, 6R7, *6V6G, 6U5, 5X4G	456	10-3	
								20	1	WE1830								
								4	13	RS213								
UNITED AIR CLEANER—See Sentinel.																		
UNITED AMERICAN BOSCH Model T	Vol.		6	G12				3-3	25	See Note	B1			5	*36, 37, 33			
04	Vol.	VR9515	7	J		6		CI9520	6/15	UR189	B98			4	6D6, 6C6, 43, 25Z5, 185R8—Ballast		6-8	
05	Vol.	VR9526	7	J		6								5	6A7, 6D6, 75, 43, 25Z5	465	6-20	
	Vol.	VR9514	17	N		6		CE9519	6/15	2N513/TN111				4	*224, 47, 80		3-5	
4 (Essex)	Vol.		6	G		6	See Note	4-8	25	CM172	B198			4	*51, 24, 47, 80		2-12, 13	
5A	Vol.	102342	7	G		6		SA102553	25	CM172	B199			5	*24, 47, 80		1-2, 3	
5 (AC)	Vol.		6	G12				4-8	25	CM172	B198			5	*36, 37, 33		3-4	
7, 7C (DC)	Vol.		6	G12				3-3	25	See Note	B11			10	51, 258, 27, 45, 80	175	3-6	
10 (Essex)	Vol.		15	N				8-8-4	30	See Note	B3							
	Vol.		22	N														
20, 20J, 20K, 20L	Vol. Tone		6 22	G		6	See Note	2-3.5-2	26	See Note	B1			8	*51, 227, 247, 80	175	2-1, 2	
28 (AC)	Vol.		13	SRP179			See Note	2-4	1	See Note	B1			8	*26, 27, 21, 80		1-5, 6	
29 (AC)	Vol.		13	SRP179				2-4	1	See Note	B2			8	*26, 27, 21, 80		1-7	
31, 32 (AC)	Vol.		6	G12		6		3.5-3.5	25	See Note	B1			6	*51, 24, 47, 27, 80	175	2-3, 4	
								.08		See Note	B9							
36, 36A & B, 37	Vol.		6	G12		6		8-4	25	CM172	B199			6	*51, 24, 47, 80, 27	175	3-7, 8	
								8	14	BB31								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
UNITED AMERICA	N	BOSC	11—Continued															
38.....	Vol.		13	SRP179.....				2-4.....	1	See Note.....	B1				8	26, 27, 71, 80	1-5	
40, 41 (AC).....	Vol.		15	N.....	6			8-8-4.....	56	CM175.....	B205				8	51, 27, 47, 80	175 4-1,2	
45A, 45C.....	Tone		22	N.....														
	Vol.		18	N.....	6			SA106878.....	1	CM172.....		SA106450.....	271		5	77, 78, 75, 41	175 5-1,5	
				SA105741.....					15	BB12.....								
46 (AC).....	Vol.		14	N.....														
48, 49 (AC).....	Vol.		40/12	GK.....		Early	A79	4-2-1.....	3	See Note.....	B1				7	71A, 26, 27, 80	1-8	
	Vol.		40/12	GE.....		Late	A79								7	45, 27, 24, 80	1-9,10	
54 (DC).....	Vol.		40/8	CE.....			A54	4-4.....	1	See Note.....	B11				7	27, 24, 71	1-11,12	
56 (Battery).....	Vol.		40/12	GK.....											7	22, 201A, 112A	1-13,14	
58 (AC).....	Vol.		8	D.....				2-2-4.....	3	See Note.....	B1				8	24, 27, 45, 80	1-17	
	Tone		41	N.....														
60, 60D, 60E, 61.....	Vol.		15	N.....				2-2-4-2.....	3	See Note.....	B1				9	24, 27, 45, 80	1-16	
	Tone		41	N.....														
62 (DC).....	Vol.		8	D.....				4-4.....	1	See Note.....	B11				7	24, 27, 45	1-18,19	
	Tone		41	N.....														
63 (DC).....	Vol.		15	N.....				4-4.....	1	See Note.....	B11				8	24, 27, 45	1-20,21	
	Tone		41	N.....														
66 (AC).....	Vol.		14	N.....														
73, 74.....	Vol.		6	G12.....	6			2-2-4.....	26	See Note.....	B1				6	26, 27, 71	1-15	
	Tone		144	K12.....											7	24, 27, 45, 80	1-22,23	
79C.....	Vol.	106514.....	18	N.....	6			SA106536.....	4	CM172.....			253	C3	6	77, 78, 75, 42, 84	175 5-6,10	
	Tone	106715.....	22	N.....				.008.....		Buffer.....	B14							
80, 84.....	Vol.		7	A20MP.....											5	24, 12A	1-24,25	
91, 92.....	Vol.		15	N.....	6			16.....	25	CS136.....	B39				7	51, 24, 47, 27, 80	175 2-6,7	
	Tone		22	N.....				4.....	25	CS133.....	B39							
				N.....				SA103037.....	14	BB31.....								
96 (AC).....	Vol.		14	N.....											7	26, 27, 71, 80	1-15	
96 (DC).....	Vol.		14	N.....											7	26	1-8	
100 (Adv. 9-20 Auto)	Vol.		14	N.....			See Note	A5	4-6	CM172					7	36, 37, 38	175 2-8,9	
107 (AC).....	Vol.		14	N.....														
113.....	Vol.		15	N.....											7	26, 27, 71	1-15	
	Vol.		7	N.....											7	39, 85, 89, 52		
113X.....	Vol.		18	N.....											7	39, 75, 89, 52		
114.....	Vol.		15	N.....											7	39, 85, 89, 52		
	Sen.		7	N.....														
116 (AC).....	Vol.		14	N.....											6	26, 27, 71	1-15	
119 (Police Motor-cycle Radio)	Vol.		18	UM154.....		See Note	A96	4-4.....	1	See Note.....	B3				5	78, 6A7, 75, 41	456 5-11,13	
				N.....				5.....	15	BB12.....								
123.....	Vol.		15	N.....											7	39, 85, 89, 52		
	Sen.		7	N.....														
123X.....	Vol.		18	N.....											7	39, 75, 89, 52		
126 (AC).....	Vol.		14	N.....											6	71, 426, 27	1-8	
129 (Police Motor-cycle Radio)	Vol.		18	UM154.....		See Note	A96	4-4.....	1	See Note.....	B3				5	78, 6A7, 75, 41	456 5-11,13	
				N.....				5.....	15	BB12.....								
133, 135.....	Vol.		6	G12.....	6			2-2-4.....	26	See Note.....	B1				7	24, 27, 45, 80	1-22,23	
	Tone		14	K12.....														
136 (AC).....	Vol.		14	N.....											6	26, 27, 71	1-15	
139 (Types II, L, HT, LT, HC, LC, HTC, LTC)	Vol.	VR951.....	18	UM154-SS23	M26			CE9510.....	1	CM172.....					5	78, 6A7, 75, 41, 77	456 5-14,20	
				SA105910.....					15	TN111.....								
139 (Types V, VC, VT, VTC)	Vol.	VR951.....	18	UM154-SS23	M26			CE9510.....	4	CM172.....		253Y	C3	6	78, 6A7, 75, 41, 84, 77	456 5-14,20		
				SA105910.....				.008.....	15	Buffer.....	B14							
140A.....	Vol.		18	N.....		See Note	A5	8-8.....	1	See Note.....	B3	SA105499.....	271		5	78, 6A7, 75, 41	456 4-3	
				N.....				10.....	15	BB12.....								
146.....	Vol.		14	N.....											6	71, 27, 426	1-8	
149 (Types II, L, HT, LT, HC, LC, HTC, LTC)	Vol.	VR951.....	18	UM154-SS23	M26			CE9510.....	1	CM172.....					5	78, 6A7, 75, 41	456 5-14,20	
				SA105910.....					15	TN111.....								
149 (Types V, VC, VT, VTC)	Vol.	VR951.....	18	UM154-SS23	M26			CE9510.....	4	CM172.....		VI951.....	253Y	C3	6	78, 6A7, 75, 41, 77, 84	456 5-14,20	
				SA105910.....				.008.....	15	TN111.....								
150 (Type 1).....	Vol.		18	N.....				SA105456.....	1	CM172.....	B14	SA104601.....	210		6	36, 39, 85, 41	175 4-4	
				N.....				SA105456.....	1	BB31.....					6	77, 78, 85, 41	175 4-5	
150 (Type 2).....	Vol.		18	N.....				SA104614.....	1	CM172.....		SA105499.....	271		6	26	1-8	
156 (DC).....	Vol.		14	N.....				SA105456.....	1	CM172.....					6	77, 78, 85, 41	175 4-6	
160.....	Vol.		18	UM154.....		See Note	A96	8-8.....	1	CM172.....		SA105499.....	271		6	71, 27, 426	1-8	
166, 176 (AC).....	Vol.		14	N.....														
169 (H, L, HT, LT, HC, LC, HTC, LTC)	Vol.	VR951.....	18	UM154-SS23	M26			CE9510.....	1	CM172.....					5	77, 78, 6A7, 75, 41	456	
				SA105910.....					15	TN111.....								
169 (V, VC, VT, VTC)	Vol.	VR961.....	18	UM154-SS23	M26			CE9510.....	4	CM172.....		VI951.....	253Y	C3	6	77, 78, 6A7, 75, 41, 84	456 5-15,19	
				SA105910.....				.008.....	15	Buffer.....	B14							

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS								CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
UNITED AMERICA	BOSC	H—Continued																	
178.....	Vol.	SA106514...	18	N				SA106536...	4	2S567		SA106561...	296	C3	6	77, 78, 75, 42, 84...	†		
	Tone	SA106715...	22	N				.02		Buffer	B14								
179.....	Vol.	SA106514...	18	N				SA106536...	4	2S536		SA106562...	253	C3	6	77, 78, 75, 42, 84...	†		
								.008		Buffer	B14								
200, 201 (AC).....	Vol.	SA103706...	7	G				SA101881...	25	CM172	B199				5	51, 24, 47, 80...	3-9,10		
205, 205A, 206 (5A).....	Vol.	SA102342...	7	G				SA102553...	25	CM172	B199				5	51, 24, 47, 80...	2-12,13		
224.....	Vol.	SA102552...	6	G7				3-3		See Note	B11				8	39, 71A, 52, 37...	175		
	Tone	SA102959...	21	N				.01		See Note	B9						2-14		
226.....	Vol.		16	N											8	32, 33, 30, 49...	175		
	Tone		114			See Note A5											2-15		
236, 237 (AC).....	Vol.		6	G12				8-4	25	CM172	B199				6	51, 57, 47, 27, 80...	175		
								8	14	CS133							3-11		
239AA.....	Vol.	SA102552...	6	G12				8-4	25	CM172	B199				6	51, 24, 27, 47, 80...	175		
	Tone		22	N				8	14	BB31							3-11		
239 AC.....	Vol.		6	G12				8-4	25	CM172	B199				6	51, 57, 47, 27, 80...	175		
								8	14	CS133							3-11		
242, 243 (AC).....	Vol.	SA103017...	15	N				SA103595...	30/14	UR191	B200				8	56, 58, 47, 80...	175		
	Tone	SA102959...	22	N													3-12		
250, 251.....	Vol.	SA100194...	15	N				SA103950...	3/13	UR191	B201				10	58, 56, 45, 80...	175		
	Tone	SA100727...	120	L				SA103740...	1	CM172	B12						4-7		
260, 261.....	Vol.	SA103539...	20	L		See Note A19		SA103950...	3/13	UR191	B201				10	58, 56, 45, 80...	517.5		
	Tone	SA103548...	120	L													4-8		
305A.....	Vol.	SA102552...	6	G7				SA102768...	25	CM172	B199				5	57, 58, 47, 80...	456		
305 Ed. 2.....	Vol.	SA104897...	18	N				SA105237...	25/19	CM172/BB15	B202				5	57, 58, 2A6, 47, 80...	456		
306.....	Vol.	VR9510...	15	MR53				CE9516...	59	WE850					10	6K7, 6A8, 6C5, 6H6...	465		
								CE9517...	59	WE1830							8-14		
								SA107913...	15	TN111									
307.....	Vol.	SA104437...	18	N				SA105165...	25/19	CM172/BB15	B202				7	57, 58, 55, 21, 80...	175		
	Tone	SA104443...	22	N													5-23		
310, 310A.....	Vol.	SA104437...	15	N				SA104422...	30	CM175	B206				10	58, 57, 45, 56, 80...	175		
	Tone	SA104443...	22	N				SA103037...	15	BB31							5-25,26		
	Sil.	SA105054...	1	A10MP															
312, 313 (AC).....	Vol.	SA103549...	118	L				SA103740...	57	CM175	B203				12	58, 57, 56, 46, 82...	175		
	Tone	SA103548...	122	L				SA103595...	57	CS133/CM172	B204						3-1		
								SA103037...	16	BB31									
350, 352.....	Vol.	SA105563...	18	N				SA106340...	25/19	CM172/BB15	B202				5	2A7, 58, 2A6, 2A5, 80	175		
	Tone	SA105560...	22	N													4-9		
355, 357.....	Vol.	SA105563...	18	N				SA105700...	8/15	RM257/BB12	B207				5	6A7, 78, 75, 43, 25Z5	175		
	Tone	SA105560...	22	N													4-10		
360, 361, 364.....	Vol.	SA105562...	18	N				CE954...	25/19	RM261/BB15	B213				7	2A5, 2A6, 58, 56, 80	456		
	Tone	SA105561...	22	N													7-5,6		
370, 371.....	Vol.	SA105562...	1	N				SA105817...	3	RM262					7	2A7, 58, 2B7, 53, 83	265		
	Tone	SA105561...	22	N				SA105818...	3/13/15	CM175/BB15	B208						4-12		
																	5-31		
376, 376BT, 376F, 376S.....	Vol.	SA106829...	4/9	GG				SA107029...	12/13	2N516	B209				5	1A6, 31, 33, 32...	456		
	Tone	SA106823...	121	N															
		SA106829...	4/9	GG				CE959...	12/13	2N516	B209				5	1A6, 34, 33, 32...	463		
385.....	Vol.	SA106829...	4/9	GG				CE959...	12/13	2N516	B209				5	1C6, 34, 30, 32, 33...	463		
386.....	Vol.	VR954...	15	N				SA105722...	8/15	UR182/BB12	B210				5	6F7, 78, 75, 43, 25Z5	456		
402 Ed. 1, 2.....	Vol.	SA105308...	18	N				CE957...	8	UR182	B210				5	6F7, 78, 75, 43, 25Z5	456		
402 Ed. 3.....	Vol.		18	N				CE958...	15	BB12	B210						6-9,10		
								SA105237...	25/19	CM172/BB15	B202								
405.....	Vol.	SA104897...	18	N				SA107288...	1/15	RM265					5	57, 58, 2A6, 47, 80...	456		
420, 421.....	Vol.	SA107253...	18	N													7-3,4		
	Tone	SA107251...	121	M													5-35		
																	6-11		
430, 430J, 430T, 431, 431J, 431T, 434, 434J, 434T.....	Vol.	SA107951...	18	N				SA107239...	1	HD684					5	6A7, 6D6, 75, 42, 80-83V	450		
								SA107288...	1/13/15	RM265									
440C, 440T, 441C, 441T, 444C, 444T.....	Vol.	SA105562...	18	N				SA106665...	25/19	RM261/BB15	B213				6	6A7, 6D6, 75, 42, 80	456		
	Tone	SA107250...	121	M				SA107239...	13	HD684									
450L, 450H, 451L, 451H.....	Vol.	SA107951...	18	N				SA107239...	1	HD684					6	6A7, 6D6, 75, 42, 80	450		
								SA107288...	1/13/15	RM265									
								SA107239...	1/13/15	HD684					6	6A7, 6D6, 75, 42, 83V	450		
								SA107288...	1/13/15	RM265									
460, 460A-B-R, 461A-B-R (Ed. 1 and 2), 464A-B-R.....	Vol.	SA105562...	18	N				SA106665...	25/19	RM261/BB15	B213				7	58, 2A6, 2A5, 56, 80	456		
	Tone	SA105561...	121	M															
462A, 462Y.....	Vol.	SA105562...	18	N											7	78, 76, 85, 48...	456		
	Tone	SA105561...	22	N															
470G-U, 471G-U, 474G-U.....	Vol.	VR954...	18	N				CE954...	25/19	RM261/BB15	B213				7	58, 2A6, 2A5, 56, 80	456		
	Tone	VR955...	121	M															
480 (Ed. 3).....	Vol.	SA107585...	18	N				SA107510...	59	RM265					10	78, 77, 6B7, 42, 6A6, 76, 83V	456		
	Tone	SA107584...	121	M				SA107516...	15	BB12									
480 (Ed. 1 and 2), 481, 484.....	Vol.	SA107585...	18	N				CE955...	59	RM262					10	78, 77, 42, 6A6, 76, 83V, 6H7	456		
	Tone	SA107584...	121	M				SA107510...	59/13	RM265									
	Supp.	VR953...	7	G				SA107516...	15	BB12									
500.....	Vol.	SA105308...	18	N				SA103309...	11/15	UR182/BB12	B214				5	78, 75, 43, 25Z5	456		

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
UNITE AMERICAN 501, 502 (AC-DC).. 503.. 505, 510, 510E.....	N BOSC	HI—Continued																
	Vol.	SA105308...	18	N		6		SA105722	8/15	UR182/BB12	B210				5	6F7, 78, 75, 43, 25Z5	456	5-39, 40
	Vol.	SA105308...	18	N		6		SA106487	25/19	CM172/BB15					5	6F7, 78, 75, 43, 12Z3	465	5-43, 44
515.....	Vol.	VR957	18	N		6		CE9512	25	RS215					5	6F7, 6D6, 75, 42, 80	465	6-29, 32
524A (Ed. 1, 2, 2D, 2G).....	Vol.	VR951	18	UM154-SS23	M26			CE958	19	BB12					5	6F7, 6D6, 75, 42, 80	465	8-5
536.....	Vol.	VR951	18	UM154-SS23	M26			CE9512	1	RS215		VI951	253Y	C3	5	6A7, 78, 75, 42, 84	456	6-33, 34
565W, 565K.....	Vol.	VR9516	18	N		6		CE9511	1	RS213		VI951	253Y	C3	5	6A7, 78, 75, 42, 84	456	7-11, 12
575F, 575Q.....	Vol.	VR959	75	N				CE958	19	BB12					6	6L7, 6K7, 75, 6F6, 6C5, 80	465	7-13, 14
585, 585Y, 585Z, 586	Vol.	VR9512	121	N		6		CE954	25/19	RM261/BB15	B213				7	6K7, 6116, 6F5, 6F6, 6A8, 80	465	7-15, 18
595M, 595P.....	Vol.	VR9510	15	O				CE9511	14	RS213					8	6K7, 6116, 6F5, 6F6, 6A8, 6C5, 80	465	6-35, 39
600.....	Vol.	VR9523	18	N		6		CE9518	14	RS213					10	6K7, 6A8, 6C5, 6116, 6F5, 6F6, 5Z3	465	6-41, 44
601.....	Vol.	VR9538	18	MR48	M23			CE9517	59	RS213					4	6A7, 6D6, 75, 41	465	7-19, 9-2
602.....	Vol.	VR9540	18	MR48				SA107913	15	TN111		VI957	245	C3	4	6A7, 6D6, 75, 41	465	7-20
604, 604B.....	Vol.	VR9539	22				See Note A5	CE9541	1/15	3S579		VI957	245	C3	4	6A7, 6D6, 75, 41	465	7-21
604, 604B.....	Vol.	VR9531	7				See Note A5	CE9542	12	CS133					5	1C6, 1A4, 1B5, 30, 19	465	7-20
605, 605C.....	Vol.	VR9532	18	N		6		CE9533	6	RS215					6	1C6, 1A4, 1B5, 30, 19	465	7-21
610, 610A.....	Vol.	VR957	18	MR48	M26			CE9534	6	RS216					4	6A7, 6C6, 43, K55C—Ballast, 25Z5	465	7-23, 24
620.....	Vol.	VR9533	75	TRP607	6			CE9515	15	BB12					5	6A8, 6K7, 75, 6F6, 5Y3	465	7-25, 26
625.....	Vol.	VR9534	22	MR24				CE9536	1	RS215					6	6A8, 6K7, 6116, 6F5, 25A6, 25Z6, K42C, —Ballast	465	7-27, 28
634A, 634A (Ed. 2) ..	Vol.	VR951	18	UM154-SS23	M26			CE9537	13/15	RM262					6	6A8, 6K7, 6116, 6F5, 25A6, 25Z6, K42C, —Ballast	465	7-27, 28
636, 637.....	Vol.	VR9524	18	MR401			RS246	CE9540	13	RS203		VI951	253Y	C3	6	677, 78, 75, 42, 84	175	6-45, 46
640, 650.....	Vol.	VR9533	75	TRP607	6			CE951	4	Buffer	B14	VI951	253Y	C3	6	677, 78, 75, 42, 84	175	7-29, 30
660T, 660C.....	Vol.	VR9536	75	TRP606				CE9536	25	RS215					6	6A8, 6K7, 6116, 6F6, 6F5, 5Z4 or 5Y3	465	7-31, 34
670S, 670C.....	Vol.	VR9512	121	N		6		CE9535	25	RS216					7	6K7, 6116, 6F5, 6A8, 6F6, 5Z4 or 5Y3	465	7-35, 37
680.....	Vol.	VR959	75	N				CE9528	11	RS213					9	6K7, 6116, 6C5, 6F5, 6A8, 6F6, 5Z4	465	7-39, 42
736, 737, 738.....	Vol.	VR9527	75	M			RS246	CE9526	15	TN111					13	6K7, 6116, 6C5, 6116, 6F5, 6L6G, 5Y3	465	7-43, 44
838.....	Vol.	VR9527	75	M			RS246	CE9528	30	RS213					7	6J7, 6A8, 6K7, 6116, 6F5, 6F6, 0Z4	175	7-47, 48
UNITE REPRODU 20 Series.....	Vol.	ORP. (Peerless)	35				See Note A5	CE9547	15	TN111					9	21A, 27, 345, 80		1-1
45 (Arborphone) ..	Vol.		105					CE9549	3	CS133					8	26, 27, 371A, 80		
65 (Electro Static Spkr.).....	Vol.		4					CE9548	3	CS133					9	21A, 27, 345, 80, 99		1-2
70 Series (71, 72) ..	Vol.		7	UC500			See Note A3	CE9524	19	Buffer	B14				9	21A, 01A, 27, 345, 80		1-3
UNITE SCIENTIF IC LAB.....	Vol.		6				See Note A3	CE951	4	Buffer	B14				8	6K7, 6A8, 6116, 6F5, 6F6, 0Z4	175	7-46
	Vol.		98				See Note A3	CE9524	19	BB13								

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
UNIVERSAL BATTERY CO. 5 tube 32V. 6 tube 6 volt.	Vol.		18	MR48.				10.	15	BB12.				5	6A7, 6D6, 75, 76, 48.	†		
	Vol.		15	MR48.				12-6.	1	35582.	B3		Order from Mfr.	6	6A7, 34, 76, 75, 19.	†		
7 tube 6 volt.	Vol.		15	MR48.				.01-.01	15	BB12.	B14			7	34, 6A7, 76, 75, 19.	†		
50A6.	Vol.		17	MR48.				12-6.	1	35582.	B3		Order from Mfr.	7	34, 6A7, 76, 75, 19.	†		
60.	Tone		57	MR48.				.01-.01	15	BB12.	B14			5	1D7G, 1D5G, 1H4G, 1H6G, 1F5G.		175	
61A6.	Vol.	24-103.	18	UM157.		See Note A96		18-203.	74	35579.	B61	30-100	294	C3	6	6K7, 6A8, 6D6, 75, 41, 81.		262
61A6.	Tone	26-103.	21	MR48.				.005	1	BB40.	B14		245C	C3	6	6D8G, 1D5G, 1H4G, 1J6G.		465
70.	Vol.		17	MR48.				4-8.	1	2N518.			246	C3	5	1D7G, 1D5G, 1H4G, 1H6G, 1F5G.		175
70.	Tone	24-103.	18	UM157.		See Note A96		.01	1	BB40.	B14		245C	C3	6	6K7, 6A8, 6D6, 75, 41, 81.		262
72A6.	Vol.		17	MR48.				18-203.	74	35579.	B61	30-100	294	C3	6	6D8G, 1D5G, 1H4G, 1J6G.		465
72A6.	Tone		65	MR48.				.005	1	BB40.	B14		245C	C3	6	6D8G, 1D5G, 1H4G, 1J6G.		465
80.	Vol.		17	MR48.				4-8.	1	2N518.			246	C3	5	1D7G, 1D5G, 1H4G, 1H6G, 1F5G.		175
80.	Tone	24-103.	18	UM157.		See Note A96		.01	1	BB40.	B14		245C	C3	6	6K7, 6A8, 6D6, 75, 41, 81.		262
613V (32 Volt DC). 636V.	Vol.		18	N.				18-201.	24/15	35579.	B14	30-100	294	C3	7	6K7, 6A8, 6K7G, 6Q7G, 6J5G, 6N7G, 0Z4G.		262
613V (32 Volt DC). 636V.	Vol.		15	MR48.				.008	1	BB34.			245C	C3	7	1D5G, 6D8G, 1H6G, 1H4G, 1J6G.		465
613V (32 Volt DC). 636V.	Tone		57	MR48.				16.	1	BB34.			245C	C3	7	1D5G, 6D8G, 1H6G, 1H4G, 1J6G.		465
802.	Vol.		18	UM154.		See Note A96		.01	24/15	35579.	B14	30-100	294	C3	8	6K7, 6A8, 6K7G, 6Q7G, 6J5G, 6N7G, 0Z4G.		262
803.	Vol.		18	UM154.		See Note A96		4-4.	4	BB60.			294	C3	5	6A7, 6D6, 75, 42, 84.	456	7-1
5010.	Vol.		18	MR48.	M26			.01	4	CM170.			294	C3	6	6D6, 6A7, 75, 42, 84.	456	7-1
5032.	Vol.		18	MR48.				4-4.	4	CM170.			294	C3	6	6D6, 6A7, 75, 42, 84.	456	7-1
6110.	Vol.		18	MR48.				.01	4	CM170.			294	C3	6	6D6, 6A7, 75, 42, 84.	456	7-1
6132.	Vol.		18	MR48.				12-16.	4	2P546.					5	6A8G, 6K7G, 6Q7G, 25A6G, 25Z6G.	465	7-1
6310.	Tone		57	MR48.				10.	15	BB12.					5	6A8G, 6K7G, 6Q7G, 6C5G, 48.	465	7-1
6310.	Vol.		18	MR48.				8-8.	23	2S567.					6	6C5G, 6J7G, 6K7G, 6Q7G, 6F6G, 5Y3.	456	7-2
7232, 7332 (32 V.).	Vol.		15	N.				8-8.	23	2S567.					6	6A8G, 6K7G, 6Q7G, 38, 48.	465	
8210.	Vol.		45	MR48.				12-6.	1	See Note.	B3		F251		5	76, 6D6, 6C6, 6A7, 42.	456	7-2
8210.	Tone		57	MR48.				10.	15	BB12.					8	6J7G, 6C5G, 6K7G, 6Q7G, 6G5, 6N6G, 5Y3G.	465	7-2
8232, 8332.	Vol.		15	MR48.				8, 8.	1	CS133.			F294	C3	8	6K7G, 6A8G, 6H6G, 6G5, 6J7G, 6F6G, 6X5G.	465	
8232, 8332.	Tone		34	N.				10.	15	BB12.					8	6K7G, 6A8G, 6H6G, 6G5, 6J7G, 6F6G, 6X5G.	465	
8410.	Vol.		18	MR48.				.01	1	BB40.	B14				8	6J7G, 6C5G, 6K7G, 6Q7G, 6G5, 6N6G, 5Y3G.	465	7-2
8410.	Tone		57	MR48.				8, 8.	3	RS213.					8	6J7G, 6C5G, 6K7G, 6Q7G, 6G5, 6N6G, 5Y3G.	465	7-2
8410.	Tone		57	MR48.				4.	3	BB60.					8	6J7G, 6C5G, 6K7G, 6Q7G, 6G5, 6N6G, 5Y3G.	465	7-2
U. S. RADIO & TELEVISION (Apex, Radio trope)	Vol.		58	F.				8, 8.	4	RS213.	B3				4	24A, 47, 80.		
3.	Vol.		6	G12.	6			4703.	1	CM172.					5	57, 58, 47, 80.	455	3-1,2
5A (AC) (Chassis 502).	Vol.		15	N.				3366.	28	CS131.					7	35, 24A, 27, 47, 80.	262	2-1,4
7 (AC).	Vol.		6	UC502.				3529.	28	CS131.					7	35, 24A, 27, 47, 80.	262	2-1,4
7D (Chassis 700).	Lclzr.		22	Y200MP.														
7D (Chassis 700).	Tone		6	G12.				8-8.	1	See Note.	B3				7	56, 57, 58, 47, 80.	455	4-1,2
7D (Chassis 700).	Tone		34	M.				8.	19	BB12.					7	56, 57, 58, 47, 80.	455	4-1,2
8 Series.	Vol.		15	O.				2803.	1	CS133.	B194				8	35, 27, 47, 80.	262	2-5,7
8 Series.	Tone		34	UC502.				2852.	17	CS123.					8	35, 27, 47, 80.	262	2-5,7
9 (Chassis 900, 902).	Vol.		15	M.				8-8.	28	CM172.					9	58, 57, 56, 46, 80.	262	3-3,4
9 (Chassis 900, 902).	Sen.		98	F.	6			8.	28	CS133.					9	58, 57, 56, 46, 80.	262	3-3,4
9 (Chassis 900, 902).	Tone		95	L.				4.	11	BB40.					9	58, 57, 56, 46, 80.	262	3-3,4
10.	Vol.		15	O.				2803.	1	CS133.					10	35, 27, 47, 80.	262	2-8,10
10.	Tone		44	UC502.				2719.	13	BB31.					10	35, 27, 47, 80.	262	2-8,10
10C (Chassis 1000-1001).	Vol.	2962.	15	O.				2803.	1	CS133.					10	35, 27, 47, 80.	262	2-11,14
10C (Chassis 1000-1001).	Tone	3838.	41	M.				2719.	13	BB31.					10	35, 27, 47, 80.	262	2-11,14
10C (Chassis 1000-1001).	Tone		41	M.				2852.	15	BB13.					10	35, 27, 47, 80.	262	2-11,14
12 (Class "B") (Chassis 1200).	Vol.		15	M.		See Note A27		4.	3	HS690.	B3				12	58, 56, 46, 57, 82.	262	4-3,4
12 (Class "B") (Chassis 1200).	Vol.		20	TRP606.		See Note A4		8-8-8.	3/18	See Note.	B3				12	58, 56, 46, 57, 82.	262	4-3,4
12 (Class "B") (Chassis 1200).	Tone		3.	L.		See Note A27		8.	16	BB13.					12	58, 56, 46, 57, 82.	262	4-3,4
12 (Class "B") (Chassis 1200).	Tone		21	N.		See Note A4		8.	16	BB13.					12	58, 56, 46, 57, 82.	262	4-3,4
12 (Class "B") (Chassis 1200).	Sen.		7/12	DRP316.														
19 (Chassis 900, 902).	Vol.		15	M.				8-8-8.	28	See Note.	B3				9	58, 57, 56, 46, 80.	262	3-3,4
19 (Chassis 900, 902).	Tone		95	L.				4.	3	BB20.					9	58, 57, 56, 46, 80.	262	3-3,4
19 (Chassis 900, 902).	Sen.		98	F.														

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
U. S. RADIO & TELE	VISION	—Continued																
20.....	Vol.		6	G12				8-8	25	See Note	B3				4	24A, 71A, 80		1-1,2
24 (Chassis 400)	Vol.		40	Y		6		8-8	1	CM172					4	17, 57, 80	455	3-5,6
25 (Chassis 500) (2 types)	Vol.	4242	6	G12		6		8-8	1	See Note	B3				5	57, 58, 17, 80	455	4-5,6
26.....	Vol.	2234A	6	G12				1942	1	HD681					5	24A, 15, 80		1-3,4
26P.....	Vol.	2234A	6	G12				2678	1	HD681					5	24A, 17, 80		1-3,4
27 (Early)	Vol.		42	UC500				8-8	1	See Note	B3				5	24A, 27, 45, 80		1-5
27 (Late)	Vol.	2068	6	G12		6		8-8	1	See Note	B3				5	24A, 27, 45, 80		1-5
27P.....	Vol.		6	G12				8-8	1	See Note	B3				5	24A, 27, 45, 80		1-6
28 (Early) (Late)	Phono.		87				See Note A5											
	Vol.		8	A400P				1-3-1	3	See Note	B1				8	24A, 27, 45, 80		1-7,8
	Tone		41	N														
29.....	Vol.		6	G12		6		8-8-8	1/14	See Note	B3				8	24A, 27, 45, 80		1-9
	Tone		41	N														
30 Auto.....	Vol.		7	UC501											5	24A, 26, 71A, 01A		2-16
31 Apex.....	Vol.		6	G12		6		8, 8, 8	28	HD681					8	27, 24A, 45, 80		1-10
	Tone		41	N														
31R (Remote Control)	Vol.		7	G				8, 8, 8	28	RS213					8	27, 24A, 45, 80		1-10
	Tone		41	N														
32 Series.....	Vol.		6	G12				8, 8, 8	28	RS213					7	45, 27, 24A, 80		1-11
	Tone		41	N														
33 (DC)	Vol.		6	G12											6	64, 71A		3-7,8
36, 37 Apex.....	Vol.		4	D12				1-1-1	3	See Note	B1				7	71A, 26, 27, 80		1-12
41 (60 Cycle)	Vol.		8	A400P				1-1.5-1	3	See Note	B1				8	27, 45, 80		1-13
42 (60 Cycle)	Vol.		8	A400P				1-1-1	3	See Note	B1				8	27, 45, 80		1-13
43 (25 Cycle)	Vol.		8	A400P				1-1.5-1	3	See Note	B1				8	27, 45, 80		1-13
44 (25 Cycle)	Vol.		8	A400P				1-1-1	3	See Note	B1				8	27, 45, 80		1-13
46, 46A, 47, 47A	Vol.		8	A400P				1-1.5-1	3	See Note	B1				7	27, 24A, 45, 80		1-14
48, 48A, 48W	Vol.		8	A400P				1-3-1	3	See Note	B1				8	27, 24A, 45, 80		1-15
	Tone		41	N														
49.....	Vol.		6	G12											5	24A, 26, 01A, 71A		1-15
69 (Chassis 906)	Vol.		15	N				4-4	12/19	2N516					9	32, 34, 30	262	3-9
	Tone		41	UC502														
80 (Case)	Vol.		4	D12			See Note A27								9	26, 27, 71A, 80		1-16
	Vol.		40	G12			See Note A4											
99 Series.....	Vol.	3406	6	G12				3366	1	CS133					5	24A, 35, 47, 80	262	2-17,18
	Vol.							2803	1	CS133								
120 Class "B" (Chassis 1200)	Vol.		15	M			See Note A27	4-8-8	3	See Note	B3				12	58, 56, 46, 57, 82	262	4-3,4
	Vol.		20	TM227-SS1			See Note A4	8	18	See Note	B3							
	Tone		1	L			See Note A27	8	17	BB13								
	Tone		21	N			See Note A4											
	Sen.		7/12	DRP316														
160, 250 (Chassis 90)	Vol.		40				See Note A5	2-2-2	1/14	See Note	B1				9	27, 45, 80		3-10
482.....	Vol.		8	A400P				1-3-1	3	See Note	B1				8	24A, 27, 45, 80		1-15
	Tone		41	N														
1006, 1007 Class "B"	Vol.		15	M				8-8-8	28	See Note	B3				10	58, 56, 46, 80	262	4-9,10
	Tone		95	K12				8-8		See Note	B3							
3040, 3056 (Chassis 507)	Vol.		6	Y				8-8	1	CM172					5	47, 57, 58, 80	455	3-11,12
	Vol.							4	17	BB12								
3070 (Chassis 1009)	Vol.		15	M				8-8	55	CM172					10	58, 56, 46, 80	262	4-11,12
	Tone		41	K12				4	55	CS131								
3092 (Chassis 513)	Vol.	6223	6	Y				4-12-4	11	UR182		B182			5	6F7, 78, 75, 43, 25Z5	455	5-1
UTAH PRODUCTS	CO.																	
400A Series.....	Vol.		15	M			See Note A4	8-8-4-2	37	See Note	B3				14	58, 55, 56, 57, 47, 80	180	
	Supp.		41	Y250MP				40	15	BB17								
400B.....	Vol.		33	M				8-8-4-2-2	3	See Note	B3				17	55, 58, 56, 57, 2A5, 5Z3	180	
	Tone		41	M				40	15	BB17								
	Supp.		41	UC501														
"B" Elim. (Non Sync.)								8	1	CS133								
								20		BB15			221	C3		84		1-1
								.02		Buffer		B14						
VICTOR—See RCA.																		
VOCO RADIO MFG.	CO., IN C.																	
V41N.....	Vol.		6	SRP263				8-4	4	See Note	B3				4	35, 24A, 47, 80		\$6-36
V60.....	Vol.		15	N				6-6	1	CM172					6	58, 57, 55, 47, 80	175	\$6-36
V80.....	Vol.		15	N						See Note	B3				8	58, 56, Wunderlich, 17, 80		\$6-37
V100.....	Vol.		15	N					1	See Note	B3				10	58, Wunderlich, 56, 47, 80		\$6-37

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
WALGREEN—AFTN B25-RS B66RIS	Vol.	2009C	18	MR48	M27										5	1C6, 1A4, 1B5, 30, 19	456	8-1
	Vol. Tone	24-101 26-102	18 21	MR48 MR53				1845 16-100 .01-.01	1 15	BB21 BB12 Buffer	B14	3407	246	C3	6	30, 1A6, 1A4, 6T7G, 6L5G, 19	456	11-3
M8 (Ch. M, ME)	Vol. Tone	2011 2012	18 34	MR48 Z12				317 364	1 15	RS213 BB12					8	6A7, 6D6, 7P6, 6F5G, 42, 6G5, 80	456	10-1
R31 (Ch. R)	Vol. Tone	2006	6	G12	6	EX300		316	8/15	TN122/BB12					4	6D6, 6C6, 43, 25Z5, L55B		10-3
10, 12 22U73	Vol. Tone	2055 2373	6 18 22	G12 N K12		EX200		14-8-5-5 2159	6/15 11	4S715 UR182					4 5	6D6, 6C6, 43, 25Z5 6A7, 6K7, 75, 43, 25Z5	465	11-1
32B 34B	Vol. Tone	2239 2260 2239	18 18 57	MR48 MR48 MR48	M27			2272 8876 .02	1 15	CM164 BB12 Buffer	B14	2269	245A	C3	4	1C6, 31, 1B5, 33 1C6, 34, 1B5, 38	465 465	10-4 10-5
41, 42 41A, 42A	Vol. Tone		7 7	G G				1 1 8	4 4 4	ST595 ST595 ST595					4 4	35, 24, 47, 80 58, 57, 47, 80		10-2 10-2
55-RS 57-RS	Vol. Tone	2009 2009	18 18	MR48 MR48	M26 M26			317 311 314	4 27 27	RS213 ST589 ST587					5 6	6A7, 6D6, 75, 42, 80 6A7, 6D6, 75, 43, 25Z5, 6G5	456	8-2
66	Vol.		18	MR48				16-8-5-5	1/15	UR189					5	6A7, 6D6, 75, 43, 25Z5	456	11-2
78RIS, C78RIS	Vol. Tone		18 22	MR48 MR33				40 16	23 23	WE4050 WE1650					8	6K7G, 6J7G, 6L7G, 6Q7G, 6V6, 6G5, 5Y4	456	12-1,2
99RIS, C99RIS	Vol. Tone		18 44	MR48 MR33				40, 40	23	WE4050					10	6K7G, 6J7G, 6L7G, 6Q7G, 6C5, 6V6, 5Y4, 6G5	456	12-2,3
166RIS	Vol. Tone	24-101 26-101	18 21	MR48 MR48	M26			18-202 18-201	25 25	RS215 RS215					6	76, 6A7, 6D6, 75, 42, 80	456	10-6
200	Vol.	2006	6	G12	6	EX300		316	24/15	TN122/TN111					4	6D6, 6C6, 43, 25Z5		11-3
204R	Vol.		6	MR39		EX350		12 16 344	4 4 1	RS215 RS216 2N512					4	6A7, 6C6, 42, 80	456	12-4
209	Vol.	2031	6	MR20	M26			16-12	27	2P546					2	12B8GT, 32L7GT		11-4
250	Vol.	W60	7	UM151-SS1				W70	1/15	UR188					4	78, 77, 38, 12Z3		11-5
252	Vol.		6	MR20	M26			16-12	27	2P546					4	6D6, 6C6, 43, 25Z5		11-6
253CL Early	Vol.		6	MR29	M26			16-12	27	2P546					4	6D6/6K7, 6C6/6J7, 43, 25Z5		12-4
253CL Late	Vol.		6	MR29	M26			16-12	27	2P546					5	6D6/6K7, 6C6/6J7, 43, 12Z3		12-4
255	Vol. Tone	2426 259	6 21	Y N	6	EX200		2525	1	RS208					4	6D6, 6C6, 25L6, 25Z5, R55CP		9-1
300CL	Vol.		18	MR48				8-8	23	RM262					6	6C6, 6D6, 75, 42, 76, 80		12-4
300, 300P Early	Vol. Tone		18 22	MR48				16-12	27	2P546					5	6A7, 6D6, 75, 43, 25Z5	465	11-7 12-4
300P Late	Vol.		18	MR48				16-8	11	2S569 BB31					5	6A7, 6D6, 75, 43, 25Z5	456	12-4
308 (Ch. 801, 802)	Vol. Tone		75 57	N				8	25	WE850 WE3050					8	6K7, 6L7, 6C5, 6F5, 6H6, 5Y3, 6F6	465	10-7
360 (Ch. HE)	Vol. Tone	2009	18 22	MR33 MR36	M26			311 314	27 27	BB25 BB22					6	6A7, 6D6, 75, 6G5, 43, 25Z5, L42C	456	10-3
370	Vol.	2009	18	MR48	M26			311 314	27 27	ST589 ST587					6	6A7, 6D6, 85, 43, 25Z5, 6G5 or L49C	456	8-4
400	Vol.		6	G12	6	EX200		4, 4 10	1 15	ST595 BB12					4	78, 77, 42, 80		10-8
400 Late	Vol.	V600	7	Z	6	EX100		C514 C520	1 15	2N518 TN111					4	39, 36, 41, 56		11-8
401	Vol.	1835	6	Y	6	EX200		1258 1260 8876 336	4 4 15 1	RS213 RS213 BB12 TN125					4	6D6, 6C6, 42, 80		10-9
404B, 404I	Vol.	2028	6	MR19	M26										4	6K7GT, 6J7GT, 25L6GT, 25Z6GT		11-9
409	Vol.	2009G	18	MR48	M27			10	12	BB33					4	1A7GT, 1N5GT, 1H15GT, 1Q5GT		11-9
410	Vol.	2032	6	MR28	M26			343	1	2N512					4	12K7GT, 12SQ7GT, 50L6GT, 45Z5GT		11-4
419	Vol.	2009G	18	MR48	M27			10	12	BB33					4	1A7GT, 1N5GT, 1H15GT, 1Q5GT		11-9
500 (2 Bands)	Vol. Tone		17 34	MR53 M				8-8 10	1 19	See Note BB12	B3				5	6A7, 78, 75, 42, 80	370	10-10
500 (3 Band)	Vol. Tone		17 34	MR53 M				8-8 10	1 19	See Note BB12	B3				5	6A7, 6D6, 75, 42, 80	370	10-10
502	Vol. Tone		6 22	MR22 MR33		EX250		8, 8	4	BB61					5	6A7, 6D6, 76, 42, 80	456	11-8
510 AC (Early)	Vol.		18	MR48	M26			8, 8	4	RS213					5	6A7, 6D6, 75, 42, 80	456	11-10
510 AC-DC (Late)	Vol.	2009F	18	UM154	M26		A96	344	1	2N512					5	12A8GT, 12K7GT, 12Q7GT, 50L6GT, 35Z5GT	456	11-11
525	Vol.	V601	17	N	6			C525	63	UR182					5	6D6, 75, 43, 25Z5	456	11-2

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WALGREEN—Continued																		
529	Vol.	2009E	18	UM154	M27		A96	345	76/78	TN129/ 11C2501					5	1A7G, 1N5G, 1H5G, 1T5GT, 25Z6GT	456 456	11-11 10-11
510	Vol.	P101-1	17	N	6			(525C/C525D)	11	UM182	B31				5	6D6, 75, 43, 25Z5	456	10-11
542	Vol.	24-127	6	UM154	M26		A96	19-234	1/15	FPT346					4	6D6, 6F5G, 25L6G, 25Z5	456	11-12
550AC	Vol.	P1008	17	N	6			P1003	4	2S567	B33				5	2A7, 5B, 2A6, 2A5, 80	456	10-12
550 Auto	Vol.		17	UM154				4-8-4	4	3S579		See Note	C6		5	6A7, 6D6, 75, 42, 84	456	10-11
575	Vol.	P101-10	6	K12	6	EX100		.0075	4	Buffer	B14				5	5B, 957, 2A5, 80	175	10-13
585 Ser. A	Vol.	P101-18	18	N	6			P119-6	4	2S567					5	6F7, 6D6, 75, 42, 80	370	10-14
600	Vol.		18	MR48	M26			P119-11	1	3S579					6	6A7, 6D6, 75, 42, 80	456	11-15
604	Tone		22	MR33				8-8	15	BB12					6	6D6, 75, 42, 76, 80	456	12-5
604	Vol.		18	MR48				8, 8	1	RS213					6	6D6, 75, 42, 76, 80	456	12-5
606	Tone		22	MR33				8, 8	1	RS213					6	6D6, 75, 42, 76, 80	456	12-5
606	Vol.		18	MR48				8, 8	1	RS213					6	6D6, 75, 42, 76, 80	456	12-5
630, 635, 652	Tone		22	MR33				8-8	1	2S567					6	6D6, 75, 6B5, 80, 76	456	9-1 & 12-2
630 (Revised)	Vol.	24-124	18	MR48	M26			18-232	6	2N509	BB				5	6A7, 6D6, 75, 25L6G, 25Z5, BK49B	455 456	12-2,5 11-15
650	Vol.		18	MR48	M26			18-235	15	BB12					6	6A7, 6D6, 75, 42, 80	456	11-15
650	Tone		22	MR33				8-8	1	2S567					6	6A7, 6D6, 75, 42, 80	456	11-15
651	Vol.	2055	18	N	6			10	15	BB12					6	6A7, 6D6, 75, 42, 80	465	10-15
651	Tone	2055	34	K12	6			1477	25	RS215					6	6A7, 6D6, 75, 42, 80	456	10-15
653	Vol.		18	MR48				1476	25	RS216					6	6D6, 75, 42, 76, 80	456	12-5
653	Tone		22	MR33				8, 8	1	RS213					6	6D6, 75, 42, 76, 80	456	12-5
660 (Early, 2 Types)	Vol. 1st		17	UM154			A96	4-4-8	1/13	CM175		501	C3		6	6D6, 6C6, 75, 41/12, 81	262.5 175	12-6 10-8
660 (Auto) Late	Vol. 2nd		17	UM161			A96	.0075	4	Buffer	B14				6	6D6, 6A7, 75, 89, 6Z4	456	10-8
660 (Auto) Late	Vol.	V603	17	N	6			C550	4	CM172		220B			6	57, 27, 5B, 2A6, 2A5, 80	370	10-16
675	Vol.	P101-11	18	N	6			P103-4	4	RS216					5	6A7, 6D6, 75, 43, 25Z5	456	8-2
700	Vol.		18	MR48				P103-3	4	RS216					5	6A7, 6D6, 75, 43, 25Z5	456	8-2
700	Tone		31	MR33				16, 16	27	BB24					7	6K7, 6A8, 6D6, 6F5, 6F6, 5Y3	465	11-13
750	Vol.	6216	75	N	6			3001	14	1M262					7	6A7, 6D6, 76, 6F5G, 42, 6G5, 80	456	10-1
800 (Ch. M. ME)	Vol.	2011	18	MR48				8814	14	BB160					8	6A7, 6D6, 75, 43, 25Z5	456	11-16
800 (Ch. M. ME)	Tone	2012	31	Z12	6			3003	15	BB12					5	6A7, 6D6, 75, 43, 25Z5	456	11-16
901	Vol.	64A	18	N	6			317	1	RS213					5	6A7, 6D6, 75, 43, 25Z5	456	11-16
1050	Vol.	P1025	15	N	6			364	15	BB12					10	5B, 2A7, 56, 345, 80, Tun-a-lite	175	10-17
1154	Tone		12	F7	6			16-16-8	63	2S560 BB21					4	6D6, 6C6, 43, 25Z5	456	10-18
1154	Vol.	9331	6	H7	6	2		99R2	11	UM182	B31				4	6D6, 6C6, 43, 25Z5	456	10-18
1154	Vol.		6	H7	6	2		1693	15	BB12					4	6D6, 6C6, 43, 25Z5	456	10-18
WALTHAM 32	Vol.		6	H12				8-8	4	See Note	B3				6	24A, 45, 80	456	3-1
WALTON RADIO CORP. Wal-Tone "EX"	Vol.		8	H		2		A403	4	CS133					6	56, 57, 58, 47, 80	457.5	
WARWICK 4 tube AC	Vol.		6	N			A11	A404	4	CS131					6	56, 57, 58, 47, 80	457.5	
5-Tube Super A. C.	Vol.		17	MR48	M26			12	4	RS215					4	6A7, 6C6, 42, 80	456	7-4
6-Tube AC Superhet	Vol.		17	MR48	M26			16	4	RS216					5	6A7, 6D6, 75, 42, 80	456	9-1
6 tube Auto.	Vol.		17	MR48	M26			8-8	4	2S567					6	6A7, 6D6, 75, 42, 80, 6G5	456	9-1
7 tube Battery	Vol.		17	UM162			See Note	8-8	4	2S567					6	6A7, 6D6, 75, 42, 80, 6G5	456	9-1
0-30	Tone		4	L				4-4-8	4/15	3S579	B14		501	C3	6	6D6, 6C6, 75, 42, 84	262.5	7-2
0-40	Vol.	24-138	18	MR48				.0075	4	Buffer	B14				6	IC6, 334, 1B5, 30, 19	456	7-3
0-41	Vol.	24-138	18	MR33			A96	18-251	24	2N513					3	12SA7GT, 25D8GT, 70A7GT	455	11-1
0-42	Vol.	24-138	18	MR53	M27			18-250	12	BB20					4	1A7GT, 1N5GT, 1H5GT, 1C3GT	455	11-1
0-43, 0-44	Vol.	24-149	18	MR53	M27			18-250	12	BB20					4	1A7GT, 1N5GT, 1H5GT, 1C3GT	455	12-1
0-46	Vol.	24-151	18	MR53	M27			18-250	12	BB20					4	1A7GT, 1N5GT, 1H5GT, 1C3GT	455	12-1
0-50	Vol.	24-138	18	UM161	M27		A96	18-251	12	BB20					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	11-2
0-51	Vol.	24-140	18	UM161	M27		A96	18-250	12	BB20					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	12-1
0-51	Vol.	24-140	18	UM154	M26		A96	18-257	76	TN129	BB				5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 75Z4GT	455	11-7
0-51	Vol.	24-140	18	UM154	M26		A96	18-258	76	BB22					5	6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-3
0-51	Vol.	24-140	18	UM154	M26		A96	18-259	78	BB19					5	6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-3
0-51	Vol.	24-140	18	UM154	M26		A96	18-254	1	TN139	B192				5	6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-3

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
WARWICK—Continued																		
0-53	Vol.	24-150	18	MK402				18-262 18-263	76 76/78	FPD208 2S551					5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	155	11-5
0-54	Vol.	24-142	18	UM154	M26		A96	18-241	22	2N507					5	12SA7GT, 12SK7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	12-3
0-60	Vol.	24-140	18	UM154	M26		A96	18-255	1	2N514					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	155	11-6
0-61	Vol.	24-142	18	UM154	M26		A96	18-241	1	2N507					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	155	11-7
0-62	Vol.	24-142	18	UM154	M26		A96	18-241	1	2N507					5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	455	11-2
0-63	Vol.	24-146	45	UM154	M26		A96	18-251 18-243	1 19	TN139 BB15	B192				6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-3
0-64	Vol.	24-144	18	UM154	M26		A96	18-251 18-243	1 19	TN139 BB15	B192				6	6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 6P5GT, 6SQ7GT	155	11-8
0-65	Vol.	24-145	45	UM154	M26		A96	18-251 18-243	1 19	TN139 BB15	B192				6	6SA7GT, 6SK7GT, 6SQ7GT, 5W4GT, 6P5GT, 6SQ7GT	155	11-9
0-66	Vol.	24-144	15	UM154	M26		A96	18-251 18-243	1 19	TN139 BB15	B192				6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-8
0-67	Vol.	24-146	45	UM154	M26		A96	18-251 18-243	1 19	TN139 BB15	B192				6	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	155	11-9
0-70	Vol.	24-147	18	500M			A19	18-251	1	TN139	B192				7	6SA7GT, 6SK7GT, 6SQ7GT, 6P5GT, 6K6GT, 5W4GT	455	11-10
0-71	Vol.	24-146	18	UM154	M26		A96	18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6P5GT, 25Z6GT	155	11-10
0-72	Vol.	24-145	18	UM154	M26		A96	18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6P5GT, 25Z6GT	155	11-11
0-73	Vol.	24-144	18	UM154	M26		A96	18-235	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6P5GT, 25Z6GT	455	11-11
0-74	Vol.	24-144	45	UM154	M26		A96	18-256 18-243	1 19	FPD234 BB15					7	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	455	11-12
0-75	Vol.	24-143	15	UM154	M26		A96	18-256 18-243	1 19	FPD234 BB15					7	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 5W4GT	155	11-12
0-76	Vol.	24-145	18	UM154	M26		A96	18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6P5GT, 25Z6GT	155	11-13
0-77	Vol.	24-146	15	UM154	M26		A96	18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6P5GT, 25Z6GT	155	11-14
0-78	Vol.	24-144	18	UM154	M26		A96	18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6P5GT, 25Z6GT	155	11-13
0-79	Vol.	24-144	18	UM154	M26		A96	18-251 18-243	1 19	TN139 BB15	B192				7	6SA7GT, 6SK7GT, 6SQ7GT, 6K6GT, 6P5GT, 6U5	155	11-15
0-80	Vol.	24-131	15	UM154			A96	18-256	1	FPD234					8	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6AC5GT, 5W4GT	155	11-14
0-81	Vol.	24-144	18	UM154	M26		A96	18-261	1	BB27					8	12SA7GT, 12SK7GT, 12SQ7GT, 12E5GT, 50L6GT, 35Z5GT	455	11-15
0-82, 0-82B, 0-82C	Vol.	24-144	45	UM154	M26		A96	18-256 18-243	1 19	FPD234 BB15					8	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 6U5, 5W4GT	155	11-16
0-83	Vol.	24-144	45	UM154	M26		A96	18-256 18-243	1 19	FPD234 BB15					8	6SA7GT, 6SK7GT, 6P5GT, 6SQ7GT, 6K6GT, 6U5, 5W4GT	155	11-16
0-84	Vol.	24-144	18	UM154	M26		A96	18-255	1	2N514					7	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT, 6U5, BM36C, 6P5GT	155	12-2
0-300 to 0-309 inc.	Vol.	24-139	18	UM154	M26		A96	18-251	24	2N513					3	12SA7GT, 25D8GT, 70A7GT	155	11-1

