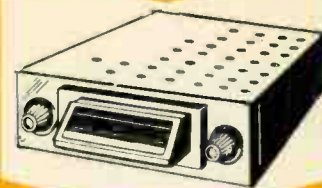


 **SAMS**
PHOTOFACT[®]

AUTO RADIO
SERIES



AR-235
235
FEBRUARY, 1977



C O N T E N T S

AUDIOVOX
1975 Series

CARTAPE
CT-9300

LEAR JET
R-947
R-957

MEDALLION
65-496

MOTOROLA
FM152M

PANASONIC
CR-1515EU

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana

World Radio History

\$3.50

\$4.40 IN CANADA

Cat. No. AR-235



SAMS PHOTOFACT[®]

AUTO RADIO SERIES



VOLUME

235

by the



ENGINEERING STAFF



HOWARD W. SAMS & CO., INC.

INDIANAPOLIS

INDIANA

**FIRST EDITION
FIRST PRINTING—FEBRUARY, 1977**

**PHOTOFACT®
AUTO RADIO SERIES
VOLUME 235**

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The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed.

Library of Congress Catalog Card Number: 49-11493



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GENERAL SERVICING INFORMATION

The following information applies to all tape units in this volume, and should be followed before any adjustments are made or trouble diagnosis is attempted. Any exceptions or additions will be found in the detailed servicing procedures for each tape unit.

POWER SOURCES

Many tape units require full supply voltage for proper operation. Be sure the supply voltage is maintained at the rated value under load while making adjustments.

CLEANING

All head faces should be cleaned with head cleaner or methyl alcohol to remove dust and accumulated oxide. (An applicator may be fashioned from absorbent cotton.) Do not use a screwdriver or any metallic object near the head faces.

CAUTION: Avoid getting head cleaner on any plastic surface.

Clean capstans, pressure rollers, and tape guides with alcohol using a soft lint-free cloth. Also use alcohol to remove oil and grease from drive belts and other driving surfaces.

LUBRICATING

Clean all surfaces before lubricating. Apply a few drops of #20 machine oil to all bearings and rotating bushings. Apply a thin film of light, nonhardening grease to all cam surfaces and pawls, if they have been factory lubricated. Always wipe excess oil or grease from parts that have been lubricated.

CAUTION: Oil and grease must be kept off all driving surfaces as well as any parts which may transfer oil or grease to them.

DEMAGNETIZING

Heads require demagnetizing at regular intervals to maintain high-frequency response, dynamic range, and low distortion. (Follow instructions included with the demagnetizing unit.) After demagnetizing the heads, keep all screwdrivers and other metallic objects away from the head faces. Tape guides may also require occasional demagnetizing.

IMPORTANT: Be sure to demagnetize the heads after making resistance measurements in the head circuits.

CARTRIDGES

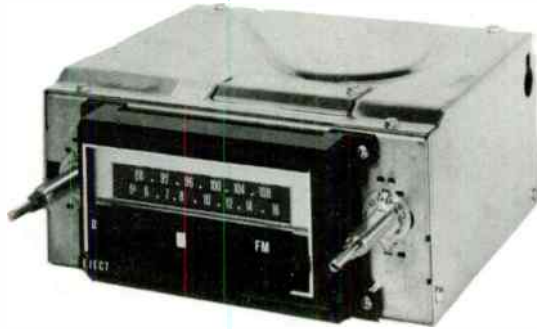
Many problems associated with tape units result from defective cartridges. Always try a cartridge known to be good before attempting repairs.



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index



AUDIOVOX 1975 SERIES MODELS

Note: Model 136-1020 is basic unit for all models listed below.

- | | |
|--|---|
| BKS-75-DLX/B (1975 Buick) | FGA-75-DLX/B (1975 Ford,Mercury) |
| BU-75-DLX/B (1975 Buick) | FMK-75-DLX/B (1975 Ford,Mercury) |
| CA-75-DLX/B (1975 Chev.) | FMU-75-DLX/B (1975 Ford) |
| CAD-75-DLX/B (1975 Cadillac) | FO-75-DLX/B (1975 Ford,Mercury) |
| CH-75-DLX/B (1975 Chev.) | FPT-75-DLX/B (1975 Ford,Mercury) |
| CHT-75-DLX/B (1975 Chev.,GMC Truck) | FTR-75-DLX/B (1975 Ford,Mercury) |
| CNO-75-DLX/B (1975 Buick,Chev.,Olds,Pontiac) | LCO-75-DLX/B (1975 Ford,Lincoln) |
| CVA-75-DLX/B (1975 Chev.) | MAT-75-DLX/B (1975 American Motors) |
| DA-75-DLX/B (1975 Dodge,Plymouth) | OL-75-DLX/B (1975 Olds) |
| DCF-75-DLX/B (1975 Dodge,Chrysler,Ply.) | OLF-75-DLX/B (1975 Olds) |
| DMO-75-DLX/B (1975 Dodge,Chrysler,Ply.) | PAC-75-DLX/B (1975 American Motors) |
| DTR-75-DLX/B (1975 Dodge Truck) | PGP-75-DLX/B (1975 Pontiac) |
| DVA-75-DLX/B (1975 Dodge Van,Ply. Van) | PO-75-DLX/B (1975 Pontiac) |
| ECO-75-DLX/B (1975 Ford) | VE-75-DLX/B (1975 Buick,Chev.,Olds,Pontiac) |
| FDT-75-DLX/B (1975 Ford Truck) | |

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Printed in U. S. of America

7AL979

CLEANING LUBRICATING HEAD DEMAGNETIZING

Refer to
"General Servicing Information"
on page 4.

ADJUSTMENTS

ADJUST	REMARKS
Head Azimuth	Play a test cartridge and adjust B1 for maximum on an AC VTVM across output.
Head Height	Rotate Cam (19) counterclockwise until the notched tab on the rim of Cam (19) is to the back of the unit. Play a test cartridge, follow instructions with cartridge, and adjust B2 for proper response.

TROUBLE CHART

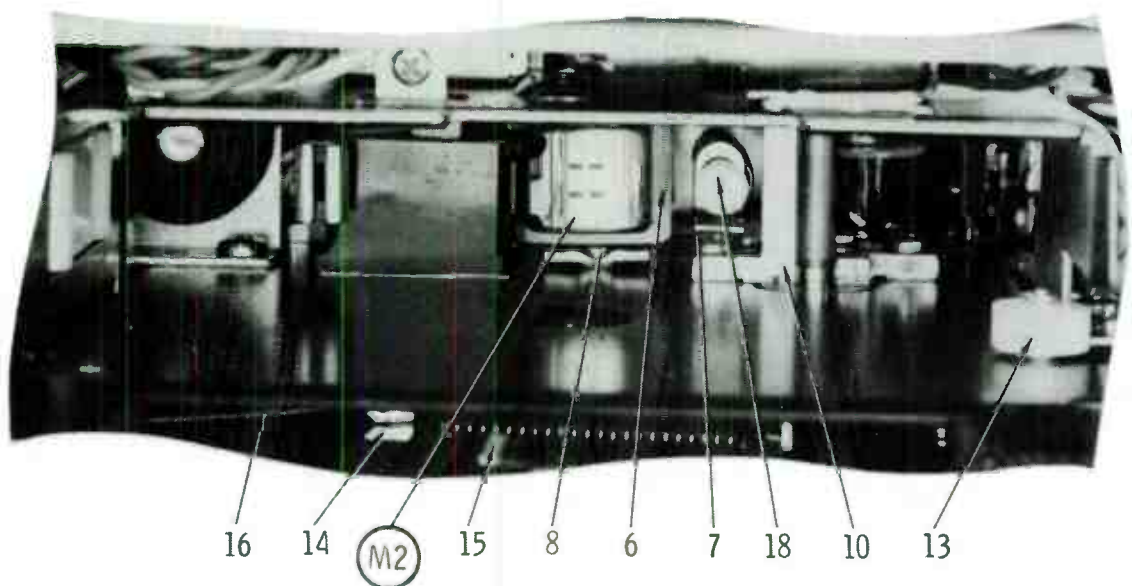
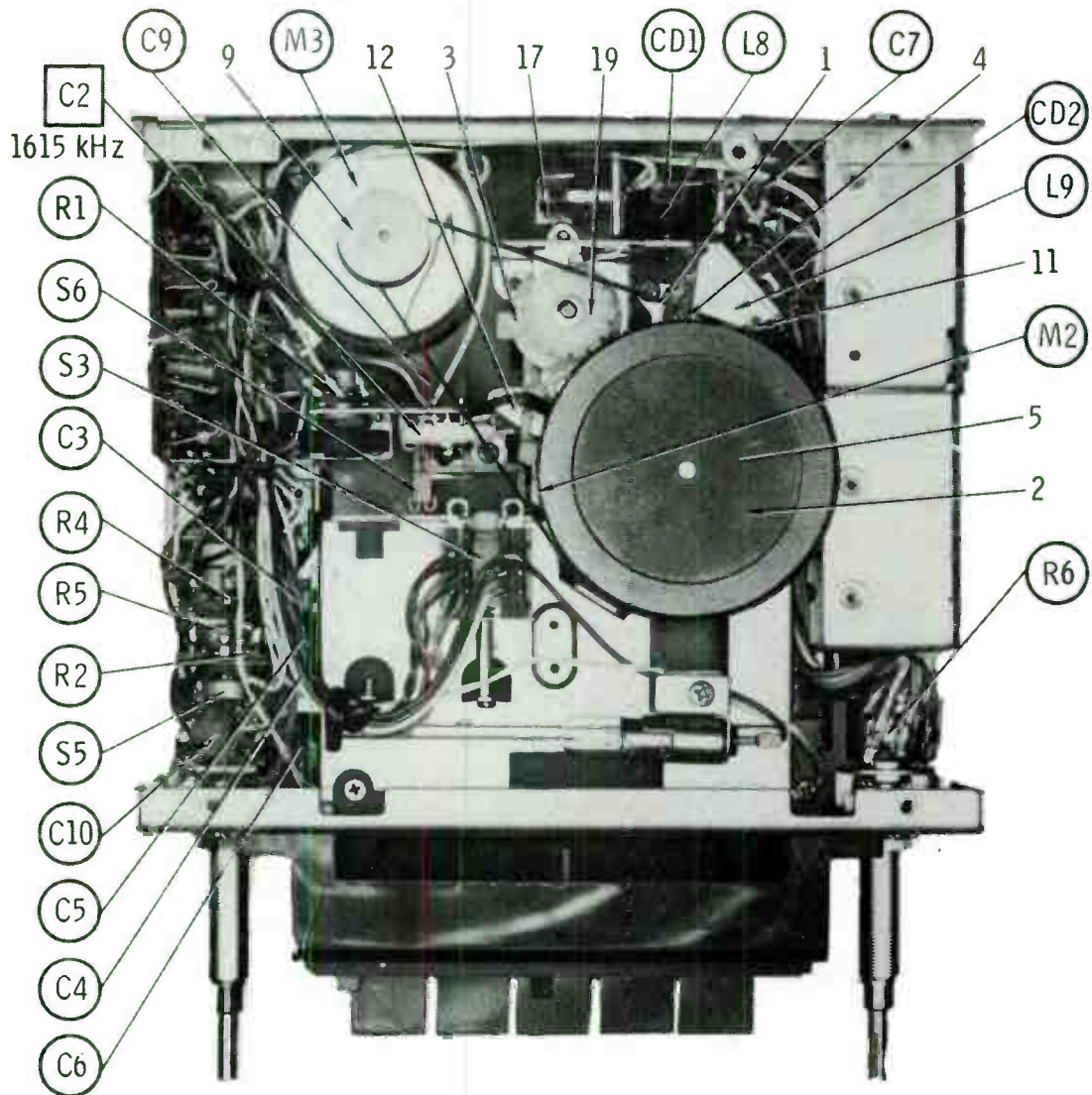
SYMPTOM	REMARKS
Capstan does not rotate.	Belt (1) dirty, worn, or broken. Assembly (10) binding. Motor defective or not supplied with power.
Track-shift mechanism inoperative	Switch (S6) dirty. Cam (3) binding or worn. Pawl (4) worn. Assembly (6) binding. Solenoid (L9) defective or not supplied with power. Cartridge defective. Cam (5) binding or worn. Spring (11) weak or out of place.
Wow or flutter	Belt (1) dirty or worn. Capstan dirty or binding. Cartridge defective. Motor defective.
Sound weak or distorted	Head dirty, misaligned, or defective. Cartridge defective. Amplifiers defective.
Tape is pulled from cartridge.	Cartridge defective. Capstan dirty or scored.
Cartridge ejector defective	Ejector mechanism binding. Solenoid (L8) defective. Ejection circuit defective.

MECHANICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1*	29810-202*	Flywheel Drive Belt*	11	(1)	Pawl Spring
2	29810-219	Flywheel (Assembly)	12	29810-271	Head Shaft (Assembly)
3	29810-208	Track Changing Cam (Assembly)	13	29810-222	Cartridge Holder Assembly
4	(1)	Track Changing Pawl	14	29810-234	Eject Lock Arm Lever(Assembly)
5	29810-209	Capstan Cam	15	(2)	Detent Spring
6	29810-223	Head Holder Assembly	16		Detent Lock Spring
7	29810-274	Azimuth Spring	17	29810-245	Eject Lever
8		Head Lifting Spring	18	29810-268	Eject Shaft Assembly
9	29810-251	Motor Pulley	19	(3)	Height Fine Tuning Cam
10	29810-201	Capstan Bearing (Assembly)			

* Flywheel Drive Belt: E-V/GAME Replacement Number 1407-71.
WALSCO Replacement Number 1424-21.

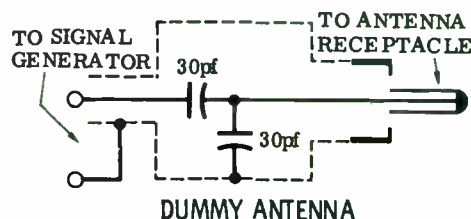
(1) Part of Solenoid (L9), Part Number 29810-84.
(2) Part of Assembly (14).
(3) Part of Assembly (6).



CHASSIS-TOP VIEW

ALIGNMENT INSTRUCTIONS

Check for specified source voltage. Use only enough generator output to provide a usable indication. Suggested Alignment Tools: GC ELECTRONICS ALL 8290, 8868, 9087				PUSH-BUTTON ADJUSTMENT 1. Pull button out. 2. Tune manually to desired station. 3. Press button in firmly. 4. Repeat for remaining buttons.	
GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1uF to point A, low side to ground.	262kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	T104, T103	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	C159, C151,C2	"
Thru dummy antenna to antenna input.	600kHz	Tune to signal	Output meter across voice coil.	L104	Adjust for maximum. Repeat alignment until no further improvement is noted.
With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust C2 for maximum output. Antenna adjustment C2 is located inside tape door left front corner.					



FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to point A, low side to ground.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to point B, common to ground.	(1) T102,T101	Adjust for maximum.

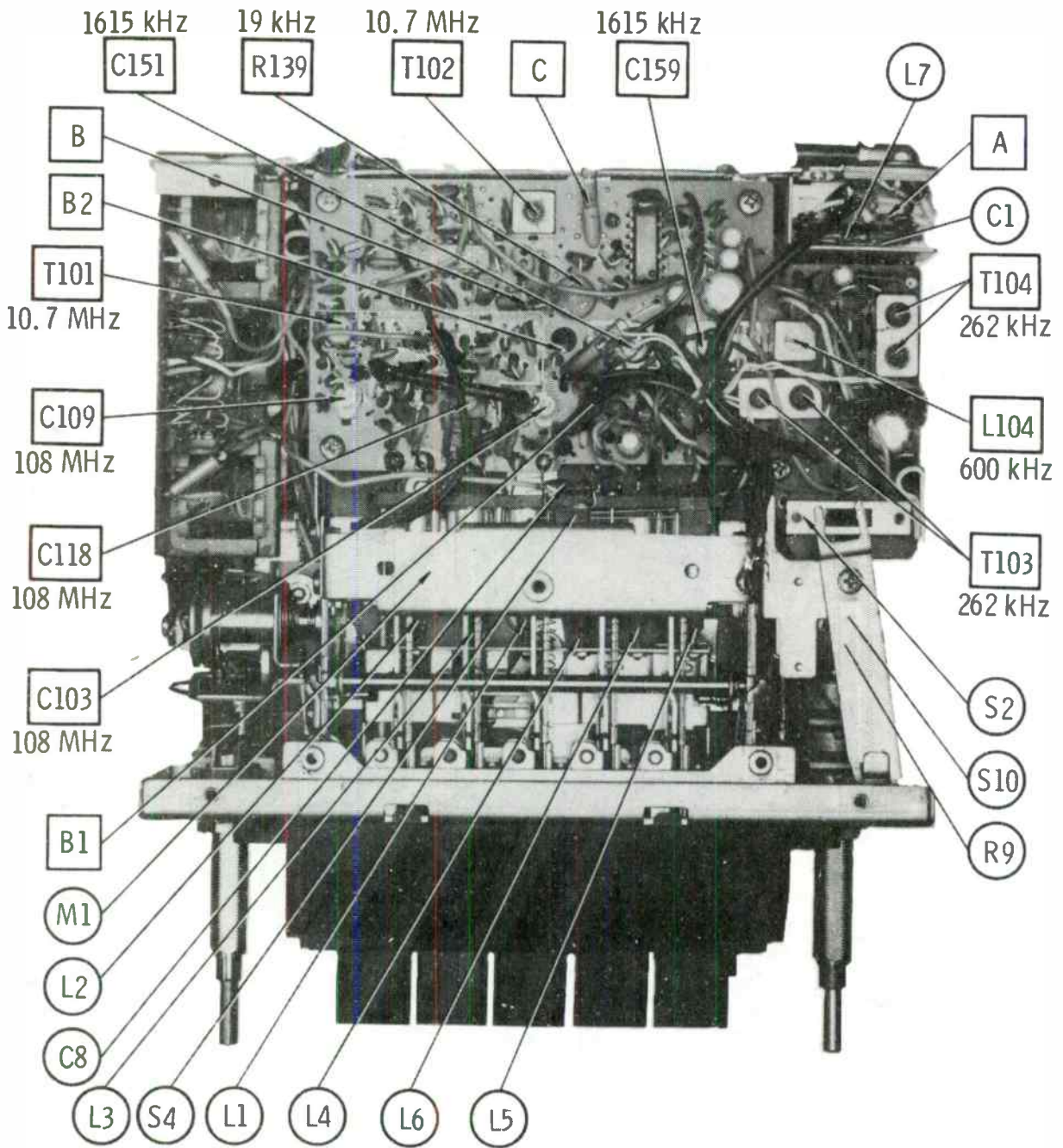
FM RF ALIGNMENT—SELECTOR IN FM POSITION

Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
108MHz Unmodulated	Tune to signal	DC probe of VTVM to point B, common to ground.	C118,C109, C103	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