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WARWICK—Continued																		
0-407	Vol.	24-138	18	MR53	M27			18-250	12	BB20					4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	10-1
0-411	Vol.	24-138	18	MR53	M27			18-250	12	BB20					4	1A7GT, 1N5GT, 1H5GT, 1C5GT	455	12-1
0-430 to 0-439 inc., 0-440 to 0-119 inc.	Vol.	24-149	18	UM161	M27		A96	18-250	12	BB20					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	11-2
0-501	Vol.	24-138	18	MR53	M27			18-257 18-258 18-259	76 76 78	TN129 BB22 BB19	B8			5	1A7GT, 1N5GT, 1H5GT, 1A5GT, 35Z4GT	455	11-7	
0-530	Vol.	24-150	18	MK402				18-262 18-263	76 76/78	FPD208 2S554				5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-2	
0-610 to 0-619 inc.	Vol.	24-142	18	UM154	M26		A96	18-241	1	2N507				5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	455	11-7	
0-620 to 0-629 inc.	Vol.	24-142	18	UM154	M26		A96	18-241	1	2N507				5	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 25Z6GT	455	11-2	
1-40 (1-400 to 1-409)	Vol.	24-152	18	UM154	M26		A96	18-265	24/15	2N513/BB12				4	12SA7, 12SQ7, 50L6GT, 35Z5GT	455	12-3	
1-41	Vol.	24-152	18	UM154	M26		A96	18-265	24/15	2N513/BB12				4	12SA7, 12SQ7, 50L6GT, 35Z5GT	455	12-3	
1-42 (1-420 to 1-429)	Vol.	24-154	18	UM161	M27		A96	18-250	12	BB20				4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	12-4	
1-43 (1-430 to 1-439)	Vol.	24-148	18	UM161	M27		A96	18-250	12	BB20				4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	12-6	
1-50 (1-500 to 1-509)	Vol.	24-153	18	UM154	M26		A96	18-266	24	2N513				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-4	
1-52	Vol.	24-153	18	UM154	M26		A96	18-266	24	2N513				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-4	
1-53	Vol.	24-150	18	MK402				18-262 18-263	76 76/78	FPD208 2S554				5	1A7GT, 1N5GT, 1H5GT, 1T5GT, 35Z5GT	455	12-5	
1-60	Vol.	24-153	18	UM154	M26		A96	18-266	22	2N513				6	12SK7, 12SA7, 12SQ7, 35L6GT, 35Z5GT	455	12-5-6	
1-61	Vol.	24-146	18	UM154	M26		A96	18-267	1/15	FPT339	B3			6	6SK7, 6SA7, 6SQ7, 6K6GT, 5W4GT	455	12-5	
1-621, 1-622	Vol.	24-155	18	†			See Note	18-267	1/15	FPT339	B3			6	6SK7, 6SA7, 6SQ7, 6K6GT, 5W4GT	455	12-6	
9-21 Phono-Oscil.								18-241	24	2N507				2	6A7, 76		11-4	
9-23								18-241	24	2N507				2	12SA7, 35Z4GT		10-2	
9-41	Vol.	24-124	18	MR48	M26			18-236 .004	24	2N514 Buffer	B14	34-103	246A	C3	4	6D8G, 6S7G, 6T7G, 6G6G	455	11-17
9-42	Vol.	24-126	18	UM154	M27		A96	18-235	19	BB13				4	1A7G, 1N5G, 1H5G, 1A5G	455	11-19	
9-43, 9-45	Vol.	24-130	18	MR53	M27			18-243	19	BB12				4	1A7G, 1N5G, 1H5G, 1Q5G	455	10-3	
9-44	Vol.	24-124	18	MR48	M26			18-236 .004	24	2N514 Buffer	B14	34-103	246A	C3	4	6D8G, 6S7G, 6T7G, 6G6G	455	11-17
9-46	Vol.		6	MR21	M26			40-10-20	1/15	3N534				4	12K7GT, 12F5GT, 50L6GT, 35Z4GT		10-4	
9-51, 9-52	Vol.	24-127	6	UM122	M26		A96	40-10-20	1/15	3N534				4	6D6, 6F5G, 25L6G, 25Z5		11-18	
9-53	Vol.	24-130	18	MR53	M27			18-235	19	BB12				5	1A7G, 1N5G, 1H5G, 1A5G	455	10-7	
9-54	Vol.		6	UM122	M26		A96	40-10-20	1/15	3N534				4	6D6, 6F5G, 25L6G, 25Z5		11-18	
9-58	Vol.		18	MR48	M26			40-10-20	1/15	3N534				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT		10-6	
9-59	Vol.	24-135	18	MR53	M26			18-246 .005	1	Order from Buffer	Mfr. B14	34-102	850	C3	5	6SA7, 6D6, 75, 41, 84	455	10-8
9-61	Vol.		18	UM154	M26		A96	40-10-20	1/15	3N534				5	6A7, 6D6, 75, 25L6G, 25Z5		11-20	
9-62	Vol.	24-155	18	†			See Note	18-267	1/15	FPT339	B3			6	6SK7, 6SA7, 6SQ7, 6K6GT, 5W4GT	455	12-6	
9-63, 9-64	Vol.		18	UM154	M26		A96	40-10-20	1/15	3N534				5	6A7, 6D6, 75, 25L6G, 25Z5		11-20	
9-66	Vol.	24-124	18	MR48	M26			18-241	1	2N507				5	6A7, 6D6, 75, 25L6G, 25Z5, BK49B	455	10-9	
9-220 to 9-229 inc. (9-22)	Vol.	24-136	6	†			See Note	18-249	1	2N509				2	12B8GT, 35L7GT		10-10	
9-480 to 9-489 inc.	Vol.	24-130	18	MR53	M27			18-243	19	BB12				4	1A7G, 1N5G, 1H5G, 1Q5G	455	10-11	
9-550 to 9-559 inc.	Vol.	24-132	18	MR48	M26			18-241	1	2N507				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z4GT		10-12	
9-627	Vol.	24-119	18	UM154	M26		A96	18-240 .004	40	Order from Buffer	Mfr. B14	34-102	850	C3	6	6A7, 6D6, 6R7, 76, 41, 6Z4 or 84	456	11-21
9-670 to 9-679 inc.	Vol.	24-132	18	MR48	M26			18-241	1	2N507				5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, BK49B	455	10-12	

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WARWICK—Continued 9-680 to 9-689 inc.	Vol.	24-132	18	MR48	M26			18-241	1	2N507					5	6A8GT, 6K7GT, 6Q7GT, 25L6GT, 25Z6GT, 8K49H	455	10-11
10-70	Vol.	24-146	18	UM154	M26		A96	18-255	1	2N514					6	6SA7GT, 6SK7GT, 6SQ7GT, 25L6GT, 6P5GT, 25Z6GT	455	11-6
400	Vol.		18	MR48	M27			8-8 12 15	1 15	2N516 BB12					4	6A7, 34, 1B5, 41	456	9-2
401	Vol.	24-117	6	MR36	M26			18-219	24/15	4S715					4	6K7, 6F5, 25L6, 25Z6		10-13
401 LW	Vol.	24-117	6	MR36	M26			18-219	24/15	4S715					4	6K7, 6F5, 25L6, 25Z6		10-13
404	Vol.	24-117	6	MR36	M26			18-230	1/15	3N525					4	6K7, 6F5, 25L6, 25Z6		10-14
406	Vol.	24-124	18	MR48	M26			18-236	24	2N514		34-103	246A	C3	4	6D8G, 6S7G, 6T7G, 6G6G	455	11-17
419, 420	Vol.		6	H12		EX300		16-12	27	2P546	B14				4	6D6, 6C6, 43, 25Z5	456	7-3
453	Vol.	24-106	18	MR53	M26			1845 .008	15 4	2N516 Buffer	B14		246	C3	5	6D8G, 6S7G, 6T7G, 6N5, 1F5G	456	
501	Vol.		18	MR48				16-12	4	2P546	B14				5	6A7, 6D6, 75, 43, 25Z5	456	8-1
510C	Vol.		18	MR48	M26			8-8	4	RS213					5	6A7, 6D6, 75, 42, 80	456	10-14
515	Vol.	24-108	18	MR48	M26			18-102	1/15	2N518/BB12					5	6A7, 6D6, 75, 41, 80	456	
517	Vol.	24-104	17	MR53	M26			18-102	1/15	2N518/BB12					5	6A7, 6D6, 75, 41, 80	456	
518	Vol.	24-102	18	MR48	M26			18-102	1/15	2N518/BB12					5	6A7, 6D6, 75, 41, 80	456	8-2
520	Vol.		6	H12	6			8-4-10-10	24/15	2N502/TN111					4	6D6, 6C6, 43, 25Z5	456	7-3
521	Vol.	24-104	17	MR53	M26			18-102	1/15	2N518/BB12					5	6A7, 6D6, 75, 41, 80	456	
524	Vol.	24-112	6	MR44	M26			18-212	24	3N532					4	6D6, 6C6, 43, 25Z5, 155C	456	9-3
525	Vol.		18	MR48	M27			8-8	23	2S567					4	1C6, 34, 1B5, 33, 5E1	456	7-4
530	Vol.		18	MR48				8-8	20	BB12					5	6A7, 6D6, 75, 42, 80	456	7-4
536	Vol.	24-102	17	MR48	M26			16-100	20	BB12					4	1C6, 34, 1B5, 33, 5E1	456	8-2
537	Vol.	24-111	18	MR48	M27			16-100	19	BB12					4	1D7G, 1D5G, 1H6G, 1G5G, NB1	456	
542	Vol.		6	H12		EX300		16-12	27	2P546					4	6D6, 6C6, 43, 25Z5	456	7-4
542 Late	Vol.	24-127	6	UM122	M26		A96	40-10-20	1/15	3N534					4	6D6, 6F5G, 25L6G, 25Z5	456	10-10, 11-18
550C	Vol.		15	UM154			A96	4-8-1 .0075	4/15	3S579 Buffer	B14		504	C3	5	6C6, 6D6, 75, 42, 84	456	10-13
551	Vol.		17	MR18	M26			8-8	23	2S567					5	6A7, 6D6, 75, 42, 80	456	8-1
553	Vol.	24-106	18	MR53	M26			1845 .008	1	2N516 Buffer	B14	3407	246	C3	5	6D8G, 6S7G, 6T7G, 6N5, 1F5G	456	10-15
562	Vol.	24-105	18	MR48				1845	1	2N516		3407	246	C3	5	1C6, 1A4, 6T7G, 41, 6N5	456	
600	Tone	26-107	21			See Note	te A5	.01-.01		Buffer	B14				5	6A7, 6D6, 75, 42, 80	456	9-4
600	Tone	26-107	45	MR48	M27			8-8	1	2N518		3407	246	C3	6	1C6, 34, 30, 19	456	
601	Vol.	24-101	18	N				18-202	25	RS215					6	6A7, 76, 6D6, 75, 42, 80	456	8-3
601	Tone	26-101	21	N	6			18-201	25	RS215					6	6D6, 75, 42, 76, 80	456	10-7
604, 606	Vol.	26-101	18	MR48				8, 8	4	RS213					6	6A7, 6D6, 75, 42, 80	456	8-3
610	Vol.	24-106	15	MR53	M26			18-211	1	2N512					5	6A7, 6D6, 6Q7G, 25B5, 25Z5, 1L9B	456	10-17
613	Vol.	24-101	18	N				18-102	1/15	2N518/BB12					6	6A7, 6D6, 75, 41, 6G5, 80	456	8-3
613	Tone	26-101	21	N	6			18-102	1/15	2N518/BB12					6	6A7, 6D6, 75, 41, 6G5, 80	456	
623	Vol.	24-105	18	MR48				18-102	1/15	2N518/BB12					6	6A7, 6D6, 75, 41, 6G5, 80	456	
623	Tone	26-106	21	MR48	M26			18-102	1/15	2N518/BB12					6	6A7, 6D6, 75, 41, 6G5, 80	456	
629	Vol.	24-104	18	MR53	M26			18-102	1/15	2N518/BB12					6	6A7, 6D6, 75, 41, 6G5, 80	456	10-18
630, 631	Vol.		18	UM154	M26		A96	40-10-20	1/15	3N534					5	6A7, 6D6, 75, 25L6G, 25Z5	455	11-20
633	Vol.	24-101	18	N				18-102	1/15	2N518/BB12					6	6A7, 6D6, 75, 41, 6G5, 80	456	8-4
633	Tone	26-101	21	N	6			18-102	1/15	2N518/BB12					6	6A7, 6D6, 75, 41, 6G5, 80	456	
645	Vol.	24-105	18	MR48				18-102	1/15	2N518/BB12					6	6A7, 6D6, 75, 6G5, 41, 80	456	12-7
645	Tone	26-106	21	MR48	M26		A96	18-203	74/19	3S579	B14		294	C3	6	6K7, 6A8, 6D6, 75, 41, 84	262	8-1
646	Vol.		18	UM157				18-203	74/19	3S579	B14				6	6A7, 6D6, 75, 76, 6AC5G, 80	455	10-19
648, 648B, 655B	Vol.	24-121	127	MR53	M26			.005	1	2N518					6	1A6, 30, 1A4, 6T7G, 6L5G, 19	456	8-4
648, 648B, 655B	Tone	26-117	22	MR48				18-266	1	2N518					6	6A7, 6D6, 75, 76, 6AC5G, 80	455	10-19
651	Vol.	24-101	18	N				1845	1	2N516		3407	246	C3	6	1A6, 30, 1A4, 6T7G, 6L5G, 19	456	8-4
651	Tone	26-102	21			See Note	te A5	16-100 .01-.01	15	BB12 Buffer	B14				6	6D8G, 1D5GP, 6T7G, 1H1G, 1J6G	455	11-5
652B	Vol.	24-126	18	UM154	M27		A96	18-233	24	2N518		34-103	246A	C3	6	6D6, 75, 76, 42, 80	456	10-7
652B	Tone	26-118	22	MR48				.002	4	RS213					6	30, 1A6, 1A4, 6T7G, 6L5G, 19	456	10-20
653	Vol.	24-105	18	MR48				8, 8	4	RS213					6	6A7, 6D6, 75, 76, 6AC5G, 80	455	10-22
653	Tone	26-106	21	MR48	M26			8, 8	4	RS213					6	6A7, 6D6, 75, 76, 6AC5G, 80	455	10-22
654	Vol.	24-105	18	MR48				18-45	1	BB12		3407	246	C3	6	6V6G, 6G5, 80	456	10-23
654	Tone	26-107	21			See Note	te A5	16-100 .01-.01	15	BB12 Buffer	B14				6	6A7, 6D6, 6Q7G, 6V6G, 6G5, 80	456	9-5
668, 668B	Vol.	24-123	127	MR53	M26			18-226	1	2N518					6	6A7, 6D6, 75, 76, 6AC5G, 80	455	10-22
668, 668B	Tone	26-118	22	MR48				18-226	1	2N518					6	6A7, 6D6, 75, 76, 6AC5G, 80	455	10-22
683	Vol.	24-109	18	MR48				18-213	4	2S567					6	6A7, 6D6, 6Q7G, 6V6G, 6G5, 80	456	10-23
683	Tone	26-108	21			See Note	te A5	18-213	4	2S567					6	6A7, 6D6, 6Q7G, 6V6G, 6G5, 80	456	9-5
700	Vol.		45	MR48	M27			8-8	1	2N518			246	C3	7	1C6, 34, 1A4, 30, 19	456	
700	Tone	26-108	22	MR33				.0075		Buffer	B14				7	1C6, 34, 1A4, 30, 19	456	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
WARWICK—Continued																			
701	Vol. Tone	24-101	18	N				18-202	25	RS215					7	6A7, 76, 6D6, 75, 42, 6G5, 80	456	9-6	
		26-101	21	N				18-201	25	RS215									
710	Vol.	24-106	17	MR53	M26			18-211	1	2N512	B66				6	6A7, 6D6, 6Q7G, 6G5, 25B5, 25Z5, 1A2B	456		
715A	Vol.		17	MR53	M26			18-211	1	2N512	B66				6	6A7, 6D6, 6Q7G, 6G5, 25B5, 25Z5, 1A2B	456		
725	Vol. Tone		18	MR48	M27										6	1C6, 13A, 1B5, 30, 19, 6E1	456	9-7	
			22	MR33															
735	Vol.	24-105	18	MR48				18-202	25	RS215					7	6A7, 6D6, 76, 6Q7G, 6V6G, 6G5, 80	456		
	Vol. Tone	26-106	21	MR48	M26			18-201	25	RS215									
741	Vol.	24-101	18	N				18-200	23	CM172					7	6A7, 76, 6D6, 75, 41, 6G5, 80	456	9-8	
	Vol. Tone	26-101	21	N															
746	Vol. Tone		18	UM157			A96	18-204	24/15	3S579		294		C3	7	6K7, 6A8, 6K7G, 6Q7G, 6J5G, 6N7G, 0Z4	262		
			22	Order from Mfr.				.008		Buffer	B14								
747	Vol. Tone	24-103	18	UM157			A96	18-221	23	2S567		34-101	850	C3	7	6K7/G, 6A8, 6R7G, 6V6G, 6R7, 6X5G	262	10-25	
		26-114	22			See Note	A5	.005		Buffer	B14				6	6A7, 6D6, 75, 25L6G, 25Z5, BM17C	456	10-26	
749	Vol. Tone	24-123	18	MR53	M26			18-237	4	2S558									
	Vol. Tone	26-118	22	MR48				18-238	15	BB12									
751	Vol.	24-101	18	N				18-15	1	2N516		3407	246	C3	7	1A6, 30, 1A4, 6T7G, 6L5G, 19, 6N5	456	9-10	
	Vol. Tone	26-102	21			See Note	A5	16-100	15	BB12	B14								
761	Vol. Tone	24-101	18	N				.01-.01	1	2N516		3407	246	C3	7	6D8G, 30, 1A4, 6T7G, 6L5G, 19	456		
		26-102	21			See Note	A5	16-100	15	BB12	B14								
768, 768B	Vol. Tone	24-123	127	MR53	M26			.01-.01	1	2N518									
		26-118	22	MR48				18-226	1										
780	Vol. Tone	24-101	18	N															
	Vol. Tone	26-102	21			See Note	A5												
846	Vol. Tone	24-103	18	UM157			A96	18-204	24/15	3S579		294		C3	8	6K7, 6A8, 6K7G, 6Q7G, 6J5G, 6N7G, 0Z4	262		
			22	Order from Mfr.				.008		Buffer	B14								
871, 872	Vol. Tone	24-105	18	MR48				18-202	1	RS215									
		26-106	21			See Note	A5	18-201	1	RS215									
881, 885	Vol. Tone	24-113	148			See Note	A5	18-202	1	RS215									
		26-110	41			See Note	A5	18-201	1	RS215									
910	Vol.	24-155	18			See Note	A5	18-267	1/15	F1P1339	B3				6	6SK7, 6SA7, 6S07, 6K6GT, 5W4GT	455	12-6	
1101, 1105	Vol. Tone	24-115	148			See Note	A5	18-214	1	RS216					11	6C5G, 6ABG, 6K7G, 6L16G, 6G5, 6J7G, 6V6G, 80	456		
		26-112	44	Order from Mfr.				18-215	1	RS215									
								18-216	13	BB31									
WATTERSON																			
49	Vol. Tone		18	UM154	M27		A96	10	19	BB12					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-8	
			34	UM133			A96	8-4	23	2S567					5	6A7, 6D6, 75, 42, 80	463	12-2	
56AC	Vol. Tone		18	MR48															
	Vol. Tone		34				A5	2767	25	RS216					5	6A7, 6D6, 75, 41, 1V	456	12-2	
57	Vol.	3361	18	N	6			3351	25	WE350									
60B	Vol.		6	H12											5	32, 34, 33, 30, 6AA	456	12-1	
68, 69	Vol. Tone		45	MR48				8-4	23	2S567					6	6A7, 6D6, 76, 6K5, 42, 80	456	11-8	
	Vol. Tone		34			See Note	A5												
79	Vol. Tone	24-123	127	MR53	M26			18-226	1	2S568					7	6A7, 6D6, 75, 76, 6AC5G, 6G5, 80	455	12-3	
	Vol. Tone	26-118	22	MR48				8-4	23	2S567					6	6A7, 6D6, 76, 6K5, 42, 80	456	11-8	
95	Vol. Tone		45	MR48															
	Vol. Tone		34			See Note	A5												
400 (1936)	Vol.		6	MR19	M26			16-12	23	2P546					4	6D6, 6C6, 43, 25Z5	456	11-8	
AC405	Vol.		18	MR48				12-4	25	2S568					5	6A8G, 6U7G, 75, 41, 80	456	12-4	
406	Vol.	24-124	18	MR48	M26			18-236	24	2N514		34-103	246A	C3	4	6D8G, 6S7G, 6T7G, 6C6G	455	12-3	
AC406	Vol.		18	MR48				.004	1	Buffer	B14				6	6A8G, 6U7G, 75, 6P5G, 6AC5G, 80	456	12-3	
			20					8	1	BB61									
1440	Vol. Tone		18	UM154	M27		A96	10	19	BB12					4	1A7G, 1N5G, 1H5G, 1C5G	455	11-8	
	Vol. Tone		34	UM133			A96	16-12	23	2P546					4	6D6, 6C6, 43, 25Z5	456	11-8	
500	Vol.		6	MR19	M26			12-4	25	2S568					5	6A8G, 6U7G, 75, 41, 80	456	12-4	
1.540, 1.540W	Vol.		18	MR48				8-8	1	2N518		3407	246	C3	6	1C6, 13A, 30, 19	456	12-2	
6V600	Vol. Tone		45	MR48	M27			.01		Buffer	B14								
	Vol. Tone		22	MR33				10	6	2N515					5	6A7, 6D6, 75, 25L6G, 25Z5, BK49B	455	12-1	
630	Vol.		18	UM154	M26		A96	10	15	BB12									
			18					20	1	ST598					6	6A8G, 6U7G, 75, 6P5G, 6AC5G, 80	456	12-3	
1.640W	Vol.		18	MR48				8	1	BB61									
			18					15-15-40	1/15	2N516		3407	246	C3	6	30, 1A6, 1A4, 6T7G, 6L5G, 19	456	12-1	
W651	Vol. Tone	24-101	18	N				.01-.01	15	BB12	B14								
		26-102	21			See Note	A5			Buffer	B14								
669	Vol. Tone		45	MR48				.02	1/15	F1P1338					6	6A8, 6S7, 6L5, 1J6	465	12-3	
			34			See Note	A5			Buffer	B14		See Note	C8					

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WEBSTER CO.																		
OC2	Vol.		35	B				20-8	1	2N507					3	6J7, 25A6, 25Z6, R3003		8-1
OC2A	Vol.		35	B				12, 12	15	BB12					3	6J7, 25L6, 25Z6, R3003		8-1
C (OX and OXM)	Vol.		35	UM118-SS4				16-16	1	2N506					3	6J7, 25L6, 25Z6, R3003		8-2
D (OC3 to OC10)	Vol.		35	†		See Note A5		16-16	24	2N506					3	6J7, 25L6, 25Z6, R3003		8-2
B53	Vol. Phono.		†	†		See Note A5		8-8-8	3	See Note	B3				4	2A6, 253, 82		5-2
HG417	Vol. Phono. Tone		15	O				8-8-8-8	3/13	See Note	B3				6	57, 53, 2A5, 5Z3		36-38
K358A	Vol. Phono.		16	K12				12	15	BB12					5	57, 56, 2A3, 83		5-4
K359A	Vol. Mic. Adj.		16	K12 M100P				8	14	BB31					5	† 1.2A3, 83		5-4
PA17	Vol. Phono.		16	L				8, 8, 8, 8	3	RS213	B3				5	58, 56, 2116, 5Z3		5-1
PA42	Vol. Phono. Tone		16	K12				20-20	15	BB15					4	79, 42, 82		5-1
WR85	Vol. V.R. P.E. Adj. Tone		15	G12				8-8	1	See Note	B3				4			
			†	G12				20	†	BB15					5	58, 56, 2A5, 80		2-3
			†	Order from M50MP	Mfr.			8-8-8	3	See Note	B3				5			
			†			See Note A5		8	13	BB61								
WELLS-GARDNER & CO.																		
A1	Vol. Tone	"Gulbransen" 36X235 40X223	75 34	"True tone"—(See N. UC502)	Trade 6	Names)		44X31	23	RS215					8	6J7, 6K7, 6116, 6C5, 6G5, 6F5, 6F6, 5Y3, or glass equivalents	456	9-14,16
A2	Vol. Tone	36X236 40X224	15 34	TM228-SS1 MR53	M26			44X30	25	RS216					11	†6K7, †6J7, †6C5, 6116, 6G5, †6F6, 5Y3, or glass equivalents	456	9-21,23
A3	Vol. Tone	36X238 40X225	15 41	TM250-SS1 P	M26			44X11	25	WE1835					13	†6K7, †6J7, †6C5, 6116, 6G5, †6L6, †5Y3	456	9-17,20
A4	Vol. Tone	36X235 40X223	18 34	N	6			44X21	25	WE3050					7	6J7, 6K7, 6C5, 6Q7, 6G5, 6F6, 5Y3G	456	9-25
A5	Vol. Tone	36X236 40X223	75 34	TM228-SS1 L	M26			44X36	25	WE4030					9	†6K7, †6J7, †6C5, 6G5, 6116, 6F5, 6F6, 5Y3G	456	9-27
A6	Vol. Tone	36X238 40X225	15 41	TM250-SS1 P	M26			44X31	23	RS215					13	†6K7, †6J7, †6C5, 6116, 6G5, †6L6, †5Y3	456	9-17,20
A8	Vol.	36X227	18	UM154	M26	A96		44X31	19	BB15					6	6A8, 6K7, 6Q7, 6F6, 6G5, 5W4	456	10-25
A10	Vol. Tone	36X243 40X227	18 34	MR48 MR39	M26			44X32	23	RS215					7	6A8G, 6U7G, 6Q7G, 6K6G, 6J5G, 6U5, 5Y3G	456	10-27,28
A11	Vol.	36X244	71	UM120-SS18	M26			44X37	23	WE2050					4	†6J7, 25L6G, 25Z6G, L55B	456	
A12	Vol. Tone	36X245 40X228	20 34	TM247-SS25 MK402				44X37	23	WE2050					11	†6U7G, †6J7G, †6J5G, 6U5, 6116, †6F6G, 5Y3G	456	9-36,38 and 10-31,32
A13	Vol. Tone	36X249 40X229	127 34	UM165-SS25 UM144-SS25	M26			44X38	23	WE4030					7	6A8G, 6U7G, 6Q7G, 6J5G, 6K6G, 6U5, 5Y3G	456	10-33,34
A14	Vol. Tone	36X250 40X228	20 34	TM247-SS25 MK402	M26			44X39	23	WE4030					11	†6U7G, †6J7G, 6J5G, 6116, 6U5, 6F5G, 6K6G, 5Y3G	456	9-39,40
A15	Vol. Tone	36X249 40X229	127 34	UM165-SS25 UM144-SS25	M26			44X40	23	WE2050					7	6A8G, 6U7G, 6J5G, 6U5, 6Q7G, 6K6G, 5Y3G	456	10-35,36
A16	Vol. Tone	36X253 40X232	20 21	TM250-SS1 Order from Mfr.				44X21	25	WE3050					13	†6U7G, †6J7G, 6116, 6J5G, 6F8G, 6U5, †6F6G, 5U4G	456	10-37-39
A17	Vol. Tone	36X251 40X230	45 34	UM163-SS22 UM161-SS22	M26	See Note A100		44X36	25	WE4030					11	†6K6, 6C6, †76, 6U5, †41, 80	465	
A20	Vol. Tone	36X255 40X235	17 22	TM247-SS25 UM165-SS25	M26			44X24	19	BB19					9	6A7, 6D6, †76, 75, 6U5, †41, 80	456	10-41,42

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WELLS-GARDNER & CO.— A22.....	Continued Vol. 36X255 Tone 40X235	17 22	TM247-SS25 UM165-SS25	M26			44X41 44X42 45X247 45X239	23 23 13 15	WE2050 WE4030 BB40 BB12					9	6A7, 6D6, 75, 76, 6U5, 341, 80	456		
A23.....	Vol. 36X256 Tone 40X238	76 76	MR48 MR57	M26			44X42 44X41	23 23	WE4030 WE2050					7	6A7, 6D6, 75, 76, 6U5, 41, 80	156	10-45	
A24.....	Vol. 36X255 Tone 40X235	17 22	TM247-SS25 UM165-SS25	M26			44X43 44X44 45X247 45X239	23 23 13 15	WE2050 WE4030 BB40 BB12					9	6A7, 6D6, 75, 76, 6U5, 341, 80	456		
B1.....	Vol. 36X237 Fil. 43X70	18 27	MR53 C6R	M27			4 45X225	12 13	BB31 2N502					4	1D7G, 1D5G, 1H6G, 1F5G	456	10-9	
B2.....	Vol. 36X239 Tone 40X226	45 44	MR53 MR42	M26			45X225	13	2N514					7	1C7G, 1D5G, 1H4G, 1E5G	456		
B2A.....	Vol. 36X239 Tone 40X226	18 44	MR53 MR42				45X225 45X234 45X233 .02	13 1 1	2N514 2N514 Order from Buffer	Mfr.	19A28	246	C3	7	1C7G, 1D5G, 1H4G, 1E5G	456	10-13,14	
B3, B4.....	Vol. 36X258	18	MR48	M27			45X250	12	BB31					5	1A7G, 1N5G, 1H5G, 1C5G	456		
C6.....	Vol. 36X248	15	MR55	M26			45X236 45X239 .018	24 15 1	3S578 BB12 Buffer			952W	C3	5	6A8G, 6U7G, 6H6, 6F5G, 6K6G	456	9-31	
C7.....	Vol. 36X246	17	UM163	M26		A96	45X235 45X240 45X239 .008	1 13 15	2N518 BB40 BB12 Buffer	B14	19A33	952W	C3	6	6U7G, 6J7G, 6B8G, 6K6G, 6N7G	175		
C11.....	Vol. 36X246 Tone	127 22	UM163 UM163			A96 A96	45X235 45X240 45X239 .008	13 1 15	2N518 BB60 BB12 Buffer	B14	19A33	248	C3	6	6U7G, 6J7G, 6B8G, 6K6G, 6N7G	175	10-29	
C13, C14.....	Vol. 36X275 Tone 40X212	124 22	Order from MR55	Mfr.			40-20-20 .008	24/15 2	F1T346 Buffer	B14	19A33	248	C3	6	6SA7, 6SK7, 6B8G, 6K6G, 6N7G	456		
0C Series (20C5)	Vol. P96005 Tone P97003	15 41	MR55 UC504	M26			P81039 P81018	2 2/13	RS216 CM175					10	6D16, 76, 345, 80	456	5-1,2	
0DM.....	Vol. P36X206 Tone P40X205	7/15 41	DRP315 UC501	6T			44X10 44X11 44X18 44X10 44X11	4 1 13 25	RS216 RS216 RS216 RS216					11	6K7, 6C5, 6G5, 6F6, 5Z4MG	456	8-1,4	
OEL.....	Vol. P36X219 Tone P40X213	62 65	TM247-SS1 Order from	M26 Mfr.			44X213 P45X214	13/15 12	BB20/BB12 CM175					10	330, 32, 334	456	8-5,7	
OF Series.....	Vol. P36X220 Tone P40X211	64 44	TM247-SS1 Order from	M24 Mfr.			45X214	13	TN120					11	334, 32, 6N5, 330	456		
OFLB.....	Vol. P36X220 Tone P40X211	45 44	TM247-SS1 Order from	M26 Mfr.			45X226 45X228 .01	23 1	2P549 Order from Buffer	Mfr. B14				9	334, 330, 10AB	175	4-1	
00A.....	Vol. P96009 Tone P97005	62 44	O UC502				80968	12	BB31					10	58, 56, 345, 80	175		
00B.....	Vol. P96011 Tone P97009	15 41	P UC504	6			P80990 P81000	2 2/13	RS216 2N518					6	6D8G, 6S7G, 6T7G, 6AB5, 6G6G	456		
S2.....	Vol. 36X249 Tone 40X231	17 22	UM165-SS25 Order from	M26 Mfr.			45X243 45X239 .015	1/15 15	3S578 BB12 Buffer	B14	19A28	246	C3	6	6A8G, 6U7G, 6V7G, 6C5G, 25A6G, 6N7G	456		
T1.....	Vol. 36X213 Tone 40X209	18 44	N Z12	6			45X227	12/15	BB19/BB12					7	6A8G, 6U7G, 6V7G, 6C5G, 25A6G, 6N7G	456		
T2.....	Vol. 36X252 Tone 40X229	17 41	UM165-SS25 UM144-SS25	M26			45X241	12/15	BB14/BB15					7	6A8G, 6U7G, 6V7G, 25A6G, 6J5G, 6N7G	456	10-15,16	
T3.....	Vol. 36X252 Tone 40X229	17 41	MR57 UM147-SS25	M26			45X241	12/15	2N514					7	6A8G, 6U7G, 6V7G, 6J5G, 25A6G, 6N7G	456	10-17,18	
02A.....	Vol. P96008 Tone P97006	17 41	P UC504	6			P80984	2/13/14	UR191/BB21	B164				12	58, 55, 345, 345, 82	175	4-2	
02AA.....	Vol. P97006 Tone P97009	17 41	P UC504	6			P80984	2/13/14	UR191/BB21	B164				12	58, 55, 345, 345, 82	175		
022.....	Vol. P97009 Tone 91032 Supp.	45 41 8	Z12 UC502 E				8 8 4 4	58 58 58 19	HD682 RS213 RS213 BB20					12	58, 56, 357, 346, 82	175	4-10	
05A.....	Vol. P91019C	6	G12	6	EX300		P80944 80878C 80936C 80944E	11 19 15 11	UR193 BB20 BB12 SH631					5	77, 78, 43, 25Z5	262	4-3	
05AA.....	Vol. P91019D	6	H12	6			80944E	11	SH631					5	6C6, 36D6, 43, 25Z5	262	1-1	
05BA.....	Vol. P91019D	6	H12	6			80944E	11	SH631					5	6C6, 36D6, 43, 25Z5	262	1-5	
052 Series.....	Vol. P91019D	6	H12	6	EX300		8-B	4	CM172					5	35, 47, 80	262	2-1	
06A.....	Vol. P96001	97	TRP602	14			P80968	12	BB31					5	32, 334, 19, 30	175	1-6	
06W.....	Vol. P91061 Tone P91013	18 44	UM154 UC502	M26		A96	P80939 P80937 .01	2 14/15	2N519 2N516 Buffer	B14	P1765	210	C5	6	78, 77, 85, 341	262	4-7,8	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WELLS-GARDNER & CO. 06Z.....	Continued Vol.	P91066	17	UM154	M26		A96	P80956	25/19	RM262/BB15	B126	P1926	292	C12	6	78, 77, 75, 41, 84	262	
062 (Auto Set).....	Vol.		45	N				P80937	14/15	2N516					6	39, 37, 36, 38	262	3-1
062A.....	Vol.		45	UM154			A96	4		Buffer	B14		205		6	39, 36, 37, 41	262	5-8
07A.....	Vol.		15	O	6			P80990	25	RS216					7	6D6, 6C6, 37, 42, 80	175	4-9
072.....	Vol.		22	UC502				P80916	25	RS213					7	39, 36, 37, 38	262	
073.....	Vol.		18	N				P80902	13/15	See Note	B3		210		7	36, 39, 341	175	4-11
092 Series Battery..	Vol.		44	UC502				4		BB31					7	34, 30	175	3-2
1A17.....	Vol.		22	K12				P80878C	12	BB31					9	6D6, 6C6, 476, 41, 6U5, 80	456	11-1
1A29 Early.....	Vol.		22	UC502				20		WE2050					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-3.4
1A29 Issue D.....	Vol.		45	N				40		WE4050					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
2B Series (22B5)...	Vol.	P96005	15	MR55	M26			10		BB12					11	6D6, 76, 42, 80	456	6-1.3
2CM.....	Vol.	P97011	21	UC502				14		RS216					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	6-1.3
2DL.....	Vol.	P96005	21	UC502				40		WE4050					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
2CM.....	Vol.	P97011	21	UC502				10		BB42					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
2DL.....	Vol.	P36X221	20	TM250-SS1	M26		A19	10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
5B.....	Vol.	P91019C	6	G12	6	EX300		10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
5C6.....	Vol.	P91019C	6	G12	6	EX300		10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
5D Series.....	Vol.	P96019	6	H12	6			10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
5E Series (25E1, 25E5).....	Vol.	P96001	97	TRP602	14			10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
5F, 5FL.....	Vol.	P96001	18	MR48				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
5G Series (35G510, 35G560).....	Vol.	P96001	97	TRP617	14			10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
5 Tube D. C. Model	Vol.	P90928	6	H12			A14	10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
Series 511.....	Vol.	P90920	21	O				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
5K, 5KL.....	Vol.	P96017	17	P	6			10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
5Y Series (25Y1)...	Vol.	P96017	17	P	6			10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6B Series (26B1, 26B5).....	Vol.	P96014	56	N				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6C Series.....	Vol.	P96018	17	P				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6C1.....	Vol.	P97014	34	UC502				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6C7.....	Vol.	P97014	34	UC502				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6D.....	Vol.	36X234	18	UM147-SS3	M26			10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6E.....	Vol.	40X207	22	UC502				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6F.....	Vol.	36X246	127	UM163	M26		A96	10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6G.....	Vol.	36X213	18	MR48	M26			10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6H.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6I.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6J.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6K.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6L.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6M.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6N.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6O.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6P.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6Q.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6R.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6S.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6T.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6U.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6V.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6W.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6X.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6Y.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6
6Z.....	Vol.	36X213	44	Z12				10		BB12					11	6SK7, 6SA7, 6P5G, 6C8G, 6SQ7, 6V6G, 5Y3G, 6U5	456	11-5.6

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
WELLS-GARDNER & CO.—	Continued																		
6L.....	Vol. 36X216	18	UM154-SS3	M26			45X210	4	CM172			19A25	294	C3	6	6D6, 6C6, 75, 41, 84.	175	7-22,23	
	Tone 40X207	22	UC502				.0075		Buffer	B14									
6N, 6R.....	Vol. 36X200	17	UM163	M26		A96	E45X206C	4/15	3S579			19A25	294	C3	6	6D6, 6C6, 75, 41, 84.	175	7-24,28	
	Tone 40X207	34	UC502				.0075		Buffer	B14									
6S (26S1).....	Vol. 36X200	17	UM163-SS3	M26			45X204	1	2N518				253	C3	6	6D6, 6C6, 75, 41, 84.	175	8-20,22	
	Tone 40X201	22	M				45X203	15	TN111										
6 Tube 32 Volt.....	Vol.	56	N				.01		Buffer	B14									
	Tone	34	UC502				P81016	23	CM172				F251	C3	6	6F7, 6D6, 6B7, 12A5,	175		
6U Series (26U1).....	Vol. P96015	18	UC511	6			.015	1	Buffer	B14		2080	253	C3	6	78, 77, 75, 41, 84.	262	5-5,7	
	Tone P97012	22	UC502				P81028	15	2N518			2110	253	C3					
7C Series (27C1, 27C5).....	Vol. P96012	45	O				.01		TN111	B14									
7D Series (27D1, 27D5).....	Vol. P96014	56	N	6			P81014	12	CM164							7	34, 30, 19	175	6-18,19
	Tone P97011	34	UC502				P81043	4	RS216	B10						7	76, 6D6, 6B7, 42, 80	456	5-9,10
							P81042	4	RS216	B10									
							P80916	4	RS213										
7E.....	Vol. 36X209	45	MR53	M27			P81032	4	RS213										
	Tone 40X203	44	UC502				P44X17	40	RS207										
7F, 7FL.....	Vol. 36X215	17	TRP612	6T			44X10	23	RS216										
	Tone 40X211	34	Order from Mfr.				44X11	23	WE1835										
							45X209	15	BB12										
7GM Series (37G508, 37G566).....	Vol. 36X204	7/56	DRP314	6T			44X10	23	RS216										
	Tone 40X203	34	UC502				44X11	23	WE1835										
7H Series (37H508, 37H566).....	Vol.	45	O	14			20	12	BB25										
	Tone	44	MR42																
7J.....	Vol. 36X205	56	N	6			44X11	23	WE1835										
	Tone 40X204	34	UC502				44X10	23	RS216										
7K.....	Vol.	7/56	DRP314	6			44X10	23	RS216										
	Tone	34	UC502				44X11	23	WE1835										
7L.....	Vol. 36X215	17	TRP612	6T			44X10	23	RS216										
	Tone 40X211	34	Order from Mfr.				44X11	23	WE1835										
							45X209	15	BB12										
7P.....	Vol. 36X213	18	N	6			45X217	12/15	2N512										
	Tone 40X209	44	Z12																
7Q.....	Vol. 36X222	45	MR53	M27			P45X215	1/13	RM259			19A27		Order from Mfr.					
	Tone 40X215	44	UC502				P44X17	1	RS207										
							.01		Buffer	B14									
8A30.....	Vol. & Tone 36X241	124	Order from Mfr.				20	23	WE2050										
							40	23	WE4050										
8A31.....	Vol.	124				A19	20	23	WE2050										
	Tone	22	UM165			A96	40	23	WE4050										
8T (AC).....	Vol.	2/7	GG				40	23	See Note	B1									
	Tone	41	O																
9 in Line.....	Vol. P917	1/15	DRP241				2-1-1-1.5	3	See Note	B1									
9B Series (29B5).....	Vol. P96016	15	P				P82001	24	2N516										
	Tone P97013	41	K12																
9C.....	Vol.	15	MR55				P82001	13	2N516										
	Tone	44	UC502																
10-7 Tube Super.....	Vol.	7	F		2		89848	23	RS213										
	Tone	103	O	6			80849	23	RS213										
20 Series.....	Vol.	78	N				8, 8, 8	30	RS213										
	Tone	41	P	6															
20C5.....	Vol. P96005	15	MR55	M26			P81039	2	RS216										
	Tone P97003	41	UC504				P81018	2/13	CM175										
27D.....	Vol. P96014	17	MR48	M26			P80916	23	RS213										
	Tone P97011	34	UC502				P81043	23	RS216	B20									
29B.....	Vol. P96016	15	MR55				P82011	12/13	2N516										
	Tone P97013	44	K12																
40.....	Vol.	111	Y5MP				P80896	30	CM175										
	Tone	34	UC502				P80878	13	BB31										
40A.....	Vol.	14	N				P80896	30	CM175										
	Tone	34	UC502				P80878	13	BB31										
50.....	Vol.	7	SRP272				P80196	4	RS213										
	Tone	31	UC502				P80878C	13	BB31										
51A2.....	Vol. 36X236	75	TM228-SS1	M26			44X11	25	WE1835										
	Tone 40X224	34	MR53				44X30	25	RS216										
							45X222	19	BB15										
							45X223	13	BB31										
53A3.....	Vol. 36X238	20	TM250-SS1	M26			44X21	25	WE3050										
	Tone 40X225	41	P				44X36	25	WE4030										
							45X224	19	BB15										
57A4.....	Vol. 36X235	18	MR48	M26			44X31	23	RS215										
	Tone 40X223	34	L				44X35	23	WE4030										
59A5.....	Vol. 36X236	45	TM228-SS1	M26			44X10	23	RS216										
	Tone 40X223	34	L				44X11	23	WE1835										

† Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
WELLS-GARDNER 60, 63.....	& (C) — Vol.	Continued 90942C.....	97	Order from	Mfr.....			P80849.....	25	RS213.....					6	24A, 45, 80.....		
72.....	Vol. Tone		6 41	H12 O.....				P80848.....	25	RS213.....	B1				7	24A, 27, 45, 80.....	1-3	
80, 82A.....	Vol. Tone	90918.....	2/7 41	GG O.....					↓	See Note.....	B1				8	24A, 27, 45, 80.....	1-4	
80A, 82.....	Vol. Tone	P90966.....	↓	D.....	6				↓	See Note.....	B1				8	24A, 27, 45, 80.....		
88A9.....	Vol. Tone	P90920.....	41	O.....					↓	See Note.....	B1				8	24A, 27, 45, 80.....		
90, 91, 92, 93.....	Vol. Vol.	36X235.....	75	MR48.....	M26			44X37.....	23	WE2050.....					8	6J7, 6K7, 6H6, 6J5, 6C5, 6F5, 6F6, 5Y3G.....	456 175	
161, 162.....	Vol. Vol.	40X223.....	34	MR39.....				44X38.....	23	WE1030.....					8	6J7, 6K7, 6H6, 6J5, 6C5, 6F5, 6F6, 5Y3G.....	456 175	
90942C.....	Vol.		97	Order from	Mfr.....			P80849.....	25	RS213.....					5	32, 33.....	5-14	
200, 291, 292, 295.....	Vol. Vol.		1/15	DRP241.....				P80848.....	25	RS213.....					6	24A, 45, 80.....		
322.....	Vol. Tone Supp.		45 41 8	Z12..... UC502..... E.....				2-1-1-1.5.....	3	See Note.....	B1				9	26, 24A, 45, 80.....	175	
352 Series.....	Vol. Vol.		6 15	H7..... N.....	6 6	3		8.....	30	HD682.....					12	58, 56, 57, 46, 82.....		
502.....	Vol. Tone		21	O.....				80873.....	30	RS213.....					4	57, 35, 47, 80.....	175	
572 (AC).....	Vol. Tone	P91041.....	↓	SRP271.....				P80923A.....	30	CM172.....					10	58, 57, 56, 47, 80.....	175	
872 Series.....	Vol. Tone	P90993.....	34	UC502.....				80878C.....	13	CM175.....					10	58, 57, 56, 47, 80.....	175	
C-CG (1st and 2nd types).....	Vol. Vol.	P91041.....	↓	SRP271.....				80894B.....	4	CS133.....					7	58, 57, 47, 80.....	175	
V6Z2, Z6Z1.....	Vol. Vol.	P91066.....	17	UM154.....	M26			80891B.....	13	BB31.....					7	58, 57, 47, 80.....	175	
	Vol. Vol.	P917.....	60/15	DRP243.....		See Note A1		80894B.....	4	CM172.....					9	26, 24A, 45, 80.....	1-1	
	Vol. Vol.	P911.....	2	E12.....		See Note A27		80891B.....	4	CM172.....					9	26, 24A, 45, 80.....	1-1	
	Vol. Vol.	P91066.....	17	UM154.....	M26	See Note A96		80891B.....	13	BB31.....					9	26, 24A, 45, 80.....	1-1	
	Vol. Vol.	P80956.....	25/19					P80937.....	14/15	RM262/BB15.....	B126	P1801.....	292	C12	6	78, 77, 75, 41, 84.....	262	
	Vol. Vol.	P80937.....	14/15					02.....		2N516.....	B14				6	78, 77, 75, 41, 84.....	4-13, 14	
WESTERN AIR PATROL																		
5-Tube 3-Dial (209)	Vol. Fil.		9 29	Y200MP..... M60R.....											5	01A, 71.....		
V1, 2-Dial (217)	Vol. Fil.		13 29	↓ ↓		See Note A3									6	01A.....		
Model 100 D. C. (W215)	Vol.		6	G12.....		See Note A14		2-2-2.....	3	See Note.....	B1				8	27, 45, 80.....		
Model 100 D. C. (W216)	Vol.		7	K.....				2-2-4.....	3	See Note.....	B1				8	27, 71, 80.....		
Model 100 A. C. (W176)	Vol.		↓	↓		See Note A3		2-2-8.....	3	See Note.....	B1				8	26, 27, 71A or 10, 81, BII.....		
Model 100 A. C. (W177)	Vol.		↓	↓		See Note A3		2-2-8.....	3	See Note.....	B1				8	26, 27, 71, BII, 81.....		
Model 100 A. C. (W178)	Vol.		↓	↓		See Note A3		2-2-8.....	3	See Note.....	B1				8	26, 27, 71, 81, BII.....		
Model 100 A. C. (W180)	Vol.		↓	↓		See Note A3		2-2-8.....	3	See Note.....	B1				8	26, 27, 71, 81, BII.....		
100 A. C. Highboy (W182)	Vol.		↓	↓		See Note A3		2-2-8.....	3	See Note.....	B1				8	26, 27, 71, 81, BII.....		
80 Midget (W184)	Vol.		3	H12.....	6			2-2-4.....	3	See Note.....	B1				8	26, 27, 71, 81, BII.....		
80 Console (W185)	Vol.		3	H12.....	6			2-2-4.....	3	See Note.....	B1				7	26, 27, 71A, 80.....		
80 Console (W186)	Vol.		3	H12.....	6			2-2-4.....	3	See Note.....	B1				7	26, 27, 71A, 80.....		
80 Power Pack	Vol.		6	A.....		See Note A14		2-2-4.....	3	See Note.....	B1				8	27, 24, 45, 80.....		
90 A. C. (W170)	Vol. Tone		6 22	↓ ↓		See Note A3		8-8.....	1	2N518.....	B1				7	24, 27, 45 or 71A, 80.....		
70 (W172)	Vol. Tone		6 8	↓ ↓		See Note A3		8-8.....	1	2N518.....	B1				7	35, 27, 47, 80.....		
40 (W187)	Vol. Tone		22 8	↓ ↓		See Note A3		10.....	17	RB12.....					9	51, 24, 27, 47, 80.....		
60 Console (W188)	Vol.		6	H.....	6	A14		8, 8.....	1	ST595.....					4	58, 57, 47, 82.....		
25 Midget (W159)	Vol. Tone		6 22	F7..... G12.....				4-8.....	23	2S567.....					4	58, 57, 47, 82.....		
25SW Police (W152)	Vol. Tone		6 22	F7..... G12.....				8-4.....	23	2S567.....					4	58, 57, 47, 82.....		
44 (W157)	Vol. Tone		15 22	N..... UC502.....	6			8-4.....	1	See Note.....	B3				7	57, 58, 56, 55, 59, 82.....	262	
46 Console (W151)	Vol. Tone		127 22	N..... UC502.....	6			10.....	15	BB12.....					10	57, 58, 55, 56, 59, 82.....	262	
46 Console, No. 46 Power Tubes.....	Vol.		15	N.....	6			↓	19	BB20.....					10	55, 56, 58, 46, 83, 57.....	262	
46 Console, No. 59 Power Tubes.....	Vol. Tone Supp.		15 22 ↓	N..... UC502..... UC502.....	6	See Note A5		8-8.....	35	See Note.....	B3				10	55, 56, 57, 58, 59, 82.....	262	
49 Console (W158)	Vol. Tone		15 22	N..... UC502.....	6			↓	19	BB20.....					7	57, 56, 58, 55, 59, 82.....	262	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTERN AIR PATROL—Continued																		
30 Table Type (W202)	Vol.		6	G12				4, 4	23	ST595					4	57, 58, 2A5, 80		
31 Super Table Type (220)	Vol. Tone		6	E12				4-4	23	2S567					4	2A7, 57, 2A5, 80		
32 Super (W219)	Vol. Tone		22	K12				8-4	23	See Note	B3				5	57, 58, 55, 2A5, 80		
J8 (W435)	Vol. Tone		22	G12					11	SR613					6	6D6, 6A7, 75, 43, 25Z5	175	
S10 Motorola	Vol. Tone		7	K	EX150			21632							8	78, 77, 85, 56, 45, 83	175	
35 Console (W225)	Vol. Tone		22	K12				8-8-12	3	See Note	B3				5	57, 58, 55, 2A5, 80	175	
37 (W221)	Vol. Tone		83	N				25	15	BB15					7	55, 56, 57, 58, 59, 80	262.5	
51 (W404)	Vol. Tone		21	K12				8-4	23	See Note	B3				4	6A7, 6F7, 42, 80	†	
79 8-Tube Console (W224)	Vol. Tone		7	K	EX300										8	55, 56, 57, 58, 59, 5Z3	262.5	
79 7-Tube Console (W224)	Vol. Tone		22	UC502				8-8	1	See Note	B3				7	55, 56, 57, 58, 59, 82	262.5	
79 10-Tube Console (W224)	Vol. Tone		15	N				8-8	15	BB12					10	57, 58, 55, 53, 56, 59, 80	262.5	
PR10 (W403)	Vol. Tone		22	UC502				4-4	35	See Note	B3				10	55, 57, 58, 59, 5Z3	467.5	
17 (W405)	Vol. Tone		7	D				8, 8	35	RS213					4	58, 57, 2A5, 80		
19 (W410)	Vol. Tone		7	CIMP				10	15	BB12					5	57, 58, 56, 2A5, 80	458	
20C5 (W416)	Vol. Tone		26	CIMP				10	15	BB12					10	6D6, 6A7, 6A5, 80	456	
28 (W405)	Vol. Tone		15	N				4-4	23	See Note	B3				5	57, 58, 2A6, 2A5, 80	175	
36 (W407)	Vol. Tone		6	G7				4-4	23	See Note	B3				6	2A7, 58, 55, 2A5, 80	262.5	
48 (W408)	Vol. Tone		113	MR48	M26			4-4	2	See Note	B3				6	2A5, 58, 55, 80	262.5	
15A (W417)	Vol. Tone		41	UC504				8-8	4	See Note	B3				4	58, 57, 2A5, 80		
18 (W418)	Vol. Tone		18	N				10	15	BB12					4	58, 57, 2A5, 80		
25E1 (W409)	Vol. Tone		22	K12				4, 4	23	ST595					5	32, 34, 30, 19	175	
29 (W414)	Vol. Tone		6	G7				4, 4	23	ST595					5	57, 58, 2A6, 2A5, 80	175	
38 (W415)	Vol. Tone		97	TRP602	14			8	23	BB61					5	6A7, 78, 75, 42, 80	460	
175AW (W421)	Vol. Tone		18	N				4	23	BB60					7	6A7, 6D6, 6B7, 6A6, 42, 80	†	
185AW (W411)	Vol. Tone		15	O				10	15	BB12					8	6D6, 6A7, 76, 42, 80	432	
1105AW (W423)	Vol. Tone		18	N				8-8	1	2N518					10	6D6, 6A7, 85, 76, 42, 5Z3	432	
4G1T (W476)	Vol. Tone		119	K12				8	14	RS213					4	78, 77, 42, 80	12-13	
4G2T (W477)	Vol. Tone		45	TM230-SS1	M26			8	7	RS213					4	58, 57, 2A5, 80	12-2	
5G1T (W478)	Vol. Tone		22	MR33				8-8	7	RS213					5	77, 78, 42, 80	460	
6M2T (W479)	Vol. Tone		48	CIMP				5	15	BB12					6	6J7, 6K7, 6I16, 6F5, 6F6, 5Z4	175	
6M3T (W480)	Vol. Tone		6	H7				5-5	23	2S567					6	6A8, 6K7, 6I16, 6F5, 6F6, 5Z4	460	
7M3C (W481)	Vol. Tone		6	G7				4-4	23	2S567					7	6K7, 6A8, 6I16, 6F5, 6F6, 5Z4	460	
9M3C (W482)	Vol. Tone		6	H7				4-4	23	2S567					9	6K7, 6A8, 6I16, 6C5, 6F6, 5Z4	460	
11M3C (W483)	Vol. Tone		45	N				4-8	23	2S567					11	6K7, 6A8, 6I16, 6C5, 6F6, 5Z4	460	
25G (W419)	Vol. Tone		22	K12				8, 8	1	ST595					6	6A8, 6K7, 6I16, 6F5, 6F6, 5Z4	460	
27E (W420)	Vol. Tone		75	MR44	M26			10	19	BB12					7	6K7, 6A8, 6I16, 6C5, 6F6, 5Z4	460	
2116 (W491)	Vol. Tone		127	N				8, 8	1	RS213					11	6K7, 6A8, 6I16, 6C5, 6F6, 5Z4	460	
2136 (W492)	Vol. Tone		127	K12				10	19	BB13					13	6K7, 6I16, 6C5, 6A8, 6I5, 6Q7, 6F6, 5X4G	462	
	Vol. Tone		21	K12				18	25	WE2050					11	6K7, 6A8, 6I17, 6C5, 6F6, 5Z4	462	
	Vol. Tone		7	UC500				18	19	BB13					13	6K7, 6I16, 6C5, 6A8, 6I5, 6Q7, 6F6, 5X4G	462	
	Vol. Tone		75	N				16	1	RS216					13	6K7, 6I16, 6C5, 6A8, 6I5, 6Q7, 6F6, 5X4G	462	
	Vol. Tone		1	M				18	1	WE2050					13	6K7, 6I16, 6C5, 6A8, 6I5, 6Q7, 6F6, 5X4G	462	
	Vol. Tone		7	UC500				10	19	BB13					13	6K7, 6I16, 6C5, 6A8, 6I5, 6Q7, 6F6, 5X4G	462	
	Vol. Tone		97	TRP617	14			4	12	BB13					13	6K7, 6I16, 6C5, 6A8, 6I5, 6Q7, 6F6, 5X4G	462	
	Vol. Tone		45	MR53				4	12	BB13					13	6K7, 6I16, 6C5, 6A8, 6I5, 6Q7, 6F6, 5X4G	462	
	Vol. Tone		44	UC502				P44X17	40	RS207					13	6K7, 6I16, 6C5, 6A8, 6I5, 6Q7, 6F6, 5X4G	462	
	Vol. Tone		7/83	DRP314				16	1	RS216					13	6K7, 6I16, 6C5, 6A8, 6I5, 6Q7, 6F6, 5X4G	462	
	Vol. Tone		44	K12				18	1	WE2050					13	6K7, 6I16, 6C5, 6A8, 6I5, 6Q7, 6F6, 5X4G	462	
	Vol. Tone		7/56	DRP314				8	13	BB61					13	6K7, 6I16, 6C5, 6A8, 6I5, 6Q7, 6F6, 5X4G	462	
	Vol. Tone		44	K12				25	19	BB15					13	6K7, 6I16, 6C5, 6A8, 6I5, 6Q7, 6F6, 5X4G	462	
	Vol. Tone		44	K12				16	1	RS216					13	6K7, 6I16, 6C5, 6A8, 6I5, 6Q7, 6F6, 5X4G	462	
	Vol. Tone		44	K12				8	13	BB61					13	6K7, 6I16, 6C5, 6A8, 6I5, 6Q7, 6F6, 5X4G	462	
	Vol. Tone		44	K12				25	15	BB15					13	6K7, 6I16, 6C5, 6A8, 6I5, 6Q7, 6F6, 5X4G	462	

† Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTERN AIR PAT	ROL—C	continued																
16 (W497).....	Vol.	9-012-008...	6	MR21.....	M26			5, 5.....	23	ST595.....					4	78, 76, 42, 80.....		
26G (W493).....	Vol.		18	O.....	14			45X212.....	12	BB31.....				6	1C6, 34, 1B5, 330.....	456	11-9,10	
27T (W496).....	Vol.		45	MR53.....				P45X215.....	1/13	RS207.....		Order from Mfr.		7	1C6, 34, 330, 19.....	456	12-15,16	
	Tone		44	UC502.....				P44X17.....	1	Buffer.....	B14							
46.....	Vol.		6	H12.....				.01.....		CM172.....				4	78, 77, 42, 80.....			
24B1 (W831).....	Vol.		18	MR53.....				5-5.....	23	CM172.....				4	1D7G, 1D5G, 1H6G.....			
	Fil.		29	C6P.....				4.....	12	BB31.....				4				
57 (W499).....	Vol.	A33005.....	18	MR48.....				8-8.....	23	CM172.....				5	1P5G.....	456	11-8	
77 (W481).....	Vol.		75	MR48.....				8, 8.....	25	RS213.....				5	6A7, 78, 75, 42, 80.....	460		
157 (W827).....	Tone		22	MR33.....				10.....	19	BB12.....				7	6A7, 78, 61H6, 6F5.....	460		
	Vol.		18	MR48.....				A10005.....	23	CM172.....				5	6T5, 42, 80.....	460		
257 (W500).....	Vol.	A33005.....	18	MR48.....				A10005.....	23	CM172.....				5	6A8, 6K7, 6Q7, 6F6, 5Z4.....	460	12-11	
	Tone	A34002.....	22	MR33.....				A10005.....	23	CM172.....				5	6A7, 78, 75, 42, 80.....	460	12-12	
258 (W958).....	Vol.		18	MR48.....				A10005.....	23	CM172.....				5	6A7, 78, 75, 42, 80.....	460		
	Tone		22	MR33.....				A10005.....	23	CM172.....				5	6A7, 78, 75, 42, 80.....	460		
377.....	Vol.		75	MR48.....	M26			8, 8.....	25	RS213.....				7	6A7, 61H6, 78, 6F5.....	460		
	Tone		22	K12.....				10.....	19	BB12.....				8	6T5, 42, 80.....	460		
388.....	Vol.		124	500M.....		See Note A19		16.....	1	ST597.....				8	6A8G, 78, 75, 6J5G.....	460		
	Vol.							15.....	1	ST596.....				8	41, 6U5, 80.....	460		
	Vol.							12.....	19	ST596.....				8	6A8, 6K7, 6Q7, 6F6, 5Z4.....	460	12-11	
	Vol.							8, 8.....	19	ST595.....				8	6A7, 78, 75, 42, 80.....	460	12-12	
	Vol.							10.....	19	BB13.....				8	6K7G, 6A8G, 6U5, 61H6G, 6F5G, 6F6G, 5Y3.....	460		
587 (W835).....	Vol.		127	MR48.....				8, 8.....	1	ST595.....				8	6A7, 78, 75, 42, 80.....	460		
	Tone		22	MR33.....				10.....	19	BB13.....				5	6A7, 61H6, 75, 42, 80.....	460		
	Sen.		98	D.....				4-4.....	23	CM172.....				5	6A7, 61H6, 75, 42, 80.....	460	12-18	
557M (W496).....	Vol.	A33005.....	18	MR48.....				5-5.....	23	CM172.....				5	6A7, 61H6, 75, 42, 80.....	460		
56 (W485).....	Vol.		18	MR48.....				10.....	15	BB12.....				5	6A7, 61H6, 75, 42, 80.....	460		
	Tone		22	K12.....				8-4.....	23	CM172.....				7	6A8, 6K7, 61H6, 6F5, 6T5, 6F6, 5Y3.....	175		
66 (W486).....	Vol.		75	MR48.....	M26			8, 8.....	1	ST595.....				7	6K7, 6A8, 61H6, 6F5, 5Y3.....	460		
	Vol.		22	K12.....				10.....	19	BB13.....				7	6K7, 6A8, 61H6, 6F5, 5Y3.....	460		
76 (W487).....	Vol.		127	MR48.....				8, 8.....	1	ST595.....				7	6K7, 6A8, 61H6, 6F5, 5Y3.....	460		
	Tone		22	MR33.....				4-4.....	23	CM172.....				7	6K7, 6A8, 61H6, 6F5, 5Y3.....	460		
146 (W488).....	Vol.		6	G7.....		See Note A14		18, 18.....	1	BB34.....		246	C3	4	58, 57, 2A5, 80.....	460		
708 (W832).....	Vol.		62	MR48.....				4.....	15	BB11.....				7	6S7G, 6L5G, 6K6G, 6N5.....	456		
	Tone		34	MR42.....				.01.....		Buffer.....	B14			7	6N5.....	456		
1337 (W838).....	Vol.		127	500M No. 1.....		See Note A19		18.....	1	WE2050.....				13	6K7G, 6A8G, 61H6G, 6U5G, 6F5G, 6F6G, 5Y3G.....	460		
	Vol.		18			See Note A19		10.....	1	RS215.....				8	6A8G, 78, 75, 6U5, 6J5G, 42, 80.....	460		
1388.....	Vol.							25.....	19	BB14.....				8	6A8G, 78, 75, 6U5, 6J5G, 42, 80.....	460		
1487 (W839).....	Vol.		127	MR48.....				12.....	25	ST596.....				8	6A8G, 78, 75, 6U5, 6J5G, 42, 80.....	460		
	Tone		22	MR33.....				16.....	25	ST597.....				8	6A8G, 78, 75, 6U5, 6J5G, 42, 80.....	460		
	Sen.		98	D.....				12.....	14	ST596.....				8	6A8G, 78, 75, 6U5, 6J5G, 42, 80.....	460		
	Sen.							8, 8.....	1	ST595.....				8	6K7G, 6A8G, 61H6G, 6U5, 6F5G, 6F6G, 5Y3.....	460		
WESTERN AUTO SU	PPLY C	O. (Truettone)		Wells-Gardner														
062, 062A.....	Vol.		45	UM154.....			A96	4.....	13	BB31.....				6	39, 36, 37, 41.....	262	5-1	
	Tone		34	UC502.....				4.....	15	BB11.....				6	78, 77, 85, 41.....	262		
06W.....	Vol.	P91061.....	56	UM154.....	M26		A96	16-8.....	1	2N519.....		P1765.....	210	C3	6	78, 77, 85, 41.....	262	
	Tone	P91013.....	41	UC502.....				4.....	15	BB11.....				5	78, 77, 41, 84, 75.....	262		
06Z.....	Vol.	P91066.....	17	UM154.....	M26		A96	P80956.....	25/19	RM262/BB15.....	B126	P1926.....	292	C12	5	78, 77, 41, 84, 75.....	262	
	Vol.		17	UM154.....	M26			P80937.....	14/15	2N516.....				5	78, 77, 41, 84, 75.....	262		
6S.....	Vol.	36X200.....	17	UM163-SS3.....	M26			.02.....	1	Buffer.....	B14			6	6D6, 6C6, 75, 41, 84.....	175		
	Tone	40X201.....	22	M.....				45X204.....	1	2N518.....			253	C3	6	6D6, 6C6, 75, 41, 84.....	175	
6U.....	Vol.	P96015.....	18	UC511.....	6			45X203.....	15	TN111.....				6	6D6, 6C6, 75, 41, 84.....	175		
	Tone	P97012.....	22	UC502.....				.01.....	1	Buffer.....	B14	2080.....	253	C3	6	78, 77, 75, 41, 84.....	262	5-2
	Vol.	P101-9.....	17	N.....	6			P81028.....	1	2N518.....		2110.....	253	C3	6	78, 77, 75, 41, 84.....	262	
670.....	Vol.		17	N.....	6			P81021.....	15	TN111.....				6	6D6, 6C6, 78, 75, 42, 84.....	175	6-1,2	
	Vol.		17	N.....	6			.01.....	4	RM262.....		142-1.....	296	C3	6	6D6, 6C6, 78, 75, 42, 84.....	175	
685, 686 Series.....	Vol.	101-46.....	18	O.....	6			20.....	15	BB15.....				6	6D6, 6C6, 78, 75, 42, 84.....	175		
	Tone	101-53.....	22	K12.....				.02.....		Buffer.....	B14			7	6L7, 6K7, 6C5, 6Q7, 6F6, 5Y3, 6G5.....	465		
720, 732.....	Vol.		18	O.....	6			P103-6.....	23	RS213.....				7	6L7, 6K7, 6C5, 6Q7, 6F6, 5Y3, 6G5.....	465		
	Tone		22	K12.....				P103-7.....	23	RS213.....				7	6L7, 6K7, 6C5, 6Q7, 6F6, 5Y3, 6G5.....	465		
786 Series A.....	Vol.	101-46.....	18	O.....	6			103-6.....	42	RS213.....				7	6L7, 6K7, 6C5, 6Q7, 6F6, 5Y3, 6G5.....	465		
	Tone	101-53.....	22	K12.....				P103-6.....	23	RS213.....				7	6L7, 6K7, 6C5, 6Q7, 6F6, 5Y3, 6G5.....	465		
1312 (R131).....	Vol.	83728.....	17	UC512.....	6			P103-7.....	23	RS213.....				7	6L7, 6K7, 6C5, 6Q7, 6F6, 5Y3, 6G5.....	465		
	Vol.		17	UC512.....	6			84829.....	4	CM172.....		81905.....	294	C3	6	78, 77, 75, 41, 84.....	177.5	6-9,10
	Vol.		17	UC512.....	6			83803.....	15	BB12.....				6	78, 77, 75, 41, 84.....	177.5		
D689.....	Vol.	36X250.....	20	TM247-SS25.....	M26			.03-.03.....		Buffer.....	B14			9	6U7G, 6J7G, 6J5G, 61H6, 6F5G, 6K6G, 5Y3G, 6U5.....	456		
	Tone	40X228.....	22	MK402.....				44X39.....	4	WE2050.....				9	6U7G, 6J7G, 6J5G, 61H6, 6F5G, 6K6G, 5Y3G, 6U5.....	456		
	Vol.	3800.....	15	DTM298-SS1.....				41X40.....	4	WE4030.....				14	61H6, 6A7, 61H6G, 76, 42, 80, 6G5.....	456		
D690.....	Vol.	2737.....	15	MR155.....				45X239.....	15	BB12.....				14	61H6, 6A7, 61H6G, 76, 42, 80, 6G5.....	456		
	Tone		15	MR155.....				4649.....	4	WE3050.....				14	61H6, 6A7, 61H6G, 76, 42, 80, 6G5.....	456		
	Tone		15	MR155.....				4062.....	4	WE4030.....				14	61H6, 6A7, 61H6G, 76, 42, 80, 6G5.....	456		
	Tone		15	MR155.....				3079.....	14	BB21.....				14	61H6, 6A7, 61H6G, 76, 42, 80, 6G5.....	456		

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTERN AUTOSOUND	PLY C	O.-Continued																
D691	Vol. Tone		18 147	N. P.	6			3375 4062 4528	23 23 14	WE1650 WE4030 BB31				11	6A7, 6D6, 6Q7G, 76, 442, 6G5, 80	156	10-7,8	
D692 (155)	Vol. Tone Sen.	3800 3799 3801	124 147 48	DTM298-SS1 UM181-SS1 A2MP	M28			3111 3112 3113 3136	72 72 72 72	WE1660 RS216 WE1835 BB15				11	6K7, 6A7, 6H6, 6G5, 6C5, 76, 442, 80	156 385	10-9-12	
D692 (164)	Vol. Tone Sen.	3800 3799 3801	124 147 105	DTM298-SS1 UM181-SS1 A2MP	M28			3111 3112 3113 3136	72 72 72 72	WE1660 RS216 WE1835 BB15				11	6D6, 6A7, 76, 75, 442, 80, 6G5	156		
D694	Vol. Tone Sen.	3800 3799 3801	124 147 48	DTM298-SS1 UM181-SS1 A2MP	M28			3111 3112 4062 3079 4071	72 72 72 14 15/72	WE1660 RS216 WE4030 BB21 BB15				15	6K7G, 6A7, 6H6G, 6G5, 76, 442, 5Z3	156	10-13	
D695	Vol. Tone	36X221 40X211	20 41	TM250-SS1 Order from Mfr.	M26			P44X21 P44X11 P45X216 P45X209	30 30 14 15	WE3050 WE1830 BB31 BB12				13	6K7, 6C5, 6H6, 6G5, 6L6, 35Z4MG	456	10-14-16	
D697	Vol. Tone	36X236 40X224	75 4	TM228-SS1 O.	M26			44X30 44X11 45X223 45X222	1 1 13 19	RS216 WE1830 BB31 BB15				11	6K7, 6C5, 6H6, 6G5, 6J7, 6F6, 5Y3G	156		
D698	Vol. Tone	36X235 40X223	75 34	MR48 UC502	M26			44X35 44X31	23 23	RS215 WE3035				8	6J7, 6K7, 6H6, 6C5, 6F5, 6C5, 6F6, 5Y3	456		
D699 (147E)	Vol. Tone	2726 2737	18 147	N. MR55	6			3375 3351	23 23	WE1650 WE825				8	6A7, 6D6, 75, 76, 442, 80, 6G5	456		
D699 (840)	Vol. Tone	101-71 101-75	18 22	MR53 MR44	M26			103-6 103-14	4 4	RS213 RS216				8	6A8, 6K7, 6Q7, 6C5, 6F6, 5Y3, 6G5	465	9-1,2	
D700	Vol. Tone	2726 2737	18 147	N. P.	6			3375 3351	23 23	WE1650 WE825				7	6A7, 6D6, 75, 76, 442, 80	456		
D701	Vol. Tone	36X215 40X211	20 34	TRP612 Order from Mfr.	6T			44X10 44X11 44X209	23 23 15	RS216 RS216 BB12				8	6K7, 6C5, 6H7, 6F6, 6G5, 5Z4G	156	10-25	
D702	Vol.	P1515	18	MR53	M26			P1511	23	RM262				5	6A7, 6D6, 75, 41, 80	456		
D703 (6Y)	Vol.	P1555	18	N.	6			P1561	4	2P549				5	6A7, 6D6, 75, 25B6G, 25Z5, L491J	456		
D705	Vol. Tone	36X245 40X228	20 4	TM247-SS25 MK402				44X30 44X36 45X238	25 25 19	RS216 WE4030 BB17				11	6U7G, 6J7G, 6J5G, 6U5, 6H6, 6F6G, 5Y3G	456		
D706	Vol. Tone	101-66 101-67	18 22	MR48 MR39	M27			119-32 005	1 1	2N516 Buffer	B14	126-4	246	C3	8	6SR7G, 6D8G, 6L15G, 6T7G, 19, 6N5	465	9-3,4
D707	Vol.	3612	7	H.	6			3229	23	2P544				4	6D6, 6C6, 43, 25Z5, BK55B	456	8-3	
D708	Vol. Tone	P680 P682	15 34	SRP275 L	7			P391 01-01	1	2N516 Buffer	B14	P402	245C	C3	6	1C6, 34, 330, 32, 33	456	
D709	Vol.	P2271	18	Order from Mfr.				P2251 015	1	2N516 Buffer	B14	P144	850	C3	6	6AR7, 6J5G, 6U7G, 6Q7G, 6C6G, 6ZV5G	456	
D709 (1935)	Vol.		6	TRP617				4	12	BB20				5	32, 34, 30, 19	175	10-33	
D710 (1935) (7J)	Vol. Tone	36X205 40X204	56 31	N. UC502	6			44X11 44X10	23 23	RS216 WE1830				7	6D6, 76, 6H7, 42, 80	156	10-35	
D711 (7J)	Vol. Tone	36X205 40X204	56 34	N. UC502	6			44X11 44X10	23 23	WE1835 RS216				7	6D6, 76, 6H7, 42, 80	456		
D711 (209)	Vol. Tone	5100 5099	18 107	MR48 MR55	M26			3285 5101	1 1	WE1650 WE1625				8	6A7, 6D6, 6Q7G, 76, 441, 80, 6G5	456	12-13	
D712	Vol. Tone	36X206 40X205	7/15 41	DRP315 UC504	6T			44X10 44X11 44X18	4 4 13	RS216 WE1835 RS213				10	6K7, 376, 345, 80	456		
D712 (193)	Vol. Tone	2726 2737	18 147	N. MR55	6			3375 3351	23 23	RS216 WE850				9	6A7, 6D6, 6Q7G, 76, 442, 80, 6G5	456		
D712M (1935)	Vol. Tone	P36X206 P40X205	7/15 41	DRP315 UC504	6T			44X10 44X11 44X18	4 4 14	RS216 WE1830 RS203				10	6K7, 376, 345, 80	456	10-39	
D713 (7H)	Vol. Tone	36X207 40X203	45 44	O. UC502	14			20	12	BB25				7	34, 1C6, 330, 19	456		
D713 (7GM)	Vol. Tone	36X204 40X203	7/56 34	DRP314 UC502	6T			44X10 44X11	23 23	RS216 WE1835				7	6K7, 6H7, 6F6, 76, 80	456		
D713 (6H)	Vol. Tone	P2271 P2093	18 4	Order from Mfr. MK401	M26			10-5	23	28567				6	6A7, 6D6, 76, 75, 41, 80	456		
D714	Vol. Tone	101-142 101-143	17 22	MK402 MK400	M26			119-69	25	BB24				6	6K8G, 6K7, 6Q7G, 6P5G, 6AC5G, 5Y3G	465 456	10-47	
D714M (1935)	Vol. Tone	36X204 40X203	56/7 34	DRP314 UC502	6T			44X10 44X11	23 23	RS216 WE1835				7	6K7, 6H7, 76, 6F6, 80	456		
D715 (205)	Vol.	1982	18	MR48	M26			5006	1	2N518				5	6A7, 6D6, 6Q7G, 41, 80	456		
D716 (1935)	Vol. Tone	36X210 40X206	7/15 22	DRP315 UC504	6			P44X21 P44X11 P44X20	25 25 19	WE3050 WE1835 Order from Mfr.				12	6K7, 376, 6F6, 380	456		

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ment	*Note				
WESTERN AUTO SUPPLY CO. (Continue d)																		
D716 (1938-39)	Vol. Tone	P2136 P2137	18 34	Order from L.	Mfr. 7			P2140 .015	1/15	3S579 Buffer	B14	P2147	850	C3	7	61B8G, 6S7G, 6T7G, 6V6G, 6L5G, 6AB5, 6Z5G	456 465	11-2 11-3
D717	Vol. Tone	101-94 101-59	18 21	MR53 MR53	M26			119-38	23	SR633					5	6A7, 6K7, 75, 41, 80	456	
D717 (6V-110V)	Vol. Tone	P2136 P2137	18 34	Order from L.	Mfr. 7			P2140 .015	1/15	3S579 Buffer	B14	P2147	850	C3	7	61B8G, 6L5G, 6S7G, 6T7G, 6U6G, 6Z5G, 6AB5	456	
D718	Vol. Tone	P1677 P1764	18 44	N	7			P958 .01-.01	1	2N518 Buffer	B14	P402	245C	C3	6	61B8G, 6S7G, 6T7G, 30, 19	456	
D719	Vol.	3418	18	MR48	M27			4459 .03	24	2N512 Buffer	B14		245	C3	1	61B8G, 6S7G, 6T7G, 1G5G	456	
D720 (142)	Vol. Tone	2726	18 147	N MR55	6			16 8	25 25	WE1650 WE825					6	78, 6A7, 6D6, 75, 42, 80	456	
D721	Vol. Tone	36X215 40X211	17 34	TRP612 Order from	6T Mfr.			44X10 44X11 44X209 10-6	23 23 15 1	RS216 WE1835 BB12 2S568					8	6K7, 6Q7, 6C5, 6F6, 6C5, 5Z4MG	456	10-23
D722	Vol. Tone	36X219 40X213	62 65	TM247-SS1 Order from	M26 Mfr.			44X10 44X11 44X213	25 23 13/15	RS216 RS216 BB20/BB12					11	6K7, 6C5, 6G5, 6F6, 5Z4MG	456	
D723	Vol. Tone	2726 2737	18 147	N MR55	6			3375 3351	23 23	RS216 WE825					7	6A7, 6D6, 75, 76, 42, 80	456	
D723 (723)	Vol.	101-108	18	MK402	M26			11959C .003	24	2N512 Buffer	B14		246	C3	1	61B8G, 6S7G, 6T7G, 6K6G	465	12-1,2
D724	Vol. Tone	2726 2737	18 147	N MR55	6			3375 3351	23 23	RS216 WE825					8	6A7, 6D6, 75, 76, 42, 80, 6C5	456	
D724U	Vol. Tone	2726 2737	18 147	N MR55	6			4297 4298	73/15	RS207 3N532					8	6A7, 6D6, 6Q7G, 743, 76, 25Z5, 6C5	456	12-5
D725 (A3)	Vol. Tone	P934 P943	18 34	L	6			0-1 0-1	32 32	2N518 BB60					6	6A7, 6D6, 76, 75, 42, 80	456	
D726 (B1)	Vol. Tone	P912 2726	18 18	MR48	M26			P160 3375	1 23	2N518 RS216					5	6A7, 6D6, 75, 42, 80	456	
D727	Vol. Tone	2726 2737	18 147	N MR55	6			3351 P160	23 1	WE825 2N518					8	6A7, 6D6, 75, 6C5, 76, 42, 80	456	
D728 (X8)	Vol.	P630	18	N	6			P160	1	2N518					5	6A7, 6D6, 75, 42, 80	456	
D729	Vol.	2574	7	H	6			3229	23	21544					4	61D6, 6C6, 43, 25Z5		11-5
D730	Vol.	P2213	6	MR36	M26			P2216	1	2N506					4	61D6, 6C6, 25L6C, 25Z5		
D731 (1935)	Vol.	101-18	18	N	6			103-6 103-7	4 4	RS213 RS213					5	6F7, 6K7, 75, 6F6, 80	465	11-6
D731 (1938-9)	Vol.	101-108	18	MK402	M26			119-53	1/19	3N534	B188				5	6A8, 6K7, 6Q7, 25L6, 25Z6, L49B	470	
D732 (686 Ser. A, B)	Vol. Tone	101-46 101-53	18 22	O K12	6			103-6 103-7	42 42	RS213 RS213					6	6L7, 6K7, 6C5, 6F6, 5Y3	465	
D734	Vol.	101-41	17	UM154-SS17	M26			119-33 .005	4	2S567 Buffer	B14	126-1	294	C3	5	6A8, 6K7, 6Q7, 6F6, 6X5	465	9-5,6
D734 (1935)	Vol.	101-41	18	UM154-SS3	M26			119-20 .01	4	CM172 Buffer	B14	126-1	294	C3	5	6A8, 6K7, 75, 41, 81/ 6Z4	465	11-10
D737 (1935)	Vol. Tone	UC514 UC502	17 34	UC514 UC502				E45X206C .0075	4 15	3S579 Buffer	B14	19A25	294	C3	6	61D6, 6C6, 75, 41, 81	175	
D737C (1936)	Vol. Tone	UC514 UC502	17 34	UC514 UC502				E45X206C .0075	4 15	3S579 Buffer	B14	19A25	294	C3	6	61D6, 6C6, 75, 41, 81	175	
D739	Vol.	101-21	56	M	6	EC256		P119-17 .01	4	CM172 Buffer	B14	112-4	299	C3	6	61D6, 6A7, 6B7, 42, 84	175	
D740	Vol. Tone	SA106514 SA106715	18 22	N N	6			SA106536 .02	4	2S567 Buffer	B14	SA106561	296	C3	6	77, 78, 75, 42, 84	175	11-16
D743	Vol.	101-41	18	UM154-SS17	M26			119-37 .005	4	2S567 Buffer	B14	126-1	294	C3	6	6K7, 6A8, 6Q7, 41, 6X5	465	
D743W (1935)	Vol. Tone	36X200 40X201	17 22	UM163-SS3 M	M26			45X204 45X203 .01	1 15	2N518 TN111 Buffer	B14	2080 2110	253 253	C3	6	61D6, 6C6, 75, 41, 81	175	11-19,20
D744	Vol. Tone	101-73 101-45	18 22	UM147-SS17 Order from	M26 Mfr.			119-34 .01	4	2S567 Buffer	B14	126-1	294	C3	6	6K7, 6A8, 6Q7, 6F6, 6X5	262.5	
D744, Series "A"	Vol. Tone	101-73 101-45	18 22	UM147-SS17 Order from	M26 Mfr.			119-34 .01	4	2S567 Buffer	B14	126-1	294	C3	6	6K7, 6A8, 6Q7, 6X5, 6F6	262.5	11-21,26
D744 (1936)	Vol.	101-42	18	UM133-SS17	M26			119-21 .01	1	2N518 Buffer	B14	126-1	294	C3	6	6K7, 6A8, 6Q7, 6N6, 6X5	465	11-23,24
D745	Vol. Tone	36X217 40X212	56 22	Order from MR53	Mfr.			P45X211 .005	1/15	CM175/BB12 Buffer	B14	P19A26	248	C3	6	6K7, 6J7, 6B7, 41, 6A6	175	
D746, Series "A" (Issue "A" & "B")	Vol.	101-110	18	MK402	M26			119-50 .005	40	2S567 Buffer	B14	126-7	294	C24	5	6A8, 6K7, 6Q7, 6K6, 6X5	465	
D746, Issue "C"	Vol.	101-110	18	MK402	M26			119-50 .005	40	2S567 Buffer	B14	126-7	294	C24	5	6SA7, 6SK7, 6Q7, 6K6, 6X5	465	
D7461D (5771D)	Vol.	101-110	18	MK402	M26			119-105 .005	2/15	FPT339 Buffer	B14	126-7	294	C24	5	6SA7, 6SK7, 6SQ7, 6K6G, 6X5G	465	12-6
D747, Series "A" (Issues "A", "B," & "C")	Vol.	101-109	18	TM238-SS18	M26			119-51 .01	4	2S568 Buffer	B14	126-1	294	C3	6	6A8, 6K7, 6Q7, 6V6, 0Z4 or 6X5	465	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTERN AUTO SUPPLY CO. D748	Vol.	36X216	127	UM163	M26		A90	45X235	1	2N518		19A33	952W	C3	6	6U7G, 6J7G, 6B8G, 6K6G, 6N7G	175	
D900 (215)	Vol. Tone	5100	15	MR48				16	1	WE1650	B14				7	6A7, 6D6, 6Q7G, 76, 741, 80	156	
D901	Vol. Tone	5100	15	MR48				3285	1	WE1650					9	6A7, 6D6, 776, 6C5, 6K5G, 76V6G, 80	456	
D904 DC (308)	Vol. Tone	5100	18	MR48	M26			5101	1	WE1835					7	6ABG, 6K7G, 6Q7G, 6C5G, 76F6G, 80	155	
D905 (214)	Vol. Tone	5511	34	MR39	M26			16-16	1	2S569					5	6A7, 6D6, 6Q7G, 251L6G, 25Z5, BK49BG	456	12-5
D906 (311EPCW)	Vol. Tone	7196	17				A10	16-16	1	BB64					11	6K7G, 6K8G, 6Q7G, 776, 76AC5, 6U5, 80	455	
D906C (DC) (332EPCW)	Vol.	7196	17	3 Meg.			A10	16, 16	1	BB64					11	6K7G, 6K8G, 6Q7G, 776, 76AC5, 6U5	455	
D909 (216)	Vol.	5252	8	MR22	M26			16-6	23	2P544					4	6K7, 6J7, 25L6, 25Z6		
D910 Series A, B	Vol. Tone	101187	18	O				11980	1	BB63					6	6K8/6K8G, 6SK7, 6Q7G, 6P5G, 6AC5G, 5Y3G	465	
D911B (312)	Vol. Tone	7196	17	3 Meg.			A19	16	1	RS216					8	6K8G, 6K7G, 6Q7G, 76, 76N6G, 80, 6U5	455	
D912 (5L)	Vol.	P2935	18	MR48	M26			P2936	1	2N509					5	6A7, 6D6, 75, 25L6, 25Z5, 1A9B	456	
D913 (7B)	Vol. Tone	P3099	18	MR48	M26			P2936	1	2N509					7	6ABG, 6K7G, 6Q7G, 251L6G, 25Z6G, 6P5G	455	
D913 (7K)	Vol. Tone	P3099	18	MR48	M26			20-20	1	2N509					7	6ABG, 6K7G, 6P5G, 6Q7G, 25L6G, 25Z6G	455	
D914 (7BS)	Vol. Tone	P3099	18	MR48	M26			25-25-5	46	TN127					7	6ABG, 6K7G, 6P5G, 6Q7G, 25L6G, 25Z6G	455	
D914C (7KS)	Vol. Tone	P3099	18	MR48	M26			25-25-20	1/15	3N534					7	6ABG, 6K7G, 6P5G, 6Q7G, 25L6G, 25Z6G	455	
D915C (5Q)	Vol.	P3346	18	Order from Mfr.				P3355	24	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455	
D920	Vol. Tone	101-133	127	MK402				119-64	1	2S568					8	6K8G, 6K7, 6Q7G, 76K6G, 6A8G, 6U5, 5Y3G	465	12-7,8
D921, Issue "A"	Vol. Tone	101-159	45	MK402				119-73B	1	ST597					9	6K8, 6K7, 76J5, 6Q7, 6U5, 76K6, 5Y3	465	12-8-10
D924 (313)	Vol. Tone	7357	17	3 Meg.	M26		A19	16	1	RS216					11	6K7G, 6K8G, 6Q7G, 776, 76AC5, 80, 6U5	455	
D924C	Vol. Tone	7357	17	3 Meg.	M26		A19	16	1	RS216					11	6K7G, 6K8G, 6Q7G, 776, 76AC5, 6U5, 80	455	
D925 (312)	Vol. Tone	7196	17	3 Meg.			A19	16	1	RS216					8	6K8, 6K7G, 6Q7G, 76, 76N6G, 80, 6U5	455	
D925B (336)	Vol. Tone	7196	17	3 Meg.	M26		A19	16	1	RS216					8	6K8G, 6K7G, 6Q7G, 76, 76N6G, 80, 6U5	455	
D926	Vol.		20	2 Meg.			A19	14	23	WE1625					11	6SK7, 6SA7, 76P5G, 6SQ7, 76V6G, 5Y3G, 6AD6G	456	
D929	Vol. Tone	101-137	18	MK402				119-80	1	BB63					7	6K8G, 6K7, 6Q7G, 6P5G, 6AC5G, 5Y3G, 6U5	465	12-11,12
D930	Vol. Tone	5100	18	MR48				3285	1	WE1650					8	6A7, 6D6, 6Q7G, 76, 741, 80, 6G5	456	12-13
D935, D936 (4A)	Vol.	P2600	18	MK401	M27			P2602	19	BB15					4	1A7G, 1N5G, 1H5G, 1C5G	456	
D937	Vol.	36X258	18	MR48	M27			45X250	12	BB31					5	1A7G, 1H5G, 1N5G, 1C5G	456	
D939 (1F)	Vol.	P3317	18	MK401	M27			P3024	12	BB21					4	1A7G, 1N5G, 1H5G, 1Q5G	456	12-15
D940 (5N)	Vol.	P3560	18	UM161-SS22	M27			P3563, P3562	1, 15/12	2N514, BB17					5	1A7GT, 1N5GT, 30S6T, 1H5GT, 70L7GT	455	
D941, Issue "A"	Vol.	101-108	45	MK402	M26			119-53D	1/15	3N534	B193				6	12SA7, 12SK7, 12J5GT, 12SQ7, 35L6GT, 35Z5GT	465	
D976, Issue "A"	Vol.	101-161	18	Order from Mfr.				119-81	74	BB44		12610	294	C3	6	6K7, 6A8, 6Q7, 6K6, 6X5	465	
D978	Vol. Tone	101-161	18	Order from Mfr.				119-78	24	FPQ426	B14	1269	248	C3	6	6K7, 6A8, 6SK7, 6Q7, 6J5G, 6N7	465	
D1001 (Issue A)	Vol.	101-209	18	UM163-SS18 MK401	M26			0055, 11992	24	Buffer FPD211	B14				5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z4GT	165	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS								CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
WESTERN AUTO SUPPLY CO. (Continue)			1																
D1002 (323)	Vol. Tone		106	MR48	M26		16, 16	23	RS216						7	6K8G, 6K7G, 6Q7G, 6C5G, 6F6G, 80	455		
D1003	Vol. Tone	P4089	64	TM231-SS1	M26		P4264	1/15	FPT339						7	6SK7, 6SA7, 6SQ7, 6K6G, 5Y3G	455	12-27-28	
D1011, D1012 (612A)	Vol.	101-211	18	UM161	M26	A96	11994	46	FPT357						6	12SA7, 12SK7, 12SQ7, 351.6GT, 35Z5GT	455		
D1015, D1016	Vol.	101-230	18	MK401	M26		11992	24	FPT354	B69					5	12SA7, 12SK7, 12SQ7, 501.6GT, 35Z5GT	455		
D1020 (4J)	Vol.	P3317	18	MK401	M27		P3024	12	BB21						4	1A7G, 1N5G, 1115G, 1Q5G	455		
D1022	Vol.	P4231	18	UM154	M26	A96	P4224 .015	1/15	FPT360 Buffer	B14	P4221	246A	C3	6	6D8G, 6S7G, 6T7G, 6K6G, 6L5G, 6X5GT	455			
D1040	Vol.	101-208	18	MK402	M26		119102	1	FPT228						6	6SA7, 6SK7, 6SQ7, 6P5G, 6AC5G, 5Y3G	465		
D1041	Vol. Tone	101-214 101-213	18 22	MK401 MK402	M26		119106	1/13	FPT374						10	6SK7, 6SA7, 6SQ7, 6P5G, 6F6G, 6U5, 5Y3G	465		
D1042	Vol.		17	2 Meg.		A19	40, 30, 20-4, 11994	23 23 14/15 46	WE4050 WE3050 2N507 FPT357						11	6SK7, 6SA7, 6SQ7, 6V6GT, 6AD6G, 5Y3G	156	12-17-20	
D1070	Vol.	101-217	18	MK401	M26										5	12SA7, 12SK7, 12SQ7, 501.6GT, 35Z5GT	465	12-21, 22	
D1076	Vol. Tone	101232 101231	18 22	MK402 MK402	M26		119115	1	2S569						6	6SA7, 6SK7, 6SQ7, 6V6GT, 5Y3G	455	12-29, 30, 31	
D1080, 1080B	Vol.	101210	18	UM161-SS22	M27		119104	76	FPT304						5	1A7GT, 1N5GT, 1115GT, 1A5GT, 35Z5GT, 5459	465	12-29	
D1090, D1091 (C13, C14)	Vol. Tone	36X275 40X212F	124 22	Order from Mfr. MR55	Mfr.		40-20-20 .008	24/15	FPT346 Buffer	B14					6	6SA7, 6SK7, 6B8G, 6K6G, 6N7G	456		
D1124	Vol.	101210	18	UM161-SS22	M26		119117	12	BB24						4	1A7GT, 1N5GT, 1115GT, 3Q5GT	455		
D1182	Vol.	101252	18	MK402	M27		119123	76/78	Order from Mfr.						5	1A7GT, 1N5GT, 1115GT, 1A5GT, 35Z5GT	455		
D1192	Vol. Tone	101242 101245	18 21	UM154-SS17 Order from Mfr.	M26		119118 .005	24/15	FPT339 Buffer	B14	12627	248	C3	6	6SK7, 6SA7, 6SQ7, 6J5GT, 6N7	455			
DE3000, Issue "A"	Vol.	101-41	18	UM154-SS17	M26		119-65C .008	74	BB44 Buffer	B14	126-7	294	C2†	6	6K7G, 6A8G, 6Q7G, 6K6G, 6X5G	465			
L7	Vol. Tone	P691 P682	45 1	SRP275 L	7		P391 .01-.01	1	2N516 Buffer	B14	P402	245C	C3	7	1C6, 19, 30, 33A	156			
S690, S691	Vol. Tone		45 34	L L			4 4	13 15	BB31 BB11			205		5	39, 36, 38	262	7-1		
S709 (1935)	Vol.	36X201	6	TRP617			P45X28	12	BB20					5	32, 33, 30, 19	175			
S710, S711	Vol. Tone	36X205 40X204	56 34	N UC502			44X11 44X10	23 23	WE1835 RS216					7	6D6, 76, 6H7, 42, 80	456			
S712 (1935)	Vol. Tone	36X204 40X203	56/7 34	DRP314 UC502	6T		44X10 44X11	23 23	RS216 WE1830					7	6K7, 6H7, 76, 6F6, 80	456	10-47-49		
S712M	Vol. Tone	36X206 40X205	7/15 41	DRP315 UC504	6T		44X10 44X11 44X18 4-2-6	4 4 13 46	RS216 WE1835 RS203 CM175					10	6K7, 76, 45, 80	456			
S716, S717	Vol. Tone		8 34	A5MP UC502										8	35, 34, 27, 47, 80	175	7-2, 3		
S719	Vol.		6	Y	6	EX300	8-8	4	CM172					5	37, 35, 47, 80	262	7-4		
S720	Vol. Tone		1 34	SRP272 MR42			P80916 P80878C	4 13	RS213 BB31					7	35, 34, 47, 80	175	11-4		
S721	Vol. Tone	P91041 P90993	1 34	SRP271 UC502			P80894 P80891-C	4 13	RS213 BB31					7	35, 37, 47, 80	175	8-1, 2		
S724	Vol.	P96001	97	TRP602	14		P45X28	12	BB20					5	32, 33, 30, 19	175	8-3, 4		
S725, S726	Vol. Tone	P96014 P97011	56 34	N UC502	6		P81043 P81032	23 23	WE1830 RS213					7	6D6, 6H7, 76, 42, 80	456	7-5, 6		
S727	Vol. Tone	P96005 P97003	15 41	P UC504	6		P81039 P81018	2 2/13	RS216 CM175					10	6D6, 76, 45, 80	456	8-5, 6		
S732, S733	Vol.	P91066	17	N	6		RM262/BB15 P80937	25/19 14/15	RM262/BB15 2N516	BB126	P1926	292	C12	6	78, 77, 75, 41, 84	262	6-3, 4		
S735	Vol.	P96017	17	P	6		P82002	1/15	Buffer	B14	P2229	286S		5	6D6, 6C6, 75, 41	175	6-6, 7		
S740	Vol. Tone		18 22	UC511 UC502	6		P81028 P81021	1 15	CM172 TN111			253	C3	6	78, 77, 75, 41, 84	262	6-8		
S740 (1934)	Vol. Tone	SA106511 SA106715	18 22	N N	6		SA106536 .02	4	2S567 Buffer	B14	SA106561	296	C3	6	77, 78, 75, 42, 84	175			
S741 Series A, B, C	Vol. Tone	101-21 101-39	15 22	M MR39	6	EC256	11916 .015	1	2N519 Buffer	B14	1E2-4	209	C3	8	6D6, 6A7, 6A6, 85, 76, 81	465	12-3, 4		
S743	Vol.	83728	17	UC512	6		84829 83803	4 15	CM172 BB12		84905	294	C3	6	78, 77, 75, 41, 84	177.5	6-9, 10		
V6Z2	Vol.		17	N	6		.03-.03 P80956 P80937	25/19 14/15	Buffer RM262/BB15 2N516	B14 BB126		292	C12	6	78, 77, 75, 41, 84	262			

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replace- ment	*Note				
WESTINGHOUSE —	Continued																	
WR150	Vol.	36X244	71	UM120-SS18	M26			45X237	1/15	3N528					4	6J7, 25L6G, 25Z6G	456	11-5
WR152	Vol.	D5486	18	MR48	M26			D5499	1	2N509					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G	455	11-7
WR154	Vol.		18	MR44	M26T			16-16	1	2N506					5	6A8G, 6K7, 6Q7G, 25L6G, 25Z6G, BK42B	455	10-10
WR158	Vol. & Tone	K85479-3	75/1	SMD504			A67	86019-1	1	2N506					6	6A8G, 6K7, 6H6, 6F5, 25L6G, 25Z6G	455	12-1,2
WR162	Vol. Tone	D5576 D5575	18 44	MR48 MR39	M26			D5780 D5968	27 27	1B25 1B27					8	6K8, 6K7G, 6Q7G, 6U5, 25A6G, 6C5G, 25Z6G	455	11-9
WR165W, WR165L, WR165M	Vol.	32578	18	MR44	M26			39124-1	1	2N509					5	6A8, 6SK7, 6SQ7, 25L6, 25Z6	455	11-6
WR166B, C, G, I, R, W	Vol.		18	MR44	M26			20-12	1	2N509					5	12SA7, 12SK7, 12SQ7, 35L6GT, 35Z4GT	455	11-11
WR166A	Vol.		18	MR44	M26			20-12	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-7
WR166L, LB, LC, LG, LL, LR, LW	Vol.		18	MR44	M26			20-12	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-36
WR168, WR168A	Vol.		18	MR44	M26			30-30	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-12
WR168B	Vol.		18	MR44	M26			30-30	24	2N513					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-13
WR169	Vol.		18	MR48	M26			30-20	24	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-14
WR170	Vol.		18	MR55	M26			50-50	24	FPD214					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-23
WR172	Vol. Vol.		18 18	MR53 1 Meg.			A27 A19	50-50	24	FPD214					6	12SA7, 12SK7, 12SQ7, 35L6GT, 6N5, 35Z5GT	455	12-3, 4,32
WR173L	Vol.		18	MR44	M26			20-12	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-5
WR174L	Vol.		18	MR44	M26			20-12	1	2N509					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-5
WR175	Vol.		18	MR48	M26		A106	30-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-4,5
WR176	Vol.		18	MR48	M26		A106	30-20	1	2N514					5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	12-4,6
WR201	Vol.		6	E12		EX150		8-6 12	1	See Note BB12	B3				5	6D6, 76, 42, 80	456	6-4
WR203	Vol. Tone	XXR185A XXR186A	55 22	M N				XXC188	15 1	2S567					6	6A8, 6K7, 75, 6F6, 80	456	6-5,6
WR204	Vol. Tone	VR959 VR9512	75 121	M N	6			CE954 CE9511 CE9515	25/19 14 15	RM262/BB15 RS213 BB12	B213				7	6K7, 6A8, 6H6, 6F5, 6F6, 80	465	6-7,10
WR205	Vol. Tone	VR959 VR9512	75 121	N N	6			CE954 CE9511 CE9515	25/19 14 15	RM262/BB15 RS213 BB12	B213				8	6K7, 6A8, 6C5, 6H6, 6F5, 6F6, 80	465	6-11,14
WR208	Vol.	2NR214	56	M	6			2NC246 2NC247 IC43A	1 1 15	RS216 WE1835 BB12					5	6A7, 6D6, 85, 42, 80	456	7-3,4
WR209	Vol.	VR957	18	MR48	M26			CE9512 CE9511 CE9558	1 1 19	RS215 RS213 BB12					5	6F7, 6D6, 75, 42, 80	465	7-2
WR210	Vol.	VR9532	18	MR48	M26			CE9536 CE9535 CE9535	1 1 19	RS215 RS216 BB12					5	6A8, 6K7, 75, 6F6, 5Y3	465	7-3 & 12-7,8
WR211	Vol. Tone	VR9533 VR9534	75 22	TM230-SS1 MR24	M26			CE9536 CE9535 CE9537	25 25 13/15	RS215 RS216 2N518					6	6A8, 6K7, 6H6, 6F5, 6F6, 5Y3	465	8-9
WR212	Vol. Tone	VR9536 VR9512	75 15	TM230-SS1 MR48	M26			CE9536 CE9535 CE9528 CE9526	25 25 13 15	RS215 RS216 RS213 TN111					7	6K7, 6A8, 6F5, 6H6, 6F6, 5Y3 or 5Z4	465	8-5,8
WR214, WR214X	Vol. Tone	VR959 VR9537	75 22	N O	6			CE9536 CE9535 CE9528 CE9526	25 25 13 15	RS215 RS216 RS213 TN111					10	6K7, 6A8, 6C5, 6H6, 6F5, 6F6, 5Y3 or 5Z4, 6G5	465	9-5,8
WR217	Vol.	3FR256A	18	N	6			3RC318	23	CM172					5	6A7, 6D6, 75, 41, 80	456	
WR222	Vol.	VR9553	18	MR48	M26			CE9561 CE9565 CE9554	4 4 1	RS216 RS216 RS216					5	6A8G, 6K7, 6Q7G, 6Y6G, 5Y3G	455	9-9,10
WR224	Vol.	VR9553	18	MR48	M26			CE9554 CE9562 CE9568	1 1 13	RS216 RS216 RS213					5	6A8G, 6K7, 6Q7G, 6V6G, 5Y3G	455	11-15,16
WR226	Vol.	VR9548	75	MR48	M26			CE9554 CE9562 CE9568	1 1 13	RS216 RS216 RS213					6	6A8, 6K7, 6H6, 6F5, 6V6G, 5Y3G	455	10-1,2

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTINGHOUSE— WR228.....	Continued Vol.	VR9556...	18	TM251-SS1	M26			CF9554.....	1	RS216.....					8	6K7, 6Q8, 6Q7G, 6F6G, 6U5, 5Y3G	455	10-3,4
WR256.....	Vol.		18	MR44	M26T			CF9562.....	1	RS216.....					5	6A8, 6K7, 6Q7G, 6K6G, 5Y4G	455	10-19
WR258 (All Runs)...	Vol.		18	MR44	M26T			CF9568.....	13	RS213.....					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y4G	455	11-18
WR260 (All Runs)...	Vol.		18	MR40	M26T			5-5.....	1	2N518.....					5	6A8G, 6K7, 6Q7G, 6K6G, 5Y4G	455	11-19
WR262.....	Vol. Tone	D5576.....	18	MR48				8.....	1	WE850.....					6	6A8G, 6K7G, 6Q7G, 6V6G, 6U5, 5Y4G	455	11-13
WR264.....	Vol. & Tone	D5575.....	41	MR39	M26			18.....	1	WE1830.....								
			15,22	SMD501				10-10-5-20.....	1/13/15	F1Q424.....	B48			7	6K8, 6K7, 6I16, 6F5, 6U5, 6K6G, 5Y4G	455	10-5	
WR270.....	Vol.		18	MR53	M26			10-10.....	1	F1D231.....				5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y4G	455	11-21	
WR272.....	Vol.		18	MR53	M26			10-10.....	1	F1D231.....				6	6SA7, 6SK7, 6SQ7, 6F6G, 6U5, 5Y4G	455	12-4,11	
WR272L.....	Vol.		18	MR53	M26			10-10-20.....	1/15	F1T332.....				5	6SA7, 6K7, 6SQ7, 6F6G, 5Y4G	455	12-9,10	
WR274.....	Vol.		75	TM221-SS1	M26			10-10-20.....	1/15	F1T332.....				7	6SA7, 6SK7, 6I16, 6SF5, 6F6G, 6U5, 5Y4G	455	12-12,22	
WR290.....	Vol.		124	TM249-SS1	M26			10-10-10-20.....	1/13/15	F1Q424.....				8	6SK7, 6SA7, 6SQ7, 5Y3G	455	12-41-42	
WR303.....	Vol. Tone	XXR185A.....	55	M.....				XXC188.....	1	2S567.....				6	6A8, 6K7, 75, 6F6, 80	456	6-5,6	
WR304.....	Vol. Tone	XXR186A.....	22	M.....	6			CF9541.....	25/19	RM262/BB15	B213			7	6K7, 6A8, 6I16, 6F5, 6F6, 80	465	6-7,10	
		VR959.....	75	N.....				CF9511.....	14	RS213.....								
		VR9512.....	121	N.....	6			CF9515.....	15	BB12.....								
WR305.....	Vol. Tone	VR959.....	75	N.....				CF954.....	25/19	RM262/BB15	B213			8	6K7, 6A8, 6C5, 6I16, 6F5, 6F6, 80	465	6-11,14	
		VR9512.....	121	N.....	6			CF9518.....	14	RS213.....								
								CF9515.....	15	BB12.....								
WR306.....	Vol.	VR9510.....	15	MR53				CF9516.....	59	RS213.....				10	6K7, 6A8, 6C5, 6I16, 6F5, 6F6, 5Z3	465	7-5,8	
								CF9517.....	59	RS216.....								
								SA107913.....	15	TN111.....								
WR310.....	Vol.	VR9532.....	18	MR48	M26			CF9536.....	1	RS215.....				5	6A8, 6K7, 75, 6F6, 5Y3	465	12-7,8	
								CF9535.....	1	RS216.....								
								CF9515.....	19	BB12.....								
WR311.....	Vol. Tone	VR9535.....	75	500M.....			A19	CF9536.....	23	RS215.....				6	6A8, 6K7, 6I16, 6F5, 6F6, 5Y3 or 5Z4	465	7-4	
		VR9534.....	22	MR24				CF9535.....	23	RS216.....								
								CF9537.....	13/15	2N518.....								
WR312.....	Vol. Tone	VR9536.....	75	TM230-SS1				CF9536.....	25	RS215.....				7	6K7, 6A8, 6F5, 6I16, 6F6G, 5Y3 or 5Z4	465	8-5,8	
		VR9512.....	15	MR48	M26			CF9535.....	25	RS216.....								
								CF9528.....	13	RS213.....								
								CF9526.....	15	TN111.....								
WR314, WR314X.....	Vol. Tone	VR959.....	75	N.....				CF9536.....	25	RS215.....				10	6K7, 6A8, 6C5, 6I16, 6F5, 6F6, 5Y3 or 5Z4, 6G5	465	9-5,8	
		VR9537.....	22	O.....	6			CF9535.....	25	RS216.....								
								CF9528.....	13	RS213.....								
								CF9526.....	15	TN111.....								
WR315.....	Vol.	VR9536.....	18	TM230-SS1				CF9536.....	3	RS215.....				12	6K7, 6A8, 6J7, 6I16, 6Q7, 6L6, 5Z3, 6G5	465	8-10,13	
								CF9528.....	3	RS213.....								
								CF9535.....	3	RS216.....								
								CF9515.....	15	BB12.....								
WR316.....	Vol. Tone	VR9533.....	75	TM230-SS1	M26			CF9539.....	27	RS207.....				6	6A8, 6K7, 6I16, 6F5, 25A6, 25Z6, K42E	465	9-1,4	
		VR9534.....	22	MR24				CF9538.....	27	RS207.....								
								CF9540.....	13	RS203.....								
WR326.....	Vol.	VR9548.....	75	MR48	M26			CF9554.....	1	RS216.....				6	6A8, 6K7, 6I16, 6F5, 6V6G, 5Y3G	455		
								CF9562.....	1	RS216.....								
								CF9568.....	13	RS213.....								
WR328.....	Vol.	VR9556.....	18	TM251-SS1	M26			CF9554.....	1	RS216.....				8	6K7, 6A8, 6Q7G, 6F6G, 6U5, 5Y3G	455		
								CF9562.....	1	RS216.....								
								CF9568.....	13	RS213.....								
WR330, WR332.....	Vol.	VR9555.....	124	TM251-SS1				CF9554.....	1	RS216.....				10	6K7, 6A8, 6I16, 6F5, 6C5, 6F6G, 6U5, 5Y3G	455	10-7-9	
								CF9562.....	1	RS216.....								
								CF9528.....	14	RS213.....								
WR334.....	Vol.	VR9555.....	124	TM251-SS1				CF9554.....	3	RS216.....				12	6K7, 6A8, 6Q7, 6J7, 6I16, 6C5, 6V6G, 6U5, 5X4G	465		
								CF9570.....	3	RS216.....								
								CF9562.....	3	RS216.....								
WR336.....	Vol.	VR9555.....	124	TM251-SS1				CF9554.....	3	RS216.....				12	6K7, 6A8, 6Q7, 6C5, 6J7, 6I16, 6V6G, 6U5, 5X4G	465		
								CF9562.....	3	RS216.....								
								CF9570.....	3	RS216.....								
WR338.....	Vol.	VR9548.....	75	MR48	M26			CF9554.....	1	RS216.....				6	6A8, 6K7, 6I16, 6F5, 6V6G, 5Y3G	455		
								CF9562.....	1	RS216.....								
								CF9568.....	13	RS213.....								
WR342.....	Vol.	VR9561.....	124	TM251-SS1	M26			CF9554.....	1	RS216.....				8	6K7, 6A8, 6Q7, 6F6G, 6U5, 5Y3G	455	12-15-18	
								CF9562.....	1	WE1830.....								
								CF9568.....	14	RS213.....								
WR366.....	Vol. Tone		17 22	TM249-SS1 MR53	M26		A108	10.....	25	RS215.....				8	6K7, 6A8, 6Q7G, 6F6G, 6U5, 6J7, 5Y4G	455	11-24	
								16.....	25	WE1830.....								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replace- ment	*Note				
WESTINGHOUSE —	Continued																	
W1.368	Vol. Tone		17 22	TM249-SS1 MR53	M26		A108	25 16	25 25	WE3050 WE1835				10	*6K7, 6A8, 6Q7G, *6F6G, 6F5, 6U5, 6J7, 5U4G	455	11-31	
WR370	Vol. Tone		17	TM249-SS1				20	25	ST598				12	*6K7, 6A8, 6R7, *6J5, *6F6, 6U5, 6J7, 5T4	455	11-33	
WR372	Vol.		75	Order from TM240-SS1	M26			16-16 10-10	25/14	2S569 FPD231				6	6SA7, 6SK7, 6I16, 6SF5, 6F6G, 5Y4G	455	12-4,19	
WR372L	Vol.		75	MR55	M26			10-10	1	FPD231				6	6SA7, 6K7, 6I16, 6SF5, 6F6G, 5Y4G	455	12-20	
WR373	Vol.		75	MR44 TM240-SS1	M26		A4	10-10	1	FPD231				7	6SA7, 6SK7, 6I16, 6SF5, 6F6G, 6U5, 5Y4G	455	12-4,19	
WR373L	Vol.		75	TM249-SS1	M26			10-10	1	FPD231				7	6SA7, 6K7, 6I16, 6SF5, 6F6G, 6U5, 5Y4G	455	12-20	
WR373Y	Vol.		18	MR53			A27	50-50	24	FPD214				6	12SA7, 12SK7, 12SQ7, 25L6GT, 6N5, 35Z5GT	455	12-3, 4,32	
WR374	Vol.		18	1 Meg. TM220-SS1	M26		A19	10-10-10-20	1/13/15	FPQ424				8	6SA7, 6SK7, 6SQ7, *6F6G, 6SF5, 6U5/ 6G5, 5Y4G	455	12-21,22	
WR374L	Vol.		18	TM227-SS1	M26			10-10-10-20	1/13/15	FPQ424				8	6SA7, 6K7, 6SQ7, *6F6G, 6SF5, 6U5, 5Y4G	455	12-23,24	
WR386	Vol.		18	TM220-SS1	M26			10-10-20	1/15	FPT332				6	*6SK7, 6SA7, 6SQ7, 6K6GT, 5Y3G	455	12-26	
WR388	Vol.	35962	124	TM249-SS1	M26			35858	1/15	FPT332				9	*6SK7, 6SA7, 6I16, *6SF5, *6F6G, 5Y3G	455	12-28	
WR468	Vol.		18	MR44	M26			30-30	24	2N513				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-35	
WR468L	Vol.		18	MR44	M26			30-30	24	2N513				5	12SA7, 12SK7, 12SQ7, 50L6GT, 35Z5GT	455	11-35	
WR470	Vol.		18	TM238-SS1	M26			10-10	1	FPD231				5	6SA7, 6SK7, 6SQ7, 6F6G, 5Y4G	455	12-29,32	
WR472	Vol.	72357-27	18	MR44	M26T			86005-1	1	2S568				5	6A8, 6K7, 6Q7G, 6K6G, 5Y3G	455	10-11	
WR473, WR474	Vol.		18	TM238-SS1	M26			10-10-20	1/15	FPT332				8	6SA7, 6SK7, 6SQ7, *6F6G, 6U5, 6SF5, 5Y4G	455	12-31,32	
WR474L	Vol.		18	TM249-SS1	M26			10-10-20	1/15	FPT332				8	6SA7, 6K7, 6SQ7, *6F6G, 6SF5, 6U5, 5Y4G	455	12-30, 33,34	
WR475	Vol.		18	MR44	M26			20-12	1	2N509				5	12SA7, 12SK7, 12SQ7, 35L6, 35Z5	455	11-9	
WR476	Vol.		124	TM249-SS1	M26			10-10-20	1/15	FPT332				7	6SA7, 6K7, 6SQ7, *6F6G, 6SF5, 5Y4G	455	12-24, 34,35	
WR482	Vol.		17	TM249-SS1	M26			15-10-40	1/19	FPT338				6	6SA7, 6SK7, 6SQ7, 6AD7G, 6F6G, 5Y3G	455	12-37,38	
WR484	Vol.		17	TM249-SS1	M26			15-10-40	1/19	FPT338				7	6SF5, 6SA7, 6SK7, 6SQ7, *6K6GT, 5Y3G	455	12-37,38	
WR486	Vol. Tone IIF Tone Mike		124 22 127	TM254-SS1 MR55 MR53 MR48	M26 M26			10-15-40 16, 16	1/19 13	FPT338 BB44				9	6SA7, 6SK7, *6K6GT, *6Q7, 6U5, 6SJ7, 5Y3G	455	12-36	
WR500	Vol. Tone	VR951	18	UM154-SS23	M26			CF951 .008	4	CM172 Buffer		V1951	253Y	C3	6	*77, 78, 75, 42, 84	175	6-15
WR501	Vol.	VR952	121	N				QOC169A .008	1	4S718 Buffer	B14		253Y	C3	5	78, 6A7, 85, 41, 84	172.5	6-16
WR502	Vol. Tone	VR9524 VR9525	18 121	N	6	RS246		CF951 .008	4	CM172 Buffer	B14	V1951	253Y	C3	6	*77, 78, 75, 42, 84	175	11-37,40
WR503	Vol. Tone	VR9527 VR9525	75 121	UM150 UM150				CF951 CF9524 .005	4 14	CM172 BB12 Buffer	B14	V1955	294	C3	7	*6K7, 6A8, 6I16, 6F5, 6F6, 0Z4	175	11-41-43
WR601	Vol.		17	N	7										5	33, 34, 2S8, 1C6, 30	456	6-4
WR603	Vol.	VR9523	18	MR48	M26			CF9541 .008	1/15	3S579 Buffer	B14	V1957	245	C3	4	6D6, 6A7, 75, 41	465	10-13,14
WR604	Vol.	VR9538	18	MR48	M24			CF9542	12	RS203					5	1C6, 1A4, 1B5, 30, 19	465	10-15,16
WR605	Vol. Tone	VR9540 VR9539	18 22	MR48 MR18	M24			CE9543	12	RS207				6	1C6, 1A4, 1B5, 30, 19	465	10-17,18	
WR606	Vol.	VR9523	18	MR48	M26			CF9541 .008	1/15	3S579 Buffer	B14	V1957	245	C3	4	6D6, 6A7, 75, 41	465	
WR607	Vol.	VR9538	18	MR48	M24			CF9542	12	RS203				5	1C6, 1A4, 1B5, 30, 19	465		
WR608	Vol. Tone	VR9540 VR9539	18 22	MR48 MR18	M24			CE9543	12	RS207				6	1C6, 1A4, 1B5, 30, 19	465		
WR610	Vol. Tone	VR9560 VR9559	18 22	MR48 MR24	M26			CF9573 CF9550 .02-.02	1 15	RS203 BB17 Buffer		V19512	245	C3	4	6D8G, 6S7G, 6T7G, 6K6G	455	
WR675, WR675A	Vol.		18	MR48	M27			8	12	BB21	B14			4	1A7G, 1N5G, 1H5G, 1C5G or 1Q5G	455	11-44	

; Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WESTINGHOUSE WR677	Continued Vol.	3480	18	MR53	M27			2463	12	3B21					4	1A7GT, 1N5GT, 1H5GT, 1Q5GT	455	11-47
WR682, WR682A	Vol.	94817-1	18	Order from	Mfr.			36718	12	BB22					4	1R5, 1T4, 1S5, 1S4	455	12-40
WESTONE RADIO CORP. 20	Vol.		6	G12				4-4	4	2S567					4	58, 56, 2A5, 80		6-2
34 (4 Tube)	Vol.		6	G12				4-4	23	2S567					4	2A7, 57, 2A5, 80	456	6-1
34 (5 Tube)	Vol.		6	G12				4-4	23	2S567					4	57, 58, 56, 2A5, 80	456	6-1
40	Vol.		18	N				4-4	23	2S567					5	2A7, 58, 2A6, 2A5, 80	456	6-2
WEXTARK RADIO CORP.	(See Allied Radio & Knight Radio)																	
WHOLESALE RADIO SERVICE LI (AC)	ICE "Lafayette" - Also see Wells-Z12				Gardner			8	58	WE850					12	56, 57, 58, 46, 82	175	3-1
	Vol. Tone Supp.	45	41	UC502			8	58	WE850						12			
		8		E			4	58	RS213						12			
10	Vol. Tone		7	F	6	2	4	19	BB20					7	35, 24A, 27, 47, 80	175		
20	Vol. Tone		103	O			8, 8	23	RS213					10	35, 27, 47, 80	175		
	Vol. Tone		78	N			8, 8, 8	30	RS213					10				
L20 (05A Series)	Vol.	P91019C	41	P	6									5	77, 78, 43, 25Z5	262	3-2	
	Vol.		6	G12	6	EX300		P80944	11	SR631				5				
M31	Vol.	534	6	G12				P8087C	20	BB20				5	57, 58, 47, 80	175	3-3	
M35, M37	Vol. Tone	534	124	N				P80936C	15	BB11				7	58, 55, 56, 47, 80	175	3-3	
	Vol. Tone		22	M				271	4	BB60				5				
40	Vol. Tone		111	Y5MP				4, 2-6	30	CM175				8	35, 24A, 27, 47, 80	175		
40A	Vol. Tone		34	UC502				4	13	BB31				8	35, 24A, 27, 47, 80	175		
M53	Vol. Tone	535	124	N				4, 2-6	30	CM175				8				
	Vol. Tone	534	22	UC502				4	13	BB31				7	58, 55, 56, 47, 80	175	3-3	
Mighty Atom V.A.	Vol.	8753	6	M				4, 4	4	BB60				5				
Great Duo-Symphonic	Vol. Tone		24	G12	6			2, 2	4	See Note	B2			5	51, 24, 47, 80			
Duo-Symphonic Jr. 1931	Vol. Tone		41	H12				5, 5		ST595				5	24A, 51, 47, 80			
Duo-Symphonic 1930	Vol.	P911	1	O										8	24, 27, 45, 80		1-1	
Auto Radio Super-heterodyne	Vol.		64	O				1-1-5-1.5	61	See Note	B1			7	24A, 27, 45, 80		1-1	
				H12				1-1-5	†	See Note	A1			9	26, 24, 45, 80		1-2	
				E12				1-1-1-2	59	See Note	B1			6	39, 36, 37, 38	262	3-4	
				N														
WILCOX-GAY A3, A4 (5A6)	Vol.		15	MR44										6	1A6, 34, 30, 33	456	9-1	
A5, A6 (5F8)	Vol. Tone		45	MR48				6-6	1	2N516				8	34, 30, 33, 84	456	9-2	
			106	MR44				4	13	BB31		296	C3					
A11 (6A5)	Vol.	19-1291	18	MR48	M26			25	19	BB15								
								.015		Buffer	B14							
A16	Vol.	19-1291	18	MR48	M26			18-2005	1	ST596				5	6A7, 78, 75, 42, 80	175		
								18-2006	1	WE1830								
A18, A19	Vol. Tone	19-1319	17	MR48				18-928	15	BB15				5	6A7, 78, 75, 42, 80	175		
		19-1317	21	MR45				18-2005	1	ST596								
A21	Vol. Tone	19-2005	15	MR48	M26			18-2006	1	WE1830				6	6A8, 6K7, 6Q7, 6F6, 6G5, 5Z4	175	8-4	
		19-2004	21	MR45	M27			18-928	15	BB15								
A22, A23	Vol.	19-1315	12	N				18-721	4	RS213				12	6K7, 6A8, 6H6, 6F5, 6L6, 5Z4, 6G5	456		
A24, A25	Vol.	19-1296	6	MR18	M26			18-2004	14	BB60				4	1C6, 1A4, 1B4, 1F4	175		
								18-928	15	BB15		72-2001	See Note	C8	4	6A7, 75, 38	175	
A26	Vol. Tone	19-1291	18	MR48	M26			.015		Buffer	B14							
A27, A28	Vol. Tone	19-1317	21	MR45				18-721	4	RS213				11	6A8, 6K7, 6H6, 6F5, 6G5, 6F6, 80	456		
		19-1291	18	MR48	M26			18-2005	1	WE1250				5	6A7, 78, 75, 42, 80	175		
		19-1317	21	MR45				18-2006	1	WE1830								
A29	Vol. Tone	19-1315	18	MR48				18-928	15	BB15				5	6A7, 78, 75, 25L6, 25Z5	175		
A30, A31	Vol. Tone	19-1291	18	MR45	M26			18-2003	8	TN122				5	6A8, 6K7, 6Q7, 6F6, 5Z4	456		
		19-1317	21	MR45				18-928	15	BB15				5	6A7, 78, 75, 42, 80	175		
A33	Vol. Tone	19-1291	18	MR48	M26			18-2008	1	2N518				5				
		19-1317	21	MR45				18-928	15	BB15				5	6A7, 78, 75, 42, 80	456		
								18-2005	1	WE1250				5				
A35, A36, A37	Vol. Tone	19-2008	17	MR48				18-2006	1	WE1830				7	78, 6A7, 75, 42, 80	456		
		19-2009	21	MR45				18-721	1	RS213								
								18-2005	1	WE1250								
								18-928	15	BB15								

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WILCOX-GAY—Continued																		
A40.....	Vol. Tone	19-1291 19-1317	18 21	MR48 MR45	M26			18-2005 18-2006 18-928	1 1 15	WE1250 WE1830 BB15					5	6A7, 78, 75, 42, 80...	175	
A41, A42.....	Vol. Tone	19-2008 19-2010	17 21	MR48 MR45	M27										5	1C7G, 1D5G, 1H6G, 1F5G	456	
A43, A44, A45.....	Vol. Tone	19-1291 19-1317	18 21	MR48 MR45	M26			18-2008 18-928	1 15	2N518 BB15					5	6A8, 6K7, 6Q7, 6F6, 5Z4	456	
A48.....	Vol. Tone	19-2007	18	MR48	M26			18-2009 18-928	1 15	2N512 BB12					5	6A7, 78, 75, 43, 25Z5	456	10-3
A49.....	Vol. Tone	19-2007 19-2009	18 21	MR48 MR45	M26			18-2009 18-928	1 15	2N512 BB15					5	6A7, 78, 75, 43, 25Z5	456	10-4
A50 (Ch. 8D5).....	Vol. Tone	19-2007 19-2009	18 21	MR48 MR45	M26			18-2010 18-2011 18-928	1 1 15	BB24 BB21 BB15					5	6A7, 6D6, 75, 43, 25Z5	456	10-5
A51 (8C4).....	Vol. Tone	19-2011	7	MR22	M26			18-2010 18-2011 18-2012	23 23 15	BB24 BB21 BB12					4	6K7, 6J7, 25L6, 25Z6		12-13
A52 (Ch. 8F5).....	Vol. Tone	19-2007 19-2009	18 21	MR48 MR45	M26			18-2014 18-2013	23 23	BB61 BB60					5	6A7, 6D6, 75, 42, 80	456	10-6
A53 (Thin Man, Ch. 8J5).....	Vol. Tone	19-2012	18	MR48	M26													
A53 (9C5).....	Vol. Tone	19-2012	18	MR48	M26			18-2011 18-2010 18-2012	8 8 15	BB21 BB24 BB12					5	6A8, 6K7, 6Q7, 25L6, 25Z6	456	10-7
A54 (Ch. 8L7).....	Vol. Tone	19-2007 19-2009	17 22	MR48 MR45	M26			18-2010 18-2012	6 6	BB24 BB21					5	12A8, 12K7, 12Q7, 35L6, 45Z5	456	12-11
A55 (Ch. 8N7).....	Vol. Tone	19-2007 19-2009	17 22	MR48 MR45	M26			18-721 18-2006 18-2012	1 1 15	RS213 WE1830 BB12					7	6A7, 6D6, *75, *42, 80	456	10-8
A56, A57, A60 (8K2).....								18-721 18-2006 18-2012	1 1 15	RS213 WE1830 BB12					7	6A7, 6D6, *75, *42, 80	456	10-8
A58 (9R4).....	Vol. Tone	19-2009	22	MR45				18-2010 18-2010 18-2011	24 24 24	BB12 BB24 BB21					2	6A7, 25Z5		12-11
A58 (9R4).....	Vol. Tone	19-2008	18	MR48														
A61 (9A2).....																		
A63 (9B3).....	Vol. Tone	19-2013 19-2013	50 21	MR44 MR44	M26 M26			19-2010 18-2011 18-2016	24 24 24	BB24 BB21 BB27					2	12A8, 25X6, 35L6		11-5
A64 (9G3).....	Vol. Tone	19-2013 19-2013	50 21	MR44 MR44	M26 M26			18-2012 18-2016 18-2011	15 24 24	BB12 BB27 BB21					3	12A8, 25X6, 35L6		
A65 (9F2).....	Vol. Tone	19-2013	50	MR44	M26			18-2012 18-2010 18-2011	15 24 24	BB12 BB24 BB21					2	12SA7, 35Z4		
A69 (9L5).....	Vol. Tone	19-2014 19-2009	17 22	MR48 MR45	M26			18-2015 18-2012	1 15	BB61 BB12					5	6A8, 6K7, 6Q7, 6K6, 5W4	456	11-6
A70 (9J9).....	Vol. Tone	19-2014 19-2009	17 22	MR48 MR45	M26			18-2017 18-2012	1/13/15 15	FPO424 BB12					9	6A8, 6K7, *6Q7, 6J7, *6K6, 6U5/6G5, 5W4	456	11-7-12
A71 (9M5).....	Vol. Tone	19-2007 19-2009	15 22	MR48 MR45	M26			18-2010 18-2011 18-2012	1 13 15	BB24 BB21 BB12					5	12J7, 12Q7, 35L6, 6N5, 45Z5		11-21
A72 (9Q5).....	Vol. Tone	19-2014 19-2009	15 22	MR48 MR45	M26			18-2017 18-2012	1/13/15 15	FPO424 BB12					5	6J7, 6Q7, 6U5/6G5, 6K6, 5W4		11-13,14
A73 (9E5).....	Vol. Tone	19-2017	18	MR53	M27			18-2018	76/78	FPO409					5	1A7, 1N5, 1H5, 1A5, 45Z5	456	11-15,16
A74 (9R5).....	Vol. Tone	19-2014	17	MR48	M26			18-2010 18-2011 18-2012	1 13 15	BB24 BB21 BB12					5	12A8, 12K7, 12Q7, 35L6, 45Z5	456	
A78 (9I7).....	Vol. Tone	19-2014 19-2009	17 34	MR48 MR45	M26			18-2015 18-2006 18-2012	1 1 15	BB61 WE1830 BB12					7	6A8, 6K7, *6Q7, *6K6, 5W4	456	11-17,18
A79 (9N7).....	Vol. Tone	19-2014 19-2009	17 34	MR48 MR45	M26			18-2015 18-2006 18-2012	1 1 15	BB61 WE1830 BB12					7	6A8, 6K7, *6Q7, *6K6, 5W4	456	11-19,20
A81.....	Vol. Tone	19-2014 19-2009	17 22	MR48 MR45	M26			18-2017 18-2012	1/13/15 15	FPO424 BB12					9	6A8, 6K7, *6Q7, 6J7, *6K6, 6U5/6G5, 5W4	456	11-7-12
A82.....	Vol. Tone	19-2014 19-2009	17 22	MR48 MR45	M26			18-2017 18-2012	1/13/15 15	FPO424 BB12					9	6A8, 6K7, *6Q7, 6J7, *6K6, 6U5/6G5, 5W4	456	11-7-12
A85, A87, A88.....	Vol. Tone	19-2014 19-2009	17 34	MR48 MR45	M26			18-2017 18-2012	1/13/15 15	FPO424 BB12					7	6A8, 6K7, 6Q7, 6K6, 6J7, 6U5/6G5, 5W4	456	12-9,10
A89.....	Vol. Tone	19-2014 19-2009	17 22	MR48 MR45	M26			18-2020 20.....	1/13 15	FPT389 BB15					10	*6K7, 6A8, *6Q7, 6J7, *6K6, 6U5/6G5, 5W4	456	12-13,14
A90.....	Vol. Tone	19-2014 19-2009	17 34	MR48 MR45	M26			18-2017 18-2012	1/13/15 15	FPO424 BB12					7	6A8, 6K7, 6Q7, 6K6, 6J7, 6U5/6G5, 5W4	456	12-9,10
A91, A92, A93, A94.....	Vol. Tone	19-2014 19-2009	17 22	MR48 MR45	M26			18-2020 20.....	1/13 15	FPT389 BB15					10	*6K7, 6A8, *6Q7, 6J7, *6K6, 6U5/6G5, 5W4	456	12-13,14

: Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WILCOX-GAY---Continued	12A8, 35Z4																	
A100	Vol.	19-2018	17	MR48	M26			18-2010	24	BB24					2	12A8, 35Z4		
C15	Vol.	19-1291	18	MR48	M26			18-2011	24	BB21					5	6A8, 6K7, 6SQ7, 6K6, 5W4	456	
2S5	Vol.	534	6	G12				18-2020	1, 15	FT389					5	6A7, 78, 75, 42, 80	175	
2T5	Vol.	534	6	G12				18-2021	15	BB15					5	6A7, 78, 75, 42, 80	175	
2U7	Vol.		18	N				18-2005	1	WE1250					5	6A7, 78, 75, 42, 80	175	
2VA7	Vol.	535	21	M	6			18-2006	1	WE1830					5	6A7, 78, 75, 42, 80	175	
2VB7	Vol.		18	N				18-928	15	BB15					5	6A7, 78, 75, 42, 80	175	
3D5	Vol.	445	21	M	6			1, 4	4	BB60					5	6A7, 78, 75, 42, 80	175	
3F7	Vol.		21	M	6			4-12	4	BB60					5	6A7, 78, 75, 42, 80	175	
3J4	Vol.	19-1315	18	MR48				4-12	4	See Note	B3				7	6A7, 78, 75, 42, 80	175	
3J5, 3K5	Vol.	853	6	G12	6			4-12	4	See Note	B3				7	6A7, 78, 75, 42, 80	175	
3JC5	Vol.	19-1296	6	MR18	M26			965	8	TN122					5	6A7, 78, 75, 42, 80	175	
3JD5, 3JG5	Vol.	19-1296	6	G12	6			928	15	BB15					5	6A7, 78, 75, 42, 80	175	
3JE5	Vol.	19-1296	6	MR18	M26			18-1085	8	TN122					5	6A7, 78, 75, 42, 80	175	
3JF5	Vol.	19-1296	6	G12	6			18-928	15	BB15					5	6A7, 78, 75, 42, 80	175	
3JM6, 3JQ6	Vol.	19-1291	17	MR48	M26			18-1085	8	TN122					5	6A7, 78, 75, 42, 80	175	
3KD5	Vol.	19-1317	21	MR45				18-928	15	BB15					5	6A7, 78, 75, 42, 80	175	
3KE5	Vol.	19-1296	6	G12	6			18-2001	6	2N502					5	6A7, 78, 75, 42, 80	175	
3LB7	Vol.		18	N				18-2003	8	TN122					5	6A7, 78, 75, 42, 80	175	
3PA6-66, 3P6	Vol.	512	6	G12	6			4-10-4	8	TN122					5	6A7, 78, 75, 42, 80	175	
3PB8	Vol.		22	M				25	15	BB15					5	6A7, 78, 75, 42, 80	175	
3R6	Vol.		21	M	6			18-1085	8	TN122					5	6A7, 78, 75, 42, 80	175	
3SB5	Vol.		15	N				18-928	15	BB15					5	6A7, 78, 75, 42, 80	175	
3S5-66	Vol.	535	76	N	6			8-8-4-4-4-4	62	See Note	B3				5	6A7, 78, 75, 42, 80	175	
3T6-66	Vol.	535	18	N	6			18-1085	8	TN122					5	6A7, 78, 75, 42, 80	175	
3TB8	Vol.		21	M				18-928	15	BB15					5	6A7, 78, 75, 42, 80	175	
3V6 (BC & SW) 3VA6 (BC only)	Vol.		17	N				4-10-4	8	TN122					5	6A7, 78, 75, 42, 80	175	
3VB6	Vol.		17	N	6			25	19	BB15					5	6A7, 78, 75, 42, 80	175	
4B6 Road Mate	Vol.		18	N				18-928	15	BB15					5	6A7, 78, 75, 42, 80	175	
4C5, 4CA5 4CB5	Vol.		17	N				4-10-4	8	TN122					5	6A7, 78, 75, 42, 80	175	
4CD5	Vol.		17	N				25	19	BB15					5	6A7, 78, 75, 42, 80	175	
4D10, 4DB10	Vol.		106	N	6			1327	1	CM172					5	6A7, 78, 75, 42, 80	175	
4E6	Vol.		17	N	6			25	15	BB15					5	6A7, 78, 75, 42, 80	175	
4G7	Vol.	19-1291	17	N	6			25	15	BB15					5	6A7, 78, 75, 42, 80	175	
4H11	Vol.	19-1317	76	MR45				18-1129	4	RM262					5	6A7, 78, 75, 42, 80	175	
4J6, 4JC6	Vol.	19-1291	76	N	6			18-928	20	BB15					5	6A7, 78, 75, 42, 80	175	
4JA6, 4JB6	Vol.	19-1291	76	N	6			18-721	1	RS213					5	6A7, 78, 75, 42, 80	175	
5B5, 5BC5	Vol.	19-1291	17	MR48	M26			75-267A	13	BB31					5	6A7, 78, 75, 42, 80	175	

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
WILCOX-GAY—Continued																		
5BA5	Vol.	19-1291	17	MR48	M26			18-1274	4	CM170					5	6A7, 78, 75, 42, 80	456	7-5
	Tone	19-1317	76	MR45				18-928	15	BB15								
5BE6	Vol.	19-1291	17	MR48	M26			18-2002	4	CM170					6	6A7, 78, 75, 42, 80,		
	Tone	19-1317	21	MR45				18-928	19	BB15						6E5	456	7-6
5E7	Vol.	19-1291	17	N	6			18-1274	4	CM170	B3				7	76, 78, 42, 75, 80	456	6-7
	Tone	19-1317	21	MR45				18-928	15	BB15								
5EA7	Vol.	19-1291	76	N	6			18-1274	4	CM170	B3				7	76, 78, 75, 42, 80	456	6-8
	Tone	19-1317	76	MR45				18-928	20	BB15								
5E8, 5E9	Vol.	19-1291	17	MR48	M26			18-2004	4	ST595					8	6K7, 6C5, 6116, 6F5,		
	Tone	19-1317	22	MR45				18-2002	4	CM170						6F6, 5Z4	456	7-5
6A5	Vol.	19-1291	15	MR48	M26			18-928	19	BB15					5	6A7, 78, 75, 42, 80	175	8-1
								18-2005	1	WE1250								
								18-2006	1	WE1830								
6AB5, 6AC5	Vol.	19-1291	15	MR48	M26			18-928	15	BB15					5	6A7, 78, 75, 42, 80	175	115
								18-2005	1	WE1250								
								18-2006	1	WE1830								
6B8	Vol.	19-1291	17	MR48	M26			18-928	15	BB15					8	78, 76, 6K7, 6J7, 42,		
	Tone	19-1317	21	MR45				18-2002	4	CM170						6E5, 80	175	8-2
6D6	Vol.	19-1291	17	MR48	M26			18-2003	8	TN122					5	6A7, 78, 75, 43, 25Z5,		
								18-928	15	BB15						L49B	175	8-3
6F6, 6FB6	Vol.	19-2006	17	MR48				18-2005	1	WE1250					6	6A8, 6K7, 6Q7, 6F6,		
	Tone	19-1317	21	MR45				18-2006	1	WE1830						6C5, 5Z4	175	8-4
								18-928	15	BB15								
6J4	Vol.	19-1296	6	MR18	M26			18-2006	1	WE1830		72-2001	See Note	e C8	4	6A7, 75, 38	175	
								18-928	15	BB15								
								.015		Buffer	B14							
6M6	Vol.	19-1315	17	MR48				18-2003	11	TN122					5	6A7, 78, 75, 43, 25Z5,		
	Tone	19-1317	21	MR45				18-928	15	BB15						L49B	115	12-2,3
6P4	Vol.	19-1315	12	N											4	IC6, 1A4, 1B4, 1F4,	175	
6S12	Vol.	19-2005	15	MR48	M26			18-721	4	RS213					12	6K7, 6A8, 6116, 6F5,		
	Tone	19-2004	21	MR45	M27			18-2004	14	CS131						6L6, 5Z4, 6C5	456	
								18-928	15	BB15								
6T11	Vol.	19-1291	18	MR48	M26			18-721	4	RS213					11	6A8, 6K7, 6116, 6F5,		
	Tone	19-1317	21	MR45				18-2005	1	WE1250						6C5, 6F6, 80	456	9-3
7A5	Vol.	19-1291	18	MR48	M26			18-2005	4	WE1250					5	6A7, 78, 75, 42, 80	175	
	Tone	19-1317	21	MR45				18-2006	1	WE1830								
								18-928	15	BB15								
7AB5	Vol.	19-1291	18	MR48	M26			18-2005	1	WE1250					5	6A7, 78, 75, 42, 80	115	
	Tone	19-1317	21	MR45				18-2006	1	WE1830								
								18-928	15	BB15								
7AC5	Vol.	19-1291	18	MR48	M26			18-2005	1	WE1250					5	6A7, 78, 75, 42, 80	175	
	Tone	19-1317	21	MR45				18-2006	1	WE1830								
								18-928	15	BB15								
7C6, 7CB6	Vol.	19-1315	17	MR48				18-2005	1	WE1250					5	6A8, 6K7, 6Q7, 6F6,		
	Tone	19-1317	21	MR45				18-2006	1	WE1830						5Z4	175	12-2,7
								18-928	15	BB15								
7D6	Vol.	19-1315	18	MR48		A4		18-928	15	BB15					5	6A7, 78, 75, 25L6,		
	Tone	19-1317	21	MR45				18-2003	8	TN122						25Z5	175	
7E5, 7EA5	Vol.	19-1291	18	MR48	M26			18-928	15	BB15					5	6A8, 6K7, 6Q7, 6F6,		
	Tone	19-1317	21	MR45				18-2008	1	2N518						5Z4	456	
								18-928	15	BB15							175	
7G5, 7GB5	Vol.	19-1291	18	MR48	M26			18-2005	1	WE1250					5	6A7, 78, 75, 42, 80		
	Tone	19-1317	21	MR45				18-2006	1	WE1830								
								18-928	15	BB15								
7J7, 7K7	Vol.	19-2008	17	MR48				18-721	1	RS213					7	78, 6A7, 75, 42, 80	156	
	Tone	19-2009	21	MR45				18-2005	1	WE1250								
								18-928	15	BB15								
7R5	Vol.	19-2008	17	MR48											5	IC7G, 1D5G, 1H6G,		
	Tone	19-2010	21	MR45	M27											1F5G	456	
7S5 (Chassis)	Vol.	19-2007	18	MR48	M26			18-2009	1	2N512					5	6A7, 78, 75, 43, 25Z5	456	10-3
								18-928	15	BB12								
7T5	Vol.	19-2007	18	MR48	M26			18-2009	1	2N512					5	6A7, 78, 75, 43, 25Z5	456	
	Tone	19-2009	21	MR45				18-928	15	BB15								
7X10 (Police Receiver)	Vol.	10-2007	75	MR48	M26			18-721	4	RS213					10	78, 6A7, 6116, 76, 42,		
	Tone	19-2010	3	MR45	M27			18-928	15	BB15						80	175	
	Muter	19-1296	8	MR18	M26													
8A5	Vol.	19-2007	18	MR48	M26			18-2008	1	2N518					5	6A8, 6K7, 6Q7, 6F6,		
																5Z4	156	
8C4	Vol.	19-2011	7	MR22	M26			18-2010	23	BB24					4	6K7, 6J7, 25L6, 25Z6		12-13
								18-2011	23	BB21								
								18-2012	15	BB12								
8D5	Vol.	19-2007	18	MR48	M26			18-2010	1	BB24					5	6A7, 6D6, 75, 42, 25Z5	456	10-5
	Tone	19-2009	21	MR45				18-2011	1	BB21								
								18-928	15	BB15								
8E5	Vol.	19-2007	18	MR48	M26			18-2014	23	BB61					5	6A7, 6D6, 75, 42, 80	456	10-6
	Tone	19-2009	21	MR45				18-2013	23	BB60								
8J5	Vol.	19-2012	18	MR48	M26			18-2011	8	BB21					5	6A8, 6K7, 6Q7, 25L6,		
								18-2010	8	BB24						25Z6	456	10-7
								18-2012	15	BB12								
								18-2010	24	BB24					2	6A7, 25Z5		12-11
8K2								18-2011	24	BB21								

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
WILCOX-GAY—Continued																		
8L7.....	Vol. Tone	19-2007 19-2009	17 22	MR48 MR45	M26			18-721 18-2006 18-2012	1 1 15	RS213 WE1830 BB12				7	6A7, 6D6, 75, 42, 80	456	10-B	
8N7.....	Vol. Tone	19-2007 19-2009	17 22	MR48 MR45	M26			18-721 18-2006 18-2012	1 1 15	RS213 WE1830 BB12				7	6A7, 6D6, 75, 42, 80	456	10-B	
8P2.....								18-2010 18-2011	21 24	BB24 BB21				2	6A8GT, 5Z4G1			
8R4.....	Vol.	19-2008	18	MR48										4	1A7G, 1N5G, 1H5G, 1C5G	456		
9A2.....								19-2010 18-2011	24 24	BB24 BB21				2	12A8, 35Z4		11-5	
9B3.....	Vol. Tone	19-2013 19-2013	50 21	MR44 MR44	M26 M26			18-2016 18-2011	24 24	BB27 BB21				3	12A8, 35L6, 25X6			
9C5.....	Vol.	19-2012	18	MR48	M26			18-2012 18-2010	15 6	BB12 BB24				5	12A8, 12K7, 12Q7, 35L6, 45Z5	456	12-11	
9E5.....	Vol.	19-2017	18	MR53	M27			18-2011 18-2018	6 78/76	BB21 FPQ409				5	1A7, 1N5, 1H5, 1A5, 45Z5	456	11-15,16	
9F2.....	Vol.	19-2013	50	MR44	M26			18-2010 18-2011	24 24	BB21 BB21				2	12SA7, 35Z4			
9G3.....	Vol. Tone	19-2013 19-2013	50 21	MR44 MR44	M26 M26			18-2016 18-2011	24 24	BB27 BB21				3	12A8, 25X6, 35L6			
9J9.....	Vol. Tone	19-2014 19-2009	17 22	MR48 MR45	M26			18-2012 18-2017 18-2012	15 13 15 15	BB15 FPQ424 BB12				9	6A8, 6K7, 6Q7, 6J7, 6K6, 6U5/6G5, 5W4	456	11-7-12	
9L5.....	Vol. Tone	19-2014 19-2009	17 22	MR48 MR45	M26			18-2015 18-2012	1 15	BB61 BB12				5	6A8, 6K7, 6Q7, 6K6, 5W4	456	11-6	
9M5.....	Vol. Tone	19-2007 19-2009	15 22	MR48 MR45	M26			18-2010 18-2011	1 13	BB24 BB21				5	12J7, 12Q7, 35L6, 6N5, 45Z5		11-21	
9N7.....	Vol. Tone	19-2014 19-2009	17 34	MR48 MR45	M26			18-2012 18-2015 18-2006	15 1 1	BB12 BB61 WE1830				7	6A8, 6K7, 6Q7, 6K6, 5W4	456	11-19,20	
9P7.....	Vol. Tone	19-2014 19-2009	17 34	MR48 MR45	M26			18-2012 18-2015 18-2006	15 1 1	BB12 BB61 WE1830				7	6A8, 6K7, 6Q7, 6K6, 5W4	456	11-17,18	
9Q5.....	Vol. Tone	19-2014 19-2009	15 22	MR48 MR45	M26			18-2012 18-2017	15 13/15	BB12 FPQ424				5	6J7, 6Q7, 6U5, 6G5, 6K6, 5W4		11-13,14	
9R5.....	Vol.	19-2014	17	MR48	M26			18-2010 18-2011	1 13	BB24 BB21				5	12A8, 12K7, 12Q7, 35L6, 45Z5	456		
9-559 (8T6).....	Vol. Tone	19-2008 19-2009	17 21	MR48 MR45				18-2012 18-2014 18-2013	15 1 1	BB12 BB61 BB60				5	6A8, 6D6, 75, 42, 80	456		
9-569 (8S5).....	Vol. Tone	19-2008 19-2009	17 21	MR48 MR45				18-2012 18-2014 18-2013	15 1 1	BB12 BB61 BB60				6	6A8, 6D6, 75, 42, 80, 6E5	456		
9-689 (8V8).....	Vol. Tone	19-2007 19-2009	17 17	MR48 MR45	M26 M26			18-2012 18-2005 18-2015	15 1 1	BB12 WE1250 BB61				8	6A7, 6D6, 75, 42, 6E5, 80	456		
WINDHAM—See Air King																		
WINGS—See Goodbye																		
RUDOLPH WURLITZER—Also see American Model "B" 1930-31, G4, M4	Vol.	5740	25	Mohawk "Lytic" DRP169				16	10	BB34				6	32, 30, 31			
P5.....	Vol.		17	N	6			8-4-10 Y3764RA	10/15 6/15	3S579 UR189	B98			5	6A7, 6B7, 43, 25Z5	456	4-1, 5-10	
SA5.....	Vol. Tone		18 22	N G12	6			Y3715RA	1/15 15	3S579 BB12				5	2A7, 58, 2A6, 2A5, 80	175	4-3, 5-12	
SU5.....	Vol. Tone		17 22	N H12	6			16-12-10	6/15	3N526				5	6A7, 78, 75, 43, 12Z3	456	4-5, 5-15	
SA6.....	Vol. Tone		18 22	N G12	6			8-8	1	RM262 BB12				6	2A7, 58, 2A6, 2A5, 80	175	4-4, 5-13	
B6.....	Vol. Tone		22 25	G12 DRP244	6			10	15	BB12				5	1A6, 34, 32, 33, 10AB	175	5-19	
D.C. 7 110 volts.....	Vol. Tone	1821 1587	24 34	H12 K12	6	See Note A5		1.5-2	1	See Note	B7			7	33, 36, 37	175		
S40.....	Vol.		2	Y				8, 8	1	ST595				4	47, 357, 80	175		
S50.....	Vol. Tone		6 22	F12 G12	6			10 8, 8	19	BB12 RS213				5	47, 357, 58, 80	175		
U50.....	Vol.		6	Y	6			10	19	BB12				5	44, 43, 25Z5	485	4-6	
A60.....	Vol. Tone		22 22	UC502 H12				16-12-10 Y3773RA	6/15 1/15	3N526 3S579				6	6B7, 78, 6A7, 41, 84	485	4-7	
S63.....	Vol. Tone		42 22	H G12				6900 10	1 15	Buffer RS213 BB12	B14	292	C3	6	24, 27, 35, 47, 80	175		

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference	
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
RUDOLPH WURLITZ	continued																		
DC65 110 volts	Vol.		8	G				3.5	1	See Note	B11				6	33, 36, 37, 39	175		
	Tone		34	K12															
SA65	Vol.		15	N	6			8, 8	1	RS213					6	47, 55, 57, 58, 80	175		
	Tone		22	G12				10	16	BB12									
R80	Vol.		43	DRP169				8	12	RS203					8	30, 34, 32	175		
	Tone		21	M															
SW80	Vol.		15	N				8, 8	1	RS213					8	47, 56, 57, 58, 80	485		
	Tone		22	G12															
SW88	Vol.		15	N				8, 8	1	RS213					8	57, 58, 56, 2A5, 80	485	4-8, 5-16	
	Tone		22	G12	6			10	15	BB12									
SA90	Vol.		45	N	6			8, 8	1	RS213					9	24, 27, 35, 47, 55, 80	175		
	Tone		21	N				10	15	BB12									
	Sen.		1	F		See Note A4													
SA91	Vol.		45	N	6			8, 8	1	RS213					9	47, 56, 57, 58, 55, 80	175		
	Tone		21	N				10	15	BB12									
	Sen.		1	F		See Note A4													
SA91A	Vol.		45	N	6			8, 8	1	RS213					9	57, 58, 56, 55, 2A5, 80	175	4-9, 5-14	
	Tone		21	N				10	15	BB12									
	Sen.		1	F															
SA120	Vol.		45	N				8, 8	1	RS213					12	58, 56, 57, 56, 80	175	4-10	
	Tone		21	N				5	15	BB11									
	Supp.		1	F				5	17	BB11									
SA130	Vol.		15	N				8, 8, 8	7	RS213					13	47, 56, 57, 58, 82	175		
	Tone		39	N				5	15	BB11									
	Sen.		8	H		See Note A4													
SA133	Vol.		15	O				8, 8, 8	7	RS213					13	56, 57, 58, 2A5, 82	175	4-11, 5-17	
	Tone		21	N	6														
	Supp.		6	F7	6	1		Y3715RA	1/15	3S579					5	58, 57, 2A5, 80	456	5-1, 2	
450	Vol.		18	N	6			Y3715RA	1/15	3S579					5	6A7, 6D6, 75, 41, 80	456	5-4	
	Tone		17	UC512				10	15	BB12									
460	Vol.		22	H12				8-6-10	1/15	3S579	B3	292	C3	6	41, 6B7, 6D6, 84	175	5-5, 6		
	Tone		18	N				.02	1	Buffer	B14								
470, 471	Vol.		22	G12				8-8	1	2N518					7	6D6, 76, 6A7, 75, 41, 80	370	5-7, 8	
	Tone		22	G12				8	15	BB12					7	6D6, 6A7, 75, 41, 80	456	5-9	
480	Vol.		18	N				12	1	ST595									
	Tone		21	L				10	15	BB12									
U500	Vol.		17	N	6			Y3761RA	6/15	3N526					5	6A7, 78, 6B7, 43, 25Z5	456	4-12	
ZENITH																			
A, B, C, D (2004)	Vol.	63-141	1	Order from Mfr.	Mfr.			22-87	1	RS213					6	24, 45, 80		1-26	
	Tone	63-142	34	Order from Mfr.	Mfr.			22-81	1	BB60									
AH	Vol.	63-161	8	SRP262	6			22-118	4	RS213					8	27, 51, 24, 47, 80	175	1-23, 24	
	Tone	63-154	22	O				22-119	4	RS213									
BH (2021)	Vol.	63-181	7	G	6			22-132	26	CS133					7	51, 24, 27, 47, 80	175	2-11	
	Tone	63-200	22	K12				22-133	26	CS130									
								22-131	26	CS133									
CH	Vol.	63-161	8	SRP262	6			22-118	1	RS213					8	27, 51, 24, 47, 80	175	1-23, 24	
	Tone	63-154	21	O				22-119	1	RS213									
	Vol.	63-153	6	G12				22-87	1	RS213					5	24, 45, 80		1-27	
L (2009-C)	Vol.	63-209	8	A10MP	6			22-102	1	RS213									
	Tone	63-200	34	N				22-131	1	CS133									
	Vol.	63-164	6	G12				22-110	4	CS133					7	51, 24, 27, 47, 80	175	2-12	
LH, MH (2022)	Vol.	63-209	8	A10MP	6			22-119	1	RS213									
	Tone	63-200	34	N				22-118	1	RS213									
LP (2009CP)	Vol.	63-164	6	G12				22-118	1	RS213									
	Tone	63-161	8	SRP262	6			22-118	4	RS213					8	27, 51, 24, 47, 80	175	1-23, 24	
	Vol.	63-154	21	O				22-119	4	RS213									
S7000, S7001, S7002, S7003								22-876	24	2N514					2	12SA7GT, 35Z4GT			
S8500, S8501								22-876	24	2N511									
S8500Z								22-1061	24	2N501									
S9000								22-876	24	2N514									
WH (2022)	Vol.	63-209	8	A10MP	6			22-131	4	CS133					7	12SA7GT, 35Z4GT	175	2-12	
	Tone	63-200	34	N				22-110	4	CS133									
								8-8	4	CM172	B16								
4B106, 4B131, 4B132 (5406)	Vol.	63-534	18	N	6			22-419	1	2N516	190-6	246	C3	4	15, 75, 38	456	7-1, 2		
	Tone	63-469	34	MR14				22-225	15	BB12									
								.01-.01		Buffer	B14								
4B231 (Chassis 5409)	Vol.	63-547	18	N	6			22-582	1/15	3S579	190-6	246	C3	4	6D8G, 6S7G, 6T7G, 38	456	8-1, 6		
	Tone	63-955	18	UM147-SS18	M26			.01-.01	46	FPT374	190-6	246	C3	4	6AB6-6D8G, 6K7G-6S7G, 6Q7G-6T7G, 6G6G	455	9-1		
4B313, 4B355 (5410)	Vol.	63-955	18	UM147-SS18	M26			22-739	46	FPT374	190-6	246	C3	4	6AB6-6D8G, 6K7G-6S7G, 6Q7G-6T7G, 6G6G	455	9-3		
	Tone	63-955	18	UM147-SS18	M26			.01-.01	46	Buffer	B14								
4B314, 4B317 (5411)	Vol.	63-955	18	UM147-SS18	M26			22-739	46	FPT374	190-6	246	C3	4	6AB6-6D8G, 6K7G-6S7G, 6Q7G-6T7G, 6G6G	455	9-3		
	Tone	63-955	18	UM147-SS18	M26			.01-.01	46	Buffer	B14								
4B422, 4B437, 4B466, 4B468 (Chassis 5417)	Vol.	63-1079	18	UM154-SS25	M26			22-742	46	FPT374	190-17	Order from Mfr.		4	1A7G, 1N5G, 1H5G, 1Q5G	455	11-1		
	Tone	63-1079	18	UM154-SS25	M26			22-961	78	FPS037	B223								
								.04-.04		Buffer	B14								

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued 4B515 (Ch. 4A01)	Vol.	63-1079	18	UM154-SS25	M26			22-742 22-961 .04-.04	46 78	FPT371 FPS037 Buffer	B223 B14	190-17	Order from Mfr.		1A7G, 1N5G, 1H5G, 1Q5G	455	12-1	
4B536 (Ch. 4A03)	Vol.	63-1079	18	UM154-SS25	M26			22-742 22-961 .04-.04	46 78	FPT371 FPS037 Buffer	B223 B14	190-17	Order from Mfr.		1A7G, 1N5G, 1H5G, 1Q5G	455	12-1	
4F133 (Chassis 5407)	Vol.	63-548	17	O	7			22-522 .01-.01	1	2N516 Buffer	B14	190-8	W246	C3	1C7, 1D5, 1F7, 1F5	456	8-2	
4F227 (Chassis 5408)	Vol.	63-548	17	O	7										1C7G, 1D5G, 1F7G, 1F5G	456	8-3	
4K310 (5412)	Vol.	63-997	18	UM154-SS26	M27			22-684	12	BB21					1A7G, 1N5G, 1H5G, 1C5G	455	10-5	
4K329 (Ch. 5413)	Vol.	63-548	17	MR53	M27			22-684	12	BB21					1A7G, 1N5G, 1H5G, 1C5G	456	10-6	
4K331, 4K355 (Ch. 5412)	Vol.	63-997	18	UM154-SS26	M27			22-684	12	BB21					1A7G, 1N5G, 1H5G, 1C5G	456	10-5	
4K402 (Ch. 5419)	Vol.	63-1034	18	Order from Mfr.				22-684	12	BB21					1A7G, 1N5G, 1H5G, 1C5G	455	11-2	
4K422, 4K435, 4K465, 4K466 (Ch. 5420)	Vol.	63-1072	18	UM161-SS33	M27			22-684	12	BB21					1A7G, 1N5G, 1H5G, 1C5G	455	11-3	
4K515 (Ch. 4A02)	Vol.	63-1072	18	UM161-SS33	M27			22-684	12	BB21					1A7G, 1N5G, 1H5G, 1C5G	455	12-2	
4K535, 4K570 (Ch. 4A04)	Vol.	63-1072	18	UM161-SS33	M27			22-684	12	BB21					1A7G, 1N5G, 1H5G, 1C5G	455	12-2	
4K600 (Ch. 4B01)	Vol.	63-1176	18	1 Meg.		A3		22-1176	12	BB21					1R5, 1T4, 1S5, 1S4	455	12-30	
4P26, 4T26 (Chassis 5403)	Vol.	63-455	6	D7	6			22-407	1/13	RM265	B58				6A7, 6F7, 42, 80, or 6A8, 6P7, 6F6, 5Y3	456	6-17,18	
4P51, 4T51 (Chassis 5401)	Vol.	63-455	6	D7	6			22-407	1/13	RM265	B58				6A7, 6F7, 42, 80, or 6A8, 6P7, 6F6, 5Y3	456	6-17,18 6-19,20	
4V31, 4V59 (5405)	Vol. Tone	63-468 63-469	18 34	M MR44	6			22-419 22-225 .006	1 15	2N516 BB12 Buffer	B14	190-5	246	C3	1P5, 75, 38	456		
5A119, 5A126, 5A127, 5A151 (Ch. 5517A)	Vol. Tone	63-525 63-521	18 34	MR48 K12	M27			22-294 22-505	4 4	WE1650 RS215					6A8G, 6K7, 6Q7G, 6F6G, 5W4/5Y3	456	10-15	
5A318, 5A325 (Ch. 5532A)	Vol.	63-998	18	UM147	M26	A96		22-775 22-776	4 4	BB61 BB61					6J8G, 6U7G, 6Q7G, 6K6G, 6X5G	455	10-13	
5D610, 5D610W, 5D625 (Ch. 5B01)	Vol.	63-1112	18	MK401	M26			22-1186	24	FPT357					12SA7G, 12K7GT, 12SQ7GT, 50L6GT, 35Z5G	455	12-31	
5F134 (Chassis 5518)	Vol. Tone	63-541 63-521	17 34	O K12	7			22-522 .01-.01	1	2N516 Buffer	B14	190-8	W246	C3	1C7, 1D5, 1F7, 1H4, 1J6	456	8-4	
5F166 (Chassis 5518)	Vol. Tone	63-541 63-521	17 34	O K12	7			22-522 .01-.01	1	2N516 Buffer	B14	190-8	W246	C3	1C7, 1D5, 1F7, 1H4, 1J6	456	8-4	
5F233, 5F251 (Chassis 5522)	Vol.	63-541	15	O	7										1C7G, 1D5G, 1F7G, 1H4G, 1J6G	456	8-5,6	
5G401 (Ch. 5537)	Vol.	63-1026	18	MK402	M27			22-918 22-871	46 46/24	2N514 FPT354					1A7G, 1N5G, 1A5G, 1H5G, 117Z6G	455		
5G441, 5G442, 5G461 (Ch. 5539)	Vol.	63-1080	18	Order from Mfr.				22-879 22-880	46 46/24	FPT214 FPT354	B211				1A7G, 1N5G, 1H5G, 1Q5G, 117Z6G	455		
5G484 (Ch. 5538)	Vol.	63-1026	18	MK402	M27			22-918 22-871	46 46/24	2N514 FPT354					1A7G, 1N5G, 1H5G, 1A5G	455	11-6	
5G438, 5G467 (Ch. 5536)	Vol.	63-1081	18	Order from Mfr.				22-879 22-928	46 46/13	FPT214 2N514	B211				1A7G, 1N5G, 1H5G, 1Q5G, 117Z6G	455		
5G500, 5G501 (Ch. 5A01)	Vol.	63-1121	18	MK402	M27			22-1026 22-1027	76 76	FPT351 FPT208	B211 B211				1LA6, 1LN5, 1LH4, 1LB4, 117Z6G	455	12-3	
5G504 (Ch. 5A03)	Vol.	63-1126	18	1 Meg.		A3		22-1026 22-1027	76 76	FPT351 FPT208	B211 B211				1LA6, 1LN5, 1LH4, 1LB4, 117Z6G	455	12-4,9	
5G510, 5G534 (Ch. 5A10)	Vol.	63-1144	18	1 Meg.		A3		22-1026 22-1027	76 76	FPT351 FPT208	B211 B211				1LA6, 1LN5, 1LH4, 1LB4, 117Z6G	455	12-5	
5G537, 5G572 (Ch. 5A02)	Vol.	63-1124	18	Order from Mfr.				22-1017 22-1027	76 76	FPT361 FPT208	B211 B211				1A7G, 1N5G, 1H5G, 3Q5G, 117Z6G	455	12-6	

‡ Data not substantiated.

* IMPORTANT: Read Notes in Note Section if specified in Note Column.