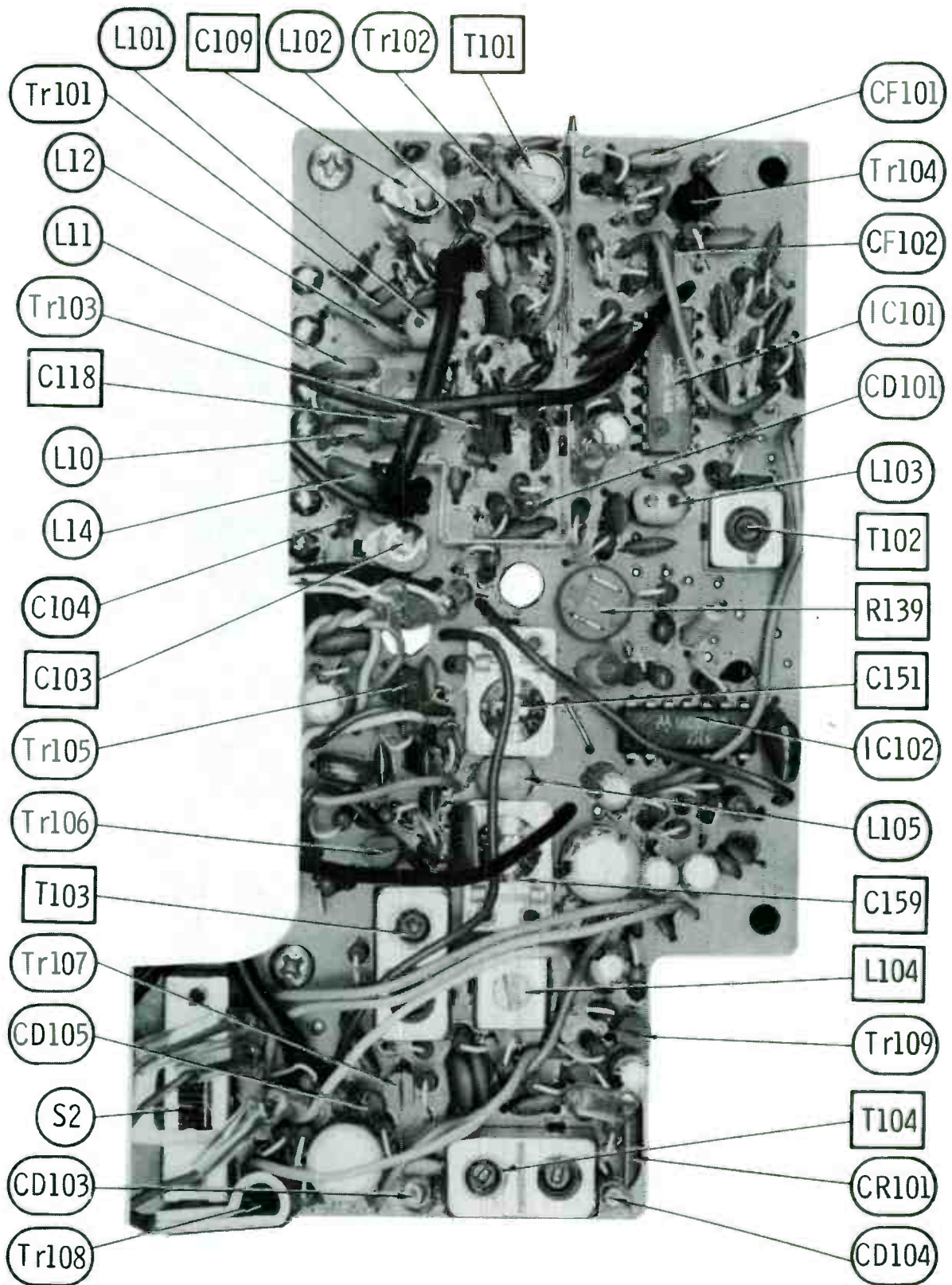
(1) Before adjusting, vary generator frequency slightly. Maximum output indicates exact IF.

FM STEREO MULTIPLEX ALIGNMENT

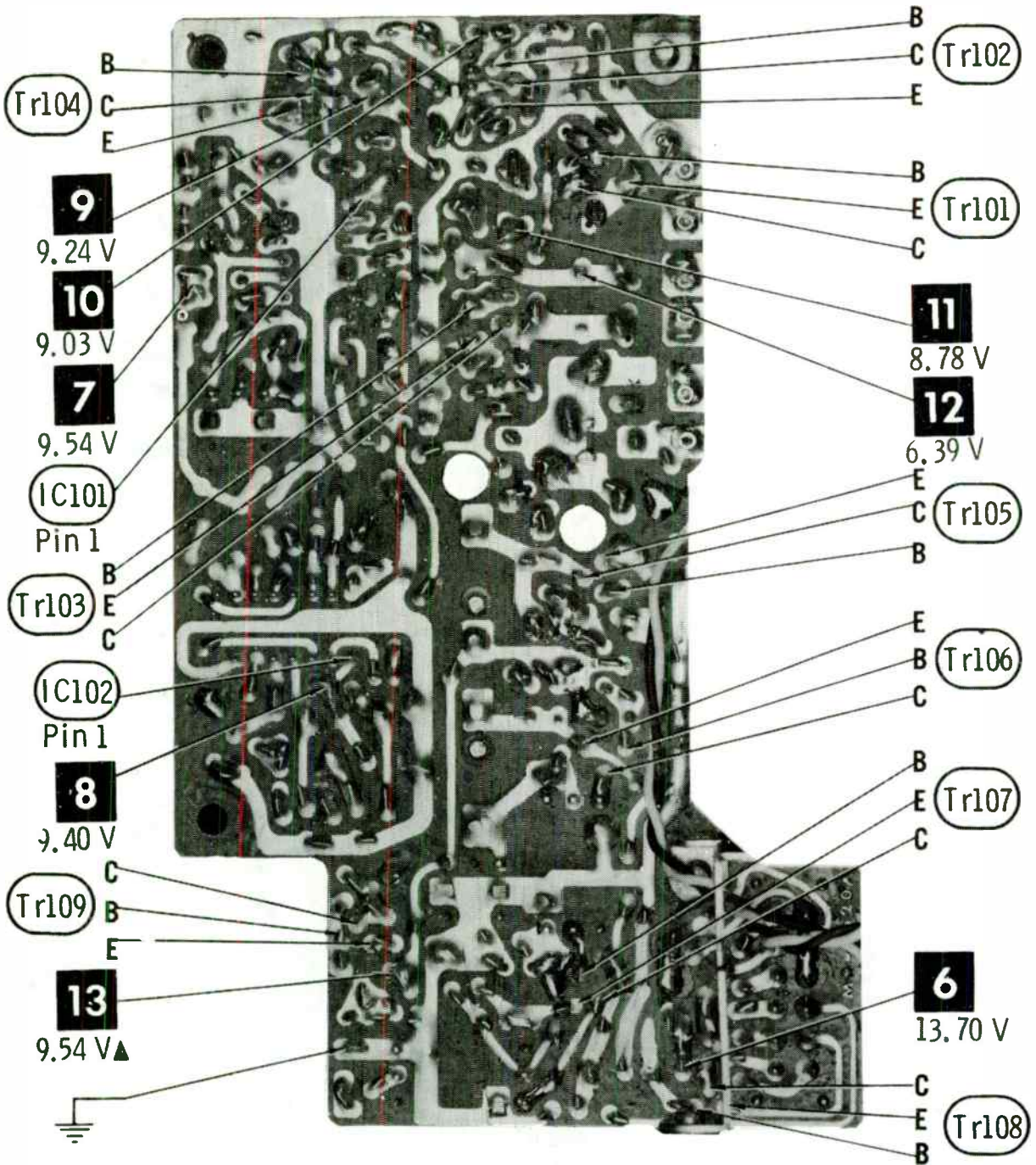
Connect frequency counter to point C. Adjust R139 for 19kHz \pm 50Hz.