§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS								CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note					
ZENITH—Continued 5J217, 5J247, 5J255 (Chassis 5524)	Vol.	63-689	18	N	7		22-577 .02-.02	1/15	3S579 Buffer	B14	190-11	294	C3	5	6D8G, 6S7G, 6T7G, 38, 6ZY5G	456	8-6,8		
5J217T (5524T)	Vol.	63-689	18	N	7		22-653 .02-.02	1/13/15	3S582/BB12 Buffer	B14	190-11	294	C3	5	6D8G, 6S7G, 6T7G, 38, 6ZY5G	456	9-5		
5L228, 5L237 (Ch. 5525A)	Vol.	63-511	18	UM154	M26	A96	22-596	25	2S563					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	456	10-15		
5M90 (Chassis 5510)	Vol.	63-434	18	N	6	EC256	22-388 .01	4	CM172 Buffer	B14	190-4	294SW	C3	5	6A7, 6D6, 75, 4I, 6Z4	456	7-3,4		
5M191 (Chassis 5520)	Vol.	63-551	17	MR53	M27	A31	22-528 .008	23	2S567 Buffer	B14	190-9	294	C3	5	6A8G, 6K7G, 6Q7G, 6F6G, 6X5 or 0Z4	465	8-9,12		
5M291 (Ch. 5527)	Vol.	63-939	18	TM230-SS34	M27		22-659 .006	1/15	3S579 Buffer	B14	190-13	853	C3	5	6A8G, 6K7G, 6Q7G, 6F6G, 6X5G	455	10-9,10		
5M294 (Ch. 5530)	Vol.	63-952	18	TM230-SS34	M26		22-659 .006	1/15	3S579 Buffer	B14	190-13	853	C3	5	6A8G, 6K7G, 6Q7G, 6F6G, 6X5G	456	10-11		
5R123, 5R135, 5R165 (Chassis 5519)	Vol.	63-547	18	N	6		22-505 22-506	4 4	RS215 RS216					5	6A8, 6K7, 6Q7, 6F6, 5W4, or glass equivalents	456	8-13		
5R216, 5R226, 5R236 (Chassis 5526)	Vol.	63-565	18	N	6		22-596 8 14	4 4 4	2S563 RS213 RS216	B10 B10				5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	456	8-14		
5R303, 5R312, 5R316, 5R317, 5R337 (5528)	Vol.	63-955	18	UM147-SS18	M26		22-691 22-692	4 4	BB61 BB61					5	6A8G, 6K7G, 6Q7G, 6K6G, 6X5G	455	9-7,8		
5S29, 5S56 (Chassis 5513, 5513A)	Vol. Tone	63-366 63-475	18 34	M K12	6		22-125	23	RS213					5	6A8, 6K7, 6B6, 6F6, 5Z4, or glass equivalents	252.5	7-5,6		
5S119, 5S126, 5S127, 5S150, 5S151, 5S161 (5516)	Vol. Tone	63-520 63-521	18 34	N K12	6		22-505 22-506	4 4	RS215 RS216					5	6A8, 6K7, 6Q7, 6F6, 5W4, or glass equivalents	456	7-2,7		
5S201, 5S218, 5S220, 5S228, 5S237, 5S250, 5S252 (Chassis 5521)	Vol.	63-565	18	N	6		22-596 8 16	25 25 25	2S563 RS213 RS216	B10 B10				5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	456	8-22		
5S218AT, 5S228AT, 5S237AT (5521AT)	Vol.	63-929	124	MR48	M26		22-686 22-634	25 25/13	ST605 2N519					5	6A8G, 6K7G, 6Q7G, 6F6G, 5Y4G	456	9-9,10		
5S313B (Ch. 5535BT)	Vol.	63-1027	18			See Note A5	22-775 22-776	4 4	BB61 BB61					5	6J8G, 6U7G, 6Q7G, 6K6G, 6X5G	455	10-13		
5S319, 5S327, 5S330, 5S338, 5S339 (5529)	Vol.	63-956	18	MK400	M26		22-700 22-701	4 4	BB61 BB61					5	6A8G, 6K7G, 6Q7G, 6K6G, 6X5G	455	9-11		
5X230, 5X248, 5X274 (Ch. 5523)	Vol. Tone	63-520 63-521	18 34	N K12	6		22-647 22-648 .1-1	1/13 1/15	2N518 3S579 Buffer	B8 B14	190-10	Order from Mfr.		5	6A8G, 6K7G, 6Q7G, 6V6G, 6X5G	456	10-15		
6A203, 6A223, 6A229, 6A239 6A241 (Ch. 5640AT)	Vol. Tone	63-525 63-934	18 34	MR48 K12	M27		22-633 22-637	25 25/13	ST605 2S563/BB60					6	6L7G, 6J5G, 6K7G, 6Q7G, 6V6G, 5Y4G	456	10-19		
6B107, 6B129, 6B164 (5635)	Vol.	63-522	124	TRP613	6		22-459 .01-.01	1	2N516 Buffer	B14	190-6	246	C3	6	15, 6A7, 75, 76, 19	456	7-8,9		
6B321 (5653)	Vol. Tone	63-983 63-982	18 34	MK400 UM133-SS25	M26		22-742 22-741 .01-.01	46 13	FPT374 BB31 Buffer		190-6	246	C3	6	6D8G, 6S7G, 6T7G, 6G6G	455	9-17,18		
6D116, 6D117, 6D118 (5633)	Vol.	63-517	18	N	6		22-517 22-518 22-481	11 11 11	2N504 BB31 UR193	B10				5	6A8, 6K7, 6Q7, 25A6, 25Z6, or glass equivalents	456	7-10,11		
6D202, 6D209, 6D221, 6D238 (Chassis 5639)	Vol.	63-687	18	N	6		22-560	1/15	3N534					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G	456	8-15,16		
6D302, 6D311, 6D326, 6D336, 6D360 (5646)	Vol.	63-953	18	UM147-SS11	M26		22-681 22-680	25 25	BB27 BB24					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G	455	9-4		

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
6D312, 6D316, 6D317, 6D337 (5647).....	Vol.	63-955.....	18	UM147-SS18	M26			22-681.....	25	BB27.....					5	6A8G, 6K7G, 6Q7G, 25L6G, 25Z6G.....	455 9-13	
6D315 (Ch. 5657) ..	Vol.	63-1004.....	18	Order from	Mfr...			22-680.....	25	BB24.....					5	6A8G, 6U7G, 6Q7G, 25L6G, 25Z6G.....	455 10-17	
6D410, 6D411 (Ch. 5659).....	Vol.	63-1028.....	18	Order from	Mfr...			22-835.....	1/15	3N534.....					5	12A8G, 12K7G, 12Q7G, 35L6G, 35Z5G.....	455 11-7	
6D413, 6D414 (Ch. 5660, 5664) ..	Vol.	63-1028.....	18	Order from	Mfr...			22-835.....	1/15	3N534.....					5	12A8G, 12K7G, 12Q7G, 35L6G, 35Z5G.....	455 11-8	
6D425 (Ch. 5659, 5663) ..	Vol.	63-1028.....	18	Order from	Mfr...			22-835.....	1/15	3N534.....					5	12A8G, 12K7G, 12Q7G, 35L6G, 35Z5G.....	455 11-7	
6D426, 6D427, 6D446, 6D455 (Ch. 5660, 5664) ..	Vol.	63-1028.....	18	Order from	Mfr...			22-835.....	1/15	3N534.....					5	12A8G, 12K7G, 12Q7G, 35L6G, 35Z5G.....	455 11-8	
6D510 (Ch. 6A01) ..	Vol.	63-1130.....	18	MK401.....	M26			22-1073.....	1/15	FPT306.....					6	12J7G, 12SA7G, 12K7GT, 12SQ7GT, 35L6G, 35Z5G.....	455 11-8	
6D512, 6D512W (Ch. 6A16).....	Vol.	63-1130.....	18	MK401.....	M26			22-1073.....	1/15	FPT306.....					6	14H7, 12SA7G, 12K7GT, 35L6GT, 12SQ7GT, 35Z5G.....	455 12-8	
6D516 (Ch. 6A24) ..	Vol.	63-1130.....	18	MK401.....	M26			22-1014.....	1	FPT208.....	B211				6	12J7G, 12SA7G, 12K7GT, 12SQ7GT, 35L6G, 35Z5G.....	455 12-32	
6D520, 6D520W (Ch. 6A26).....	Vol.	63-1149.....	18	TM230-SS22	M26			22-1014.....	1	FPT208.....	B211				6	12J7G, 12SA7G, 12K7GT, 12SQ7GT, 35L6G, 35Z5G.....	455 12-34	
6D525, 6D526 (Ch. 6A10).....	Vol.	63-1112.....	18	MK401.....	M26			22-1014.....	1	FPT208.....	B211				6	12J7G, 12SA7G, 12K7GT, 12SQ7GT, 35L6G, 35Z5G.....	455 12-7	
6D538 (Ch. 6A26) ..	Vol.	63-1149.....	18	TM230-SS22	M26			22-1014.....	1	FPT208.....	B211				6	12J7G, 12SA7G, 12K7GT, 12SQ7GT, 35L6G, 35Z5G.....	455 12-34	
6D539 (Ch. 6A16) ..	Vol.	63-1130.....	18	MK401.....	M26			22-1073.....	1/15	FPT306.....					6	14H7, 12SA7G, 12K7GT, 12SQ7GT, 35L6GT, 35Z5G.....	455 12-8	
6DL120, 6DL122 (Ch. 5636 AC-DC)	Vol.	63-538.....	18	N.....	7			22-517.....	27	2N504					5	6A8G, 6K7G, 6Q7G, 25A6G, 25Z6G, or 6A8, 6K7, 6Q7, 25A6, 25Z6.....	456 10-19	
6G501, 6G505 (Ch. 6A19).....	Vol.	63-1121.....	18	MK402.....	M27			22-1026.....	4	FPT354.....	B211				6	11L5, 11A6, 11H4, 3Q5G, 11Z6G.....	455 12-10	
6G533 (Ch. 6A25) ..	Vol.	63-1178.....	18	1 Meg.....		A19		22-1159.....	4	FPT308.....	B211				6	11L5, 11A6, 11H4, 3Q5G, 11Z6G.....	455 12-33	
6G560 (Ch. 6A25) ..	Vol.	63-1178.....	18	1 Meg.....		A19		22-1026.....	46	FPT354.....	B211				6	11L5, 11A6, 11H4, 3Q5G, 11Z6G.....	455 12-33	
6J230, 6J257 (Chassis 5642) ..	Vol. Tone	63-798.....	17	O.....	7			22-577.....	1/15	3S570.....		190-11	294	C3	6	6D8G, 6S7G, 6T7G, 6L5G, 1J6G, 6ZY5G	456 8-17,18	
6J322, 6J357 (5654)	Vol.	63-521.....	44	K12.....				02-02.....		Buffer.....	B14				6	6D8G, 6S7G, 6T7G, 6G6G, 6ZY5G.....	455 9-19	
6J436, 6J463 (Ch. 5679).....	Vol.	63-990.....	124	DTM295-SS26	M27			22-771.....	46	FPT362.....		190-11	850	C3	6	6D8G, 6S7G, 6T7G, 6G6G, 6ZY5G.....	455 11-9	
6M90S, 6M90D (Chassis 5630) ..	Vol. Tone	63-485.....	18	N.....	6	EC256		22-974.....	13/15	FPT217.....	B223				6	6K7G, 6A8G, 6Q7G, 6F6G, 6X5G.....	252.5 7-12,13	
6M91S, 6M91D (Chassis 5631) ..	Vol. Tone	63-487.....	22	Order from	Mfr...			008.....	4	Buffer.....	B14				6	6K7G, 6A8G, 6Q7G, 6F6G, 6X5G.....	252.5 7-13,14	
6M92 (Chassis 5632)	Vol.	63-514.....	18	UM147-SS17	M26			22-471.....	4	CM172.....	B14	190-7	294	C3	6	6K7G, 6A8G, 6Q7G, 6F6G, 6X5G.....	252.5 7-13,15	
6M192.....	Vol.	63-551.....	17	MR53.....	M27		A31	22-526.....	23	2S567.....	B14	190-9	294	C3	6	6K7G, 6A8G, 6Q7G, 6F6G, 6X5 or 0Z4.....	262.5 8-19,21	
6M193, 6M194 (5637).....	Vol./Tone	63-549.....	145	SMD500.....				22-526.....	4	2S567.....	B14	190-9	294	C3	5	6K7G, 6A8G, 6Q7G, 6F6G, 6X5 or 0Z4.....	252.5 8-20,21	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS								CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note					
ZENITH—Continued																			
6M292, 6M293 (Ch. 5645)	Vol.	63-950	18	TM239-SS17				22-656 .006	1/15	3S679 Buffer	B14	190-13	853	C3	6	6K7G, 6A8G, 6Q7G, 6V6G, 6X5G	252.5	10-21	
6M295 (Ch. 5650)	Vol.	63-980	18	DTM295-SS26				22-656 .006	1/15	3S579 Buffer	B14	190-13	853	C3	6	6K7G, 6A8G, 6Q7G, 6V6G, 6X5G	252.5	10-23	
6M390	Vol.	63-995	18	Order from	Mfr.			22-721	24/15	FPT332	B197	190-14	853	C3	6	7B, 6A7, 75, 42, 84	155	10-25,26	
6MF490	Vol. Sen. Vol.	63-994 63-1073	8 17	Order from	Mfr.	See Note A5		22-955 .012-.012	24/15	FPT332 Buffer	B14	190-15	850	C3	6	7A7, 7B8, 7B6, 7C5, 7Y1	455	11-13-14	
6MF590, 6MF591 (Ch. 6A21)	Vol.	63-1133	18	250M			A19	22-955 .006	24/15	FPT332 Buffer	B14	190-15	850	C3	6	7A7, 7B8, 7B6, 7C5, 0Z4/6Z5GT	455	12-41,42	
6MN495	Vol.	63-1040	18	TM240-SS3	M26			22-904 .006	24/19	FPT332 Buffer	B14	190-15	850	C3	6	6K7GT, 6SA7GT, 6Q7GT, 6K6GT, 6X5GT	455	11-15	
6MN496 (Ch. 5676)	Vol.	63-1040	20	TM240-SS3	M26			22-917 .007	24/15	FPT339 Buffer	B14	190-16	246	C3	6	6K7GT, 6SA7GT, 6Q7GT, 6V6GT	455	11-16	
6MN595 (6A17)	Vol.	63-1128	18	250M			A19	22-904 .006	24/15	FPT332 Buffer	B14	190-15	850	C3	6	7A7, 7B8, 7B6, 7B5, 0Z4/6X5GT	455	12-45,46	
6R481 (Ch. 5675)	Vol.	63-1028	18	Order from	Mfr.			22-894 22-893	1/15	FPT319 ST589	B117				5	12A8G, 12K7G, 12Q7G, 35L6G, 50Z7G	455	11-11	
6R485 (Ch. 5672P)	Vol.	63-1028	18	Order from	Mfr.			22-894 22-893	1/15	FPT319 ST589	B117				5	12A8G, 12K7G, 12Q7G, 35L6G, 50Z7G	455	11-12	
6R583 (Ch. 6A08)	Vol.	63-1112	18	MK401	M26			22-1014	1	FPD208					6	12J7G, 12SA7G, 12K7GT, 12SQ7GT, 35L6G, 35Z5G	455		
6S27, 6S52 (Chassis 5619)	Vol. Tone	63-456 63-458	18 34	MR44 Y	M26			22-414 22-420	25 15	2S567 BB12					6	6A8, 6K7, 6F6, 6116, 5Y3	252.5	7-16,20	
6S128, 6S137, 6S147, 6S152, 6S157 (5634)	Vol.	63-522	124	TRP613	6			22-294 22-491	1 1/13	WE1650 2N518					6	6A8, 6K7, 6F6, 6116, 6F5, 5W4, or glass equivalents	456	7-17	
6S203, 6S222, 6S223, 6S229, 6S239, 6S241 (Chassis 5638)	Vol. Tone	63-520 63-521	18 34	N K12	6			22-596 8 14	25 25 25	2S563 RS213 RS216	B10 B10				6	6A8G, 6K7G, 6116G, 6F5G, 6F6G, 5Y4G	456	8-23,24	
6S254, 6S256 (Chassis 5644)	Vol.	63-799	124	TRP613	6			22-551 22-552	25 25	WE1650 WE2050					6	6A8G, 6K7G, 6116G, 6F5G, 6F6G, 5Y4G	456	8-33	
6S254AT, 6S256AT (5644AT)	Vol.	63-936	45	TRP613	6			22-633 22-634	25 25/13	ST605 2N519					6	6A8G, 6K7G, 6116G, 6F5G, 6F6G, 5Y4G	456	9-21	
6S301, 6S302, 6S303, 6S304, 6S305, 6S306, 6S321, 6S322, 6S340 (5651)	Vol. Tone Vol.	63-983 63-982 63-799	45 34 20	MK400 UM133-SS25 TRP613	M26 6			22-718 22-719 22-551 22-552	25 25 25 25	BB63 BB64 WE1650 WE2050					6	6A8G, 6K7G, 6J5G, 6F5G, 6F6G, 6X5G	455	9-15	
6S341, 6S362 (5649)	Vol.	63-983	45	MK400	M26			22-718	25	BB63					6	6A8G, 6K7G, 6J5G, 6F5G, 6F6G, 6X5G	455	9-15	
6S439, 6S469 (Ch. 5678)	Vol.	63-1030	124	TM251-SS25	M26			22-975 22-976	25 25/13	ST598 FPD234					6	6K7G, 6A8G, 6Q7G, 6F6G, 6X5G	455	11-17	
6S511, 6S527, 6S528 (Ch. 6A02)	Vol.	63-1118	18	MK401	M26			22-1029	4	2S563	B267				6	7H7, 7B8, 7A7, 7B6, 6K6G, 6X5G	455	12-13	
6S532 (Ch. 6A05R)	Vol.	63-1123	124	SM317			A109	22-1036 22-1034	4 4/13	BB64 FPD234					6	7H7, 7B8, 7A7, 7B6, 6F6G, 6X5G	455	12-35,36	
6S546, 6S556 (Ch. 6A05)	Vol.	63-1123	124	SM317			A109	22-1036 22-1034	4 4/13	BB64 FPD234					6	7H7, 7B8, 7A7, 7B6, 6F6G, 6X5G	455	12-11,12 12-9,13	
6S580 (Ch. 6A04)	Vol.	63-1118	18	MK401	M26			22-1029	4	2S563	B267				6	7A7, 7B8, 7H7, 7B6, 6K6G, 6X5G	455	27,28	
6S596, 6S597 (Ch. 6A20)	Vol.	63-1123	124	SM317			A109	22-1036 22-1034	25 25/13	BB64 FPD234					6	7H7, 7B8, 7A7, 7B6, 6F6G, 6X5G	455	12-14,26	
6V27, 6V62 (Chassis 5621)	Vol. Tone	63-456 63-458	18 34	MR44 Y	M26			22-432 .01	1	2N516 Buffer	B14	190-5	246	C3	6	75, 6A7, 75, 76, 19	456	6-21,22	
6VA27, 6VA62 (Ch. 5629)	Vol. Tone	63-456 63-458	18 22	MR44 Y	M26			22-459 .01-.01	1	2N516 Buffer	B14	190-6	246	C3	6	75, 6A7, 75, 76, 19	150	10-27	
7	Vol.	7101-9	17	UC512	6			7119-4 .015	4	SR605 Buffer	B14	P7142-1	296	C3	5	61D6, 75, 42, 75, 84	175	5-3	

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued 7D119, 7D126, 7D127, 7D138, 7D148, 7D151, 7D162, 7D168 (5707).....	Vol. Tone	63-520 63-521	45 34	N K 12	6			22-514 22-515	1/11 11/13	3S582 2N516	B218 B218				6	6A8, 6K7, 6H6, 6F5, 25A6, 25Z6, or glass equivalents.....	456	7-11,18
7DA119, 7DA126, 7DA127, 7DA138, 7DA148, 7DA162, 7DA168(Ch.5708E)	Vol. Tone	63-525 63-521	18 34	MR48 K 12	M27			22-514 22-515	11 11/13	3S582 2N516	B8				6	6A8, 6K7, 6H6, 6F5, 25A6, 25Z6, or glass equivalents...	456	10-27
7D203, 7D222, 7D223, 7D229, 7D239, 7D241, 7D243, 7D253 (Chassis 5710)...	Vol. Tone	63-520 63-521	75 34	N K 12	6			22-559	6/13/15	TN129/BB12					6	6A8G, 6K7G, 6H6G, 6F5G, 25L6G, 25Z6G.....	456	8-25,26
7J232, 7J259 (Chassis 5711)...	Vol.	63-568	124	TM254-SS1				22-577 .02-.02	1/15	3S579 Buffer	B14	190-11	294	C3	7	6S7G, 6D8G, 6T7G, 6L5G, 1J6G, 6ZY5G	456	8-27,28
7J232T, 7J259T (5711T).....	Vol.	63-931	124	TM249-SS1				22-653 .02-.02	1/13/15	3S582/BB12 Buffer	B14	190-11	294	C3	7	6S7G, 6D8G, 6T7G, 6L5G, 1J6G, 6ZY5G	456	9-25
7J323, 7J368 (5715)...	Vol.	63-990	124	DTM295-SS26	M27			22-742 22-711 .02-.02	46 13	FPT374 BB31 Buffer	B14				7	6S7G, 6D8G, 6T7G, 6G6G, 6ZY5G.....	455	9-27
7M91S, 7M91D (Chassis 5706)...	Vol. Tone	63-507 63-487	18 22	TRP606 Order from	6 Mfr.	RS246		22-169 .008	1/15	SR611 Buffer	B219 B14	190-7	294	C3	7	6K7G, 6A8G, 6Q7G, 6X5G, 6C5G, 6N7G	252.5	7-19,20
7ML592 (7A09)....	Vol. & Tone	63-1134	140	Order from	Mfr.			22-917 .008	24/15	FPT339 Buffer	B14	190-15	850	C3	7	7A7, 7B8, 7B6, 7C5, 6X5GT/OZ4	455	12-49,50
7MN596 (7A08)....	Vol. & Tone	63-1129	140	Order from	Mfr.			22-917 .007	24/15	FPT339 Buffer	B14	190-15	850	C3	7	7A7, 7B8, 7B6, 7C5, 6X5GT/OZ4	455	12-47,48
7S28, 7S53 (Chassis 5704).....	Vol. Tone	63-457 63-458	45 34	N Y	6			22-416 22-420	25/13 15	3S584 BB12					7	6K7, 6A8, 6H6, 6F6, 5Y3.....	456	7-20,21
7S204, 7S232, 7S240, 7S242, 7S258, 7S260, 7S261 (Chassis 5709)....	Vol.	63-611	124	TM249-SS1	M26			22-569 22-562	25 13/25	ST596 2N519					7	6A8G, 6K7G, 6H6G, 6T5, 6F5G, 6F6G, 5Y4G	456	8-29,30
7S232AT, 7S240AT, 7S242AT, 7S258AT, 7S260AT (5709AT).....	Vol.	63-935	45	TRP613	6			22-633 22-634	25 25/13	ST605 2N519					7	6A8G, 6K7G, 6H6G, 6T5, 6F5G, 6F6G, 5Y4G	456	9-29
7S323, 7S342, 7S343, 7S363, 7S364, 7S366 (5715).....	Vol.	63-985	124	DTM295-SS26	M26			22-718 22-719	25 25	BB63 BB64					7	6A8G, 6K7G, 6J5G, 6U5, 6F5G, 6F6G, 6X5G	455	9-31
7S432, 7S433, 7S434 (Ch. 5719).....	Vol.	63-1030	18	TM251-SS25	M26			22-852 22-851	10 10/13	FPS129 FPT371	B211				7	6A8G, 6K7G, 6Q7G, 6AF5G, 25AC5G, 25Z6G.....	455	11-18
7S432, 7S433, 7S434 (Ch. 5724).....	Vol.	63-1030	124	TM251-SS25	M26			22-941 22-719	25/13 25	FPT234 BB44					7	6K7G, 6A8G, 6J5G, 6F5G, 6F6G, 6X5G	455	.....
7S449, 7S450 (Ch. 5719).....	Vol.	63-1030	18	TM251-SS25	M26			22-852 22-851	10 10/13	FPS129 FPT371	B211				7	6A8G, 6K7G, 6Q7G, 6AF5G, 25AC5G, 25Z6G.....	455	11-18
7S449, 7S450 (Ch. 5724).....	Vol.	63-1030	124	TM251-SS25	M26			22-941 22-719	25/13 25	FPT234 BB44					7	6K7G, 6A8G, 6J5G, 6F5G, 6F6G, 6X5G	455	.....
7S458, 7S459, 7S460, 7S461, 7S462 (Ch. 5719).....	Vol.	63-1030	18	TM251-SS25	M26			22-852 22-851	10 10/13	FPS129 FPT371					7	6A8G, 6K7G, 6Q7G, 6AF5G, 25AC5G, 25Z6G.....	455	11-18
7S458, 7S459, 7S460, 7S461, 7S462 (Ch. 5724).....	Vol.	63-1030	124	TM251-SS25	M26			22-941 22-719	25/13 25	FPT234 BB44					7	6K7G, 6A8G, 6J5G, 6F5G, 6F6G, 6X5G	455

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued 7S487, 7S488 (Ch. 5721)	Vol.	63-1035	18/†	SMD509				22-852 22-851	10 10/13	FPS129 FPT371				7	6A8G, 6K7G, 6Q7G, 6AF5G, 25AC5G, ‡25Z6G	455	11-20	
7S490 (Ch. 5721)	Vol.	63-1035	18/†	SMD509				22-852 22-851	10 10/13	FPS129 FPT371				7	6A8G, 6K7G, 6Q7G, 6AF5G, 25AC5G, ‡25Z6G	455	11-20	
7S487, 7S488 (Ch. 5725)	Vol.	63-1035	124/†	SMD509				22-941 22-719	25/13 25	FPD234 BB44				7	‡6K7G, 6A8G, 6J5G, 6F5G, 6F6G, 6X5G	455	11-21	
7S490 (Ch. 5725)	Vol.	63-1035	124/†	SMD509				22-941 22-719	25/13 25	FPD234 BB44				7	‡6K7G, 6A8G, 6J5G, 6F6G, 6F5G, 6X5G	455	11-21	
7S529, 7S530, 7S547, 7S557, 7S558, 7S559 (Ch. 7A02)	Vol.	63-1122	124	SM317				22-1036 22-1034	25 25/13	BB64 FPD234				7	1232, 7B8, 7A7, 7A4, 7B4, 6F6G, 6X5G	455	12-15,16	
7S581, 7S582 (Ch. 7A04)	Vol.	63-1122	124	SM317				22-1036 22-1034	25 25/13	BB64 FPD234				7	1232, 7B8, 7A7, 7A4, 7B4, 6F6G, 6X5G	455	.....
7S585 (Ch. 7A01)	Vol.	63-1115	124/†	Order from Mfr.				22-941 22-719	25/13 25	FPD234 BB64				7	‡6K7G, 6A8G, 6J5G, 6F5G, 6F6G, 6X5G	455	12-17	
7S598 (Ch. 7A11)	Vol.	63-1122	124	SM317				22-1187	1/15	FPD234/BB19				7	7G7/1232, 7B8, 7A7, 7B6, 6AD7G, 6F6G, 5Y4G	455	12-37,38	
8A129, 8A147, 8A154, 8A157 (Ch. 5802A)	Vol.	63-526	125	TM249-SS1	M27			22-294 22-491	25 25/13	WE1650 2N518				7	‡6K7, 6A8, 6H6, 6F5, 6F6, 5W4, or glass equivalents	456	10-29	
8A232, 8A242, 8A244, 8A262 (Ch. 5804AT)	Vol. Sen.	63-931 63-812	124 7	TM249-SS1			See Note A5	22-633 22-636	25 25/13	ST605 3S584/BB64				8	‡6K7G, 6T5, 6L7G, 6J5G, 6Q7G, 6V6G, 5Y4G	456	10-29	
8M195 (Chassis 5803)	Vol./ Tone Sen.	63-549 63-560	145 †	SMD500 X				22-527 .008	1/15	Order from Buffer	Mfr. B14	190-9	294	C3	8	‡6K7, 6A8G, 6H6G, ‡6C5G, 6N7G, 6X5G	252.5	8-31,32
8S129, 8S154 (Chassis 5801)	Vol.	63-522	124	TRP613	6			22-294 22-491	25 25/13	WE1650 2N518				8	‡6K7, 6A8, 6H6, 6C5, 6F5, 6F6, 5W4, or glass equivalents	456	8-31,36	
8S359 (Ch. 5807)	Vol.	63-985	124	DTM295-SS26	M26			22-718 22-719	1 1	BB63 BB44				8	6A8G, 6K7G, 6U5, 6J5G, 6F5G, 6P5G, 6AC5G, 6X5G	455	10-31	
8S432, 8S433, 8S434 (Ch. 5810)	Vol.	63-1030	124	TM251-SS25	M26			22-851 22-852	10/13 10	FPT371 FPS129				8	1232, 6A8G, 6K7G, 6Q7G, 6AF5G, 25AC5G, ‡25Z6G	455	11-22	
8S443 (Ch. 5808)	Vol.	63-1075	124	DTM296-SS26	M26			22-933 22-719	25/13 25	2N519 BB44				8	1232, 6A8G, 6K7G, 6J5G, 6F5G, 6F6G, 6U5, 6X5G	455	11-23	
8S449, 8S450 (Ch. 5801)	Vol.	63-1030	124	TM251-SS25	M26			22-851 22-852	10/13 10	FPT371 FPS129				8	1232, 6A8G, 6Q7G, 6K7G, 6AF5G, 25AC5G, ‡25Z6G	455	11-22	
8S451 (Ch. 5808)	Vol.	63-1075	124	DTM296-SS26	M26			22-933 22-719	25/13 25	2N519 BB44				8	1232, 6A8G, 6K7G, 6J5G, 6F5G, 6F6G, 6U5, 6X5G	455	11-23	
8S458 to 8S462 inc. (Ch. 5810)	Vol.	63-1030	124	TM251-SS25	M26			22-851 22-852	10/13 10	FPT371 FPS129				8	1232, 6A8G, 6K7G, 6Q7G, 6AF5G, 25AC5G, ‡25Z6G	455	11-22	
8S463 (Ch. 5808)	Vol.	63-1075	124	DTM296-SS26	M26			22-933 22-719	25/13 25	2N519 BB44				8	1232, 6A8G, 6K7G, 6J5G, 6F5G, 6F6G, 6U5, 6X5G	455	11-23	
8S531, 8S548, 8S563 (Ch. 8A02)	Vol.	63-1075	124	DTM296-SS26	M26			22-1035	1/13	FPT390				8	1232, 6A8G, 6K7G, 6J5G, 6F5G, 6P5G, 6AC5G, 6X5G	455	12-18	
8S586 (Ch. 8A01)	Vol.	63-1117	124/†	Order from Mfr.				22-933 22-719	25/13 25	2N519 BB44				8	1232, 6A8G, 6K7G, 6J5G, 6F5G, 6F6G, 6X5G, 6U5	455	12-19,20	
8S587, 8S588 (Ch. 8A03)	Vol.	63-1075	124	DTM296-SS26	M26			22-1035	1/13	FPT390				8	1232, 6A8G, 6K7G, 6J5G, 6F5G, 6P5G, 6AC5G, 6X5G	455	12-18	
8S593, 8S594 (Ch. 8A04)	Vol. Mike	63-1123 63-1146	124 †	SM317			A109 A5	22-1036 22-1099 22-1069	25 12/25/13 15	BB64 FPT381 BB15				8	7H7, 7B8, 7A7, 7B6, 6V6G, 6U5, 7C7, 5Y4G	455	12-21,26	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued 9S30, 9S54, 9S55 (5903)	Vol. Tone	63-450 63-451	45 45	TM238-SS1 O	M26			22-412 22-420	46 15	2S563/BB60 BB12				8	*6K7, 6A8, 6H6, 6C5, *6F6, 5Y3	456	6-27,28	
9S203, 9S232, 9S242, 9S244, 9S262, 9S263, 9S264 (Chassis 5905)	Vol.	63-568	124	TM254-SS1				22-569 22-571	1 1/13/15	ST596 3S584				9	*6K7G, 6L7G, 6J5G, 6H6G, 6T5, 6F5G, 6F6G, 5Y4G	456	8-35	
9S204AT, 9S232AT, 9S244AT, 9S262AT, 9S264AT (5905AT)	Vol.	63-931	20	TM249-SS1				22-633 22-637	25 25/13/ 14	ST605 2N519/BB60				9	*6K7G, 6L7G, 6H6G, 6F5G, 6F6G, 5Y4G, 6J5G, 6T5	456	9-33	
9S307, 9S324, 9S344, 9S367, 9S369 (5907)	Vol.	63-978	45	DTM295-SS26				22-711 22-710	25/13 25/14	FPD231 FPD232				8	*6K7G, 6L7G, 6J5G, 6U5, 6F5G, 6F6G, 5Y4G	455	9-35	
9S365 (5906)	Vol.	63-568	124	TM254-SS1				22-569 22-571	25 25/13/ 14	ST596 3S584 RS213				9	*6K7G, 6L7G, 6H6G, 6U5, 6J5G, 6F5G, 6F6G, 5Y4G	455	9-37	
10, 11, 12	Vol. Tone	63-128 63-126	12 41	SRP289 N				22-72	14	3S584 RS213				8	*24, 27, *45, 80		2-9,10	
10H551 (Ch. 10A3)	Vol.	63-1074	124	DTM296-SS26	M26			22-1124 22-1125 22-1123	1 1/13 13	FPS145 FPT381 BB41				10	*6AC7/1852, 7J7, 7G7/ 1232, *7C7, 7A6, 7B6, 6V6G, 5Y4G	455	12-12,22	
10H571R (Ch. 10A3R)	Vol.	63-1074	124	DTM296-SS26	M26			22-1178 22-1124 22-1124	25/13 25 25	FPT374 FPS145 FPS145				10	*7V7, 7J7, *7C7, 7A6, 7B6, 5Y4G, 6V6G	455 8600	12-35, 38,39,40	
10H571 (Ch. 10A3)	Vol.	63-1074	124	DTM296-SS26	M26			22-1124 22-1125 22-1123	1 1/13 13	FPS145 FPT381 BB41				10	*6AC7/1852, 7J7, 7G7/ 1232, *7C7, 7A6, 7B6, 6V6G, 5Y4G	455	12-12,22	
10H573 (Ch. 10A3R)	Vol.	63-1074	124	DTM296-SS26	M26			22-1178 22-1124	25/13 25	FPT374 FPS145				10	*7V7, 7J7, *7C7, 7A6, 7B6, 5Y4G, 6V6G	455 8600	12-35, 38-40	
10S130, 10S153, 10S155, 10S156, 10S157, 10S160, (1004)	Vol.	63-522	124	TRP613	6			22-504 22-506 22-493 22-405 22-507	3 14 3 19 15	RS213 RS216 2N518 BB13 BB12				10	*6K7, 6A8, 6H6, *6C5, *6L6, 5W4, or glass equivalents	456	8-36,38	
10S147 (1004)	Vol.	63-522	124	TRP613	6			22-512 22-510 22-405 22-507	3 3/14 19 15	RS213 3S584 BB13 BB12				10	*6K7, 6A8, *6C5, *6L6, 6H6, 5W4, or glass equivalents	456	8-37,38	
10S443, 10S452, 10S464, 10S470, 10S491, 10S492 (Ch. 1005)	Vol.	63-1074	124	DTM296-SS26	M26			22-934	1	FPD234	B128			10	1232, 6A8G, 6K7G, 6Q7G, 6J5G, *6V6G, 6C5, *6X5G	455		
10S531, 10S549, 10S566 (Ch. 10A1)	Vol.	63-1074	124	DTM296-SS26	M26			22-934	1	FPD234	B128			10	1232, 6A8G, 6K7G, *6J5G, 6F5G, *6V6G, *6X5G	455	12-23	
10S589, 10S590 (Ch. 10A2)	Vol.	63-1074	124	DTM296-SS26	M26			22-934	1	FPD234	B128			10	1232, 6A8G, 6K7G, *6J5G, 6F5G, *6V6G, *6X5G	455		
11S474 (Ch. 1103)	Vol.	63-1074	124	DTM296-SS26	M26			22-934	1	FPD234	B128			11	1232, 6A8G, 6K7G, *6J5G, 6F5G, *6V6G, 6U5, *6X5G	455		
11, 12	Vol.		11	L										6	*01A, 71A, 00A, 12A		1-2	
12 (2nd Type)	Vol.		11	L										6	12A, 401A, 71A		1-2	
12A57, 12A58, 12L57, 12L58 (Chassis 1202, 1202A)	Vol. Tone	63-450 63-451	124 45	TM238-SS1 O	M26			22-294 22-445 22-405 22-420	3 3 19 15	WE1650 2N518 BB13 BB12				12	*6K7, 6A8, *6C5, 6H6, *6F6, *5Z4, or glass equivalents	456	7-23,25	
12S205, 12S232, 12S245, 12S265, 12S266, 12S267, 12S268 (1204)	Vol.	63-568	124	TM254-SS1				22-566 22-573 22-572	1 13/14 15/19	2S569 2N518 TN111/BB12				12	*6K7G, 6L7G, *6J5G, 6H6G, 6T5, *6V6G, 5Y4G	456	8-41	

; Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued 12S345, 12S370, 12S371 (1206)....	Vol.	63-980	124	DTM295-SS26				22-714 22-728 22-748	1 13/14 15/19	2S569 Order from Mfr. Order from Mfr.				12	*6K7G, 6L7G, *6J5G, 6U5, 6F8G, *6V6G, 5Y4G	455	9-39	
12S445, 12S453, 12S471, 12S475, 12S494 (Ch. 1207)	Vol.	63-1078	124	DTM296-SS26				22-970 22-991	1 13	FPD234 2S569				12	*6K7G, 6A8G, *6J5G, 6F8G, *6V6G, 6U5, *6X5G	455	11-25,26	
12S550 (Ch. 12A3)..	Vol.	63-1078	124	DTM296-SS26				22-970 22-991	1 13	FPD234 2S569				12	*6K7G, 6A8G, *6J5G, *6V6G, *6X5G	455		
12S550Z (Ch. 12A1)	Vol.	63-1078	124	DTM296-SS26				22-1108 22-1053	1 13	FPD234 2S569				12	1232, 7B8, 6K7G, *6J5G, 6AE7GT, *6AC5G, 5Y4G	455	12-25,28	
12S568, 12S569 (Ch. 12A3)	Vol.	63-1078	124	DTM296-SS26				22-970 22-991	1 13	FPD234 2S569				12	*6K7G, 6A8G, *6J5G, *6V6G, *6X5G	455		
12S568E, 12S568Z, 12S569E, 12S569Z (Ch. 12A1)	Vol.	63-1078	124	DTM296-SS26				22-1108 22-1053	1 13	FPD234 2S569				12	1232, 7B8, 6K7G, *6J5G, 6AE7GT, *6AC5G, 5Y4G	455	12-25,28	
12S595 (Ch. 12A4)	Vol.	63-1078	124	DTM296-SS26				22-970 22-991	1 13	FPD234 2S569				12	*6J5G, *6K7G, 6A8G, *6V6G, *6X5G	455		
12S595Z (Ch. 12A2)	Vol.	63-1078	124	DTM296-SS26				22-1108 22-1053	1 13	FPD234 2S569				12	1232, 7B8, 6K7G, *6J5G, 6AE7GT, *6AC5G, 5Y4G	455	12-25,28	
12U158, 12U159 (Chassis 1203)	Vol.	63-522	124	TRP613	6			22-504 22-291 22-125 22-506 22-405 22-509	3 3 3 14 15 19	RS213 WE1650 RS213 RS216 BB13 BB13				12	*6K7, 6H16, 6F5, 6F6, *6L6, *5W4, 6L7, *6C5, or glass equivalents	456	8-36,40	
14	Vol.		11	L										6	*01A, 12A, 71A, 00A		1-2	
15S308, 15S346, 15S372, 15S373 (1502)	Vol.	63-980	124	DTM295-SS26				22-569 22-727 22-747 22-748	3 3 † †	ST596 2N518 Order from Mfr. Order from Mfr.				15	*6K7G, 6L7G, *6J5G, 6U5, 6F8G, *6V6G, *5Y4G	455	9-41	
15S479, 15S495 (Ch. 1503)	Vol.	63-980	124	DTM295-SS26				22-727 22-569 22-747 22-960	3 3 † 19/15	2N518 ST596 Order from Mfr. FPT311				15	*6K7G, 6A8G, *6J5G, 6C5G, 6F8G, *6V6G, 6U5, *5Y4G	455	12-27,28	
15U246, 15U269, 15U270, 15U271, 15U272 (Chassis 1501)	Vol.	63-688	124	DTM295-SS1				22-569 22-568 22-578 22-580	3 3 13/14 15	ST596 2N518 2N518 TN111/BB12				15	*6K7G, 6L7G, 6T5, *6J5G, 6H16G, *6V6G, *5Y4G	456	8-43,44	
16A61, 16A63 (1601C, 1601P)	Vol. Tone Fid.	63-450 63-451 63-480	15	TM238-SS1 O †	M26			22-361 22-438 22-420 22-321	1/3/14 15 15 13	RS216 BB14 BB12 CS133				16	*6K7, 6A8, 6C5, 6H16, 6F5, *6F6, *5Z4	456	7-27,29	
17	Vol.		11	L										6	*01A, 71A		1-4	
31, 32 Battery	Vol.	S353	11	SRP289										6	*01A, 12A, 71A, 00A		1-6	
31P	Vol.	S387	11	SRP289										8	*27, 10, *81		1-7	
33, 33X, 34, 35, 35A	Vol.	S387	11	SRP289										6	*27, 71A		1-7	
35P, 35AP	Vol.	S353	11	SRP289										8	*27, 10, *81		1-8	
35APX, 35PX	Vol.	63-93	11	SRP289										8	*27, 10, *81		1-10	
37A, 39, 39A	Vol.	S353	11	SRP289										7	*27, 26, 50		1-9	
40A	Vol.	S339	11	SRP289										8	*27, 10		1-9,11	
41, 42	Vol.	S387	11	SRP289										6	*27, 26, 10		1-11	
52, 53, 54, 55 (50 Series)	Vol.	S446 S516	12 123	SRP261 DRP221	Single Dual	A82 A83		22-61	3	MN277	B83			9	*24, *27, *45, 80		1-14,15	
60, 61, 62, 64, 67 (60 Series)	Vol.	S446 S516	12 123	SRP261 DRP221	Single Dual	A82 A83		22-61	3	MN277	B83			9	*24, *27, *45, 80		1-16	
71, 72, 73, 77 (70 Series)	Vol. Tone Vol.	63-122 63-126 † †	12 123 † †	SRP261 DRP221 M SRP289	Single Dual	A82 A83		22-72 22-73	3 3	HD684 RS216				9	*24, *27, *45, 80		1-18	
80 (Hypermetron)	Vol. Tone	63-128 63-147	12 †	SRP289 N	See Note	A4		22-72 22-73	3 3	HD684 RS216				10	*24, *27, *45, 80		1-20,22	
91, 92	Vol. Tone	63-171 63-212 63-172	111 15 41	A5MP N N	See Note See Note	A27 A4		22-119 22-125	26 26	RS213 RS213				10	*51, *27, *45, 24, 80	175	2-3,8	

† Data not substantiated.

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‡ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
102	Vol.	63-128	12	SRP289				22-72	3	HD684					8	24, 27, 35, 80	2-9,10	
103 (2017) Serials 450,001 to 450,450	Vol. Tone	63-171 63-193	111 41	Y5MP N				22-119 22-125	26 26	RS213 RS213					13	51, 24, 27, 35, 80	175 2-16	
103 (2017) Serials above 450,451	Vol. Tone	63-213 63-193	23 41	MM N				22-119 22-125	26 26	RS213 RS213					13	51, 24, 27, 35, 80	175 2-15	
112, 122	Vol. Tone	63-128 63-126	12 41	SRP289 N				22-72	3	HD684					8	24, 27, 35, 80	2-9,10	
200	Vol.	63-126	6	G12		EX200				ST595 ST595					5	57, 58, 47, 80	10-33	
210, 210-5, 211-5 (2022 A & B)	Vol. Tone	63-209 63-200	8 34	A10MP N	6			22-156 22-157	4 4	CS133 CS133					7	58, 24, 27, 47, 80	175 3-1,2	
215, 216, 217 (Chassis 2044)	Vol. Tone Sen.	63-235 63-232 63-255	15 34 7	N N SRP262	6			22-173	25	CS133					7	58, 56, 55, 59, 80	175 7-30	
220, 221 (2022 A & B)	Vol. Tone	63-209 63-200	8 34	A10MP N	6			22-157 22-156	4 4	CS133 CS133					7	58, 24, 27, 47, 80	175 3-2	
225 (Chassis 2044)	Vol. Tone Sen.	63-235 63-232 63-255	15 34 7	N N SRP262	6			22-173	25	CS133					7	58, 56, 55, 59, 80	175 7-30	
230, 240, 241, 244, 245 (Chassis 2036)	Vol. Tone Sen.	63-235 63-232 63-233	15 34 7	N N UC513	6			22-172 22-173	23 23	CS130 CS133					8	58, 56, 57, 59, 80	175 3-3,4	
250, 251, 252 (Chassis 2031)	Vol. Tone	63-209 63-200	8 34	A10MP N	6			22-156 22-157	4 4	CS133 CS133					9	58, 24, 27, 47, 57, 80	175 2-20, 7-32	
258 (Chassis 2051)	Vol. Tone Sen.	63-281 63-285 63-286	15 34 7	N K12 J	6			22-204 22-203	4 15	RM262 BB12					8	58, 55, 56, 59, 80	485 8-45,47	
259, 260, 261, 262 (Chassis 2031)	Vol. Tone	63-209 63-200	8 34	A10MP N	6			22-156 22-157	4 4	CS133 CS133					9	58, 24, 27, 57, 47, 80	175 2-20, 7-32	
263 (Chassis 2044)	Vol. Tone Sen.	63-235 63-232 63-255	15 34 7	N N SRP262	6			22-173	4	CS133					7	58, 56, 55, 59, 80	175 7-30	
268 (Chassis 2051)	Vol. Tone Sen.	63-281 63-285 63-286	15 34 7	N K12 J	6			22-204 22-203	1 15	RM262 BB12					8	58, 56, 55, 59, 80	485 8-45,47	
269 (Chassis 2031)	Vol. Tone	63-209 63-200	8 34	A10MP N	6			22-157 22-156	4 4	CS133 CS133					9	58, 57, 24, 27, 47, 80	175 2-20, 7-32	
270-5	Vol. Tone	63-209 63-200	8 34	A10MP N	6			22-156 22-157	4 4	CS133 CS133					7	58, 24, 27, 47, 80	125 3-1	
271 (Chassis 2036)	Vol. Tone Sen.	63-235 63-232 63-233	15 34 7	N N UC513	6			22-173 22-172	12/12 12	CS133 CS130					8	58, 56, 57, 59, 80	175 3-3,4	
272 (Chassis 2031)	Vol. Tone	63-209 63-200	8 34	A10MP N	6			22-156 22-157	4 4	CS133 CS133					9	58, 24, 27, 47, 57, 80	175 2-20, 7-32	
273 (Chassis 2030)	Vol. Tone Sen.	63-231 63-232 63-233	20 41 7	TM230-SS1 N UC513	M26			22-167 22-169	28 15	CS133 BB13					10	58, 56, 57, 59, 80	175 3-5,8	
277 (Chassis 2056)	Vol. Tone Sen.	63-281 63-285 63-309	17 34 7	N K12 E	6			22-204 22-203	1 15	RM262 BB12					8	58, 56, 2A6, 59, 80	485 4-15	
278, 280, 281 (Chassis 2051)	Vol. Tone Sen.	63-281 63-285 63-286	15 34 7	N K12 J	6			22-204 22-203	1 15	RM262 BB12					8	58, 56, 55, 59, 80	485 8-45,47	
281 (2nd) (Chassis 2056)	Vol. Tone Sen.	63-281 63-285 63-286	17 34 7	N K12 E	6			22-204 22-203	1 15	RM262 BB12					8	58, 56, 2A6, 59, 80	485 4-15	
288, 289 (Chassis 2051)	Vol. Tone Sen.	63-284 63-285 63-286	15 34 7	N K12 J	6			22-204 22-203	1 15	RM262 BB12					8	58, 56, 55, 59, 80	485 8-45,47	
288 (2nd) (Chassis 2056)	Vol. Tone Sen.	63-284 63-285 63-309	17 34 7	N K12 E	6			22-204 22-203	1 15	RM262 BB12					8	58, 56, 2A6, 59, 80	485 4-15	
291, 292 (Chassis 2022)	Vol. Tone	63-209 63-200	8 34	A10MP N	6			22-157 22-157	4 4	CS133 CS133					7	58, 24, 27, 47, 80	175 3-2	
293 (Chassis 2056)	Vol. Tone Sen.	63-284 63-285 63-309	17 34 7	N K12 E	6			22-204 22-203	1 15	RM262 BB12					8	58, 56, 2A6, 59, 80	485 4-15	
299 (Chassis 2031)	Vol. Tone	63-209 63-200	8 34	A10MP N	6			22-157 22-156	4 4	CS133 CS133					9	58, 57, 24, 27, 47, 80	175 2-20, 7-32	
333	Vol.	S353	11	SRP289											6	301A, 71A	1-29	
342	Vol.	S353	11	SRP289											6	327, 71A	1-8	

‡ Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
342P	Vol.	S387	11	SRP289											8	527, 10, 81	1-7	
352, 352A	Vol.	S353	11	SRP289											6	527, 71A	1-8	
352P, 352AP	Vol.	S353	11	SRP289											8	527, 10, 81	1-10	
352PX, 352APX	Vol.	63-93	11	SRP289											7	527, 26, 50	1-9	
353A	Vol.	S353	11	SRP289											6	501A, 71A	1-29	
362, 362X	Vol.	S353	11	SRP289											6	527, 71A	1-5, 8	
392, 392A	Vol.	S353	11	SRP289											9	527, 10, 81	1-11	
410, 411	Vol.	63-231	20	TM230-SS1	M26			22-167	28	CS133					9	58, 56, 59, 57, 80	175	3-5, 8
	Tone	63-232	41	N				22-169	15	BB13								
412 (414)	Vol.	S387	11	SRP289											6	24, 427, 71A	175	3-5, 8
420	Vol.	63-231	20	TM230-SS1	M26			22-167	28	CS133					10	56, 57, 58, 59, 80	175	3-5, 8
	Tone	63-232	41	N				22-169	15	BB13								
422	Vol.	S387	11	SRP289											6	24, 427, 10		1-13
	Sen.	S434	1	K12														
430, 440, 441, 442	Vol.	63-231	20	TM230-SS1	M26			22-167	28	CS133					12	56, 57, 58, 59, 80	175	3-7
	Tone	63-232	41	N				22-169	15	BB13								
443 (Chassis 2030)	Vol.	63-250	8	A400P														
	Tone	63-231	20	TM230-SS1	M26			22-167	28	CS133					10	58, 56, 57, 59, 80	175	3-5, 8
	Sen.	63-232	41	N				22-169	15	BB13								
444 (Chassis 2033)	Vol.	63-233	7	UC513														
	Tone	63-231	124	TRP607	6			22-167	28	CS133					12	58, 56, 57, 59, 80	175	3-7
	Sen.	63-232	41	N				22-169	15	BB13								
460 (2047) (Auto)	Vol.	63-276	4	A400P				22-183	1	2N518	190-1	292	C3	7	6D6, 85, 89, 6Z4, 6C6	485	4-1, 2	
	Tone	63-253	41	K12				22-195	15	BB12								
	Sen.	63-283	7	J				.02		Buffer								
462 (Chassis 2057)	Vol.	63-321	17	UC511	6			22-236	4/15	SH628	190-2	292	C3	6	6C6, 6F7, 6D6, 75, 12, 81	252, 5	4-3, 4	
	Tone	63-330	34	K12				.02		Buffer								
470 (Chassis 2044)	Vol.	63-235	15	N	6			22-173	1	CS133					7	58, 56, 55, 59, 80	175	7-30
	Tone	63-232	34	N														
	Sen.	63-255	7	SRP262														
472 (Chassis 2031)	Vol.	63-209	8	A10MP	6			22-157	4	CS133					9	58, 57, 24, 427, 47, 80	175	2-20
	Tone	63-200	34	N				22-156	4	CS133								
473 (Chassis 2030)	Vol.	63-231	20	TM230-SS1	M26			22-167	28	CS133					10	58, 56, 57, 59, 80	175	3-5, 8
	Tone	63-232	41	N				22-169	15	BB13								
	Sen.	63-233	7	UC513														
474 (Chassis 2053)	Vol.	63-306	17	N	6			22-168	1	CM172					8	58, 55, 59, 56, 80	175	4-8
	Tone	63-232	41	N														
	Sen.	63-255	7	SRP262														
475 (Chassis 2054)	Vol.	63-306	15	N	6			22-168	1	CM172					9	56, 58, 59, 80	175	4-11
	Tone	63-232	41	N				22-169	15	BB13								
	Sen.	63-304	7	UC500														
476, 476A (Chassis 2032)	Vol.	63-231	20	TM230-SS1	M26			22-241	28	SR642					12	56, 57, 58, 59, 80	175	4-12
	Tone	63-232	41	N				22-240	28	HD684								
	Supp.	63-250	15	A400P														
476B (Chassis 2059)	Vol.	63-306	15	N	6			22-230	3	SR642					12	56, 58, 59, 80	175	4-13, 14
	Tone	63-315	57	K12				22-217	3	HD684								
	Sen.	63-316	5	K				22-225	15	BB12								
478 (Chassis 2056)	Vol.	63-284	17	N	6			22-204	1	RM262					8	58, 56, 2A6, 59, 80	485	4-15
	Tone	63-285	34	K12				22-203	15	BB12								
	Sen.	63-309	7	E														
478 (2nd) (Chassis 2051)	Vol.	63-284	15	N	6			22-204	1	RM262					8	58, 56, 55, 59, 80	485	8-45, 47
	Tone	63-285	34	K12				22-203	15	BB12								
	Sen.	63-286	7	J														
479 (Chassis 2059)	Vol.	63-306	15	N	6			22-247	3	HD684					12	58, 56, 59, 80	175	4-13, 14
	Tone	63-315	57	K12				22-230	3	SR642								
	Sen.	63-316	58	K				22-225	15	BB12								
500, 501, 502, 503, 514, 515, 516 (Chassis 2037)	Vol.	63-235	15	N	6			22-173	23	CS133					8	56, 57, 58, 59, 80	175	2-21, 22
	Tone	63-232	34	N				22-172	23	CS130								
	Sen.	63-234	7	UC500														
517, 518 (Chassis 2031)	Vol.	63-209	8	A10MP	6			22-157	4	CS133					9	58, 57, 24, 427, 47, 80	175	2-20
	Tone	63-200	34	N				22-156	4	CS133								
520, 521, 530, 531, 533, 535 (Chassis 2035)	Vol.	63-231	20	TM230-SS1	M26			22-167	28	CS133					12	58, 56, 59, 57, 80	175	8-48, 50
	Tone	63-232	41	N				22-169	15	BB13								
	Sen.	63-234	7	UC500														
530, 531, 532, 533 (2038)	Vol.	63-231	124	TM230-SS1	M26			22-167	28	CS133					12	58, 56, 57, 59, 80	175	8-49
	Tone	63-232	41	N				22-169	15	BB13								
	Sen.	63-249	15	J														
558 (Chassis 2051)	Vol.	63-284	17	N	6	See Note A5		22-204	1	RM262					8	58, 56, 55, 59, 80	485	8-45, 47
	Tone	63-285	34	K12				22-203	15	BB13								
	Sen.	63-286	7	J														
563	Vol.	63-120	11	SRP289				22-61	3	MN277		B83			7	501A, 71A		1-29
568 (Chassis 2051)	Vol.	63-284	15	N	6			22-204	1	RM262					8	58, 56, 55, 59, 80	485	8-45, 47
	Tone	63-285	34	K12				22-203	15	BB12								
	Sen.	63-286	7	J														

‡ Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
577 (Chassis 2056)	Vol. Tone	63-284	17	N	6			22-204	1	RM262				8	58, 56, 2A6, 59, 80	485	4-15	
	Sen.	63-285	34	K12				22-203	15	BB12								
578 (Chassis 2051)	Vol. Tone	63-284	15	N	6			22-204	1	RM262				8	58, 56, 55, 59, 80	485	8-45, 47	
	Sen.	63-285	34	K12				22-203	15	BB12								
588 (Chassis 2056)	Vol. Tone	63-284	17	N	6			22-204	1	RM262				8	58, 56, 2A6, 59, 80	485	4-15	
	Sen.	63-285	34	K12				22-203	15	BB12								
589, 590 (Chassis 2051)	Vol. Tone	63-284	15	N	6			22-204	1	RM262				8	58, 56, 55, 59, 80	485	8-45, 47	
	Sen.	63-285	34	K12				22-203	15	BB12								
593 (Chassis 2056)	Vol. Tone	63-284	17	N	6			22-204	1	RM262				8	58, 56, 2A6, 59, 80	485	4-15	
	Sen.	63-285	34	K12				22-203	15	BB12								
600 (Chassis 2037)	Vol. Tone	63-235	15	M	6			22-173	23	CS133				8	56, 57, 58, 59, 80	175	2-21, 22	
	Sen.	63-232	34	N				22-172	23	CS130								
M601 (P51)	Vol.	63-164	6	G12				22-119	1	RS213				5	35, 24, 47, 80		5-1, 2	
								22-118	1	RS213								
602	Vol.	S446	12	SRP261		See Note A82		22-61	3	MN277	B83			9	24, 27, 345, 80		1-16	
602 (2035)	Vol. Tone	63-231	20	TM230-SS1	M26			22-167	28	CS133				12	58, 56, 57, 59, 80	175	8-48	
	Sen.	63-232	41	N				22-169	15	BB13								
603 (Chassis 2038)	Vol. Tone	63-231	124	TM230-SS1	M26			22-167	28	CS133				12	58, 56, 57, 59, 80	175	8-49, 50	
	Sen.	63-232	41	N				22-169	50	BB13								
604, 606 (Chassis 2037)	Vol. Tone	63-235	15	N	6			22-173	23	CS133				8	56, 57, 58, 59, 80	175	2-21, 22	
	Sen.	63-232	34	N				22-172	23	CS130								
605 (2035)	Vol. Tone	63-231	20	TM230-SS1	M26			22-167	28	CS133				12	58, 56, 57, 59, 80	175	8-48	
	Sen.	63-232	41	N				22-169	15	BB13								
608 (Chassis 2035)	Vol. Tone	63-231	20	TM230-SS1	M26			22-167	28	CS133				10	58, 56, 57, 59, 80	175	8-48, 50	
	Sen.	63-232	41	N				22-169	15	BB13								
610 (Chassis 2031)	Vol. Tone	63-235	15	N	6			22-173	23	CS133				8	58, 56, 57, 59, 80	175	2-21, 22	
	Sen.	63-232	34	N				22-172	23	CS130								
611 (Chassis 2035)	Vol. Tone	63-231	20	TM230-SS1	M26			22-167	28	CS133				10	58, 56, 57, 59, 80	175	8-48, 50	
	Sen.	63-232	41	N				22-169	15	BB13								
612 (Chassis 2038)	Vol. Tone	63-231	124	TM230-SS1	M26			22-167	28	CS133				12	58, 56, 57, 59, 80	175	8-49, 50	
	Sen.	63-232	41	N				22-169	15	BB13								
612, 613	Vol.	S446	12	SRP261		See Note A5		22-61	3	MN277	B83			8	24, 27, 345, 80		1-16	
615 (Chassis 2035)	Vol. Tone	63-231	20	TM230-SS1	M26	See Note A82		22-167	28	CS133				10	58, 56, 57, 59, 80	175	8-48, 50	
	Sen.	63-232	41	N				22-169	15	BB13								
616 (Chassis 2037)	Vol. Tone	63-235	15	N	6			22-173	23	CS133				8	56, 57, 58, 59, 80	175	2-21, 22	
	Sen.	63-232	34	N				22-172	23	CS130								
617 (Chassis 2038)	Vol. Tone	63-231	124	TM230-SS1	M26			22-167	28	CS133				12	58, 56, 57, 59, 80	175	8-49, 50	
	Sen.	63-232	41	N				22-169	15	BB13								
618 (Chassis 2037)	Vol. Tone	63-235	15	M	6			22-173	23	CS133				8	58, 56, 57, 59, 80	175	2-21, 22	
	Sen.	63-232	34	N				22-172	23	CS130								
619 (Chassis 2033)	Vol. Tone	63-231	124	TM230-SS1	M26			22-167	28	CS133				12	58, 56, 57, 59, 80	175	3-7	
	Sen.	63-232	41	N				22-169	15	BB13								
620 (Chassis 2038)	Vol. Tone	63-231	124	TM230-SS1	M26			22-167	28	CS133				12	58, 56, 57, 59, 80	175	8-49, 50	
	Sen.	63-232	41	N				22-169	15	BB13								
622	Vol.	S446	12	SRP261		See Note A5		22-61	3	MN277	B83			9	24, 27, 345, 80		1-16	
623 (Chassis 2038)	Vol. Tone	63-231	124	TM230-SS1	M26	See Note A82		22-167	28	CS133				12	58, 56, 57, 59, 80	175	8-49, 50	
	Sen.	63-232	41	N				22-169	15	BB13								
642	Vol.	S446	12	SRP261		See Note A5		22-61	3	MN277	B83			9	24, 27, 345, 80		1-16	
650 (2057)	Vol.	63-321	17	UC511	6			22-236	4/15	SR628 Buffer	B14	190-2	292	C3	6C6, 6F7, 6D6, 75, 42, 84	252.5	4-3, 4	
650HD, 651HE, 660TD, 661TE	Vol. Tone	63-321	17	UC511	6			22-236	4/15	SR628 Buffer	B14	190-2	292	C3	6D6, 6F7, 75, 42, 84	252.5	4-5, 6	
663-4 (Chassis 5510)	Vol.	63-330	34	K12	6	EC256		22-388	4	CM172 Buffer	B14	190-4	294SW	C3	6A7, 6D6, 75, 41, 6Z4	456	7-31	
660, 666, 668 (Chassis 5616, 5626)	Vol.	63-402	18	N	6	EC256		22-347	4	CM172 Buffer	B14	190-4	294	C3	6D6, 6C6, 75, 42, 84	252.5	6-1, 2	
672	Vol.	S446	12	SRP261		See Note A82		22-61	3	MN277	B83			9	24, 345, 27, 80		1-16	

; Data not substantiated.