CHASSIS-BOTTOM VIEW

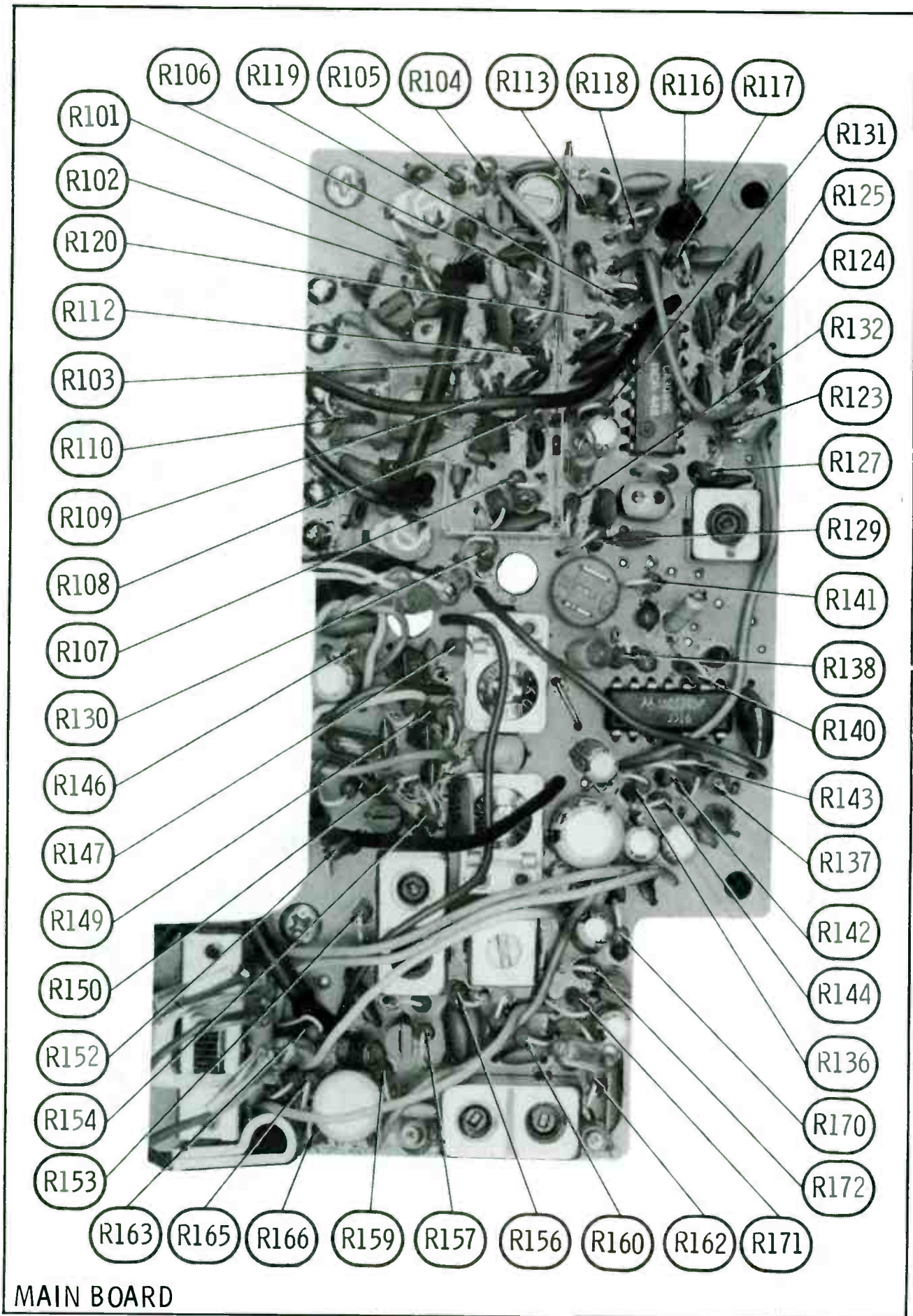


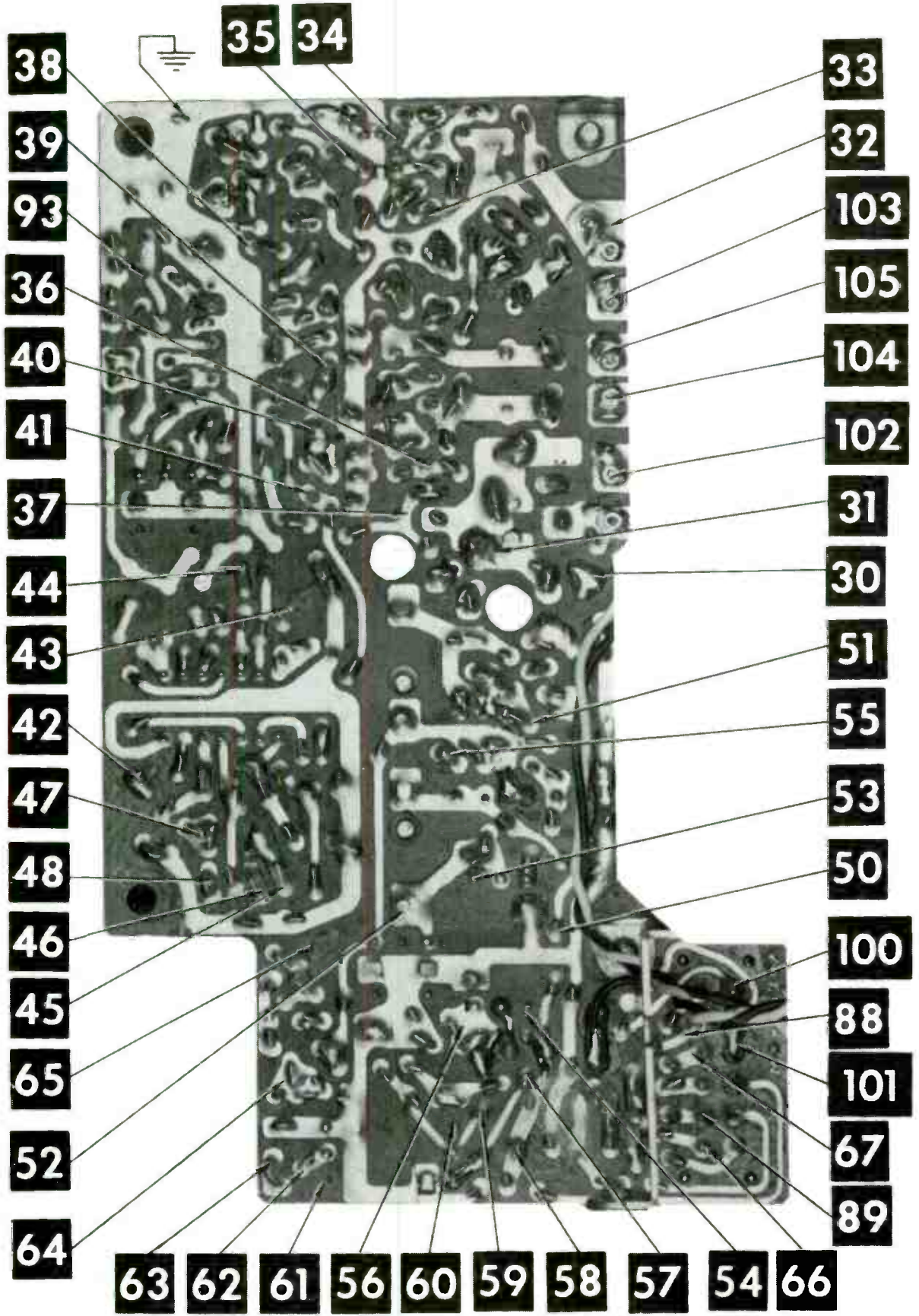
MAIN BOARD



AUDIOVOX 1975 SERIES MODELS

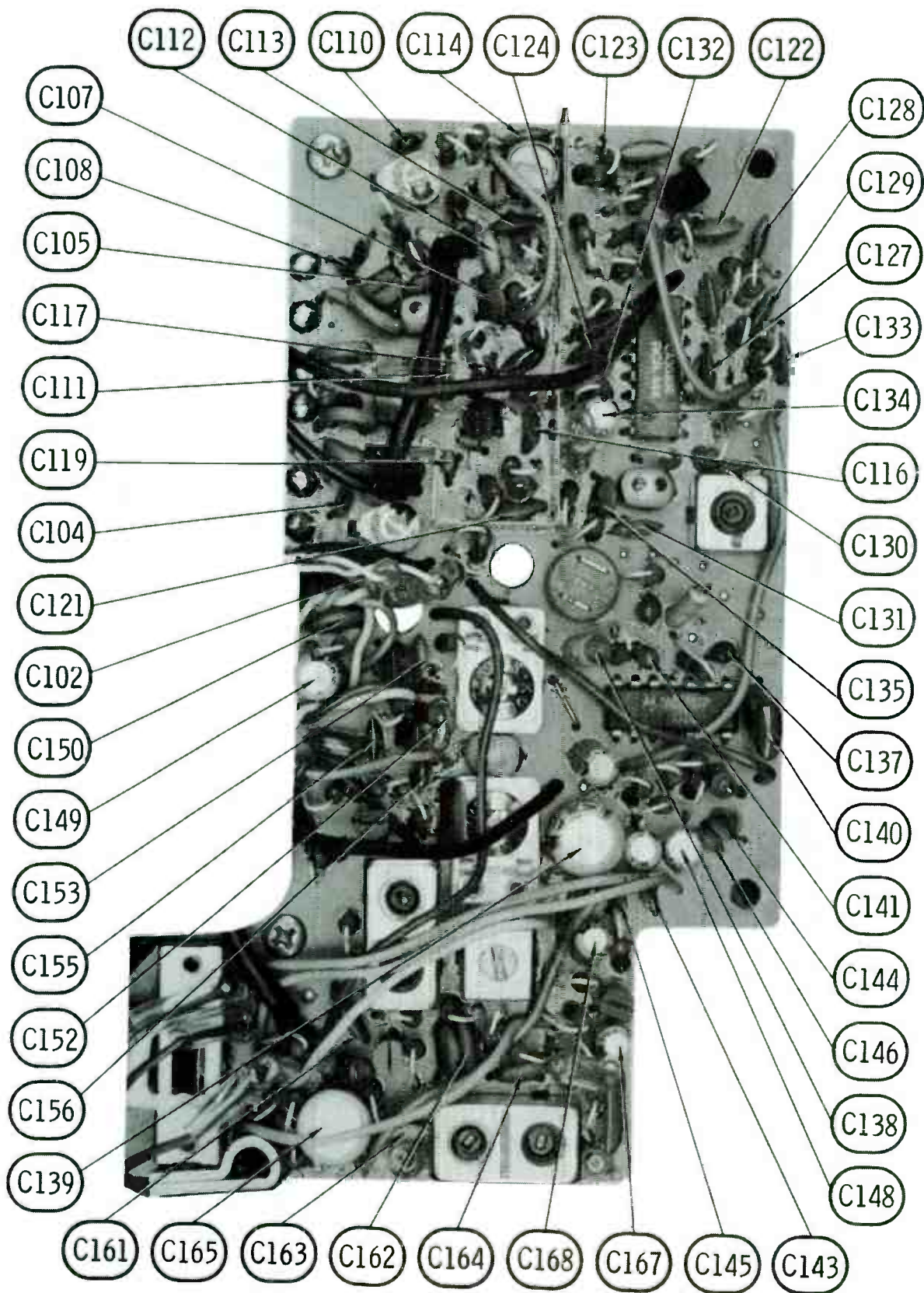
MAIN BOARD



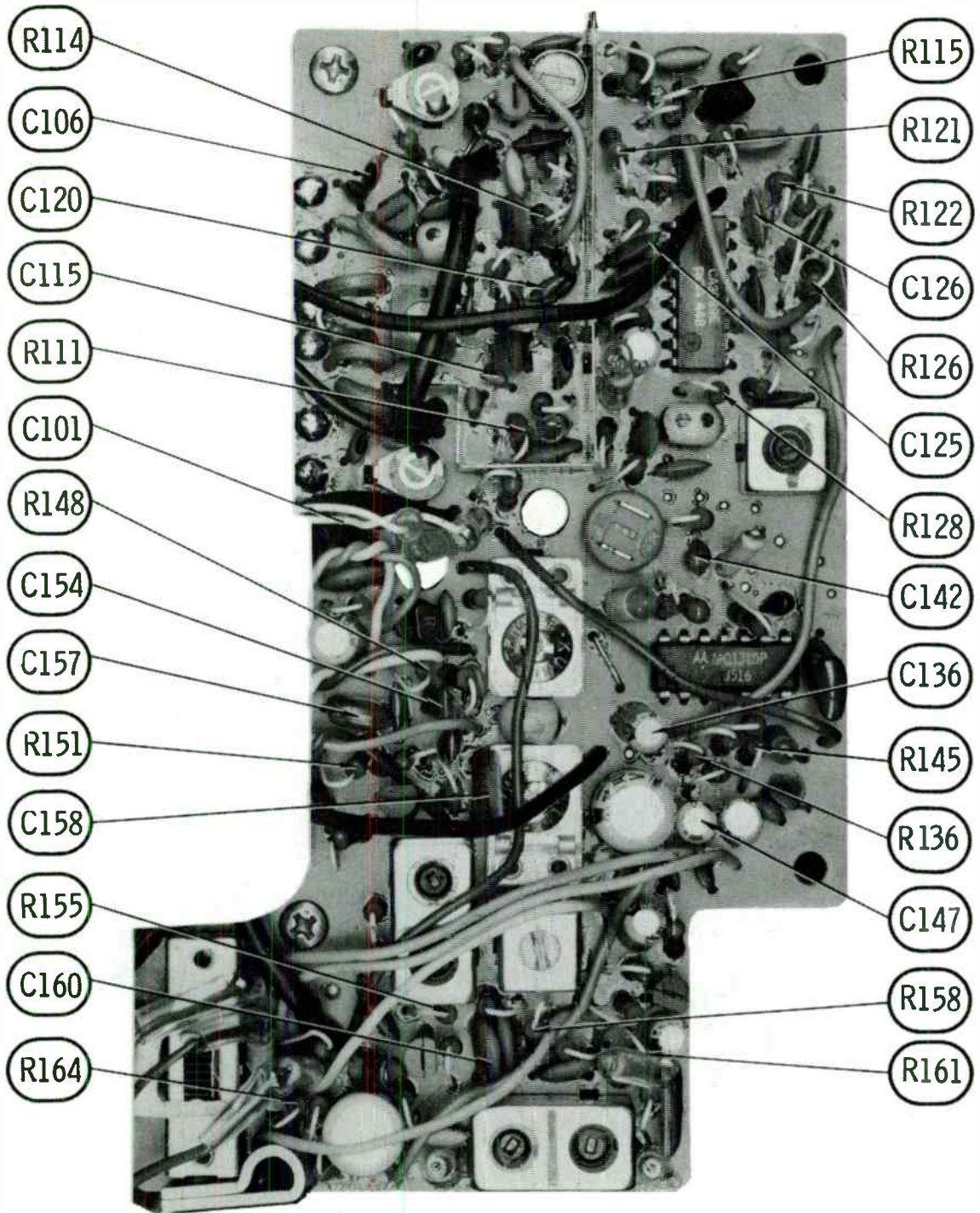


AUDIOVOX 1975 SERIES MODELS

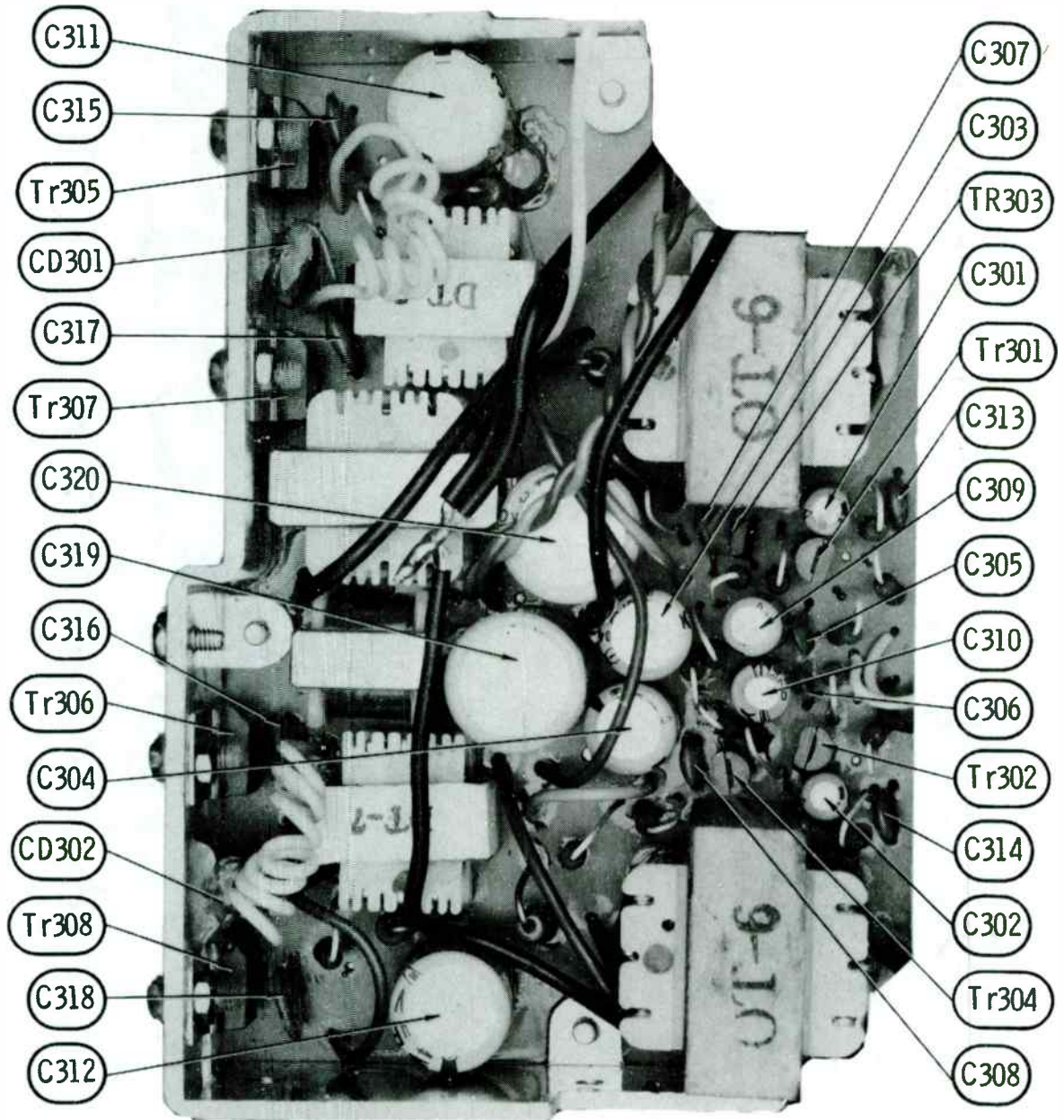
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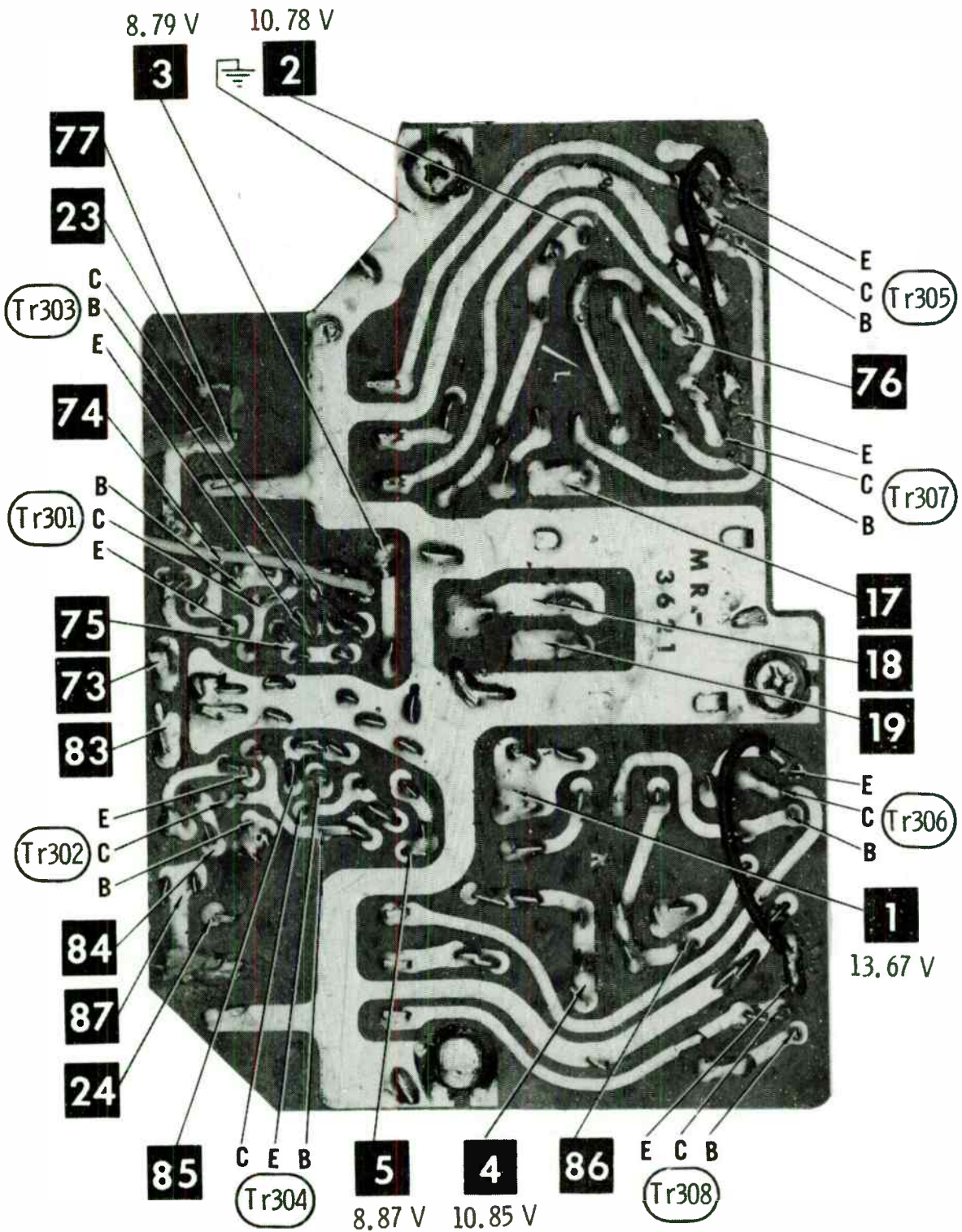
MAIN BOARD