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§ Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued 680 (Chassis 5617)	Vol.	63-402	18	N	6	EC256	22-347	4	CM172		190-4	291	C3	6	6D6, 6C6, 75, 42, 81	252.5	6-3.4	
701	Vol.	V601	15	N	6		.01		Buffer	B14				5	6D6, 75, 43, 25Z5	456	5-4, 3-9	
702	Vol.	V601	17	N	6		C525	11	UR182	B31				5	6A7, 6D6, 75, 43, 25Z5	465	5-4	
705, 706, 707 (Chassis 2052)	Vol.	63-299	17	N	6		22-217	1	RM262					6	57, 58, 56, 2A6, 59, 80	485	4-7	
711, 712 (Chassis 2052)	Vol.	63-299	17	N	6		22-225	15	BB12					6	56, 57, 58, 2A6, 59, 80	485	4-7	
712 (Early)	Vol.	63-122	123	SRP261		Single	22-72	3	HD684					9	24, 27, 245, 80		1-18, 19	
715 (Chassis 2053)	Vol.	63-306	17	N	6		22-73	3	RS216					8	58, 55, 259, 56, 80	175	4-8	
722	Vol.	63-232	41	M		See Note	22-168	1	CM172					8	58, 55, 259, 56, 80	175	4-8	
730	Vol.	96001	97	TRP602		Single	22-72	3	HD684					9	24, 27, 245, 80		1-18, 19	
732	Vol.	63-122	123	DRP221		Dual	22-73	3	RS216					9	24, 27, 245, 80		1-18, 19	
735	Vol.	96001	97	TRP602		Single	22-72	3	HD684					9	24, 27, 245, 80		1-18, 19	
740	Vol.	P96009	15	O			22-73	3	RS216					9	24, 27, 245, 80		1-18, 19	
750 (Chassis 2052)	Vol.	63-299	17	N	6		22-217	1	RM262					6	56, 57, 58, 2A6, 59, 80	485	4-7	
755, 756 (Chassis 2053)	Vol.	63-306	17	N			22-225	15	BB12					8	58, 55, 259, 56, 80	175	4-8	
757 (Chassis 2054)	Vol.	63-232	41	N	6		22-168	1	CM172					9	58, 56, 259, 80	175	4-11	
760, 765, 767 (Chassis 2054)	Vol.	63-306	15	N	6		22-169	15	BB13					9	58, 56, 259, 80	175	4-11	
770 (Chassis 2032)	Vol.	63-232	41	N	6		22-168	1	CM172					9	56, 58, 259, 80	175	4-11	
770B (Chassis 2059)	Vol.	63-231	20	TM230-SS1	M26		22-169	15	BB13					9	56, 58, 259, 80	175	4-11	
772	Vol.	63-250	7	A400P			22-241	28	SR642					12	58, 56, 257, 259, 80	175	4-12	
775 (Chassis 2032)	Vol.	63-231	20	TM230-SS1	M26		22-210	28	HD684					12	58, 56, 257, 259, 80	175	4-12	
775B (Chassis 2059)	Vol.	63-250	7	A400P			22-241	28	SR642					12	58, 56, 257, 259, 80	175	4-12	
777, 778	Vol.	63-315	57	K12	6		22-230	3	SR642					12	58, 56, 259, 80	175	4-13, 14	
780 (Chassis 2032)	Vol.	63-316	7	K	6		22-247	3	HD684					12	58, 56, 259, 80	175	4-13, 14	
785 (2053)	Vol.	63-122	123	DRP221	6		22-225	15	BB12					9	24, 27, 245, 80		1-18, 19	
788 (Chassis 2059)	Vol.	63-231	20	TM230-SS1	M26		22-73	3	HD684					9	24, 27, 245, 80		1-18, 19	
801	Vol.	P101-1	17	N	6		22-73	3	RS216					12	56, 257, 258, 259, 80	175	4-12	
804	Vol.	256	18	N	6		22-241	28	SR642					12	56, 257, 258, 259, 80	175	4-12	
805 (Chassis 5502)	Vol.	63-356	18	N	6		22-240	28	HD684					8	58, 55, 259, 56, 80	175	4-8	
806, 807 (Chassis 5504, 5505)	Vol.	63-366	18	M	6		22-168	1	CM172					8	58, 55, 259, 56, 80	175	4-8	
808, 809 (Chassis 5605, 5607)	Vol.	63-306	17	N	6		22-247	3	HD684					12	58, 56, 259, 80	175	4-13, 14	
810, 811 AC-DC (Chassis 5609)	Vol.	63-366	18	M	6		22-230	3	SR642					12	56, 258, 259, 80	175	4-13, 14	
812 (Chassis 5608) AC-DC	Vol.	63-366	18	M	6		22-247	3	HD684					12	58, 56, 259, 80	175	4-13, 14	
							22-230	3	SR642					12	56, 258, 259, 80	175	4-13, 14	
							22-247	3	HD684					12	58, 56, 259, 80	175	4-13, 14	
							22-225	15	BB12					5	6D6, 75, 43, 25Z5	456	5-5	
							22-230	3	SR642					5	6A7, 78, 75, 43, 25Z5	456	10-34	
							22-225	15	BB12					5	6F7, 6D6, 75, 42, 80	252.5	5-6	
							22-125	23	RS213					5	6A7, 6D6, 75, 42, 80	252.5	5-7, 8	
							8-8	23	RM262	B10				5	6A7, 6D6, 75, 42, 80	252.5	5-7, 8	
							22-125	25	RS213					6	6D6, 6A7, 75, 42, 80	252.5	5-9, 10	
							22-318	25/14	RM262					6	6D6, 6A7, 75, 42, 80	252.5	5-9, 10	
							22-306	15	CS130					6	6D6, 6A7, 75, 43, 25Z5	252.5	6-5	
							22-307	11	2N512					6	6D6, 6A7, 75, 43, 25Z5	252.5	6-5	
							22-308	11	RS216					6	6D6, 6A7, 75, 43, 25Z5	252.5	6-5	
							22-195	15	BB12					6	6D6, 6A7, 75, 43, 25Z5	252.5	6-5	
							22-307	11	2N512					6	6D6, 6A7, 75, 43, 25Z5	252.5	6-5	
							22-308	11	RS216					6	6D6, 6A7, 75, 43, 25Z5	252.5	6-5	

‡ Data not substantiated.

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† Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued																		
814, 815 (Chassis 5611, 5612)	Vol.	63-366	18	M	6		22-125 22-318	25 25/13	RS213 RM262						6	6D6, 6A7, 75, 42, 80	125	6-6
816, 817 (Chassis 5608)	Vol.	63-366	18	M	6		22-307 22-308	11 11	2N512 RS216						6	6D6, 6A7, 75, 43, 25Z5	125	5-11,12
819 (Chassis 5608)	Vol.	63-366	18	M	6		22-307 22-308	11 11	2N512 RS216						6	6D6, 6A7, 75, 43, 25Z5	125	5-11,12
825, 827 (Chassis 5701-2-3)	Vol.	63-338	18	M	6		22-283 22-266	23 23	2S567 2S563	B10					7	6D6, 75, 42, 37, 80	485	5-13,14
S827 (Chassis 5701R)	Vol.	63-338	18	M	6		22-321 22-322	25 25/13	CS133 RM262						7	6D6, 76, 75, 42, 80	252.5	6-23,24
829 (Chassis 5701-2-3)	Vol.	63-338	18	M	6		22-283 22-266	23 23	2S567 2S563						7	6D6, 75, 42, 37, 80	485	5-13,14
S829 (Chassis 5701R, 5702R, 5703R)	Vol.	63-338	18	M	6		22-321 22-322	25 25/13	CS133 RM262						7	6D6, 75, 42, 76, 80	252.5	6-23,24
835 (Chassis 1001, 1001A)	Vol.	63-384	18	TM230-SS1	M26		22-331 22-125	3 3	RS213 RS213						10	6D6, 75, 42, 76, 5Z3, 6A7	485	5-15,16
845 (Chassis 5502)	Vol.	63-356	18	N	6		22-225 22-125 8-8	15 23 23	BB12 RS213 RM262	B10					5	6F7, 6D6, 75, 42, 80	252.5	5-6
S847, 850 (Chassis 5504, 5505)	Vol.	63-366	18	M	6		22-125 8-8	23 23	RS213 RM262	B10					5	6A7, 6D6, 75, 42, 80	252.5	5-7,8
860, 861 (Chassis 5605, 5607)	Vol.	63-366	18	M	6		22-125 22-318 22-306	25 25/14 †	RS213 RM262 CS130						6	6D6, 6A7, 75, 42, 80	252.5	5-9,10
862 AC-DC (Chassis 5609)	Vol.	63-366	18	M	6		22-307 22-308 22-195	11 11 15	2N512 RS216 BB12						6	6D6, 6A7, 75, 43, 25Z5	252.5	6-5
864 (Chassis 5611, 5612)	Vol.	63-366	18	M	6		22-125 22-318	25 25/13	RS213 RM262						6	6D6, 6A7, 75, 42, 80	125	6-6
865, 866 AC-DC (Chassis 5609)	Vol.	63-366	18	M	6		22-307 22-308 22-195	11 11 15	2N512 RS216 BB12						6	6D6, 6A7, 75, 43, 25Z5	252.5	6-5
870 (Chassis 5701-2-3)	Vol.	63-338	18	M	6		22-283 22-266	23 23	2S567 2S563	B10					7	6D6, 75, 42, 37, 80	485	5-13,14
S870, S871 (Chassis 5701R, 5702R, 5703R)	Vol.	63-338	18	M	6		22-321 22-322	25 25/13	CS133 RM262						7	6D6, 75, 42, 76, 80	252.5	6-23,24
880, 881, 885 (Chassis 1001, 1001A)	Vol.	63-384	18	TM230-SS1	M26		22-331 22-125 22-225	3 3 15	RS213 RS213 BB12						10	6D6, 75, 42, 76, 5Z3, 6A7	485	5-15,16
908, 909 (Chassis 5614)	Vol. Tone	63-366 63-316	18 22	M Y50MP	6		22-385	25/13	3S584						6	6D6, 6A7, 75, 42, 80	252.5	6-15,16
S908, S909 (Chassis 5618)	Vol. Tone	63-366 63-316	18 34	M Y50MP	6		22-385	25/13	3S584						6	6D6, 6A7, 75, 42, 80	252.5	6-25,26
935 (Chassis 1001)	Vol.	63-384	124	TM230-SS1	M26		22-331 22-125	3 3	RS213 RS213						10	6D6, 6A7, 76, 75, 42, 5Z3	485	5-15,16
945, 950 (Chassis 5508, 5509)	Vol. Tone	63-366 63-316	18 22	M Y50MP	6		22-125	25	RS213						5	6A7, 6D6, 75, 42, 80	252.5	6-7,8
960, 961 (Chassis 5614)	Vol. Tone	63-366 63-316	18 22	M Y50MP	6		22-385	25/13	3S584						6	6D6, 6A7, 75, 42, 80	252.5	6-15,16
S961 (Chassis 5618)	Vol. Tone	63-366 63-316	18 34	M Y50MP	6		22-385	25/13	3S584						6	6D6, 6A7, 75, 42, 80	252.5	6-25,26
963 (5609)	Vol.	62-366	18	M	6		22-307 22-308 22-195	11 11 15	2N512 RS216 BB12						6	6D6, 6A7, 75, 25Z5, 43	262.5	6-5
970, 975 (Chassis 5902)	Vol. Tone	63-392 63-393	114 114	N N	6		22-125 22-230	3 3	RS213 SR642						9	58, 2A7, 2A5, 56, 80	175	6-9,10
978 (Chassis 1001)	Vol.	63-384	124	TM230-SS1	M26		22-331 22-125	3 3	RS213 RS213						10	6D6, 6A7, 76, 75, 42, 5Z3	485	5-15,16
980 (Chassis 1201, 1201A)	Vol.	63-384	20	TM230-SS1	M26		22-331 22-125	3 3	RS213 RS213						12	6D6, 6A7, 42, 5Z3	485	6-11,14

† Data not substantiated.

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† Indicates miscellaneous section

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZENITH—Continued 983 (Chassis 1001)..	Vol.	63-384	124	TM230-SS1	M26			22-331	3	RS213					10	6D6, 6A7, 76, 75, 42, 5Z3	485	5-15,16
985, 990 (Chassis 1201, 1201A)....	Vol.	63-384	20	TM230-SS1	M26			22-331	3	RS213					12	6D6, 6A7, 76, 75, 42, 5Z3	485	6-11,14
Stratosphere 1000Z (Chassis 2501C, 2501P).....	Vol. Tone Supp.	63-390 63-391 63-408	1 1 1	Order from TRP607	Mfr.			22-361 22-360 22-362 22-189 22-225 22-331	3 3 14 15 15 3	RS216 HS691 CS133 BB15 BB12 RS213				25	6D6, 6A7, 76, 75, 42, 85, 79, 45, 5Z3	485	6-29,32	
1101 (Chassis 1001)	Vol.	63-384	124	TM230-SS1	M26			22-331	3	RS213					10	6D6, 6A7, 76, 75, 42, 5Z3	485	5-15,16
1105 (Chassis 1001)	Vol.	63-384	124	TM230-SS1	M26			22-331	3	RS213					10	6D6, 6A7, 76, 75, 42, 5Z3	485	5-15,16
1115 (5609).....	Vol.	63-366	18	M	6			22-307 22-308 22-195	11 11 15	2N512 RS216 BB12				6	6D6, 6A7, 75, 43, 25Z5	262.5	6-5	
1117 (Chassis 5614).....	Vol. Tone	63-366 63-316	18 22	M Y50MP	6			22-385	25/13	3S584				6	6D6, 6A7, 75, 42, 80	252.5	6-15,16	
1161 (Chassis 5611, 5612).....	Vol.	63-366	18	M	6			22-125 22-318	25 25/13	RS213 RM262				6	6D6, 6A7, 75, 42, 80	125	6-6	
1162 (Chassis 5609) AC-DC.....	Vol.	63-366	18	M	6			22-307 22-308 22-195	11 11 15	2N512 RS216 BB12				6	6D6, 6A7, 75, 43, 25Z5	252.5	6-5, 7-22	
1167 (Chassis 5618).....	Vol. Tone	63-366 63-316	18 34	M Y50MP	6			22-385	25/13	3S584				6	6D6, 6A7, 75, 42, 80	252.5	6-25,26	
1170 (Chassis 5701R, 5702R, 5703R).....	Vol.	63-338	18	M	6			22-321 22-322	25 25/13	CS133 RM262				7	6D6, 75, 42, 76, 80	252.5	6-23,24	
2009C.....	Vol.	63-153	6	G12				22-67	1	RS213				5	2A, 45, 80		1-27	
2051 (Chassis).....	Vol. Tone Sen.	63-284 63-285 63-286	15 34 7	N K12 J	6			22-102 22-204 22-203	1 1 15	RS213 RM262 BB12				8	58, 55, 59, 56, 80	485	1-45,47	
2056, 2056I (Chassis).....	Vol. Tone Sen.	63-284 63-285 63-309	18 34 7	N K12 E				22-204 22-203	1 15	RM262 BB12				8	58, 2A6, 59, 56, 80	485	4-15	
2062 (Chassis).....	Vol. Tone Sen.	63-284 63-285 63-316	17 34 7	N K12 K	6			22-230	1	SR642				7	58, 57, 56, 2A6, 2A5, 80	125		

‡ Data not substantiated.

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§ Indicates miscellaneous section.

ZENITH CROSS REFERENCE BY CHASSIS NUMBER

4A01.....	4H515	8A03.....	8S587, 8S588	2017.....	103
4A02.....	4K515	8A04.....	8S593, 8S594	2021.....	RH
4A03.....	4B536	10A1.....	10S531, 10S549, 10S566	2022A, 2022B, LH, WII, MII, 210, 211, 220, 221, 270, 291, 292	
4A04.....	4K535, 4K570	10A2.....	10S589, 10S590	2030, 2043.....	273, 410, 411, 412, 414, 420, 443, 473
4B01.....	4K600	10A3.....	10H551, 10H571	2031.....	250, 251, 252, 259, 260, 261, 262, 269, 272, 299, 472, 516, 517, 518
5A01.....	5G500, 5G501	10A3R.....	10H571R, 10H573	2032.....	476, 476A, 770, 775, 780
5A02.....	5G537, 5G572	12A1.....	12S550Z, 12S568E, 12S568Z, 12S569E, 12S569Z	2033.....	430, 440, 441, 442, 444, 619
5A03.....	5G504	12A2.....	12S595Z	2035.....	520, 521, 602, 605, 611, 615
5A10.....	5G510, 5G534	12A3.....	12S550, 12S568, 12S569	2036.....	230, 240, 241, 244, 245, 619
5B01.....	5D610, 5D610W	12A4.....	12S595	2037.....	500, 501, 502, 503, 514, 515, 516, 600, 604, 606, 610, 616, 618
6A01.....	6D510	1001, 1001A.....	835, 880, 881, 885, 935, 978, 983, 1101, 1105	2038.....	530, 603, 612, 617, 620, 623, 631, 632, 633
6A02.....	6S511, 6S527, 6S528	1004.....	10S130, 10S147, 10S153, 10S155, 10S156, 10S157, 10S160	2044.....	215, 216, 217, 225, 263, 470
6A04.....	6S580	1005.....	10S443, 10S452, 10S464, 10S470, 10S491, 10S492	2047.....	460
6A05.....	6S546, 6S556	1103.....	11S474	2051.....	258, 268, 278, 280, 281, 288, 289, 478, 558, 568, 578, 589, 590
6A05R.....	6S532	1201, 1201A.....	980, 985, 990	2052.....	705, 706, 711, 712, 750
6A08.....	6R583	1202, 1202A.....	12A57, 12A58, 12L57, 12L58	2053.....	474, 585, 715, 755, 756, 785
6A10.....	6D525, 6D526	1203.....	12U158, 12U159	2054.....	475, 757, 760, 765, 767
6A16.....	6D512, 6D512W, 6D539	1204.....	12S205, 12S232, 12S245, 12S265, 12S266, 12S267, 12S268	2056.....	277, 281, 288, 293, 478, 577, 588, 593
6A17.....	6MNS95	1206.....	12S345, 12S370, 12S371	2057.....	462, 650
6A19.....	6G501F, 6G501M, 6G501L, 6G505	1207.....	12S445, 12S453, 12S471, 12S475, 12S494	2059.....	476B, 479, 770B, 777, 788
6A20.....	6S596, 6D597	1501.....	15U246, 15U269, 15U270, 15U271, 15U272, 15U273	2501C, 2501P 1000Z, Stratosphere 1st and 2nd Series	
6A21.....	6MF590, 6MF591	1502.....	15S308, 15S346, 15S372, 15S373	5401.....	4P26, 4P51
6A23.....	6MF593	1503.....	15S579, 15S495	5403.....	4T26, 4T51
6A24.....	6D516	1601C.....	16A61, 16A63	5405.....	4V31, 4V59
6A25.....	6G533, 6G560	1601P.....	16A61, 16A63	5406.....	4B106, 4B131, 4B132
6A26.....	6D520, 6D520W, 6D538	2004.....	6-Tube Zenette	5407.....	4F133
7A01.....	7S585	2009C.....	5-Tube Zenette	5408.....	4F227
7A02.....	7S529, 7S530, 7S547, 7S557, 7S558, 7S559	2009-C-P.....	L-P	5409.....	4B231
7A08.....	7MN596	2012J.....	A11, C11, B11	5410.....	4B313, 4B355
7A09.....	7ML592	2012-4-J.....	090, 90, V8	5411.....	4B314, 4B317
7A11.....	7S598	2014.....	91, 92		
8A01.....	8S586				
8A02.....	8S531, 8S548, 8S563, 8S564				

ZENITH CROSS REFERENCE BY CHASSIS NUMBER—Continued

5412.....	4K310, 4K331, 4K355	5618.....	S908, S909, S961, 1167	5701R.....	S827, S829, S870, S871, 1170
5413.....	4K329	5619.....	6S27, 6S52	5702.....	825, 827, 829, 870
5417.....	4B422, 4B437, 4B466, 4B468	5621.....	6V27, 6V62	5702R.....	S827, S829, S870, S871, 1170
5419.....	4K402	5626.....	668	5703.....	825, 827, 829, 870
5420.....	4K422, 4K435, 4K465, 4K466	5629.....	6VA27, 6VA62	5703R.....	S827, S829, S870, S871, 1170
5502.....	805, 815	5630.....	6M90D, 6M90S	5704.....	7S28, 7S53
5504, 5505.....	806, 807, S847, 850	5631.....	6M91D, 6M91S	5706.....	7M91S, 7M91D
5508, 5509.....	945, 950	5632.....	6M92	5707.....	7D119, 7D126, 7D127, 7D138, 7D148, 7D151, 7D162, 7D178
5510.....	663, 664, 5M190	5633.....	6D116, 6D117, 6D118	5708E.....	7DA119, 7DA126, 7DA127, 7DA138, 7DA148, 7DA162, 7DA168
5513, 5513A.....	5S29, 5S56	5634.....	6S128, 6S137, 6S147, 6S152, 6S157	5709.....	7S204, 7S232, 7S240, 7S242, 7S258, 7S260, 7S261
5516.....	5S119, 5S126, 5S127, 5S150, 5S151, 5S161	5635.....	6B107, 6B129, 6B164	5709AT.....	7S232AT, 7S240AT, 7S242AT, 7S258AT, 7S260AT
5517A.....	5A119, 5A126, 5A127, 5A151	5636.....	6D1120, 6D1121, 6D1122	5710.....	7D203, 7D222, 7D223, 7D229, 7D239, 7D241, 7D243, 7S253
5518.....	5F134, 5F166	5637.....	6M192, 6M193, 6M194	5711.....	7J232, 7J259
5519.....	5R123, 5R135, 5R165	5638.....	6S203, 6S222, 6S223, 6S229, 6S239, 6S241	5711T.....	7J232T, 7J259T
5520.....	5M191	5639.....	6D202, 6D219, 6D221, 6D238	5714.....	7S323, 7S342, 7S343, 7S363, 7S364, 7S366
5521.....	5S201, 5S218, 5S220, 5S228, 5S237, 5S250, 5S252	5640AT.....	6A203, 6A223, 6A229, 6A239, 6A241	5715.....	7J323, 7J368
5521AT.....	5S218AT, 5S228AT, 5S237AT	5642.....	6J230, 6J257	5719.....	7S432, 7S433, 7S434, 7S449, 7S450, 7S458, 7S459, 7S462
5522.....	5S233, 5S251	5644.....	6S254, 6S256	5721.....	7S487, 7S488, 7S490
5523.....	5X230, 5X248, 5X274	5644AT.....	6S254AT, 6S256AT	5724.....	7S432, 7S433, 7S434, 7S449, 7S450, 7S458, 7S459, 7S462
5524.....	5J217, 5J247, 5J255	5645.....	6M292, 6M293	5725.....	7S487, 7S488, 7S490
5524T.....	5J217T	5646.....	6D302, 6D311, 6D326, 6D336, 6D360	5801.....	8S129, 8S154
5525A.....	5I228, 5I237	5647.....	6D312, 6D316, 6D317, 6D337	5802A.....	8A129, 8A154, 8A147, 8A157
5526.....	5R216, 5R226, 5R236	5648.....	6S330, 6S361	5803.....	8M195
5527.....	5M291	5649.....	6S341, 6S362	5804AT.....	8A232, 8A242, 8A244, 8A262
5528.....	5R303, 5R312, 5R316, 5R317, 5R337	5650.....	6M295	5807.....	8S359
5529.....	5S319, 5S320, 5S327, 5S338, 5S339	5651.....	6S301, 6S304, 6S305, 6S306, 6S321, 6S322, 6S340	5808.....	8S443, 8S451, 8S463
5530.....	5M294	5653.....	6J321	5810.....	8S432, 8S433, 8S434, 8S449, 8S450, 8S458, 8S459, 8S460, 8S461, 8S462
5532A.....	5A318, 5A325	5654.....	6J322, 6J357	5902.....	970, 975
5535BT.....	5S313B	5657.....	6D415	5903.....	9S503, 9S514, 9S55
5536.....	5G438, 5G467	5659.....	6D410, 6D411, 6D425	5905.....	9S203, 9S232, 9S242, 9S244, 9S262, 9S263, 9S264
5537.....	5G401	5660.....	6D413, 6D414, 6D426, 6D427, 6D446, 6D455	5905AT.....	9S204AT, 9S232AT, 9S244AT, 9S262AT, 9S264AT
5538.....	5G484	5663.....	6D410, 6D411, 6D425	5906.....	9S365
5539.....	5G441, 5G442, 5G461	5664.....	6S413, 6D414, 6D426, 6D427, 6D446, 6D445	5907.....	9S307, 9S324, 9S344, 9S367, 9S369
5605, 5607.....	808, 809, 860, 861	5672P.....	6H485		
5608.....	812, 816, 817, 819, 962, 1112, 1116	5675.....	6H481		
5609, 5610.....	810, 811, 862, 865, 866, 963, 1115, 1162	5678.....	6S439, 6S469		
5611, 5612.....	814, 815, 864, 1161	5679.....	6J436, 6J463		
5614.....	908, 909, 960, 961, 1117	5696.....	6MN496		
5616.....	660, 666	5701.....	825, 827, 829, 870		

4th Edition

MALLORY RADIO SERVICE ENCYCLOPEDIA

4th Edition

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZEPHYR																		
AA (630,001 & up)	Vol.		4	N				5	19	BB12					4	1A6, 1B4, 1F4	456	
C (AC-DC, 750,001 up)	Vol.		6	L		EX600		8-4	6	2N502					4	78, 77, 43, 25Z5		9-1
DA.....	Vol.		17	N				5	15	BB12					5	1C6, 1A4, 1B5, 30, 19	456	9-1
DB, DF.....	Tone		22	L		6		5	19	BB12					5	1C6, 1A4, 1B5, 30, 19	456	9-1
DB, DF.....	Vol.		17	N				10-20	1	2N519					4	1C6, 34, 1B5, 38	456	
G.....	Tone		22	L				.01		Buffer	B14		245C	C3	4	1C6, 34, 1B5, 38	456	
G.....	Vol.		15	N				8-8	4	See Note	B3				7	6A7, 6K7, 76, 6F5, 42, 6G5, 80	456	
GB, GBE.....	Tone		34	L				5	15	BB12					7	6A7, 6K7, 76, 6F5, 42, 6G5, 80	456	
GB, GBE.....	Vol.		17	N				8-8	1	2N518			245C	C3	5	1C6, 1A4, 1B5, 30, 19	456	10-1
GE.....	Tone		34	L				.01		Buffer	B14				5	1C6, 1A4, 1B5, 30, 19	456	10-1
GE.....	Vol.		15	N				8-8	4	See Note	B3				7	6A7, 6K7, 76, 6F5, 42, 6G5, 80	456	
NT, NTE.....	Tone		34	L				5	15	BB12					7	6A7, 6K7, 76, 6F5, 42, 6G5, 80	456	
NT, NTE.....	Vol.		15	N				4-8-8	3	See Note	B3				10	6K7, 6A8, 6D6, 76, 76B5, 75, 80, 6G5	456	7-1
P (645,001 & up)	Tone		22	L				5	15	BB12					5	6A7, 6D6, 75, 42, 80	456	7-2
P (645,001 & up)	Vol.		17	N				8-8	4	2S567					5	6A7, 6D6, 75, 42, 80	456	7-2
P (645,001 & up)	Tone		22	L				5	15	BB12					5	6A7, 6D6, 75, 42, 80	456	7-2
RKD, RKE, RKSD	Vol.		6	UC510		EX300		15-8	6	2N504					4	6D6, 6C6, 43, 25Z5		
RKD, RKE, RKSD	Vol.		6	UC510		EX300		5-5	15	TN111					4	6D6, 6C6, 43, 25Z5		
TA.....	Vol.		17	UM154	M26		A96	8-8	1	2N518			248	C3	4	6A7, 78, 6B7, 41	456	9-2
TA.....	Vol.		17	UM154	M26			5	15	BB12					4	6A7, 78, 6B7, 41	456	9-2
TSA105.....	Vol.	N1595	18	UM154-SS18	M26			.0125-.0125	24	Buffer	B14				5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT		
TSA105.....	Vol.	N1595	18	UM154-SS18	M26			N1366	24	2N514					5	12A8GT, 12K7GT, 12Q7GT, 35L6GT, 35Z5GT		
V (AC-DC, 285,001 up)	Vol.		6	UC510		6	EX500	8-4	6	2N502					4	77, 78, 43, 25Z5	456	10-2
V (AC-DC, 285,001 up)	Vol.		6	UC510		6	EX500	5-5	15	TN111					4	77, 78, 43, 25Z5	456	10-2
Y (AC-DC, 405,001 up)	Vol.		6	G12		EX500		20-4	6	2N507					4	6D6, 6C6, 43, 25Z5		7-2
Y (AC-DC, 405,001 up)	Tone		22	L				5-5	15	TN111					4	6D6, 6C6, 43, 25Z5		7-2
2M7.....	Vol.		18	N		6	EC240	8-8	1	SR605			292	C3	6	6K7, 6A8, 6Q7, 6F6, 0Z4	177.5	
2M7.....	Vol.		18	N		6	EC240	8-8	1	SR605			294	C3	6	6D6, 6A7, 6Q7, 41, 0Z4	262	10-3
3M7.....	Vol.		18	UC514		6		8-6	1	SR605			294	C3	7	6K7, 6L7, 6C5, 6Q7, 6F6, 0Z4	262	10-3
3M7.....	Vol.		18	UC514		6		8-6	1	SR605			294	C3	7	6K7, 6L7, 6C5, 6Q7, 6F6, 0Z4	262	10-3
4Z (290,001 & up)	Vol.		6	UC510		EX300		15-8	21	2N504					4	78, 6C6, 38, 76		
4Z (290,001 & up)	Vol.		6	UC510		EX300		5-5	15	TN111					4	78, 6C6, 38, 76		
5DA.....	Vol.		17	N				5	19	BB12					5	1C6, 34, 1B5, 30, 19	456	

† Data not substantiated.

IMPORTANT: Read Notes in Note Section if specified in Note Column.

† Indicates miscellaneous section.

MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Refer- ence
	Use	Original Part	Cir- cuit	Correct Replacement	Switch	Bias	*Note	Original Part	Cir- cuit	Correct Replacement	*Note	Original Part	Replac- ement	*Note				
ZEPHYR—Continued																		
5DK (780,001 & up)	Vol. Tone		17 22	N L				4-20 5-5	6 15	2N507 TN111				5	6A7, 6D6, 75, 43, 25Z5	456	9-2	
6G (700,001 & up)	Vol. Tone		17 22	N L				8-8 5	4 15	See Note BB12	B3			6	6A7, 6D6, 75, 76, 42, 80	456	11-1	
6GM (650,001 & up)	Vol. Tone		45 22	N L				8-8 5	4 15	See Note BB12	B3			6	6A8, 6K7, 6I16, 6F5, 6F6, 5Z4	456	11-1	
8J (765,001 & up)	Vol. Tone		17 22	N L				1-8 4-8-8	30 30/13	RM262 CM175				8	6D6, 6A7, 75, 42, 80	456	7-1	
								5	19	BB11								
								5	15	BB12								
8J (765.361 & up)	Vol. Tone		17 22	N L				1-8 1-8-8	30 30/13	RM262 CM175				8	6D6, 6A7, 75, 76, 6B5, 80	456		
								5	15	BB12								
8JM (720,001 & up)	Vol. Tone		118 22	L L				4-8 4-8-8	30 30/13	RM262 CM175				8	6K7, 6A8, 6F6, 5Z4	456		
								5	15	BB12								
								5	19	BB12				5	1C6, 1A4, 1B5, 30, 19	456	8-1	
20A6, 21A6, 22A6 20B6, 21B6, 22B6, 20P6, 21P6, 22P6	Vol. Tone		15 34	N L				4-8 5-5	1 15	2N516 TN111		See Note	C8	5	6D8, 6S7, 6Q6, 38, 6G5	456	8-1	
20X7, 21X7, 22X7	Vol. Tone		15 34	N L				20-20 5-5	1 15	UR192 TN111				6	6A7, 6K7, 75, 43, 25Z5, 6G5, K38B2	456	8-2	
23A5 25B5	Vol. Vol.		15 15	N N				8, 8	1	RS213				5	1C6, 1A5, 1B5, 30, 19 6A7, 6S7, 6T7, 41, 6G5	456	11-2	
25X7	Vol.		15	N				10 20	15 4	BB12 RS207				6	6A7, 6D6, 75, 43, 25Z5, 6G5, L42C	456	10-4	
25Y11	Vol. Tone		15 34	N L				8-8 5-5	2 15	CM172 TN111				11	6K7, 6I7, 6D6, 76, 75, 6B5, 80, 6G5	456	8-2	
30B7	Vol. Tone		15 34	N L				8-8 5-5	1 15	CM172 TN111		See Note	C8	6	6D8, 6S7, 6L5, 6Q6, 38, 6G5	456		
30P7	Vol. Tone		15 34	N L				8-8 5-5	1 15	CM172 TN111		See Note	C8	6	6D8, 6S7, 6L5, 6Q6, 38, 6G5	456		
30X5 30Y9	Vol. Tone		6 34	G12 L		EX300		14-8-5-5 16-16-8-4	1/15 9	UR189 Order from	Mfr.			4	6D6, 6C6, 43, 25Z5			
														8	6L7, 6D6, 76, 6I16, 75, 25B5, 25Z5, 6B5	456		
31X5 31Y6	Vol. Tone		6 15	G12 N		EX300		20-10 40-12-10	1 4	UR192 3N534				3	6D6, 6C6, 25A7, L49C			
								8-8	1	CM172		See Note	C8	6	6A7, 6D6, 6Q7, 25B5, 25Z5, 165L8	456		
32B7	Vol. Tone		15 34	N L				8-8	1	CM172		See Note	C8	6	6D8, 6S7, 6L5, 19	456		
32P6	Vol. Tone		15 34	M L										6	6A7, 6D6, 75, 76, 74B	456		
32X5, 33X5, 34X5 32Y5	Vol. Tone		6 15	G12 N		EX300		16-12 8-4	4 4	CM164 CM172				4	6D6, 6C6, 43, 25Z5		10-7	
								8-4	4	CM172				5	6A7, 6D6, 75, 42, 80	456	10-6	
32Y6	Vol. Tone		15 34	N L				8-4	4	CM172				7	6K7, 6A8, 6Q7, 6F6, 6G5, 80	456	11-3	
33B6	Vol. Tone		15 34	N L				8-8	1	CM172		See Note	C8	6	6D8, 1E5, 21A4, 1J6, 6T7	456		
35X5, 36X5	Vol.		6	G12		EX300		20-8-6-5	1/15	UR182/BB12				4	6D6, 6C6, 43, 25Z5, 185R8		11-4	
35Y12	Vol. Tone		15 34	N L				12 18	4 4	RS215 WE2050				12	6K7, 6A8, 6I16, 6G5, 6G5, 6F6, 5Y3	456	10-11	
36Y12	Vol. Tone	V15 V107	45 147	MR48 MR39				C216 8-8	1 1	WE851 2N518				12	6C6, 6D6, 76, 74Z, 6G5, 80	456	12-2	
								10, 10	15	BB12								
								30-10	1	2N512				4	6K7, 6J7, 25L6, 25Z6		10-8	
39X4 39Y6	Vol. Tone		6 18 22	Z12 MK401 MK401		M26		10, 10	25	BB62				6	6A7, 6D6, 76, 75, 41, 80	456	10-8	
39Y15	Vol. Phono		6 63	MR36 Order from		M26		16-16	1	2N506				4	6D6, 6C6, 25L6G, 25Z5, L55BG		10-10	
40X4 40Y6	Vol. Vol.		6 17	MR29 MR48		M26		12-8-6 16-16-8-4	46 9/13	2N504/BB21 See Note	B3			4	6K7, 6J7, 25L6, 25Z6		11-4	
								16-16-8-4	9/13	See Note	B3			5	6A7, 6K7, 6Q7, 25B5, 25Z5	456	11-4	
40Y8, 40Y8C	Vol.	P2659	18	†			A19	10-10	1	2S568				8	6A7, 6D6, 76, 75, 74I, 80	456	10-10	
41X5	Vol.		6	G12		EX500		16-12	4	CM164				4	6D6, 6C6, 43, 25Z5, L55C			
41X6	Vol.		15	N				16-20	4	UR192				5	6A7, 6D6, 6Q7, 43, 25Z5, BM19B	456		
42X5	Vol.		6	G12		EX500		16-12	4	CM164				4	6D6, 6C6, 43, 25Z5, L49C		10-7	
42X6	Vol.		15	N				16-20	4	UR192				5	6A7, 6D6, 6Q7, 25L6, 25Z5, BM49B	456		
43X5	Vol.		6	G12		EX500		14-8-4-5	1/15	UR182/BB12				4	6D6, 6C6, 43, 25Z5, L55C			
61X6	Vol.		15	N				16-12	4	CM164				5	6A7, 6D6, 75, 43, 25Z5, L49C	456		
61X8	Vol. Tone		15 34	N L				16-12	4	CM164				7	6A7, 6D6, 75, 6G5, 76, 25L6, 25Z5, L49C	456		
62P	Vol.	V6	6	UM128-SS1	M26	EX200		C212	8/15	UR182/BB12				4	6D6, 6C6, 43, 25Z5		11-5	

† Data not substantiated.

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MANUFACTURER AND MODEL	CONTROLS							CONDENSERS				VIBRATORS			No. Tubes	Complete Tube Complement	I. F. Peak	Rider's Reference
	Use	Original Part	Circuit	Correct Replacement	Switch	Bias	*Note	Original Part	Circuit	Correct Replacement	*Note	Original Part	Replacement	*Note				
ZEPHYR—Continued																		
62X8	Vol. Tone		15	N	6			40-10-8	6/13	2N514/BB21					7	6A7, 6D6, 75, 6G5, 76, 25L6, 25Z5, L49C	456	
62X8 (Late)	Vol. Tone	V13, V105	45	MR48	M26			C226	6	BB27					7	6A7, 6D6, 76, 6Q7G, 25H5, 6G5, 25Z5	456 11-5	
63X8	Vol. Tone		15	N	6			C200	6	BB21					7	6A7, 6D6, 76, 6G5, 6F5, 43, 25Z5, L40S	456	
67Y8	Vol. Tone		15	N				C204	13	BB21					8	6A7, 6D6, 76, 6F5, 6G5, 42, 80, WL22	456	
153-5L	Vol.	P2935	18	MR48	M26			16-12	4	CM164					5	6A7, 6D6, 75, 25L6, 25Z5	455 11-6	
352-5R	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455 11-6	
381-711	Vol. Tone	P3335	18	MK 401	M26			P3419	1	FPD231					7	6A7, 6D6, 75, 41, 76, 80	455 11-8	
576-5Q, 577-5Q	Vol.	P3346	18	Order from	Mfr.			P3355	24	2N514					5	12SA7GT, 12K7GT, 12SQ7GT, 50L6GT, 35Z5GT	455 11-9	
605-7C	Vol. Tone	P3335	18	MK 401	M26			10-10	1	FPD231	B117				7	6A7, 6D6, 75, 41, 76, 80	455 11-8	
666-6J to 669-6J inc.	Vol. Tone	P3099	18	MR48	M26			P2936	1	BB25					6	6A7, 6D6, 75, 25L6, 25Z5	455 11-10	
696-6M, 697-6M	Vol. Tone		18	UM154	M26		A96	20-20	1/15	3N534					6	12SK7, 12SA7, 12SQ7, 35L6, 35Z5	455 11-10	

‡ Data not substantiated.

IMPORTANT: Read Notes in Note Section if specified in Note Column.

† Indicates miscellaneous section.

Explanation of Abbreviations (Used in Control Listings, Pages 11 to 395)

Att..... Attenuator Control	L.F. Tone..... Low Frequency Tone Control	Regen..... Regeneration Control
AVC..... Automatic Volume Control	Loc'izr..... Localizer Control	Relay..... Relay Adjustment Control
Band..... Band Adjustment Control	Meter..... Meter Adjustment Control	Screen..... Screen Voltage Control
Bass..... Bass Tone Adjustment Control	Mic..... Microphone Adjustment Control	Sel..... Selectivity Control
Batt..... Battery Voltage Control	Mike..... Microphone Adjustment Control	Sen..... Sensitivity Control
BFO..... Beat Frequency Osc. Control	Mod..... Modulator Control	Sil..... Silencing Control
Bias..... Bias Adjustment Control	Mon..... Monitor Control	Supp..... Suppressor Control
B. Tone..... Bass Tone Control	M. Vol..... Manual Volume Control	Tone..... Tone Control
Cl'ry..... Clarity Control	NSC..... Noise Suppression Control	Tone B'm..... Tone Beam Adjustment Control
Equal..... Equalizer Control	Osc. Adj..... Oscillator Adjustment Control	T. Tone..... Treble Tone Control
Exp..... Expander Control	P.E. Adj..... Phono-Electric Cell Adjustment Control	Tunlgt..... Tuning Light Adjustment Control
Exp. Bias..... Expander Bias Adjustment Control	Phantom..... Phantom Tuning Control	Vol..... Volume Control
Fid..... Fidelity Control	Phono..... Phonograph Pick-up Control	Voltage..... Plate Voltage Adjustment Control
Fidly..... Fidelity Control	Power..... Line Voltage Control	V. R..... Voltage Regulator Control
Fil..... Filament Control	Primary..... Primary Voltage Control	EX100..... EX followed by a numeral indicates that an external resistor of the stated value must be connected between the right hand terminal of the control and the cathode circuit of the receiver.
F.O.G..... Flashograph Adjustment Control	P.U. Adj..... Pick-up Adjustment Control	
Gain..... Gain Control	P.U. Volt..... Pick-up Voltage Control	
H.F. Tone..... High Frequency Tone Control	QAVC..... O.A.V.C. Adjustment Control	
Hum..... Hum Control	Reg..... Regeneration Control	

Trade-Name Quick Reference Chart

Trade-Name See	Trade-Name See	Trade-Name See
Acratone..... Federated Purchaser	Elcc. Research Lab. Erla	Silver King..... Appel & Henderson
Admiral..... Airing	Erla (Erla-Sentinel) Sentinel	Silvertone..... Sears-Roebuck
Aero Products..... Chas. Hoodwin	Eveready..... National Carbon Co.	Sky Hawk..... Airing
Aetna..... Walgreen	Everette Piano..... Orgatron	Sky King..... Airing
Aircastle..... Spiegel, & Radio Prods. Corp.	Gilt Edge..... Airing	Songbird..... Airing
Airline..... Montgomery-Ward	Gloriatone..... U. S. Radio & Television	Sparta..... Simplex
Air Queen..... Airing	Gulbransen..... Wells-Gardner	Sparton..... Sparks-Withington
American Bosch..... United American Bosch	Hudson-Terraplane..... R.C.A.-Victor, Zenith	Spencer..... Truevalue
Apex..... U. S. Radio & Television	Intercean Radio..... Zenith	Spltdorf..... Thomas A. Edison Inc.
Arcadia..... Wells-Gardner	Kadette..... International	Star Raider..... Continental Radio Corp.
Arkay..... R. K. Radio Laboratories	Knight..... Allied Radio Corp.	Stratfield..... Electrical Specialties Exp. Co.
Arvin..... Noblitt-Sparks	Kyletron..... United Reproducers	Synchrophase..... A. H. Grebe & Co.
Audiola..... Fairhanks-Morse	Lafayette..... Wholesale Radio	Tiffany..... Herbert H. Horn
Bel Canto..... Amrad	Meteor..... Airing	Tom Thumb..... Automatic Radio
Bell Tone..... Airing	Motorola..... Galvin	Tone Master..... Airing
Bosch..... United American Bosch	Peerless..... United Reproducers	Transitone..... Philco Radio & Tel. Corp.
Cable-Nelson..... Howard Radio Co.	Pierce-Airo..... Dewald	Truetone..... Western Auto Supply Co.
Case..... Case or U. S. Radio & Tel.	Premier..... Airing	United Air Cleaner..... Sentinel
Clarion..... Transformer Corp.	Radiette..... Keller-Fuller	United Scien. Labs..... Dewald
Comet..... Airing	Radiochron..... Clago	Victor..... R.C.A.
Coronado..... Gamble-Skogmo	Radiotrope..... U. S. Radio & Television	Viking..... Osarka
Croydon..... Airing	Rex..... Airing	Westark..... Allied Radio
	Sentinel..... Sentinel or Erla-Sentinel	Wings..... Goodyear Service

"A" NOTES

- A1**—Shape of shaft unknown. If slotted or tongued see description of Mallory control types UC511, UC512, SRP251, SRP252, SRP282, extension shafts types RS245, RS246, and plug-in shafts (SS types in general parts catalog).
- A2**—This control used on some types of this chassis in place of the first mentioned control.
- A3**—Mechanics of control unknown; select the proper Mallory control having resistance and taper given, or if value is not given, see Note 5. If control is of two sections use a Mallory dual. See Note 1.
- A4**—This control used on later type of this chassis.
- A5**—Resistance value unknown. Measure the overall resistance and taper of the original unit; then select the Mallory type having an equivalent value and taper mechanically suited for the application. See complete control and shaft descriptions in general parts catalog.
- A6**—Use Mallory GG if there is sufficient space; if not, change circuit to use G12. See Circuit No. 6.
- A7**—Circuit was changed during production so as to use a 500M control.
- A8**—This receiver was originally equipped with either a Mallory wire control of 6M ohms, or a carbon control of 30M ohms. Mallory type Y control will replace either of the originals. However, if a wire control is desired, use the Mallory F7.

A9—Space available unknown; if not sufficient for the Mallory DRP119, change the circuit to the ordinary "Ant.-Bias" circuit as shown in Circuit No. 6 and use the Mallory G12 control.

A10—Improved signal attenuation may be obtained by connecting the left-hand terminal of the control to the antenna. This gives the ordinary Bias and Antenna type of control circuit.

A11—Original control is in filament circuit. Change to Circuit No. 2 and use Mallory type G12.

A12—Atwater Kent receivers for which Mallory SRP239 is specified may be serviced with the Mallory silent carbon control type E12 by installing it in the original bakelite control housing.

A13—See instructions in general catalog for use of Mallory No. 7 Switch.

A14—Check original control circuit to ascertain if the minimum bias resistor is included in the original control. If so use the Mallory minimum bias plate on the wire controls, or if a carbon control is recommended, use the adjustable resistor.

A15—Requires the use of Mallory shoulder nut A11260-12 and also the regular nut. Arrange so that control is set back from the panel so as to clear the dial. Mallory extension bushing EB247 may be used.

A16—May require use of Mallory bracket RB248.

A17—Be sure to check the coupling condenser before replacing the control.

A18—Some of these chassis use the Mallory type GG control.

A19—To find the correct Mallory replacement in all tone compensated tap circuits measure the resistance between the left-hand terminal and tap (when facing shaft, terminals at the bottom), and select a tapped replacement control having a similar overall resistance and tapped at a value nearest that of the original control.

When the tap is used in a degenerative circuit or in any application other than that of tone compensation, it is our suggestion that the original control be forwarded to the factory for examination and recommendation by our engineering staff.

If there is any question with regard to a replacement choice in any tapped control application, please forward information as to make and model of the receiver, and the original control; and we will be glad to give a specific recommendation for the Mallory control best suited for the application.

A20—Originally a dual control, this circuit is easily adaptable to the Mallory type G12 control by using Circuit No. 6. Refer to Note 14 when installing the control. If desired, Mallory DRP119 is suitable for this circuit.

A21—This receiver may require a control with a portion of the shaft of smaller diameter to clear the dial; if so, use the Mallory SRP275.

A22—Use the Mallory extension shafts RS242 and RS244. These shafts are attached to the type T control and cut to the proper length, preferably by cutting the shaft of the type T control and the RS242 shaft.

A23—When using the Mallory SRP185 with metal shaft, be sure to ground the shaft near the front of the set by means of a pigtail, if there is any tendency toward oscillation.

A24—Extension shaft required, use RS244 for the 3/16" diameter. For 1/4" diameter use the RS242 or RS243.

A25—If shaft of UC512 control is not of sufficient length use the Mallory type N control and extension shaft RS245.

A26—Some of these chassis use a dual control; Mallory GG is the correct replacement.

A27—Used on the first type of this chassis.

A28—Volume control for radio tuner section.

A29—Volume control for radio amplifier section.

A30—This is a replacement strip to be installed in the original housing.

A31—Parallel the two sections of the Mallory No. 7 switch to prevent overload.

A32—It is suggested that this receiver be changed to use type 36 tubes in the place of the 24 and 26 types, and the 37 in place of the 01A.

A33—Requires Nos. 203 and 212 washers.

A34—"Kennedy" made by Detrola; see Detrola Model 1000.

A35—Controls SRP276 and SRP277 are to be used together and neither is to be used with any other make of control.

A37—Use a K12 control and replace the original knob with a standard 1/4" type.

A38—The antenna section of this control is wired as in schematic No. 4. The other section is wired as follows: The center terminal to type 30 plate, the right-hand terminal to "P" of the audio transformer, and the left-hand terminal to "B" positive. Mallory GK should make a satisfactory replacement. However, the Mallory DRP243 wired with the rear section in the grid circuit of the first A.F. (30), as in schematic No. 15, and the front section wired as in schematic No. 2, will give better attenuation in areas of high signal intensity.

A39—Switch used on later types and model KDC only.

A40—Switch used on volume control only on chassis having a tone control.

A41—Connect left-hand terminal to chassis, center terminal to screen circuit, and right-hand terminal to +67.5 volts (view control from shaft end, terminals down or toward operator).

A42—Cut off the shaft of the SRP251 control flush with the bushing.

A43—Original control was of the inductive type. Replacement with a variable resistance control is highly satisfactory. Connect the left-hand terminal to the antenna and grid, and the center to ground. (Control viewed from the shaft end, terminals at the bottom.)

A44—Original control is a dual; however, only one section is to be used at any one time. The Mallory G7 is a perfect replacement for the antenna shunt section which is most commonly used.

A45—When replacing the tone control, use Mallory Bracket RB249, or file out the hole in the original

mounting bracket. Be sure to use only the left-hand and center terminals of the control.

A46—Original dual control is replaced with single Mallory Y100MP, which is connected as follows: Center terminal to the first audio plate, left terminal to tone condenser and the right terminal through 5,000 ohm resistor to "B" positive.

A47—If the original control is wire and carbon, use Mallory DRP307. If original is carbon in both sections, use DRP244, with front section (nearest the shaft) for the screen circuit, and the rear section for the antenna circuit.

A48—Refer to schematic No. 14. The original control was in the filament circuit. We recommend a change to Circuit No. 14, using a Mallory type "M" control as a shunt across the detector grid coil.