MAIN BOARD

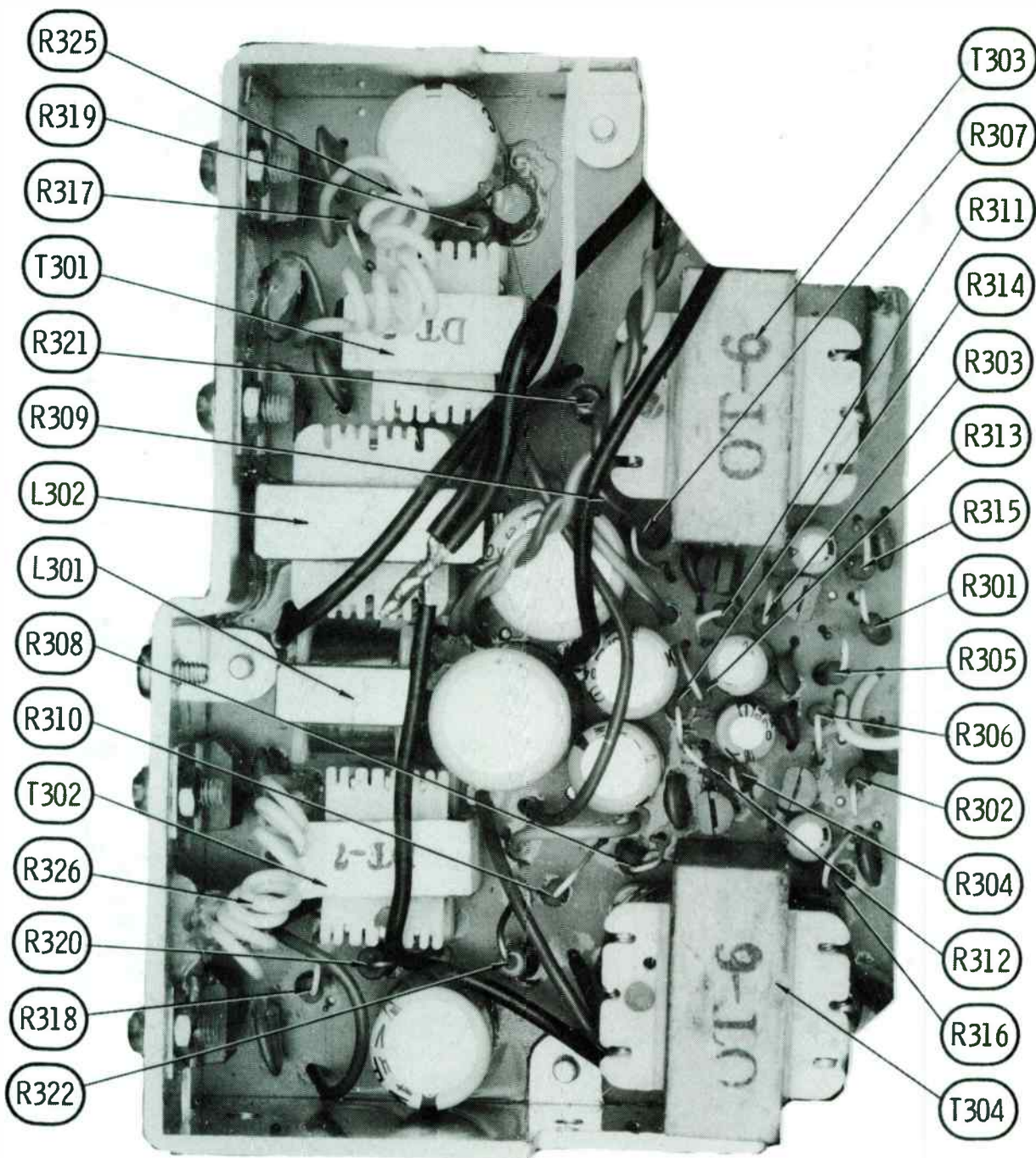


AUDIO BOARD

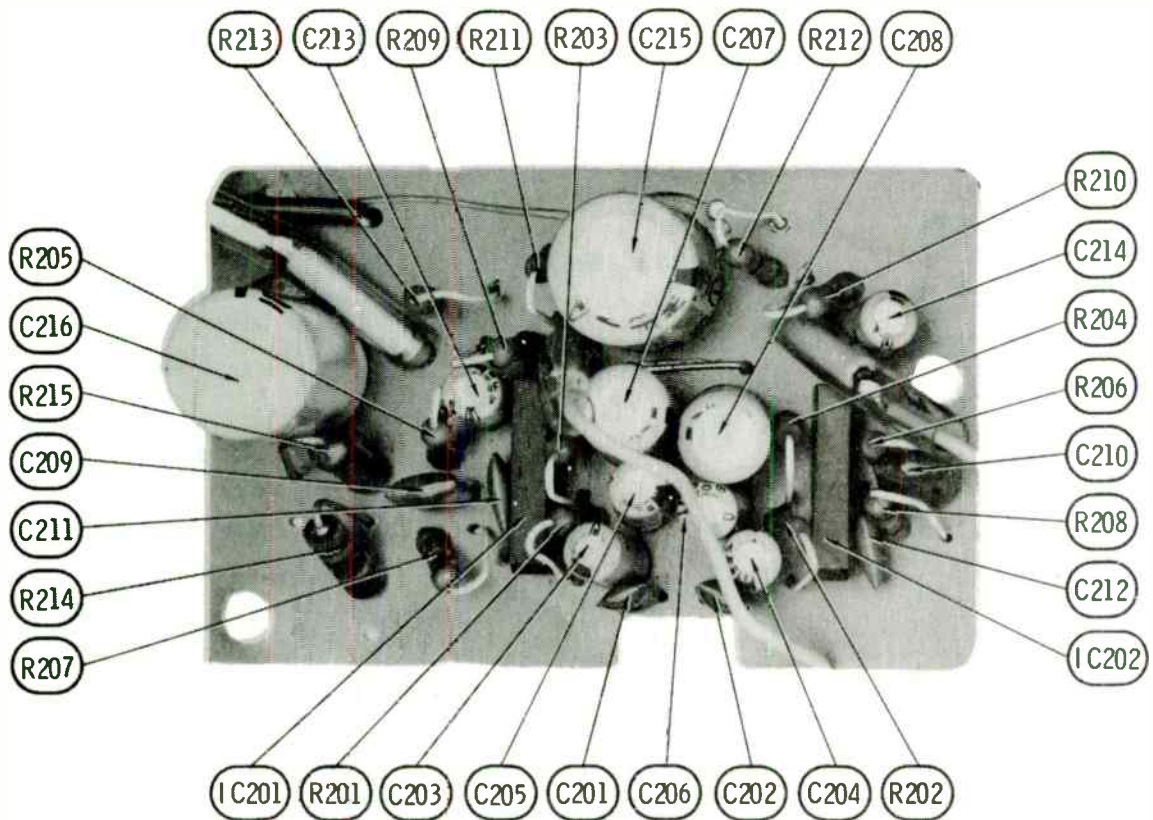
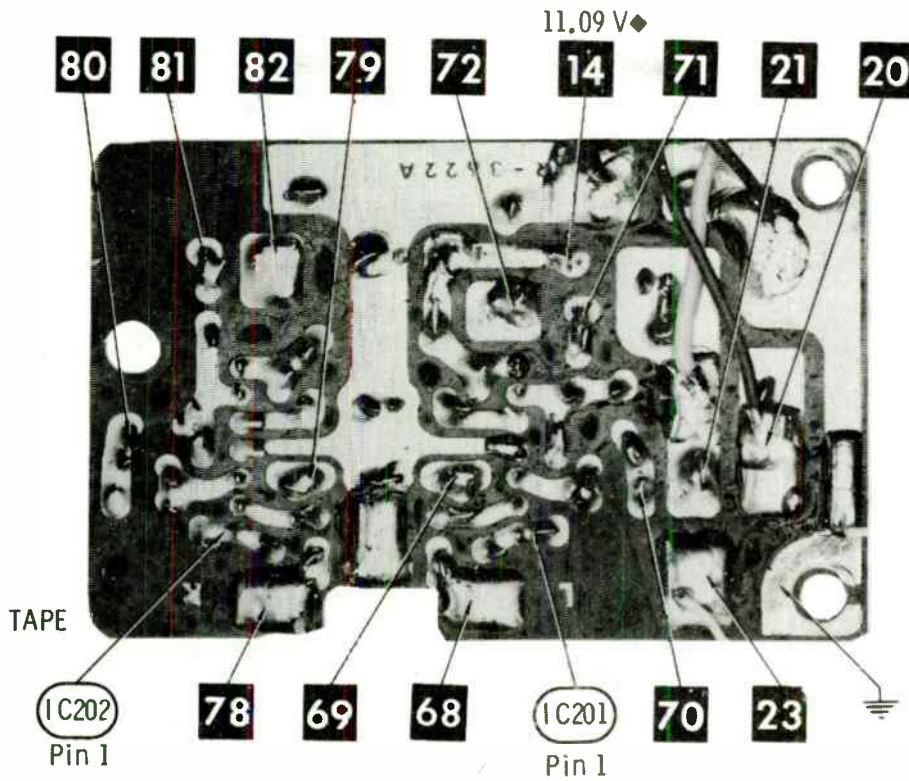


AUDIOVOX 1975 SERIES MODELS

AUDIO BOARD



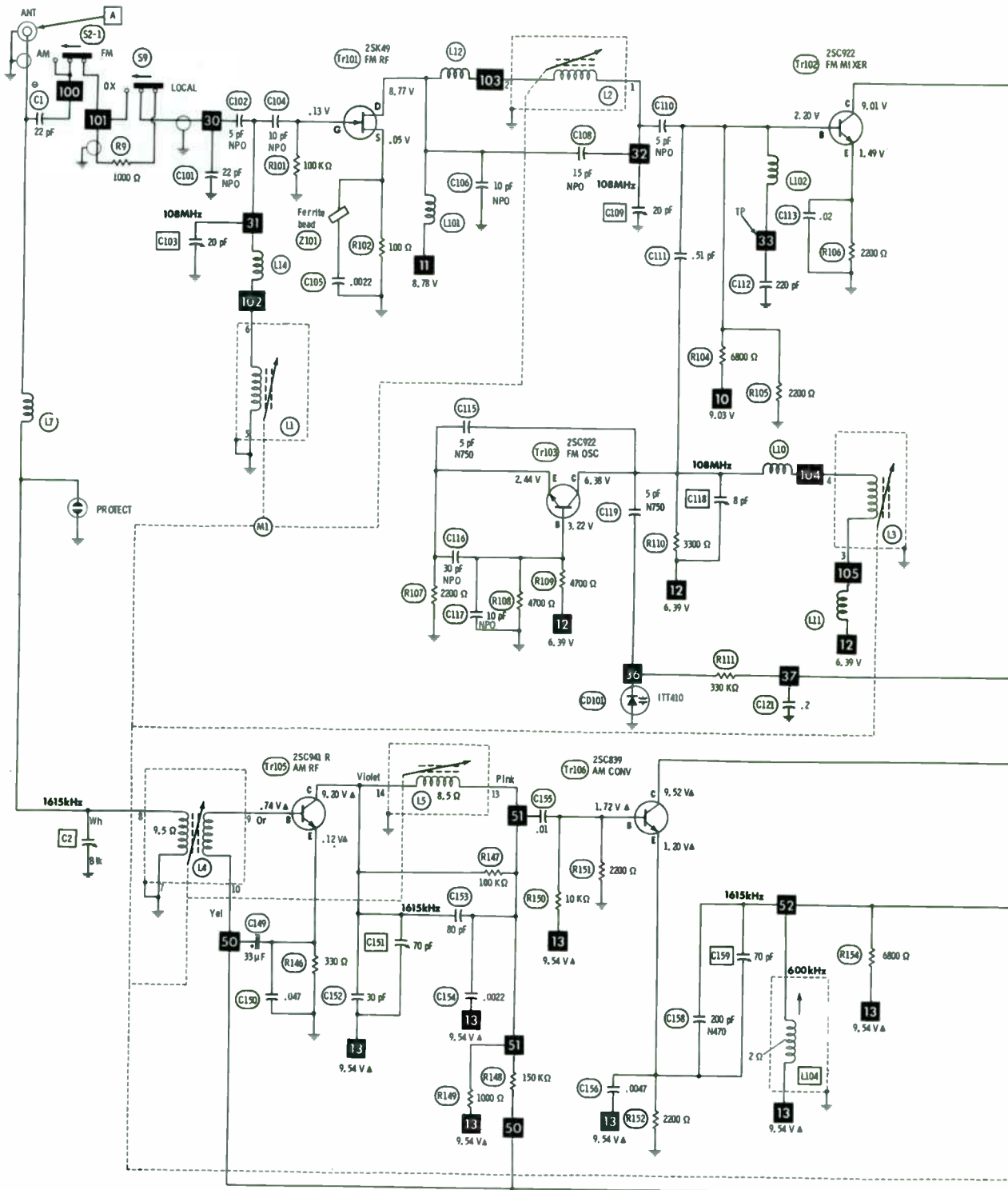
AUDIO BOARD



PREAMP BOARD

AUDIOVOX 1975 SERIES MODELS

NOTE: DEMAGNETIZE HEADS AFTER SERVICING



- *— Circuitry not used in some versions
- - - Circuitry used in some versions
- See parts list
- * Nominal value
- ⊕ Ground
- ⌞ Chassis
- ▽ Common tie point

Measurements with switching as shown unless noted:

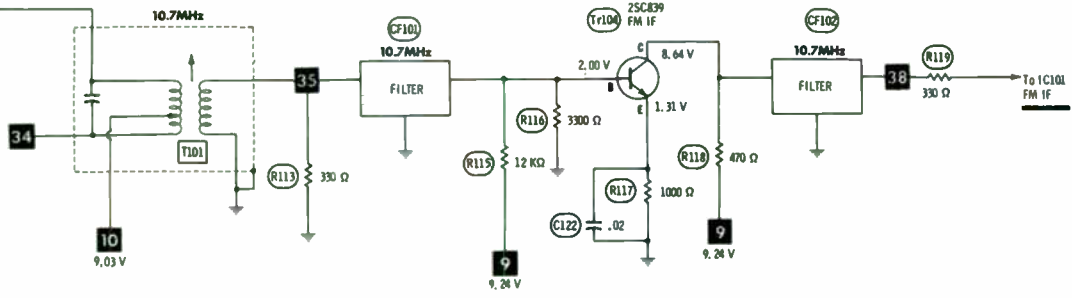
■ FM Stereo signal ▲ AM

◆ Tape play

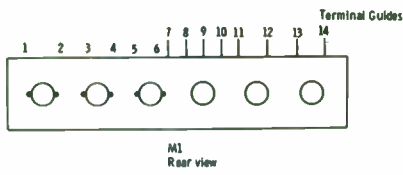
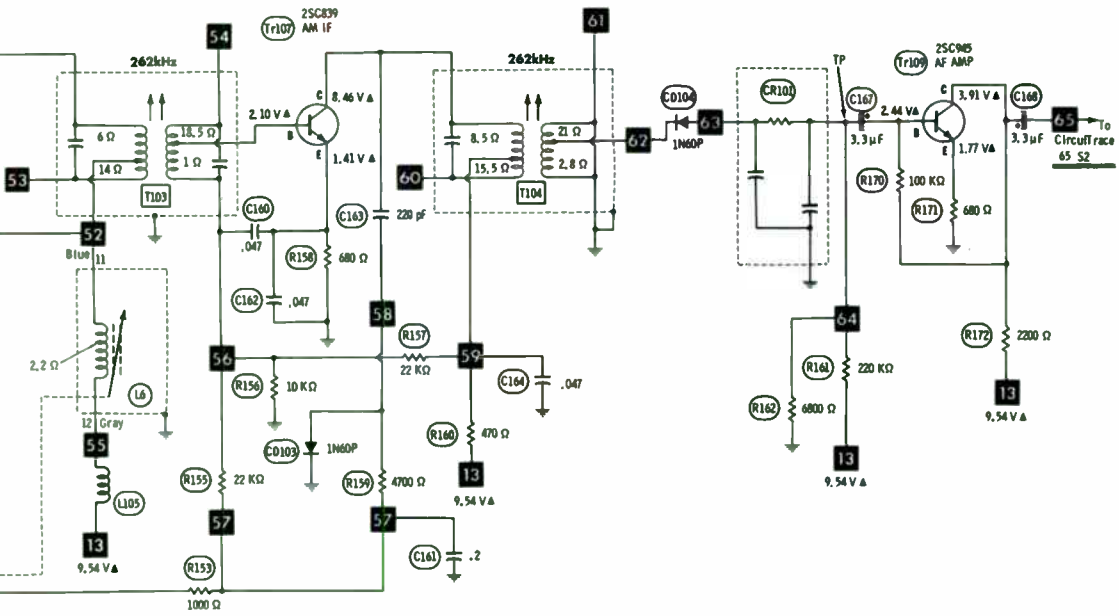
Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow at control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 5% unless noted.
 Value in () used in some versions.