A49—The DRP222 control was originally made with a short shaft for use in the chassis 180 (model 181), and requires the use of two RS242 extension shafts when used in the chassis 100 (model 101).

The DRP222 is now being made with a 7 5/32" shaft to fit the chassis 100. When used in the chassis 180 this shaft should be cut off at a point 1 3/8" from the body of the control.

NOTE—The chassis 100 requires the use of three terminals on the rear (phono) section and only the center and right-hand terminals of the front section.

In some cases better ratio of signal attenuation is obtained by connecting the left-hand terminal of the front section to the antenna so as to obtain a signal attenuation in addition to the bias increase.

A50—The DRP117 is an exact replacement for the Mallory original. The DRP242 control is an exact replacement for the control in the bakelite housing.

A51—Requires Mallory FS251 flexible shaft.

A52—Requires Mallory FS252 flexible shaft.

A53—This control does not require the fixed resistor shunt.

A54—When installing the "CE" control, connect the front section to the antenna circuit and the rear section to the bias circuit. This is the reverse of the original but has been field checked and found to give satisfactory results.

A55—The Mallory No. 14 switch has four terminals which must be connected as follows: One terminal to the chassis, one terminal to the white lead, and one to the black lead with the white tracer. Disconnect the 1,500 ohm resistor from the chassis and connect it between the remaining switch terminal and the remaining lead, which goes to C9 volts and to the grid returns of the 1H4G and 1E7G.

A56—The Mallory DRP114 has a 250 ohm front section for the bias control (circuit 8) and a 5,000 ohm rear section for the antenna control (circuit 2). Original control may have had sections in reverse order.

A57—The original control is two megohms.

A58—Left-hand terminal (control viewed from shaft end, terminals down) must be grounded to the chassis.

A59—The original control has a dummy terminal. This terminal is the junction point of a condenser and a fixed resistor. When using the Mallory replacement solder

together and tape the connections formerly made to this terminal.

A60—May require the use of Mallory EB247 extension bushing.

A61—Can be replaced with standard Mallory control. May require the use of RB248.

A62—After the present stock of SRP281 controls is exhausted, this control will no longer be available. Use the "N" control and EC240 coupler.

A64—Some of the General Motors receivers used three terminals on the antenna section of the original control. This was then changed to two terminals. When using the DRP309 to replace the control having three terminals on the antenna section connect the lead from the antenna coil to the moving arm (center terminal) together with the lead from the antenna.

A65—For emergency replacement use SRP265 control.

A66—Wire the switch so that it is shorted when the control is turned to extreme counter-clockwise position.

A67—Disregard the tap in this replacement.

A68—File the shaft to duplicate the original.

A69—This control requires two Mallory RS242 extension shafts or the EC240 coupler and a suitable length of 1/4" shaft.

A70—This replacement (L) requires a slot to be cut or filed in the shaft of the "L" control, or change of knob to the standard Philco push-on type.

A71—Requires a 100M No. 1 taper or "L" control (subject to the instructions in note 70) for replacement. In some cases a UC511 control is satisfactory.

A72—The EC240 is a 1/4" shaft coupler having an internal sleeve to reduce the diameter to 3/16".

A73—For this replacement we advise a change in the volume control circuit to correspond to Circuit No. 8. Use an A3MP control and a 4,500 ohm fixed resistor in series, in place of the original tapped control.

A74—Due to many variations in both circuit and control, we advise measuring the original control carefully and duplicating with similar Mallory control, or returning the original to Mallory for duplication.

A75—If tone control on the broadcast band is not desired, an "L" control with a No. 7 switch may be used. If tone control is desired, use the SRP284 with a No. 7 switch. The short wave band will then be switched on the extreme right end of rotation. If present circuit leaves dead end of the coil open, rewire to short unused portion of coil.

A76—Improved operation may often be obtained by removing the shunt (6M ohms) resistor across the control and using Mallory E control. In extreme cases, use a Mallory E7 control and connect as in Circuit No. 6.

A77—If original control has 3/16" diameter shaft end, use Mallory RS244 extension shaft.

A78—Replace with an A2MP and an EC240 and a portion of 1/4" shaft taken from the old control.

A79—If trouble with oscillation is encountered in this set, the addition of a 5,000 ohm resistor connected from the antenna to ground will usually effect a cure.

A80—BE SURE to check the series resistor between the screen circuit and "B" positive. If it is NOT a FULL

20,000 ohms or if it is of the carbon type REPLACE it with a WIRE WOUND 20,000 ohm resistor. This will prevent the control from being burned out and the possibility of a dissatisfied customer.

A81—Select a Mallory TRP control of 500,000 ohms total resistance having a tap at the same resistance value (as measured from left-hand terminal) and slot the shaft.

A82—The voltage applied across the SPR261 control should not exceed a maximum of 170 volts. If the voltage exceeds this value, the control will be burned out. **IMPORTANT:** Be sure that the bias on the tubes is at the rated value when using the SRP261 control as a plate voltage regulator.

A83—The Mallory DRP221 control is an exact replacement for the dual control used on the 50, 60, and 70 series receivers, although it is used interchangeably with SRP261 control in the earlier 50 and 60 series. In many cases a change of circuit to the antenna bias type, and the use of the Mallory H7 control will give much better control action.

A85—Because of a tendency toward noisy operation with the present volume control circuit, we recommend a change to circuit 15 using a Mallory "O" control. Connect a 500M ohm fixed resistor between the leads that were soldered to the outside terminals of the original control. Take out the one megohm resistor connected between the grid of the first audio tube (type 27) and the chassis. Install the "O" control as follows: The right-hand terminal to the coupling condenser, the center terminal to the first audio grid, and the left-hand terminal to the chassis. (Control viewed from the shaft end, terminals down.)

A86—The tone control as connected in Circuit 130 has its maximum treble response in the extreme counter-clockwise or normal off position.

A87—If control is single section type, use Mallory UC504.

A88—Ground the cover of the control for this installation.

A89—This control when wired as in the specified circuit has its maximum bass response and switch action (if switch is included) at the extreme counter-clockwise or left position.

A90—Refer to specified circuit and reverse "L" and "R" terminals.

A91—The recommended control requires shunting of its outside terminals with a 1,500 ohm resistor such as Mallory 1HJ1500 to duplicate the resistance value of the original control.

A92—May require use of shoulder nut for mounting.

A93—The Mallory MN control may be used for this replacement. Use the 500M ohm section in place of the one megohm section of the original. The lower resistance value will not affect the performance of the receiver.

A94—To save yourself time and trouble we advise the use of Mallory RS244 extension shaft which allows the use of the old 3/16" knob with an easily obtained Mallory Universal Control. Where the original has a short 3/16" shaft, either drill out the knob or use the later 1/4" type which may be obtained from the set manufacturer.

A95—The original volume control had a 5,000 ohm resistor connected between the two actuating arms of the switch. This or a similar resistor must be connected in the same manner on the Mallory No. 7 replacement switch.

A96—Select proper replacement shaft. See replacement shaft (SS types) description in the Mallory general parts catalog.

A97—The No. 8 switch must be wired so that it is open when in the extreme clockwise position.

A98—The No. 8 switch used in conjunction with this control must be wired so the switch is shorted in the extreme clockwise position.

A99—Connect a 5,000 ohm fixed resistor in series with the right terminal of the replacement control. (Control viewed from shaft side, terminals down.)

A100—The original control has no connection to the resistance on the right-hand terminal. When using the Mallory replacement, remove the wires connected to the right-hand terminal (facing shaft side, terminals down), solder together and tape.

A101—The original control does not have a center terminal. To replace with a Mallory control, connect the center terminal to ground and connect the two wires from the original control to the remaining two terminals.

A102—A 50M ohm resistor must be connected in series with the right-hand terminal (viewing control from shaft end, terminals down) and the original connection.

A103—In some cases, the original control has a 400M ohm stop between the rotor and the right-hand terminal. Check to see if the stop is included in the original control. If so, add a 400M resistor in series with the right-hand terminal and the lead that originally connected to this point. (Viewing control from shaft end, terminals down.)

A104—The original control has a special terminal arrangement as follows: Viewing control from shaft end, the top side of the control has tap 1 and tap 2, and the rotor contact terminal respectively. The lower side of the control has the left-hand terminal, dummy terminal, and right-hand terminal respectively. The dummy terminal on these controls is usually identified by a spot of paint immediately in back of it on the control case.

In connecting the Mallory replacement the wires originally connecting to the dummy terminal should be soldered together and taped.

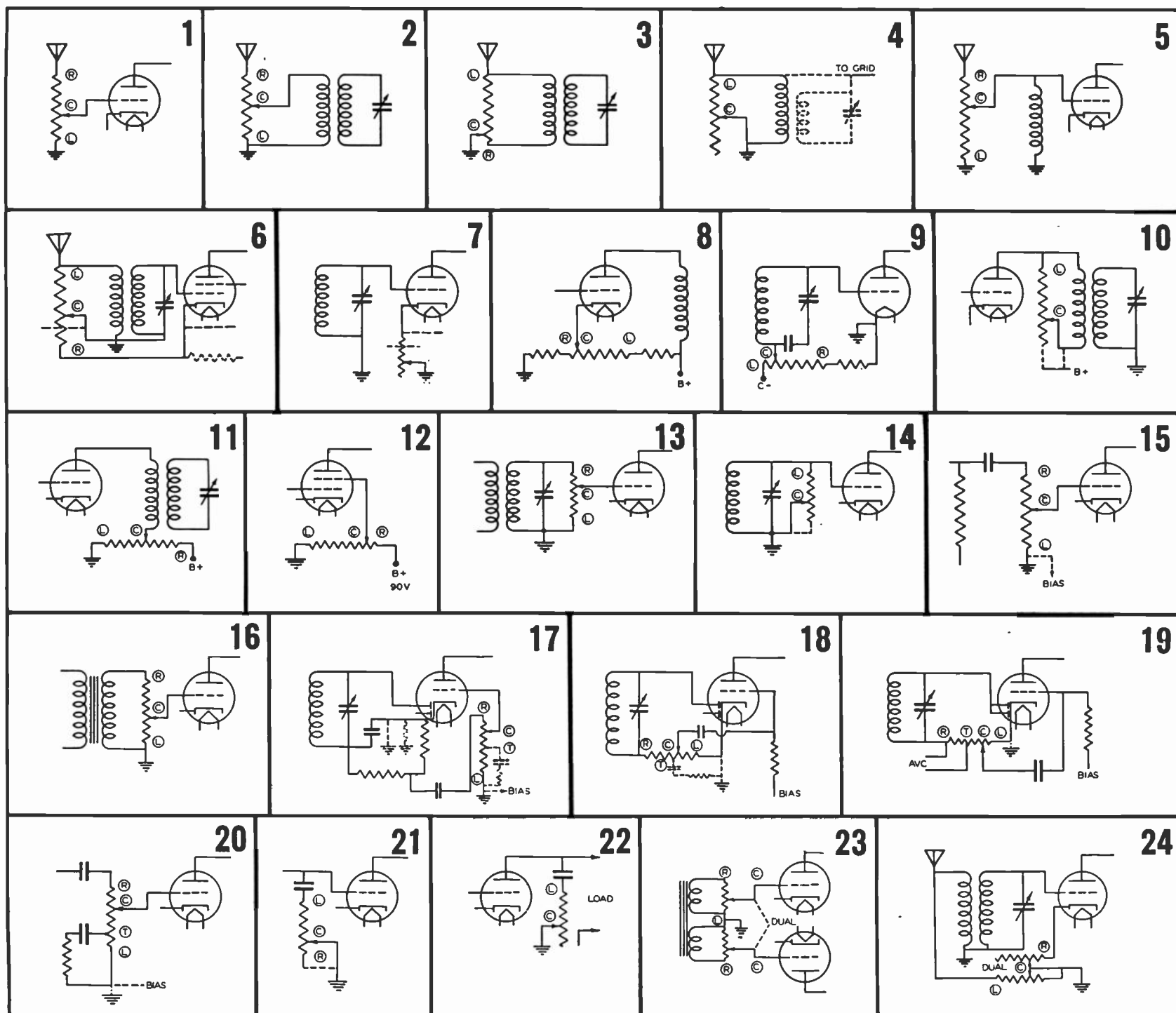
A105—Leads connected to the right-hand terminal (facing shaft side of the control, terminals down) of original control should be soldered and taped together. Disregard the right-hand terminal of the replacement unit.

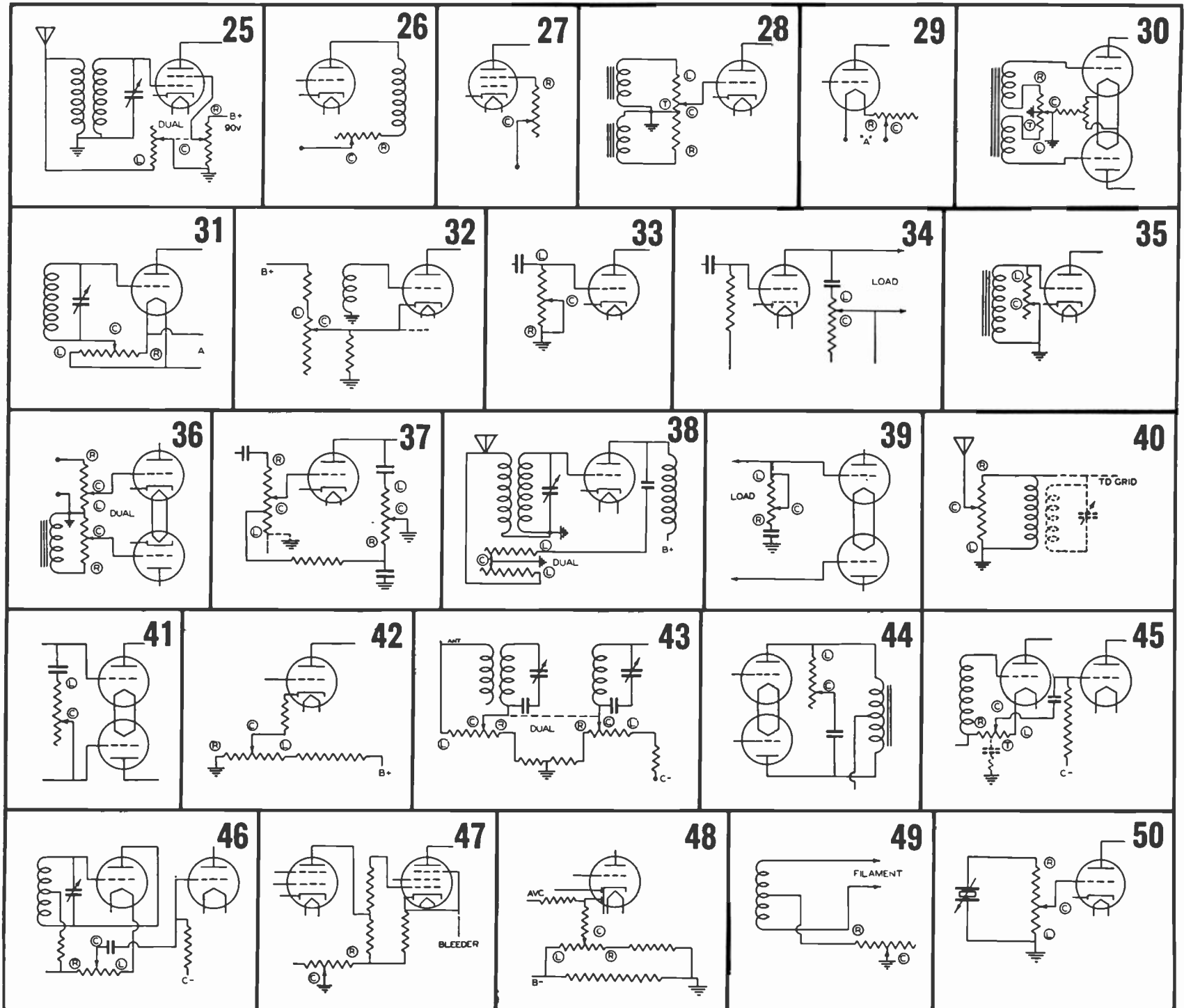
A106—Install a 50,000 ohm resistor in series with the right-hand terminal of the control and the lead connecting to the same terminal of the original control. (Controls viewed from shaft side, terminals down.)

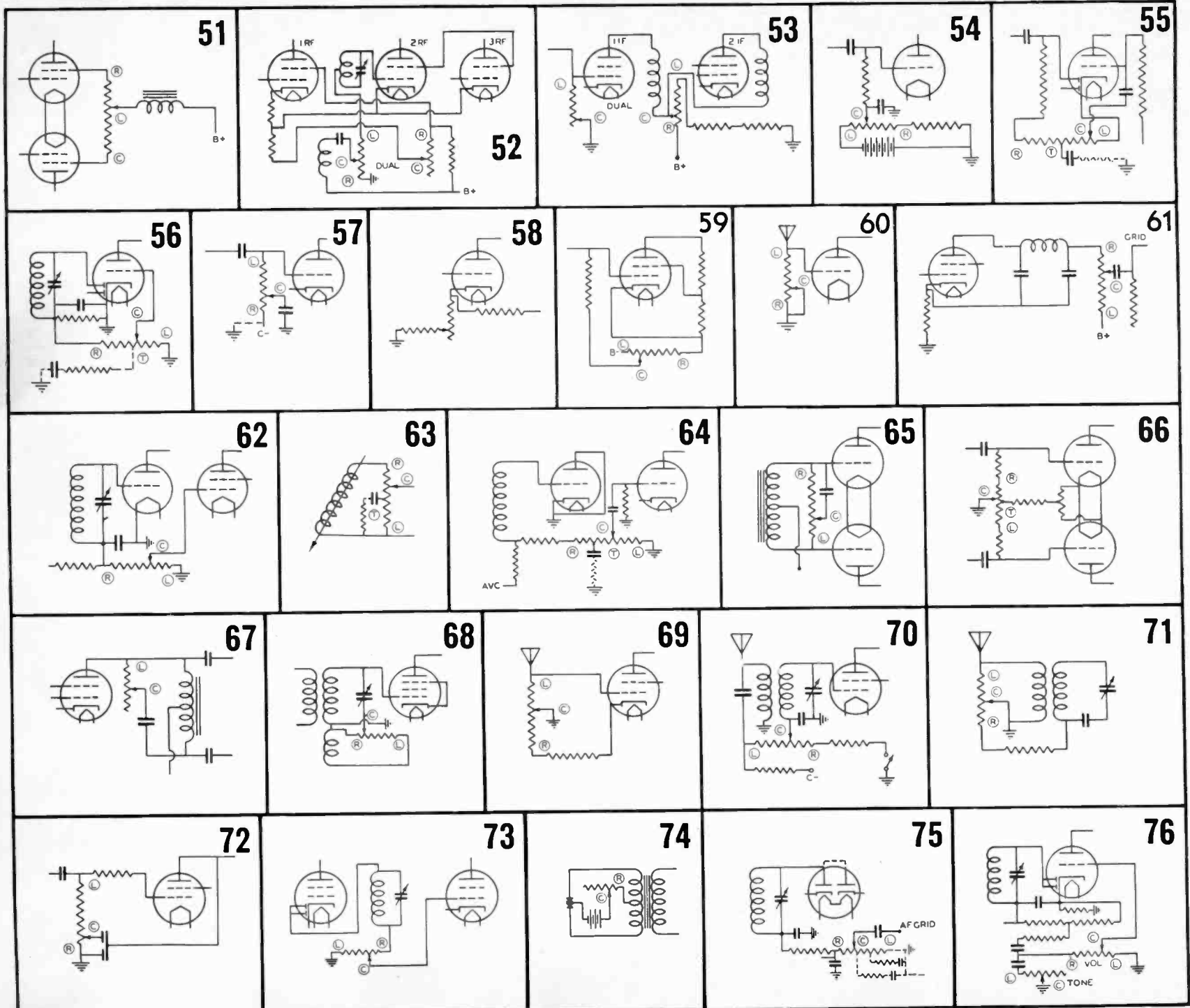
A107—When the present stock is exhausted, this control will be discontinued.

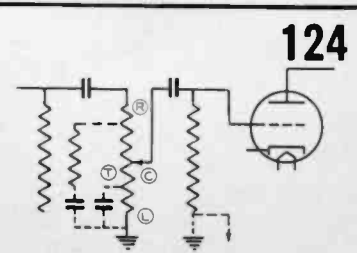
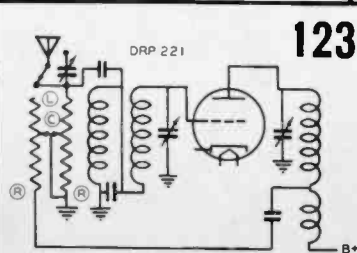
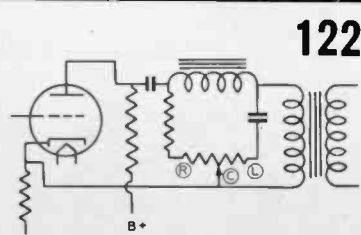
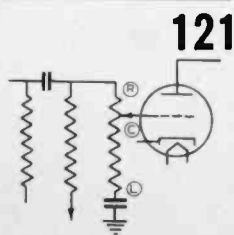
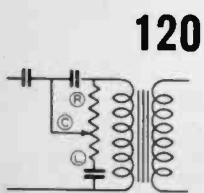
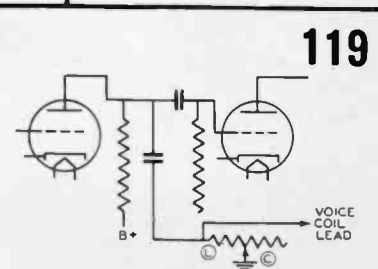
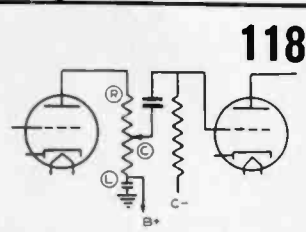
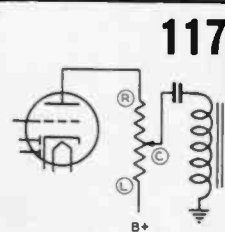
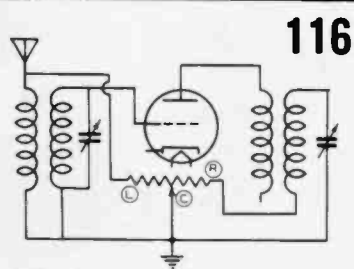
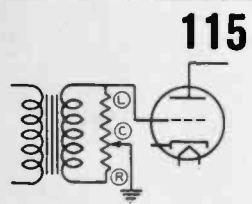
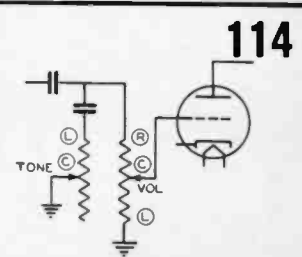
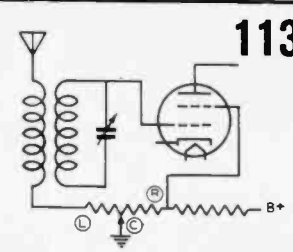
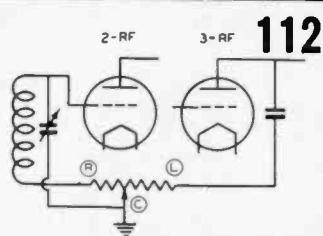
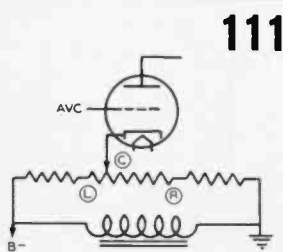
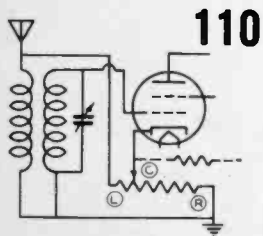
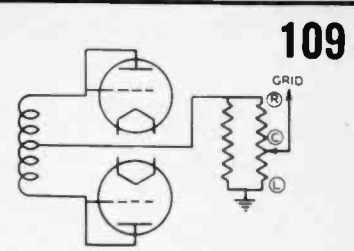
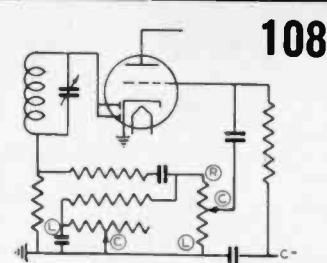
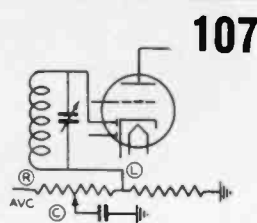
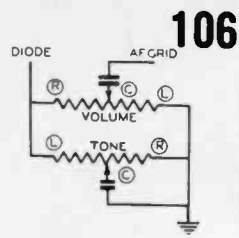
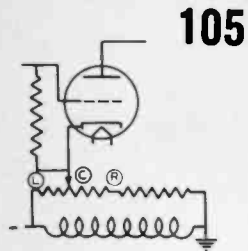
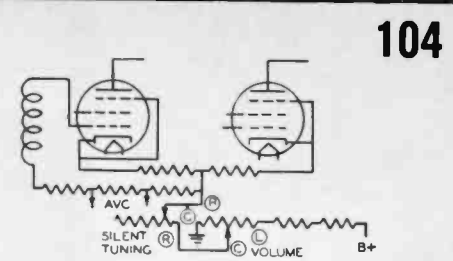
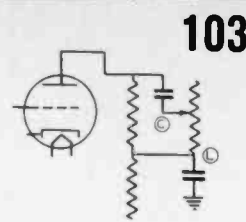
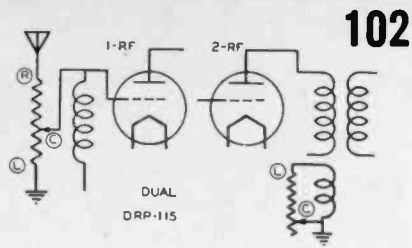
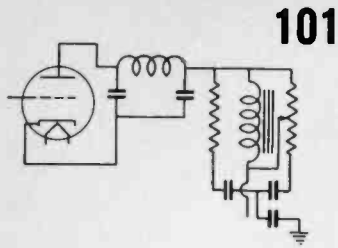
A108—The original control has a dummy tap which is used as a tying point and is insulated from the control. When using the Mallory replacement, solder and tape the wires that originally joined at this point.

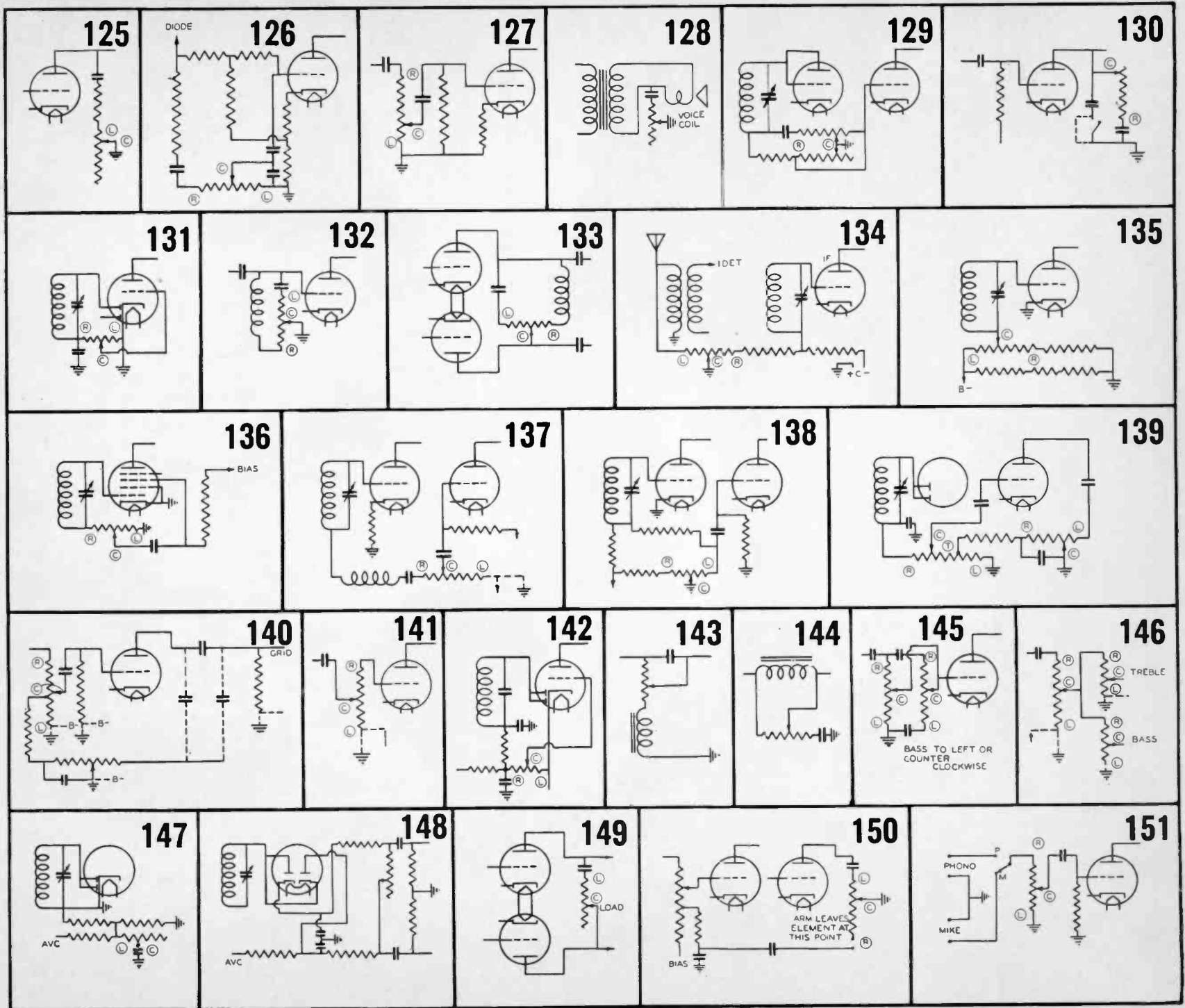
A109—Disregard first tap when installing this control.











"B" NOTES

B1—Originally equipped with paper condensers. Electrolytics of equal or greater capacity are O.K. for replacement. Check voltage to determine proper condenser rating.

B2—Input condenser may be paper type. In such cases we suggest the replacement be made with a paper condenser or Mallory HS or HD high voltage units, the choice being determined by the voltage requirements.

B3—Physical characteristics are unknown. We suggest replacing with equivalent Mallory type of equal or higher capacity. Check voltage for proper rating.

B4—Filter condensers may be of paper; if so, replace with Mallory HS or HD types. Working voltage, capacity, and mounting will determine type.

B5—Use types UR188 or UR189 to replace a combination such as 16-12, 16-8, 12-12, etc. The dual mfd. low voltage units are intended for by-pass circuits and may be connected in parallel (Yellows together) to obtain a single 10 mfd. section. Connect the two Red leads together to obtain the higher capacity filter section. The UR188 and UR189 contain the same capacities and voltage ratings. Select the unit which may be installed most conveniently.

B6—It is not necessary that the cathode by-pass condensers be in the same container as the filter condenser. Mallory BB units are easily installed within the chassis, the wire leads offering firm support.

B7—Originally equipped with paper condensers. Replace with Mallory UB units of proper voltage and capacity.

B8—When a Mallory Multi-section condenser is recommended to replace an original single section condenser, connect the sections in parallel. This gives a capacity that is equal or greater than the original.

B9—This condenser is enclosed in the original block and tunes the filter choke to the ripple frequency. Replace with Mallory TP unit or combination of units giving the same capacity as the original.

B10—This condenser is used only on the later type of this model.

B11—Requires a non-polarized type of electrolytic for replacement. To obtain a non-polarized capacitor use a Mallory 2N type having the same capacity in both sections. Cut off the Black lead close to the container and tape to prevent shorting against chassis. Use the two Red leads as the terminals of the condenser. The resulting capacity is equal to one-half the capacity of one section; i.e., 2N518 will have an effective non-polarized capacity of 4 mfd. at 450 volts. (See Circuit 39 in the "B" condenser circuit section.) Note: the 2S units may also be used by paralleling the sections and then connecting the negative leads together and taping as above.

B12—This additional capacity used on 25 cycle models only.

B13—This power pack is used in many early Mohawk s. Color code of the filter condensers are: Green

2 mfd., Blue 2 mfd., Yellow 1 mfd. In addition there is a .5 mfd. from B positive to B negative. See Note B1.

B14—These condensers are used across the secondary of the vibrator transformer. Replace with Mallory VB or OT type condensers of the same capacity value.

B15—A 16 mfd. condenser is connected between points "B" and "F" of Circuit 31.

B16—Mount in hole in chassis or use Mallory bracket No. 104-1.

B17—Refer to schematic No. 11 and connect UR182 as follows: Black and Brown to points "D" and "E," Red to point "A," Blue to point "B," Yellow to point "C," and Green to point "F."

B18—Refer to schematic No. 6 and connect UR182 as follows: Green, Brown and Black to points "C" and "D," Red to point "A," Yellow and Blue to point "B."

B19—Connect 3S579 and BB13 as follows: Red of 3S579 to original red. Yellow to driver cathode. Green to first audio cathode. Black and Blue to chassis. Positive of BB13 to chassis, negative to high voltage center tap.

B20—This condenser is used only on later models.

B21—Install beneath chassis and connect Red and Yellow leads together to positive, Black and Blue to negative. Leave old unit in place if desired, but be sure to remove leads from it.

B22—Refer to schematic No. 9 and connect 3S582 as follows: Red to point "A," Black and one Yellow to point "B," remaining Yellow to point "D," Blue to points "C" and "E."

B23—When Mallory Stud type condensers such as the SR602, SR605, etc., are recommended to replace condensers of the ring clamp mounting type, the stud may be cut off flush with the top of the can. Be careful not to cut into the can.

B24—Connect as follows: Red to point "A," Yellow to point "B," Black to point "C," Blue to point "D."

B25—Refer to schematic No. 4 and connect CM172 as follows: Red leads together and to points "A" and "B," one Black to point "C," remaining Black to point "D."

B26—Refer to schematic No. 1 and connect as follows: Red to point "A," Yellow to point "C," Black and Blue to points "B" and "D."

B27—Later type used a 16 mfd. condenser in place of the 8 mfd. No. 27585; in which case use the RS216.

B28—There were two types of filter circuits used in this model; the older type used a dual 4 mfd. as first and second filter with an 8 mfd. in the output. The later type used the same combination but with the 8 mfd. as the input condenser.

B29—Refer to schematic No. 1 and connect UR189 as follows: Blue to point "A," both Reds to point "C," Brown, Black and Green to chassis. Connect one Yellow to cathode of output tube, the other Yellow to cathode of detector tube.

B30—Mount the SR611 by means of the metal flange, cut off and disregard the Blue lead. Two CS133 units may be used if desired.

B31—Refer to schematic No. 11 and connect UR182 or UR193 as follows: Yellow to point "A," Red and Blue to points "B" and "C," Green and Brown to points "D" and "E," Black to point "F" (chassis).

B32—Join the Yellow leads together and to B positive, Red lead to Blue lead from switch, Black to plate of 25Z5, Blue to chassis.

B33—Connect as follows: Red and Yellow to points "A" and "B," Black to point "C," Blue to point "D."

B34—Refer to schematic No. 1 and connect one Red to point "A," another Red to point "C," remaining Red to cathode of output tube, Black to chassis.

B35—We suggest the use of UR190 for this replacement.

B36—Refer to schematics Nos. 6 and 15 and connect UR189 as follows: Blue to point "A," both Reds to "B," Brown, Black and Green to chassis at points "C" and "D," one Yellow lead to cathode of detector, remaining Yellow to cathode of output tube.

B37—May require use of condenser bracket No. 104-1.

B38—On some chassis of the model 525 the condenser was in two cartons, the C525C (5 mfd.—25 mfd.) and the C525D (5 mfd.). We recommend the UR182 which replaces both of the units.

B39—Install Mallory condenser in the old can or beneath the chassis.

B40—Connect as follows: Red to rectifier filament, Yellow to junction of resistors in 6C6 plate circuit, Black and Blue to chassis.

B41—Refer to schematics Nos. 1 and 13 and connect as follows: Red to point "C," Yellow to junction of resistors in 6C6 plate supply. Black and Blue to chassis.

B42—Connect as follows: Red to points "A" and "B," one Black to point "C," other Black to point "D."

B43—An .05 condenser was used for buffer on first type only, value of second type unknown.

B44—Models using the F312 vibrator have a .005 mfd. buffer; those using the F221 vibrator have an .04 mfd. buffer.

B45—The original block No. P80902 contained two 4 mfd. condensers and a .1 mfd. paper. Replace with a 2N516 and TP438 connected as follows: one Red of 2N516 to screen circuit, remaining Red to first audio cathode, Black to chassis. Connect TP438 from RF screen to ground.

B46—Substitute TP441 for TP438 and connect as in note B45.

B47—Refer to schematic No. 29 and connect CM175 as follows: Red to point "A," corresponding Black to "B," another Red to point "B," corresponding Black to "C," remaining Red to "D," and Black to "E."

B48—Mount FPQ424 under clamp and connect as follows: 10 @ 450 (■) to rectifier filament, 10 @ 450 (▲) to screen of output tube, 10 @ 450 (▲) to screen of first detector and I.F. tubes, 20 @ 25 (—) to cathode of output tube. Solder wire from common terminal (can) to chassis.

B49—Refer to schematic No. 9 and connect CM175 as follows: one Red to point "A," corresponding Black to point "B," another Red to "B," corresponding Black to point "C," remaining Red to point "D" and Black to "E." Note—In some cases there are two pigtail resistors between the field and point "E" which is connected to the chassis.

B50—Refer to schematic No. 23 and connect RM262 as follows: Blue and Red to points "A" and "B," Brown to point "C," and Black to point "D." If necessary use Mallory bracket No. 104-1.

B51—Refer to schematic No. 29 and connect CM175 as follows: one Red to point "A," corresponding Black to point "B," another Red to point "B," corresponding Black to point "C," remaining Red to point "D" and Black to "E." Note—In this receiver there may be a pigtail resistor between the field and point "E."

B52—Connect the 30 and 10 mfd. sections in parallel. Use a mounting clamp to fasten the condenser to the chassis.

B53—Refer to schematic No. 29 and connect UR190 as follows: one Red of one of the independent sections to point "A," corresponding Black to point "B," Red of the other independent section to point "B," corresponding Black to point "C," one Red of the common section to point "D," the other Red to 6A7 plate supply, Black to ground at point "E."

B54—This chassis is the same as the Majestic 300, 300A.

B55—Red to points "B" and "C," one Black to point "E," other Black to point "F."

B56—Refer to schematic No. 11 and connect RM259 and BB12 as follows: Green of RM259 to point "A," Yellow and Brown to points "D" and "E," Blue and Red to points "B" and "C," Black to "F." Connect BB12 positive to second detector cathode, negative to point "F."

B57—Connect Black leads to chassis; other lead connections are obvious.

B58—Refer to schematic No. 4 and connect RM265 as follows: Red and Blue to points "A" and "B," Black to point "C," Brown and Yellow to point "D," Green to screen circuit.

B59—Refer to schematic No. 1 and connect RM257 as follows: Red to point "A," Black to point "B," Blue and Green to point "C," Brown and Yellow to point "D."

B60—Connect one 8 mfd. section to rectifier side of choke, combine two sections and connect to speaker side of choke, the remaining section to voltage divider at output side of speaker field.

B61—Connect as follows: Yellow to point "A," Red to point "B," Green to cathode of output tube, Black to chassis.

B62—Red to point "A," Yellow and Green to point "C," Black and Blue to points "B" and "D."

B63—Refer to schematic No. 1 and connect RM257 as follows: Brown, Yellow and Black together and tape. Red to choke at point "C," Blue and Green together to point "D." Note—It may be necessary to use a CM164 installed beneath the chassis. See Note B11.

B64—Refer to circuit 74 and connect as follows: Yellow to point "A," Red to point "B," Green and Black to chassis at point "D," Blue to point "C."

B65—If original is in three sections use three RS213.

B66—Red to point "A," Yellow to point "C," Black to points "B" and "D."

B67—Refer to schematic No. 8 and connect RM259 as follows: Green to point "A," Red to point "B," Blue to point "C," Yellow, Brown and Black to points "D," "E," and "F."

B68—Refer to schematic No. 11 and connect RM259 as follows: Green to point "A," Yellow and Brown to points "D" and "E," Blue and Red to points "B" and "C," Black to point "F."

B69—When using an FP type condenser to replace a capacitor having fewer sections, connect sections in parallel to get the required capacities.

B70—This replacement condenser has three sections. One of the two high voltage sections should be left unwired.

B71—Refer to schematic No. 11 and connect the UR190 as follows: Connect the two Red leads (that exit from the same hole in the carton) together and to one of the other Red leads, then connect this assembly to the cathode of the rectifier at point "A;" the three Black leads connect to the line at points "D" and "E," the remaining Red lead connects to the rectifier cathode at point "B."

B72—Refer to schematic No. 29 and connect UR190 as follows: Combine two Reds (that exit from same hole in carton) and connect to point "A," corresponding Black lead to point "B," connect one other Red lead to point "B," corresponding Black lead to point "C," connect remaining Red lead to point "D" and remaining Black to point "E." Point "B" is connected to DC side of switch.

B73—Refer to schematic No. 4 and connect RM262 as follows: Red and Blue to points "A" and "B," Brown to "C" and Black to "D."

B75—Yellow to point "A," Red to point "C," Black and Blue to points "B" and "D."

B76—Refer to schematics Nos. 1 and 15, and connect RM257 as follows: Red to cathode of output tube, Blue to "A," Green to "C," Brown, Yellow and Black to chassis.

B77—We suggest the use of two UR190 condensers connected as follows: Both Red leads of the common section to cathode of 25Z5, the two other Red leads of this condenser together and to cathode of 12Z3. On the other UR190, connect both Red leads of the common section to the output of the choke, one of the remaining Red leads to cathode of 6C6 and the other Red lead to the cathode of 43, all Black leads to negative line.

B78—Red to point "B," Yellow to point "C," Black and Blue to points "E" and "F."

B79—Red to point "A," Yellow to point "C," Green to plate return of first AF, Black and Blue to chassis.

B80—Refer to schematics 1 and 15 and connect RM257 as follows: Red lead to point "C"; Blue lead to IF screen; Green lead to cathode of output tube; Brown, Yellow and Black leads together and to points "B" and "D" (chassis).

B81—Refer to schematic 32 and connect as follows: Red to point "A," Yellow to point "C," Black and Blue to point "D."

B82—Red to point "B," Yellow to point "C," Black and Blue to points "E" and "F."

B83—Refer to schematic No. 3 and connect one section of the MN277 to "A," connect two of the sections together and to point "B," connect the other section to point "C."

B84—Refer to schematics Nos. 1 and 15, connect both Reds to point "A," Blue to "C," Black, Brown and Green to chassis at "B" and "D," one Yellow to cathode of second detector and the other to cathode of output tube.

B85—Mount the Mallory condenser in original can.

B86—Refer to schematic No. 4 and connect RM261 as follows: Red and Blue to points "A" and "B," Brown to "C" and Black to "D."

B87—Red to point "A," Yellow to point "B," Green to point "C," Black and Blue to points "D," "E," and "F."

B88—Refer to schematic No. 27 and connect CM175 as follows: All three Red leads to "A," "B," and "C," two Black leads to "D," "E," remaining Black lead to "F."

B89—Replace with a UR190 mounted beneath the chassis. Refer to schematic No. 29 and connect as follows: one of two Red leads having common exit to point "B"; other Reds together and to points "A" and "D"; Black opposite Reds having common exit to point "C"; one other Black to point "B"; remaining Black to point "E."

B90—Red to point "A," Yellow to point "B," Black to points "C" and "D."

B91—Red and Yellow to points "A" and "B," Blue to point "C," Black to point "D."

B92—Red to point "B," Yellow to rotor of band switch, Black and Blue to chassis.

B93—Red to point "A," Yellow to point "B," Green to chassis, Black to B minus at points "C" and "D."

B94—Refer to schematics Nos. 27 and 15 and connect UR189 as follows: The two Red leads to "A" and "B," Blue to "C," Black and Green to "F," Brown to "D" and "E," Yellow leads together and to cathode of detector.

B95—Refer to schematics Nos. 27 and 15 and connect the UR182 as follows: Red and Blue to "A," "B" and "C," Black and Green to chassis at "F," Brown to line at "D" and "E," Yellow to cathode of detector (or in some cases the first AF stage).

B96—See Note B3; if round can unit can be installed we suggest RM259 for this installation.

B97—Refer to schematics Nos. 1 and 44, connect all Black leads of the UR190 to B—, the two Red leads (with common exit) together and to chassis, one of the remaining Red leads to each side of the choke.

B98—Refer to schematics Nos. 6 and 15 and connect UR189 as follows: Both Red leads to "A," Blue to "B," Yellow leads to cathode of detector and output tubes respectively, Brown, Black and Green to chassis.

B99—The chassis type number is the group prefixing the serial numbers. The first run of this chassis used schematic No. 27 with 16 mfd. from cathodes (in parallel) to line, 8 mfd. from cathodes to chassis and 4 mfd. from 6A8 plate supply to chassis, also a .25 paper across the choke. For the first run, connect UR193 as follows: Refer to schematic No. 27, connect Blue to "A" and "B," Red to "C," Brown to line at "D," "E," Black and Green to chassis, Yellow to 6A8 plate supply. In the second run the cathodes of the 25Z5 were separated thus changing the circuit to schematic No. 11 and the .25 mfd. condenser was removed from across the choke and a separate 4 mfd. tubular connected across the field. For this circuit refer to schematic No. 11 and connect UR193 as follows: Blue to "B," Red to "C," Brown to line at "E," Black and Green to chassis at "F," Yellow to 6A8 plate supply. Use an additional BB20 with positive to "A," negative to "D."

B100—Refer to schematic No. 27 and connect CM175 as follows: All Red leads to "A," "B," "C," two Black leads to "D," "E," one Black lead to chassis at "F."

B101—Red to point "A," one Yellow to point "B," other Yellow to anode grid return of 6A7, Black to chassis.

B102—Use one CM164 and one UR183; refer to schematics Nos. 8, 13, and 15, and connect units as follows: Black leads of CM164 to chassis, one Red lead to each side of the choke, Black and Brown leads of the UR183 to chassis. Yellow to cathode of output tube, one Red to rectifier cathode supplying the field, one Red to 6A7 screen supply.

B103—Reds together and to point "A," Yellow to point "D," Black to point "C."

B104—When AC-DC switch is in AC position the filter circuit is the same as schematic No. 8 with the exception that there is an additional choke connected at point "C." Connect UR182 as follows: Red to point "C," Black to point "F," Yellow to point "A," Blue to point "B," Green to the AC side of the AC-DC switch connected to the speaker field, and Brown to points "D" and "E."

B105—Refer to schematic No. 45 and connect UR190 as follows: One each of the two Red leads (having a common exit from the carton) to points "D" and "E," the Black of this section to chassis at "F," one of the remaining Red leads to point "A," corresponding Black connects to the remaining Red and to point "B," the remaining Black to the chassis at point "C."

B106—Refer to schematics Nos. 4 and 17 and connect RM265 as follows: Red and Blue to points "A" and "B," Black to "C," Brown and Yellow to "D," Green to filament center tap resistor.

B107—Refer to schematic No. 29 and connect CM172 as follows: one Red to point "A," corresponding Black and remaining Red to point "B," remaining Black to point "C." The additional 8 mfd. unit is beneath the chassis and connected Red to point "D," Black to point "E."

B108—Refer to schematics Nos. 8 and 15 and connect RM259 as follows: Blue and Green together to point "C," Red to point "B," Black, Brown and Yellow to chassis at "E" and "F." Connect 2N504 Black to chassis at "D," Yellow to point "A," Red to cathode of output tube.

B109—To replace RC501 refer to schematics Nos. 13 and 15, and connect 2N518 as follows: One Red to osc. plate supply, other Red to cathode of output tube, and Black to chassis. For RC502 refer to schematics Nos. 13 and 14, and connect 2N518 as follows: one Red to junction of 20M ohms and 500M ohms resistors in the first AF plate supply, remaining Red to first AF screen, and Black to chassis.

B110—If the filter and by-pass condensers are all in one block, refer to schematics Nos. 6 and 15, and use UR182 connected as follows: Connect Blue to point "A," Yellow to point "B," Black, Green and Brown together to points "C" and "D," remaining Red to detector cathode.

B111—Red to point "C," Yellow to anode grid return, Cathode, Black and Blue to chassis.

Blue to point "A," Red to point "B," Black "C" and "D."

B113—Connect as follows: Red to point "B," Yellow to point "A," Black to points "D," and "E," positive of BB21 to point "C," negative to point "F."

B114—Refer to schematics Nos. 6 and 15 and connect UR182 and BB12 as follows: Blue to point "A," Red and Yellow to point "B," Black, Brown, Green and negative of BB12 to chassis. Positive of BB12 to cathode of output tube.

B115—Refer to schematic No. 27 and connect as follows: Red, Blue and Yellow to points "A," "B" and "C," Brown and Green to points "D" and "E," Black to chassis at point "F."

B116—Refer to schematics Nos. 3 and 14 and connect HS692 as follows: Red to point "A," Black to point "D," Connect UR191, the two Red leads (with common exit) together and to point "B," corresponding Black to point "E," one of the two remaining Red leads to point "C," the other to the 100-volt tap on the voltage divider, both remaining Black leads to point "F."

B117—This replacement may require the use of a clamp to mount the condenser on the chassis.

B118—Refer to schematic No. 11 and connect UR182 as follows: Yellow to point "A," Red and Blue together and to points "B" and "C," Green and Black together and to point "F," and Brown to point "E." This connection is not the same as the standard described in note 31. However, the wiring used in note 31 is applicable in some cases of noticeable hum.

B119—Refer to circuit 74 and connect as follows: Green to point "A," Red to point "B," Blue to point "C," Yellow and Black to point "D."

B120—Red of 2N504 to point "B," Yellow to point "A," Black to points "D" and "E." One Red of 2N502 to point "C," other Red to cathode of detector, Black to chassis at point "F."

B121—If receiver should be disconnected from the power pack the voltage rises to 900 volts for 9P6 and correspondingly for the other similar power packs, therefore, we advise the use of HS (High Surge) units for replacement.

Schematic No. 47 gives a view of a replacement made with HS carton units.

The by-pass sections of the original may be replaced with larger capacity units of electrolytic type, thereby giving better filtering action at the by-pass point.

The illustration in schematic No. 47 shows an installation of two HS692 and two HS690 condensers replacing the original block.

B122—Red of 2N512 to point "B," Yellow to point "A," Black to points "D" and "E." One Red of 2N502 to point "C," other Red to cathode of detector, Black to chassis at point "F."

B123—Refer to schematic No. 29 and connect CM175 as follows: One Red to point "A," corresponding Black to point "B," second Red to point "B," corresponding Black to point "C," remaining Red to point "D," and Black to "E." In some cases there may be a pigtail resistor between the field and point "E."

B124—Blue of UR193 to original red. Red to original yellow, Yellow to original green, brown, and black; and Green to original black.

B125—Condenser supplied on order. State part, make and model number of receiver.

B126—To replace P80956 refer to schematic 25 and connect RM262 and BB15 as follows: Red of RM262 to point "A," Black to point "C," Blue to point "B," and Brown to chassis. Connect BB15 negative to point "C," and positive to chassis.

B127—To replace P80937 refer to schematics Nos. 14 and 15 and connect 2N516 as follows: One Red to 1F screen, the other Red to second detector cathode, and Black to chassis.

B128—Original is cardboard tube mounted by means of a radial strap. To replace, we suggest the use of an FP type condenser mounted by means of adjustable strap No. 90686.

B129—Since these condensers originally had a screw-socket base, we recommend replacement with a carton beneath the chassis.

B130—May require the use of washer No. A-017.

B131—Reds of 3N526 replace original yellows. Yellow replaces original red. One Red of 2N502 to original green, other Red to original blue, Blacks of both units to chassis.

B132—Reds of 3N526 to original yellows, Yellow to original red. One Red of 2N500 to original blue, other Red to original green. Blacks of both units to chassis.

B133—Original unit was combination of .25 mfd. and .5 mfd. paper, and 8 mfd. electrolytic. Replace with combination of TP420, TP432 and BB12 respectively.

B134—Refer to schematics Nos. 8 and 15 and connect UR189 as follows: Blue to point "A," one Red to point "B," the other Red to point "C," Black, Brown and Green to points "D," "E," and "F," one Yellow to cathode of detector and output tube respectively.

B135—Refer to schematics Nos. 14 and 15 and connect CM172 and TP420 as follows: One Red of CM172 to oscillator plate supply, remaining Red to cathode of first audio tube, and Blacks to chassis. Connect TP420 to the junction of 25M ohms and 250M ohms resistors in the second Detector plate lead, and to the chassis.

B136—The original condenser had two .25 mfd. and one .5 mfd. paper sections, and one 20 mfd. electrolytic. To replace electrolytic section, use BB15, connecting positive to cathode of output tube, negative to chassis.

B137—Refer to schematics Nos. 13 and 14 and connect UR181 as follows: Red lug to driver plate supply, Blue lug to 1F screen circuit, and Green lugs to first AF plate resistor.

B139—Red of 4S715 to cathode of the 25Z5 which supplies plate power, Yellow to junction of filter choke and the 4000 ohm resistor, one Green to cathodes of the 43 output tubes, other Green to cathode of 6C5, Black and Blue to chassis. Connect one Red of 2N502 to cathode of 25Z5 supplying field power, other Red to RF screen, Black to chassis.

B140—Reds of 2N506 to original yellows, Black to chassis. Red of 3N520 to original green, Yellow to original blue, Green to original red, Black to chassis.

B141—Black and Blue of 3S579 to center tap of high voltage winding, Red to screen of first detector, Yellow to first AF plate supply, Green to cathode of output tubes. Positive of BB64 to output side of filter choke, negative to high voltage center tap.

B142—Refer to schematic No. 13 and connect UR181 as follows: Red lug to anode grid supply of first detector, Blue lug to 1F plate supply, Green lugs to screen circuit.

B143—Refer to schematics Nos. 1 and 15 and connect RM259 as follows: Red to point "A," Blue to point "C," Black, Brown and Yellow to chassis, Green to cathode of output tubes.

B144—Connect 3S579 to output screen. Yellow to target of tuning eye, green to cathode of audio driver, Black and Blue to chassis. Connect positive of BB14 to cathode of output tube, negative to chassis.

B145—Yellow to point "A," Red to point "C," Blue to point "B," Black and Green to point "D."

B146—Refer to schematics Nos. 13 and 14 and connect UR181 as follows: Red lug to audio plate supply, Blue lug to IF screen circuit, Green lugs to anode grid supply of first detector.

B147—Refer to schematics Nos. 13 and 14 and connect UR181 as follows: Red lug to second detector plate supply, Blue to IF screen circuit, Green lugs to anode grid supply of first detector.

B148—Refer to schematics Nos. 13 and 14 and connect UR181 as follows: Red lug to driver plate supply, Blue lug to IF screen circuit, one Green lug to first audio screen, remaining Green lug to oscillator plate supply.

B149—Refer to schematics Nos. 13 and 14 and connect UR181 as follows: Red lug to first detector screen, Blue lug to driver plate supply, one Green lug to second detector plate resistor, remaining Green lug to first detector anode grid supply.

B150—Refer to schematics Nos. 13 and 14, connect UR181: Red lug to IF screen circuit, Blue lug to first detector anode grid supply, Green lugs to driver plate supply.

B151—Refer to schematic No. 13 and connect UR181 as follows: Red and Blue lugs to first detector screen circuit, and Green lugs to second detector plate resistor.

B152—Connect Red leads in place of original lugs, Black to chassis.

B153—Refer to schematics Nos. 13 and 14 and connect UR181 as follows: Red lug to oscillator plate supply, Blue lug to RF plate supply, one Green lug to second audio plate supply, and remaining Green lug to second detector plate resistor.

B154—Refer to schematic No. 11 and connect UR182 and CS133 as follows: Yellow of UR182 to point "A," Red and Blue to points "B" and "C," Green and Brown to points "D," and "E," Black of UR182 and CS133 to point "F," Red of CS133 to osc. anode resistor.

B155—Refer to schematic No. 27 and connect UR182 as follows: Blue, Red and Yellow together and to points "A," "B," and "C," Brown to points "D," "E," and Black and Green together and to point "F."

B156—These two 4 mfd. sections are contained in the same unit with several small capacity condensers of the paper type. For the replacement of the filter section use a non-polarized unit as in note B11. The 4 mfd. by-pass section may be replaced with BB11 installed at socket.

B157—Refer to schematic No. 50 and connect RM257 as follows: Red to point "A," Black to point "C," Blue and Green together to point "B," Brown and Yellow to point "D."

B158—These condensers are contained in a capacitor block with several small paper condensers. To replace these units we recommend for external replacement a CM175 connected as follows: Two Reds to points "A"

and "B," one Black to point "C," two remaining Blacks to point "D," remaining Red to screens.

B159—Refer to schematics Nos. 6 and 15 and connect RM259 as follows: Red to point "A," Blue to point "B," Black, Brown and Yellow to points "C" and "D," Green to cathode of output tube.

B160—The original block contained two 10 mfd. electrolytics and a .5 mfd. paper. Replace with 2N518 and TP431. Connect one Red of the 2N518 to the screen of output tubes, the remaining Red to the cathode of detector tube, Black to negative line. TP431 replaces the coupling condenser between the 37 plate and the interstage transformer.

B161—Use 4S718 and BB13 and connect as follows: Red of 4S718 to RF screen. Yellow to driver plate supply, one Green to first audio cathode, other Green to driver cathode, Black and Blue to chassis. Connect BB13 positive to chassis, negative to high voltage center tap.

B162—Use 3S579 and BB13 and connect as follows: Red to RF screen. Yellow to the junction to the two resistors in the first AF plate supply, Green to first AF cathode, Black and Blue to chassis. Connect BB13 negative to high voltage center tap, positive to chassis.

B163—Refer to schematics 9 and 13 and connect as follows: All Blacks to chassis, one Red each to points "A," "B," "D," and to input plate of the 25B5. Connect BB31 negative to point "B," positive to point "A."

B164—Refer to circuits 2, 13, and 44, and connect as follows: all Blacks of UR191 to chassis. Two Reds to point "A," one Red to point "C," and one Red to plate return of the 55 triode section. Positive of BB21 to chassis, negative to bias supply.

B165—Refer to schematics Nos. 15 and 19 and connect CM172 as follows: One Black to transformer center tap, corresponding Red to chassis, remaining Red to first AF cathode, Black to chassis.

B166—This block contains the filter condensers and the output choke and condenser. When replacing by section be sure to leave output assembly intact.

B167—For replacement of this entire block, we recommend purchase of original block from manufacturer. However, in case of emergency, the block may be taken apart and replacement accomplished by using the 2N518 unit or exterior application may be made. Precaution should be taken to preserve the original block wiring, not affected by the replacement.

B168—When using the FPQ426 to replace original part 119-88, the wires which originally were attached to terminal (▲) should be connected to the can of the FPQ426. Terminal (▲) of the FPQ426 may be left unwired, or it may be connected in parallel with the unmarked terminal.

B169—This condenser is contained in a block with several paper condensers and this replacement is suggested to replace this section only and the rest of the block must be left in the receiver as connected.

B170—Refer to schematics Nos. 27 and 19 and connect RM259 and BB12 as follows: Red, Blue and Green of RM259 together and to points "A," "B" and "C," Black and Yellow together and to points "D" and "E," Brown to point "F." Connect BB12 positive to output tube cathode, negative to resistor tap in output tube grid circuit.

B171—Refer to schematics Nos. 9 and 15 and connect UR190 and CM172 as follows: One Red of common negative section of UR190 to point "B," remaining Red to point "A," Black to point "C," Red of one independent section to point "A," Black to point "B," remaining Red to point "D," Black to output cathode. Connect CM172, Blue to point "D," Brown to point "E," Red to output cathode, Black to point "E."

B172—Connect UR189 as follows: One Red to rectifier cathode, Green and Black to negative line, remaining Red to RF screens, Blue to output plate supply, Brown and both Yellow to output cathode.

B173—For replacement of this entire block we advise purchase of a duplicate from the manufacturer. In case of emergency, the block may be taken apart and replacement accomplished by using the 2N518 unit. Wiring to parts of the block not affected by the replacement should be left intact.

B174—This assembly contains an 8 mfd. electrolytic, a .5 mfd. and a .25 mfd. paper condenser and the driver transformer. We advise the CS133 unit for external replacement of the 8 mfd. section.

B175—Ground lug with Black dot (negative) to chassis.

B176—Refer to schematics Nos. 13 and 15 and connect CM175 and BB42 as follows: One Red of CM175 to output plate supply, second Red to anode grid, remaining Red to screen supply, Blacks to chassis. Positive of BB42 to detector cathode, negative to chassis.

B177—Refer to schematics Nos. 13 and 15 and connect 3S579 as follows: Red to first AF plate supply, Yellow to RF screen supply, Green to first AF cathode, Blue and Black to chassis.

B178—Refer to schematics Nos. 14, 15 and 19 and connect 2N516 and BB12 as follows: one Red of 2N516 to first Audio cathode, other Red to RF screens, Black to chassis. Positive of BB12 to chassis, negative to power transformer HV. center tap.

B179—Refer to schematics Nos. 13, 14 and 19 and connect 2S567 and BB13 as follows: Red of 2S567 to screen circuit, Yellow to second det. plate supply, Black and Blue to chassis. Positive of BB13 to chassis, negative to power transformer HV. center tap.

B180—Refer to schematics Nos. 9 and 15 and connect CM175, CM170 and BB15 as follows: One Red to CM175 to point "A," corresponding Black to point "B," another Red to point "B," remaining Black to point "C," remaining Red to point "A." Red of CM170 to point "D," corresponding Black to cathode of output tube, remaining Red to RF screen circuit, Black to point "E." Positive of BB15 to output cathode at tube socket, negative to point "E."

B181—Refer to Circuits Nos. 1 and 15 and connect as follows: Reds of 2S562 together to point "A," Black and Blue to chassis. Red of 2N504 to point "C," Yellow to cathode of output tube, Black to chassis.

B182—The UR182 replacement has higher capacity values than the original. However, the UR182 will not cause any change in the operation of the set.

B183—Refer to schematics 12, 13 and 19 and connect 2N516 and BB17 as follows: One Red of 2N516 to screen of AF output, remaining Red to RF screen, Black to chassis. Connect BB17 positive to chassis, negative to B minus.

B184—This condenser is connected between points "B" and "D" in circuit No. 54.

B185—Refer to schematic No. 11 and connect RM257 as follows: Blue to point "A," Red and Green to points "B" and "C," Black and Brown to points "D" and "E," Yellow to point "F."

B186—Refer to schematic No. 52 and connect RM259 and BB12 as follows: Red and Green of RM259 to point "A," Black and Yellow to point "D," Blue to point "B," Brown to point "E." Connect BB12 positive to point "F," negative to point "D."

B187—Original condenser has three lugs, one of which is grounded to chassis. The SR639 has this connection made internally.

B188—Refer to Circuits Nos. 1 and 19 and connect 3N534 as follows: Yellow to point "A," Red to point "C," Black to B minus at points "B" and "D," Green to chassis.

B189—Refer to schematics Nos. 24 and 15 and connect UR189 as follows: Both Reds to point "A," Blue to point "B," Black, Brown and Green to points "C" and "D," one Yellow to output cathode, remaining Yellow to det. cathode.

B190—Refer to schematic 9. Connect the positive wire of the BB25 to point "A," the negative wire to point "B." Connect one Red wire of the 2N509 to point "B" and the other Red wire to point "D." Black wire to points "C" and "E."

B191—Refer to schematics Nos. 1 and 13 and connect RM259 as follows: Red to point "A," Black to point "B," Blue to point "C," Brown to point "D," Green to original by-pass lead, and Yellow to chassis.

B192—The by-pass section should be left unwired in this replacement.

B193—Refer to circuits Nos. 1 and 15 and connect as follows: Yellow to point "A," Red to point "C," Black to B minus, Green to cathode of output tube.

B194—This model originally used two 8 mfd. carton type condensers. If both units are defective, CM172 affords an ideal replacement.

B195—The filter condenser for this receiver is contained in a block which is of the plug-in type. We advise replacing the defective sections with Mallory carton type units of the same voltage and capacity beneath the chassis.

B196—When two units are specified for a non-polarized replacement, connect the negative leads together and tape. Use the two positive leads for wiring into the circuit. Also see Note B11.

B197—This replacement requires an insulating tube. Use a mounting clamp to fasten the condenser on the chassis.

B198—Refer to schematic No. 25 and connect CM172 as follows: One Red to point "A," corresponding Black to point "C," other Red to point "B," corresponding Black to point "D."

B199—One Red to point "A," corresponding Black to point "C," other Red to point "B," corresponding Black to point "D."

B200—Refer to schematics Nos. 30 and 14 and connect as follows: the two Red leads (having common points "A" and "B," and corresponding Black

to points "D" and "E" one remaining Red to point "C," the other to the IF plate supply, both remaining Blacks to chassis at point "F."

B201—Refer to schematics Nos. 3 and 13 and connect UR191 as follows: One Red each to points "A," "B," and "C," remaining Red to first AF plate supply, all Black leads to chassis (points "D," "E," and "F").

B202—Refer to schematic No. 25 and connect CM172 and BB15 as follows: one Red of CM172 to point "A," other Red to point "B," one Black to point "C," and other Black to point "D." Connect BB15 positive to point "D," and negative to point "C."

B203—Refer to schematic No. 57 and connect CM175 as follows: one Red to each of the following points: "B," "D," and "G." Blacks to point "H" (chassis).

B204—Refer to schematic No. 57 and connect CS131 and CM172 as follows: Red of CS131 to point "A," one Red of CM172 to point "C," remaining Red to points "E" and "F," all Blacks to point "H" (chassis).

B205—Refer to schematic No. 56 and connect CM175 as follows: two Red leads to point "A," the two corresponding Black leads to point "C," remaining Red to point "B," remaining Black to point "D" (chassis). This unit may be installed in the original case.

B206—Refer to schematic No. 30 and connect CM175 as follows: One Red to point "A," corresponding Black to point "D," another Red to point "B," corresponding Black to point "E," remaining Red to point "C," remaining Black to point "F" (chassis).

B207—Refer to schematics Nos. 8 and 15 and connect RM257 and BB12 as follows: Blue of RM257 to point "A," Red to point "B," and Green to point "C." Connect Brown, Yellow and Black together and to points "D," "E" and "F." Connect BB12 positive to AF output cathode and negative to point "F."

B208—To replace with CM175 and BB15, connect as follows: Connect one Red of CM175 to center tap of output transformer, another Red to the driver plate supply, remaining Red to IF plate supply, all Blacks to chassis. Connect BB15 positive to driver cathode, negative to chassis.

B209—Connect 2N516, one Red to "B" plus 135V., other Red to RF screen, and Black to chassis. Some models used a non-polarized filter condenser. 2N516 is satisfactory for this replacement if the proper battery polarity is observed. Be sure to check this point, as a reversal of polarity may result in serious damage to the receiver.

B210—Refer to schematics Nos. 8 and 15 and connect UR182 and BB12 as follows: Connect Yellow of UR182 to point "A," Blue to point "B," Red to point "C," Black, Brown and Green together and to points "D," "E" and "F." Connect BB12 positive to output tube cathode, negative to point "F."

B211—This replacement requires the use of an insulating tube.

B212—This condenser is connected between points "C" and "B" in circuit 25.

B213—Refer to schematic No. 25 and connect RM261 and BB15 as follows: Red of RM261 to point "A," Blue to point "B," Black to point "C," and Brown to point "D." Connect BB15 positive to point "D," and negative to point "C."

B214—Refer to schematics Nos. 11 and 15 and connect UR182 and BB12 as follows: Connect UR182, Yellow to point "A," Blue and Red together and to points "B" and "C," Green and Brown together and to points "D" and "F," and Black to point "E." Connect BB12 positive to detector cathode and negative to point "F."

B215—Refer to schematic No. 11 and connect RM257 as follows: Blue to point "A," Green and Red to point "B," Black, Brown, and Yellow to points "D" and "E."

B216—In some cases this condenser is a single 8 mfd. unit; we recommend the use of RS213 for these cases in place of RM262.

B217—This replacement must have the two high capacity sections connected in parallel to obtain the required capacity.

B218—Refer to schematic No. 11 and connect 3S582 as follows: Red to point "A," Yellows to point "B," Black and Blue to point "D." To replace second condenser connect 2N516, one Red to point "C," other Red to osc. anode grid supply, Black to point "F."

B219—Refer to schematics Nos. 1 and 15 and connect SR611 as follows: One positive 8 mfd. lug to point "A." The other positive 8 mfd. lug to point "C." Black lead to points "B" and "D," Blue lead to second AF cathode. It may be of assistance in installing if the leads of the old unit are cut close to the carton and these leads used for connecting the new unit.

B220—This replacement requires an insulating tube. The by-pass section should be left unwired. The two 50 mfd. sections should be wired in parallel.

B221—Refer to schematics 27 and 15 and connect UR182 as follows: Red and Blue leads together and to points "A," "B," "C." Brown lead to points "D," "E." Black and Green leads together and to point "F" (chassis) and Yellow lead to detector cathode.

B222—The two 40 mfd. sections should be connected in parallel to give the required capacity.

B223—This replacement requires the use of adjustable strap No. 90686.

B224—This replacement requires an insulating tube and a clamp to mount the condenser on the chassis. The two high voltage sections should be wired in parallel to give the required capacity.

B226—The use of two UR182 condensers is recommended for this replacement. Refer to schematic 64 and connect as follows: Both Blue leads and one Red lead to point "A"; remaining Red lead to point "B"; both Yellow leads to point "C"; both Brown leads and both Green leads to point "D"; and both Black leads to point "E." The following color code replacement is applicable to the Detrola Model 1200. Both Yellow leads together replace the original Yellow lead. Both Green leads and both Brown leads together replace the original Black lead. Both Blue leads together replace the original Red lead. The two Red leads replace the two original lugs marked +8. Both Black leads together replace the original lug marked - (neg). The Mallory terminal connector A-016 is helpful for ease of installation.

B227—Install the MN278 unit with the 9 mfd. sections in parallel, and wire in as a three section condenser.

B228—Refer to schematic No. 4 and connect CM175 as follows: All Red leads together and to points "A" and "B," one Black lead to point "C," and the two remaining Black leads to point "D."

B229—Refer to schematics No. 26 and 14 and connect UR191 as follows: One of the two Red leads having common exit to the IF screen, the remaining Red lead of the common section together, with the Red leads of the independent sections to points "A," "B," and "C." Connect the Black lead of the common section to point "F," and the remaining Black leads to points "D" and "E."

B230—This unit contains a 16 mfd. electrolytic and two paper dielectric sections. Replacement of the electrolytic section with a Mallory BB15 mounted at the output tube socket is recommended.

B231—Refer to schematic No. 1 and connect CM175 as follows: Two Red leads to point "A," remaining Red lead to point "C" and Black leads to points "B" and "D" (chassis).

B233—Refer to schematic No. 59. The condenser connected between points "A" and "D" is a 4 mfd. paper, the condenser connected between points "B" and "E" is an 8 mfd. electrolytic. There are two condensers connected in parallel between points "C" and "F," an 8 mfd. electrolytic and a 4 mfd. paper. We recommend replacement of the two 4 mfd. sections with a 2N518 unit. The 8 mfd. electrolytics are easily replaced with CS133 units.

B234—Refer to schematic No. 57 and connect CS131 and CM172 as follows: Red lead of CS131 to point "A," Black lead to point "H," one Red lead of CM172 to point "C," remaining Red lead to point "E," "F," and Black leads to point "I."

B235—Refer to schematic 67 and connect RM257 as follows: Red lead to point "A," Black, Brown and Yellow leads together and to point "B," Green and Blue leads together and to point "C."

B236—Refer to schematic No. 1 and connect MN275 as follows: One terminal to point "A," remaining two terminals together and to point "C." In some cases a 2 1/2" diameter can with 5 and 15 mfd. sections may have been used. Replace this unit with the Mallory type MN273.

B237—Refer to schematic No. 28 and connect RM265 as follows: Red lead to point "A," Blue lead to point "B," Green lead to point "C," Black lead to point "D," Brown lead to point "E" and Yellow lead to point "F."

B238—Refer to schematics 1 and 19 and connect CM172 and BB12 as follows: One Red of CM172 to point "A," other Red to point "C," Black leads of CM172 and negative of BB12 to points "B" and "D," positive of BB12 to chassis.

B239—Refer to schematics 1 and 19 and connect CM172 and BB12 as follows: One Red lead of CM172 to point "A," other Red lead to point "C," Black leads of CM172 and negative of BB12 to points "B" and "D," Positive of BB12 to chassis.

B240—Substitute BB15 for BB12 and connect as directed in note B239.

B241—Refer to schematics 1 and 15 and connect CM175 and BB12 as follows: One Red lead of CM175 to point "A," the two remaining Red leads to point "C,"

and Black leads to points "B," "D." Connect positive of BB12 to output tube cathode and negative lead to chassis.

B242—Refer to schematics 1, 13, and 15 and connect 3S584 and BB12 as follows: Red lead of 3S584 to point "A," one Yellow lead to point "C," the remaining Yellow lead to the oscillator plate supply and the Black and Blue leads to points "B," "D." Connect BB12, positive to output tube cathode and negative to chassis.

B244—Refer to schematics 1 and 15 and connect 3S584 and BB12 as follows: Two Yellow leads of 3S584 to point "A," Red lead to point "C," Black and Blue leads to points "B," "D." (Caution: this lead is not to chassis.) Connect the positive lead of BB12 to the output tube cathode and the negative to the Black lead of 3S584.

B245—Refer to schematic No. 3 and connect RM265 as follows: Red and Blue leads to point "A," Green lead to point "B" and Black, Brown, and Yellow leads to points "D," "E," and "F."

B246—These filter sections are contained in a block with several small paper dielectric by-pass sections. We recommend external replacement of the defective filter section, or sections, with CS type units of the proper capacity, or the purchase of a complete block from the original manufacturer.

B247—The filter condensers are in a large plug-in type block with connections as follows (starting with the large pin opposite the grounding pin and proceeding in a clockwise direction): Pin No. 1-negative 16 mfd. second filter and negative 8 mfd. power tube bias by-pass; Pin No. 2-positive 4 mfd. 350V 1AF plate filter; Pin No. 4-positive 8 mfd. 100V first detector cathode by-pass; Pin No. 5-common negative to all pins except Nos. 2 and 8; Pin No. 6-positive 4 mfd. 100V 1AF cathode by-pass; Pin No. 7-positive 4 mfd. 100V driver tube cathode by-pass; and Pin No. 8-positive 16 mfd. second filter. In 25 cycle models Pin No. 8 is positive 20 mfd. In an emergency individual sections may be replaced with Mallory carton type units of proper capacity and voltage ratings mounted beneath the chassis. However for complete replacement we recommend the purchase of an entire block from the set manufacturer.

B248—Filter capacitors are in a large plug-in block with connections as follows: Pin No. 1—8 mfd. 450V first filter; Pin No. 2—4 mfd. 450V power screen by-pass; Pin No. 3—4 mfd. 450V (60 cycle) or 12 mfd. 450V (25 cycle) filter output; Pin No. 4—8 mfd. 20V LF cathode by-pass; Pin No. 5 common negative; Pin No. 6—4 mfd. 20V, 55 cathode by-pass; Pin No. 7—4 mfd. 450V second filter. In an emergency individual sections may be replaced with Mallory carton type units of the proper voltage and capacity ratings mounted beneath the chassis. However, for complete replacement we recommend the purchase of an entire block from the set manufacturer.

B249—These condensers are contained in a large plug-in type block. The connections are as follows (starting with the large pin opposite the grounding pin and proceeding in a clockwise direction): Pin No. 1-negative 16 mfd. 450V and negative 8 mfd. 100V; Pin No. 2-positive 4 mfd. 350V 1AF plate filter; Pin No. 3-positive 16 mfd. 450V third filter; Pin No. 4-positive 8 mfd. 100V IF cathode by-pass; Pin No. 5-common negative for all pins except Nos. 2 and 8; Pin No. 6-positive 4 mfd. 100V, 1AF cathode by-pass; Pin No. 7-positive

4 mfd. 250V driver bias by-pass; Pin No. 8-positive 16 mfd. 450V, second filter. In an emergency individual sections may be replaced with Mallory carton type units of proper voltage and capacity ratings mounted beneath the chassis. However, for complete replacement we recommend the purchase of an entire block from the set manufacturer.

B250—Refer to schematic No. 4 and connect CM175 as follows: one Red to point "A"; corresponding Black to point "C"; remaining Red leads to point "B"; and remaining Black leads to point "D."

B256—Red to point "A," Yellow to point "B," one Green to cathode of detector, remaining Green to cathode of output tube, Black and Blue to chassis. BB21 positive to output tube screen, negative to chassis.

B259—Refer to schematics 4 and 13 and connect UR182 as follows: Blue and Red leads to points "A" and "B"; Brown lead to point "C"; Black and Green leads to point "D"; and Yellow to detector cathode.

B260—Refer to schematic No. 11 and connect RM257 as follows: Blue to point "A"; Green and Red to points "B" and "C"; Brown and Black to points "D" and "E"; Yellow to point "F."

B261—Refer to schematic 23 and connect as follows: Red and Green to point "A"; Blue to point "B"; Black and Yellow to point "C"; Brown to point "D."

B264—Refer to schematic No. 11 and connect UR193 as follows: Yellow to point "A"; Red and Blue to points "B" and "C"; Green and Brown to points "D" and "E"; Black to point "F."

B265—Refer to schematics 11 and 13 and connect UR193 and BB20 as follows: Red and Blue of UR193 to points "B" and "C"; Brown to point "E"; Black and Green to point "F"; Yellow to oscillator anode return. Connect BB20 positive to point "A"; negative to point "D."

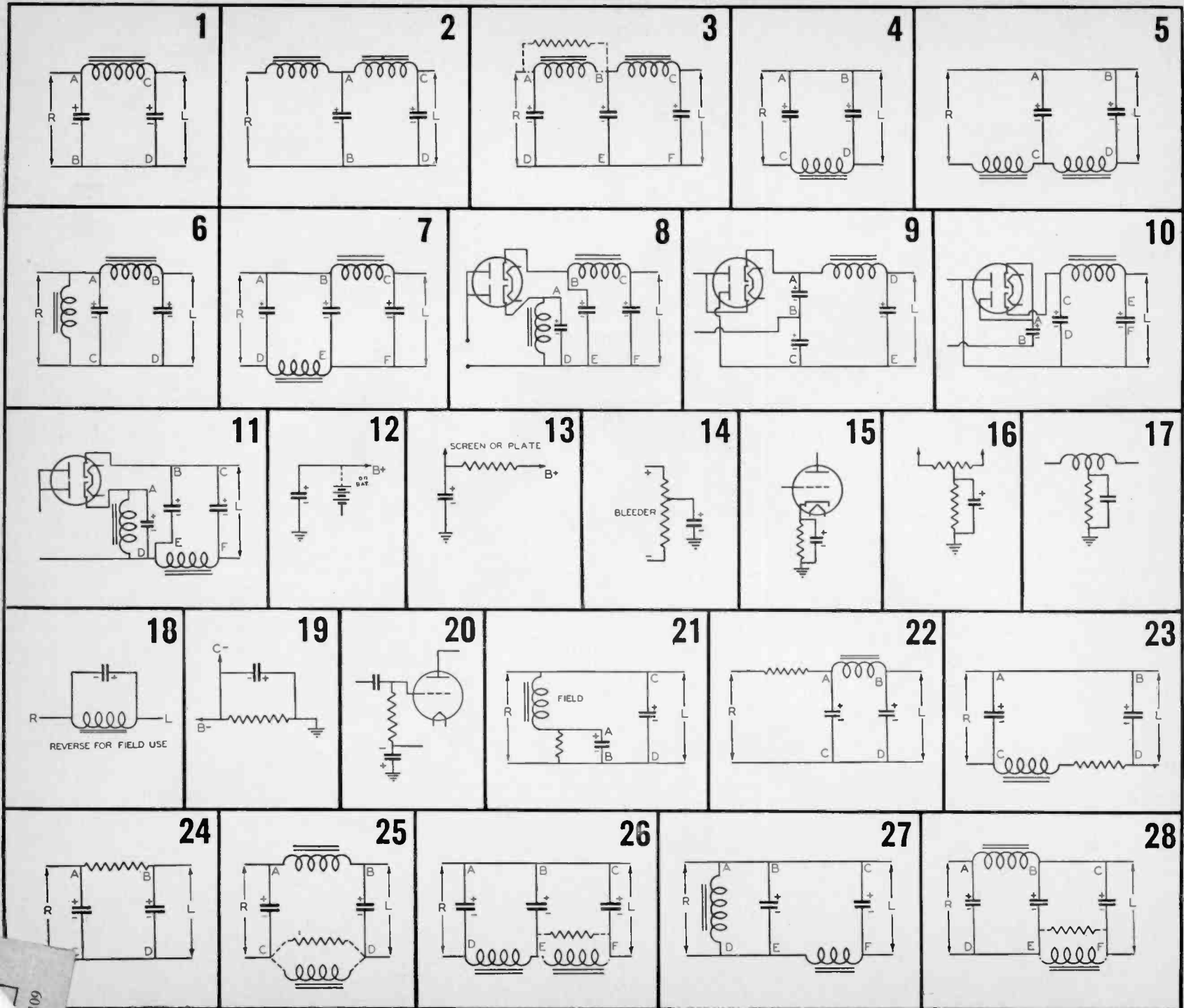
B266—Refer to schematics 75 and 15 and connect RM259 and TN111 as follows: Red of RM259 to point "A"; Blue and Green to point "B"; Black, Brown, and Yellow together and to points "D" and "F." Connect negative of TN111 to chassis; positives to cathodes of AF amplifiers. Connect RS207 Red to point "C"; Black to point "E."

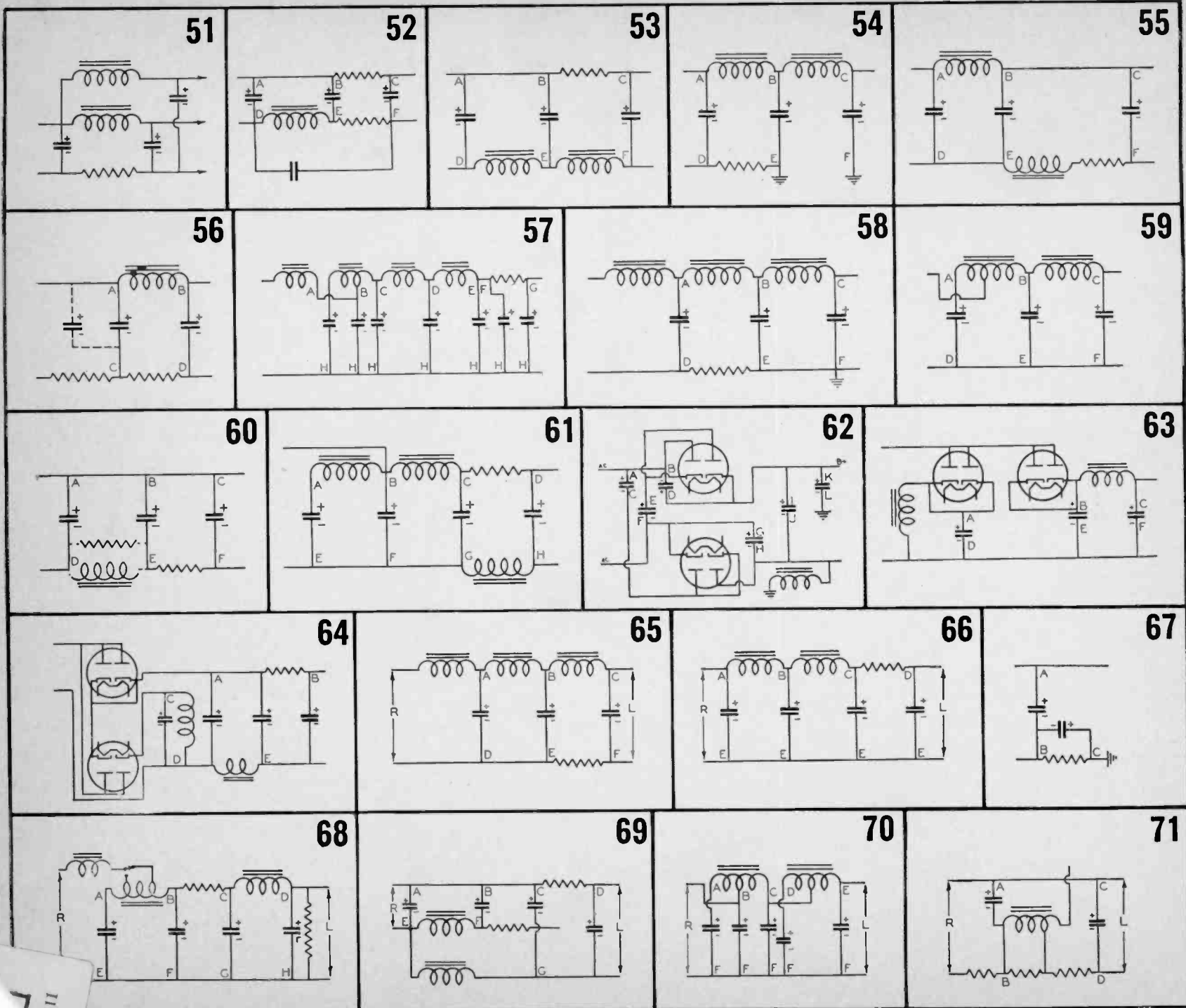
B267—Original is an FP type can. Connect replacement as follows: Red replaces terminal marked (■), Yellow replaces terminal marked (▲), Blue replaces un-coded terminal, Black replaces can negative.

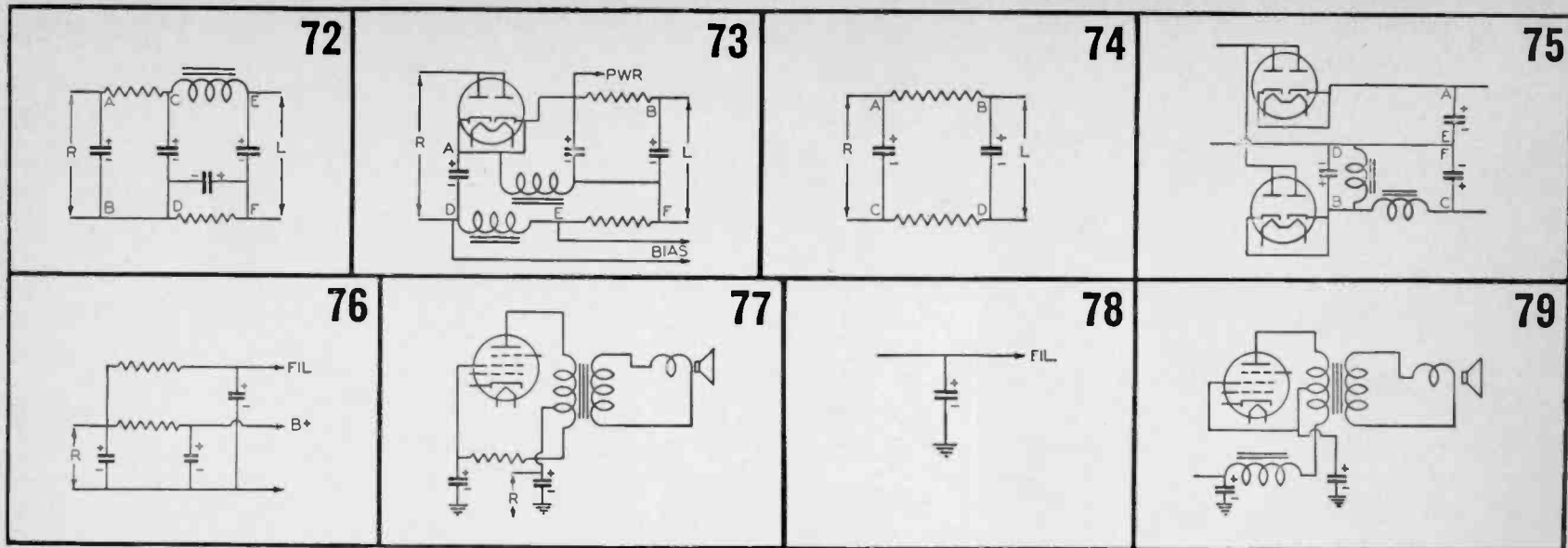
B268—Refer to schematics 24 and 15 and connect UR182 as follows: Blue to point "A"; Red to point "B"; Brown, Black and Green to points "C" and "D"; Yellow to cathode of audio tube.

B269—Refer to schematics 1 and 13 and connect UR182 as follows: Blue to point "A"; Red to point "C"; Brown, Black and Green to points "B" and "D"; Yellow to cathode of audio tube.

Mallory Dry Electrolytic Condensers are manufactured and sold under one or more of the following U. S. Letters Patents:			
1,710,073	1,918,717	2,050,587	2,199,445
1,714,191	1,981,352	2,052,962	2,202,166
1,891,206	1,981,533	2,080,390	2,224,150
1,891,207	1,989,129	2,091,576	Des. 122,825
1,918,716	2,020,408	2,144,959	And other patents pending







"C" NOTES

C1—Use Mally Replacement Vibrator Type 302S in early models and Type 292 in late models of this receiver. See Note C3.

C2—Use Mally Replacement Vibrator Type F312 in early models and Type F221 in late models of this receiver. See Note C3.

C3—When unusual vibrator troubles are experienced a thorough check should be made of all of the power pack parts and the circuit. It is especially important that the secondary buffer condenser, connected across the secondary of the transformer be in good operating condition and within plus or minus 10% of the specified capacity. **Be Sure to Check Buffer Condenser.** In some instances this condenser may be two condensers with the common lead grounded. In certain sets resistors have been used in series with these condensers. If the replacement of a buffer condenser is necessary use the Mally Oil Filled, high voltage condenser, Type "OT" or "VB" as required. **NEVER SUBSTITUTE A DIFFERENT VALUE—USE ONLY THE SPECIFIED CAPACITY.** The wrong buffer capacity may cause serious damage to the vibrator in a very short time. See Condenser listing for specified capacity.

C4—Use Mally Replacement Vibrator Type 302S in early models and Type 225 in late models of this receiver. See Note C3.

C5—Use Mally Replacement Vibrator Type 210 in both the "Standard" and the "Master" models.

C6—These sets use an interrupter type (tube type) vibrator; however the size and method of connection are unknown. For an emergency selection of a replacement vibrator refer to the Vibrator Connection Charts,

pages 414 and 415. Select an interrupter type vibrator which is approximately the same size and has identically the same connection arrangement as the original. For plug-in vibrators the pin-base must have the same arrangement and connections. For lead type vibrator the reed lead is red and the interrupter contact leads (two) will be yellow. Any Mally Distributor will gladly assist in making this selection. If an authentic replacement is desired, have your distributor send the original vibrator, together with the name and model of the receiver to the Mally Factory. The proper Mally replacement vibrator will be promptly supplied. See Note C3.

C7—No information available on this vibrator circuit. See Notes C6 and C8.

C8—These sets use a synchronous (self-rectifying) type vibrator; however, the size and method of connection are unknown. For the emergency selection of a replacement vibrator refer to the Vibrator Connection Charts, pages 414 and 415. Select a synchronous type vibrator which is approximately the same size and has identically the same connection arrangement as the original. If the original vibrator has condensers connected from the rectifier springs to the reed BE SURE the selected replacement vibrator also has condensers. For plug-in type vibrators the pin-base must have the same arrangement and connections. For lead type vibrators refer to the Vibrator Connection Charts, pages 414, 415, for the color of leads and connections. Any Mally distributor will gladly assist in making this selection. If an authentic replacement is desired, have the distributor send the original vibrator, together with the name and model of the receiver, to the Mally Factory. The proper Mally Replacement Vibrator will be promptly supplied. See Note C3.

C9—See Note C6. Two types of power packs are used: one with 25Z5 and the other an 84. Suggest Type F221, F294, F297. See Note C3.

C10—Use Mally Replacement Vibrator Type F221. See Note C3.

C11—Early type with vibrator mounted on power transformer uses an F220C, late or plug-in type uses an F294.

C12—The first series of this receiver used a carbon point vibrator for which there is NO replacement. Obtain a new transformer (latest type for this set) from the manufacturer. (Wells-Gardner Co., Chicago, Ill.) After the new transformer has been installed use the Mally Replacement Vibrator Type 292. A small amount of "hash," which cannot be eliminated, will be experienced with this receiver. See Note C3.

C13—This Mally Replacement Vibrator used in early models. See Note C3.

C14—This Mally Replacement Vibrator used in late models. See Note C3.

C15—Use Mally Cup Adapter with Mally Replacement Vibrator Type 271.

C16—12 Volt Receiver. See Note C3.

C17—Use Mally Replacement Vibrator Type 285XS for 1935 models. See Note C3.

C18—Use Mally Replacement Vibrator Type 245 for early 1936 models. See Note C3.

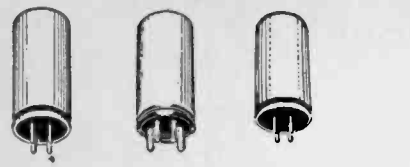
C19—Use Mally Replacement Vibrator Type 245A for late 1936 models. See Note C3.

C20—Use Mally Replacement Vibrator Type 296 for six prong socket and Type 294 for four prong socket. See Note C3.

C22—A few early models of this receiver used Mally Vibrator Type 75X as original equipment. Use the Mally Replacement Vibrator Type 275XS in these early models. Use the Mally Replacement Vibrator Type 285XS in all later models. See Note C3.

C23—Some production on this model used a plug-in type vibrator instead of the lead type. Select the proper Mally Replacement Vibrator as outlined in C6. See Note C3.

C24—Change the buffer capacity to .015 mfd. for use with the recommended replacement vibrator.



1A 1J 2A



1B 1K 2B



1C 1L 3A



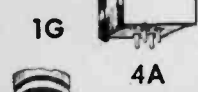
1D 3B



1E 3C



1F 5A



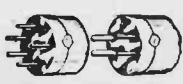
4A



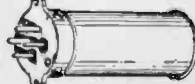
4B



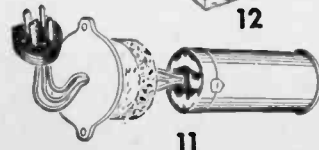
7A



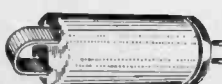
7C 7B



9



11



14



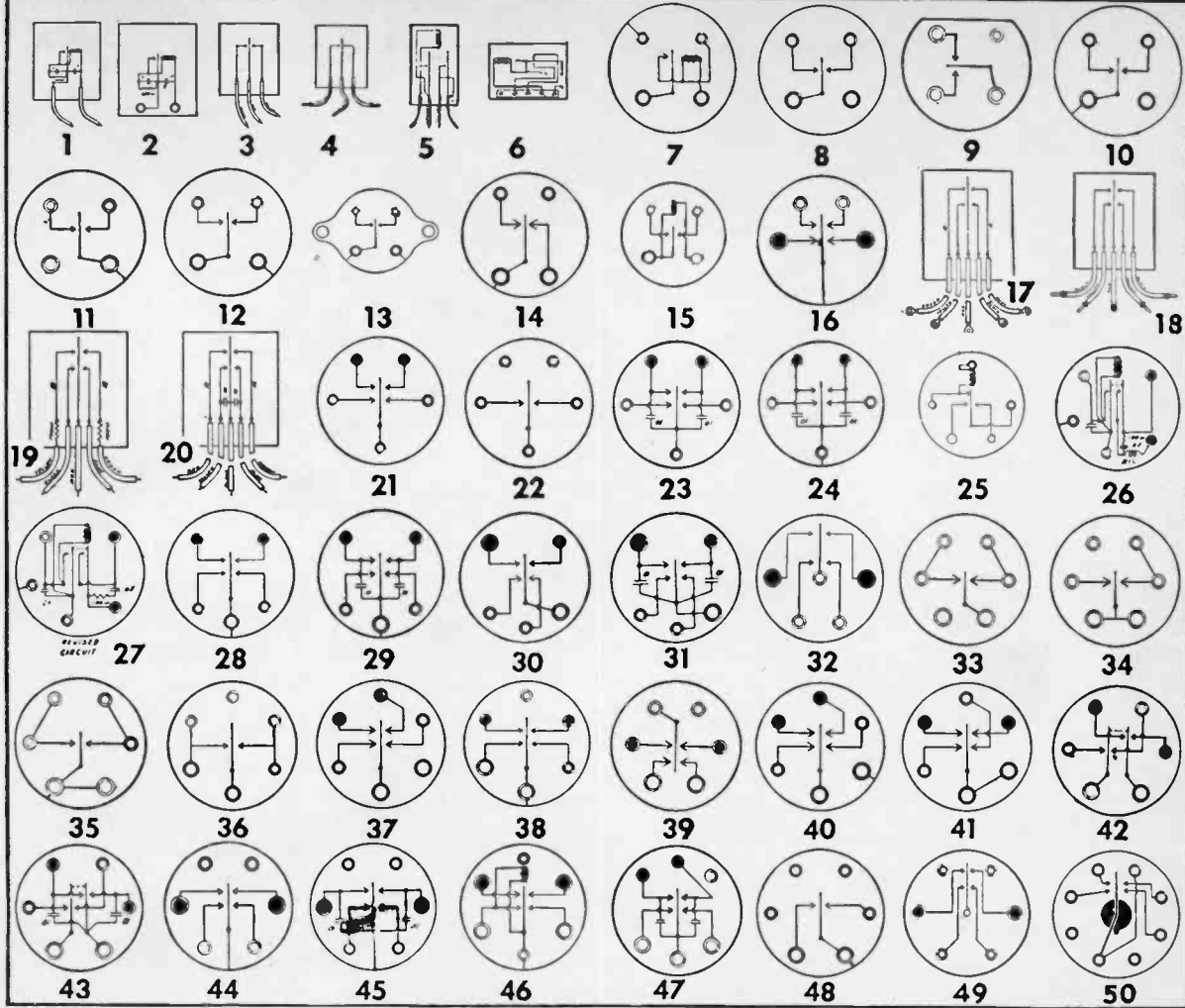
14B



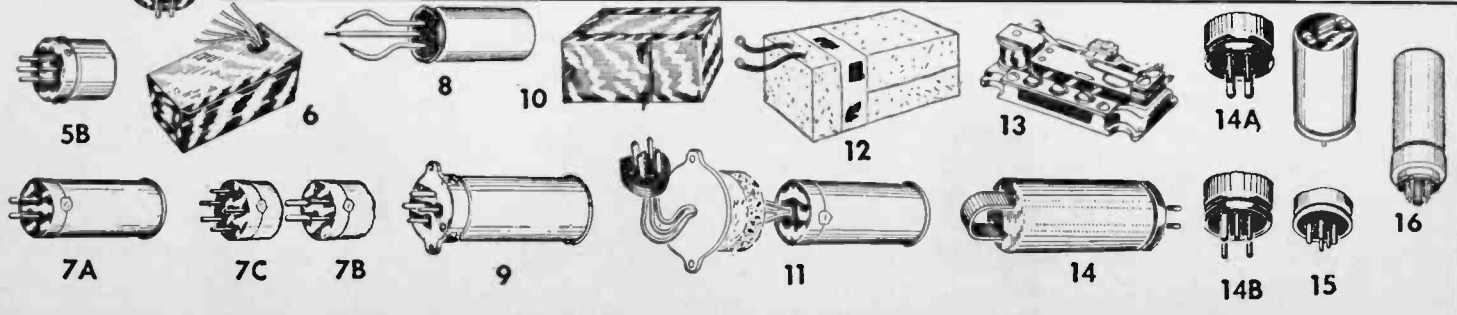
15



16



BASE DIAGRAMS



EXTERNAL VIEWS—Prong and Lead Arrangement

Mallory Replacement Vibrator Specifications

Int.—Interrupter

Syn.—Synchronous

Type No.	Volt.	Type	Base Dia.	Can Type	Size
201	6	Int.	7	4A	2 $\frac{1}{16}$ " x 2 $\frac{7}{8}$ " x 5 $\frac{3}{8}$ "
F204	32	Int.	7	4A	2 $\frac{1}{16}$ " x 2 $\frac{7}{8}$ " x 5 $\frac{3}{8}$ "
205	6	Int.	7	4A	2 $\frac{1}{16}$ " x 2 $\frac{7}{8}$ " x 5 $\frac{3}{8}$ "
210	6	Syn.	26	4B	2 $\frac{7}{16}$ " x 2 $\frac{1}{4}$ " x 5 $\frac{5}{16}$ "
F211	32	Syn.	26	4B	2 $\frac{7}{16}$ " x 2 $\frac{1}{4}$ " x 5 $\frac{5}{16}$ "
220B	6	Int.	6	13	3 $\frac{9}{16}$ " x 2" x 1"
F220C	32	Int.	6	13	3 $\frac{9}{16}$ " x 2" x 1"
221	6	Int.	3	3A	4 $\frac{1}{2}$ " x 1 $\frac{9}{16}$ " x 1 $\frac{9}{16}$ "
F221	32	Int.	4	3A	2 $\frac{7}{16}$ " x 1 $\frac{1}{2}$ " x 1 $\frac{3}{8}$ "
222	6	Syn.	20	3B	4 $\frac{7}{8}$ " x 1 $\frac{7}{8}$ " x 1 $\frac{13}{16}$ "
223	6	Syn.	17	6	4 $\frac{7}{8}$ " x 1 $\frac{3}{4}$ " x 1 $\frac{13}{16}$ "
F223	32	Syn.	17	6	4 $\frac{7}{8}$ " x 1 $\frac{3}{4}$ " x 1 $\frac{13}{16}$ "
224	6	Syn.	47	5B	2 $\frac{3}{8}$ " dia. x 4 $\frac{3}{4}$ "
225	6	Syn.	18	6	4 $\frac{7}{8}$ " x 1 $\frac{3}{4}$ " x 1 $\frac{13}{16}$ "
226	6	Syn.	19	3B	4 $\frac{1}{2}$ " x 1 $\frac{9}{16}$ " x 1 $\frac{9}{16}$ "
230	6	Syn.	27	4B	2 $\frac{7}{16}$ " x 2 $\frac{1}{4}$ " x 5 $\frac{5}{16}$ "
231	6	Syn.	5	3C	2 $\frac{5}{16}$ " x 2 $\frac{1}{8}$ " x 5 $\frac{3}{16}$ "
235	6	Syn.	5	3C	2 $\frac{5}{16}$ " x 2 $\frac{1}{8}$ " x 5 $\frac{3}{16}$ "
H240	110	Int.	25	7C	2 $\frac{3}{8}$ " dia. x 4 $\frac{3}{4}$ "
245	6	Syn.	21	1C	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
245A	6	Syn.	21	1C	1 $\frac{15}{16}$ " dia. x 3 $\frac{1}{2}$ "
245C	6	Syn.	28	1D	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
245SW	6	Syn.	21	1C	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
F245	32	Syn.	21	1C	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
G245	12	Syn.	21	1C	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
W245	4	Syn.	21	1C	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
W245A	4	Syn.	21	1C	1 $\frac{15}{16}$ " dia. x 3 $\frac{1}{2}$ "
246	6	Syn.	38	1F	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
246A	6	Syn.	38	1F	1 $\frac{15}{16}$ " dia. x 3 $\frac{1}{2}$ "
W246	4	Syn.	38	1F	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
247	6	Syn.	46	1G	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
F247	32	Syn.	46	1G	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
248	6	Syn.	44	1G	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
249	6	Syn.	49	1H	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
G249	12	Syn.	49	1H	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
F251	32	Int.	12	1A	2" dia. x 4 $\frac{1}{2}$ "
253	6	Int.	12	1A	2" dia. x 4 $\frac{1}{2}$ "
253T	6	Int.	13	9	2" dia. x 4 $\frac{5}{8}$ "

Type No.	Volt.	Type	Base Dia.	Can Type	Size
253Y	6	Int.	8	1A	1 $\frac{3}{4}$ " dia. x 4 $\frac{1}{4}$ "
G253	12	Int.	12	5A	2" dia. x 4 $\frac{1}{2}$ "
264	6	Syn.	38	1L	1 $\frac{1}{2}$ " dia. x 2 $\frac{29}{32}$ "
270B	6	Syn.	23	1C	2" dia. x 4 $\frac{1}{2}$ "
271	6	Syn.	24	1C	2" dia. x 4 $\frac{1}{2}$ "
271HD	6	Syn.	24	7C	2" dia. x 4 $\frac{1}{2}$ "
273C	6	Syn.	29	1D	2" dia. x 4 $\frac{1}{2}$ "
273D	6	Syn.	31	1E	2" dia. x 4 $\frac{1}{2}$ "
275XS	6	Syn.	43	1F	2" dia. x 4 $\frac{1}{2}$ "
277S	6	Syn.	45	1G	2" dia. x 4 $\frac{1}{2}$ "
285XS	6	Syn.	42	1F	2" dia. x 4 $\frac{1}{2}$ "
P285Y	6	Syn.	41	1F	1 $\frac{3}{4}$ " dia. x 4 $\frac{1}{2}$ "
286S	6	Syn.	44	1G	2" dia. x 4 $\frac{1}{2}$ "
G286S	12	Syn.	44	1G	2" dia. x 4 $\frac{1}{2}$ "
289Y	6	Syn.	49	2B	1 $\frac{3}{4}$ " dia. x 4 $\frac{1}{4}$ "
F290	32	Int.	15	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
292	6	Int.	3	3A	1 $\frac{1}{2}$ " x 1 $\frac{3}{8}$ " x 2 $\frac{7}{8}$ "
294	6	Int.	10	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
294C	6	Int.	14	7B	1 $\frac{5}{8}$ " dia. x 3 $\frac{5}{8}$ "
294SW	6	Int.	11	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
F294	32	Int.	10	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
296	6	Int.	35	1F	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
297	6	Int.	33	1F	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
F297	32	Int.	33	1F	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
299	6	Int.	34	1F	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
302S	6	Int.	2	10	2 $\frac{15}{16}$ " x 2 $\frac{13}{16}$ " x 6 $\frac{5}{16}$ "
311S	6	Int.	1	12	2 $\frac{3}{4}$ " x 2 $\frac{5}{8}$ " x 6 $\frac{1}{8}$ "
F312	32	Int.	2	10	2 $\frac{15}{16}$ " x 2 $\frac{13}{16}$ " x 6 $\frac{5}{16}$ "
500P	6	Int.	10	7A	2 $\frac{3}{8}$ " dia. x 4 $\frac{3}{4}$ "
501P	6	Int.	10	7A	1 $\frac{5}{8}$ " dia. x 3 $\frac{5}{8}$ "
F502P	32	Int.	9	11	1 $\frac{5}{8}$ " dia. x 3 $\frac{5}{8}$ "
503	6	Int.	3	8	1 $\frac{1}{2}$ " dia. x 2 $\frac{3}{4}$ "
504	6	Int.	48	1F	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
505P	6	Int.	8	1A	1 $\frac{15}{16}$ " dia. x 3 $\frac{1}{2}$ "
506P	6	Int.	36	1F	1 $\frac{15}{16}$ " dia. x 3 $\frac{1}{2}$ "
507P	6	Int.	10	7A	1 $\frac{5}{8}$ " dia. x 4 $\frac{3}{4}$ "
508P	6	Int.	10	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "

Type No.	Volt.	Type	Base Dia.	Can Type	Size
509P	6	Int.	8	1A	1 $\frac{1}{2}$ " dia. x 2 $\frac{7}{8}$ "
510P	6	Int.	8	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
514	6	Syn.	30	15	1 $\frac{15}{16}$ " dia. x 3 $\frac{1}{2}$ "
716	6	Syn.	30	14B	1 $\frac{15}{16}$ " dia. x 3 $\frac{1}{2}$ "
722A	6	Syn.	40	1F	1 $\frac{15}{16}$ " dia. x 3 $\frac{1}{2}$ "
725	6	Syn.	49	1H	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
G725	12	Syn.	49	1H	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
728A	6	Syn.	37	1F	1 $\frac{15}{16}$ " dia. x 3 $\frac{1}{2}$ "
742	6	Syn.	32	1K	1 $\frac{1}{2}$ " dia. x 2 $\frac{7}{8}$ "
743	6	Syn.	38	1F	1 $\frac{1}{4}$ " dia. x 3 $\frac{1}{8}$ "
744	6	Int.	22	1C	1 $\frac{1}{4}$ " dia. x 3 $\frac{1}{8}$ "
745	6	Syn.	50	16	1 $\frac{1}{2}$ " dia. x 4"
G745	12	Syn.	50	16	1 $\frac{1}{2}$ " dia. x 4"
M745	24	Syn.	50	16	1 $\frac{1}{2}$ " dia. x 4"
748	6	Syn.	44	1G	1 $\frac{1}{2}$ " dia. x 2 $\frac{7}{8}$ "
825	6	Int.	8	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
826	6	Int.	8	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
F826	32	Int.	8	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
G826	12	Int.	8	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
839	6	Int.	8	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
850	6	Int.	8	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
G850	12	Int.	8	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
852	6	Int.	14	7B	1 $\frac{5}{8}$ " dia. x 3 $\frac{5}{8}$ "
853	6	Int.	10	7A	1 $\frac{5}{8}$ " dia. x 3 $\frac{5}{8}$ "
854	6	Int.	11	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
859	6	Int.	8	1A	1 $\frac{1}{2}$ " dia. x 2 $\frac{7}{8}$ "
860	6	Int.	14	14A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
863	6	Int.	14	1B	1 $\frac{1}{2}$ " dia. x 3"
866	6	Int.	10	1A	1 $\frac{1}{2}$ " dia. x 3"
868	6	Int.	14	1B	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
869	6	Int.	10	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
901M	6	Int.	8	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
902M	6	Int.	8	1A	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
903M	6	Int.	8	1A	1 $\frac{1}{2}$ " dia. x 2 $\frac{7}{8}$ "
951P	6	Syn.	38	1F	1 $\frac{1}{2}$ " dia. x 3 $\frac{1}{4}$ "
952W	6	Syn.	16	1J	1 $\frac{3}{8}$ " dia. x 2 $\frac{7}{8}$ "
953W	6	Syn.	16	1J	1 $\frac{1}{2}$ " dia. x 3 $\frac{5}{16}$ "
954	6	Syn.	39	1F	1 $\frac{1}{2}$ " dia. x 3 $\frac{5}{16}$ "