A PHOTOFAC T STANDARD NOTATION SCHEMATIC WITH **CIRCUITRACE**

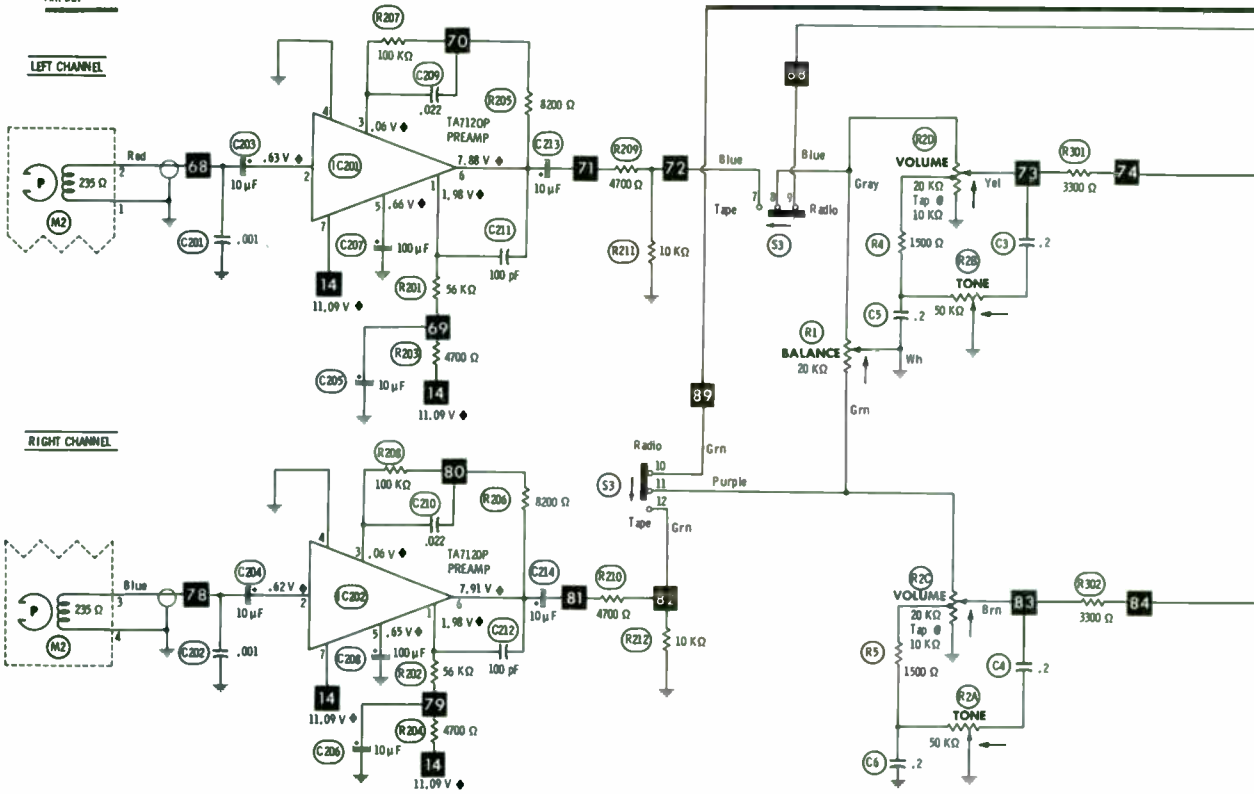
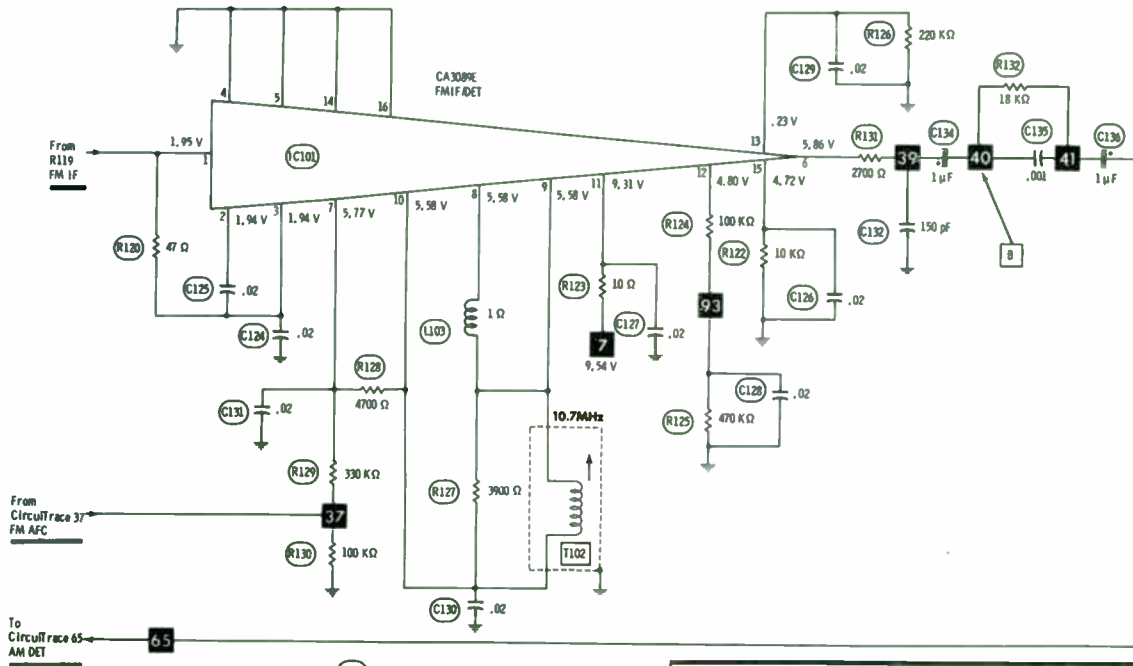
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37 From Circuit trace 37 FM IF



NOTE: DEMAGNETIZE HEADS AFTER SERVICING



- X— Circuitry not used in some versions
- Circuitry used in some versions
- ⊙ See parts list
- ⊛ Nominal value
- ⊕ Ground
- /// Chassis
- ▽ Common tie point

Measurements with switching as shown unless noted:

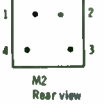
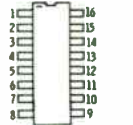
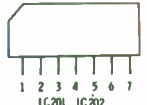
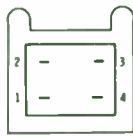
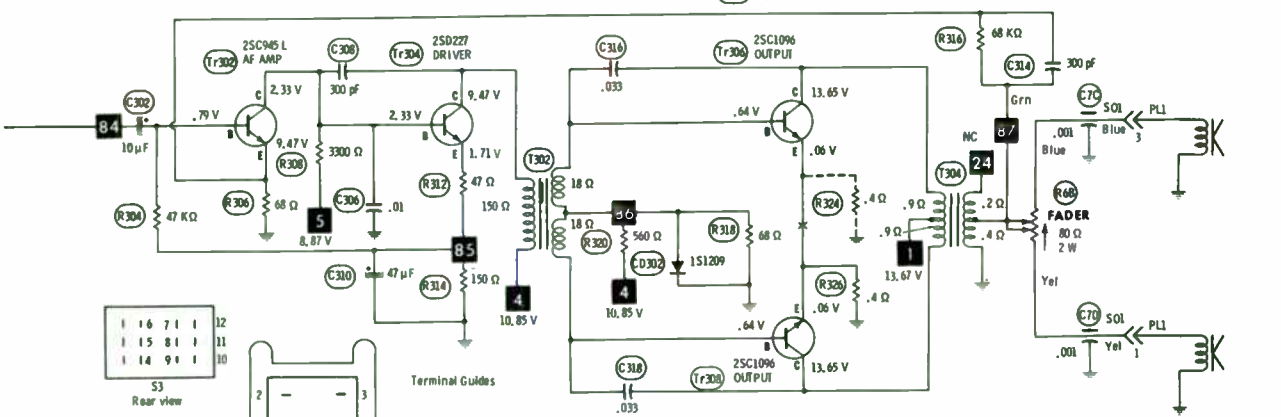
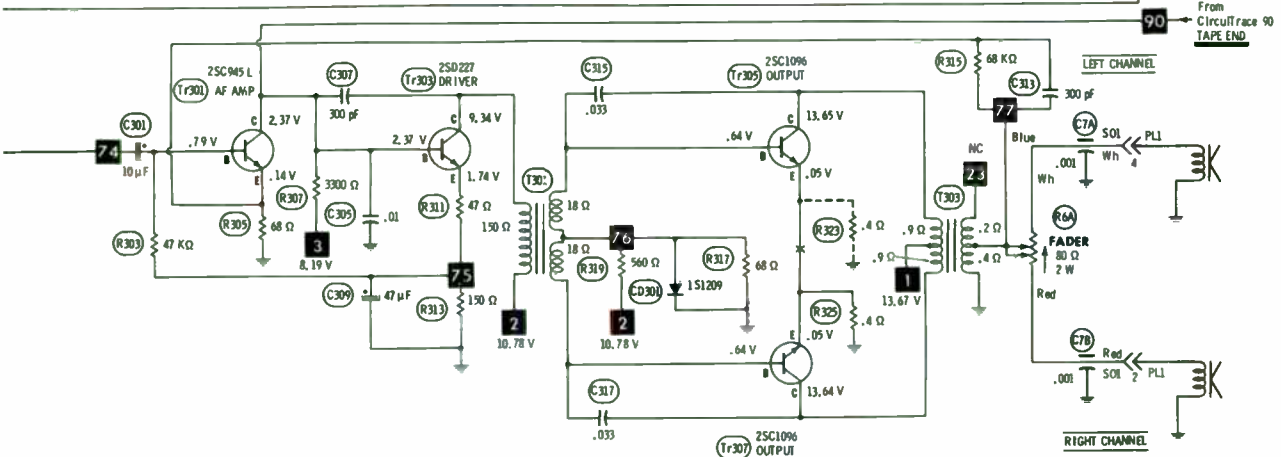
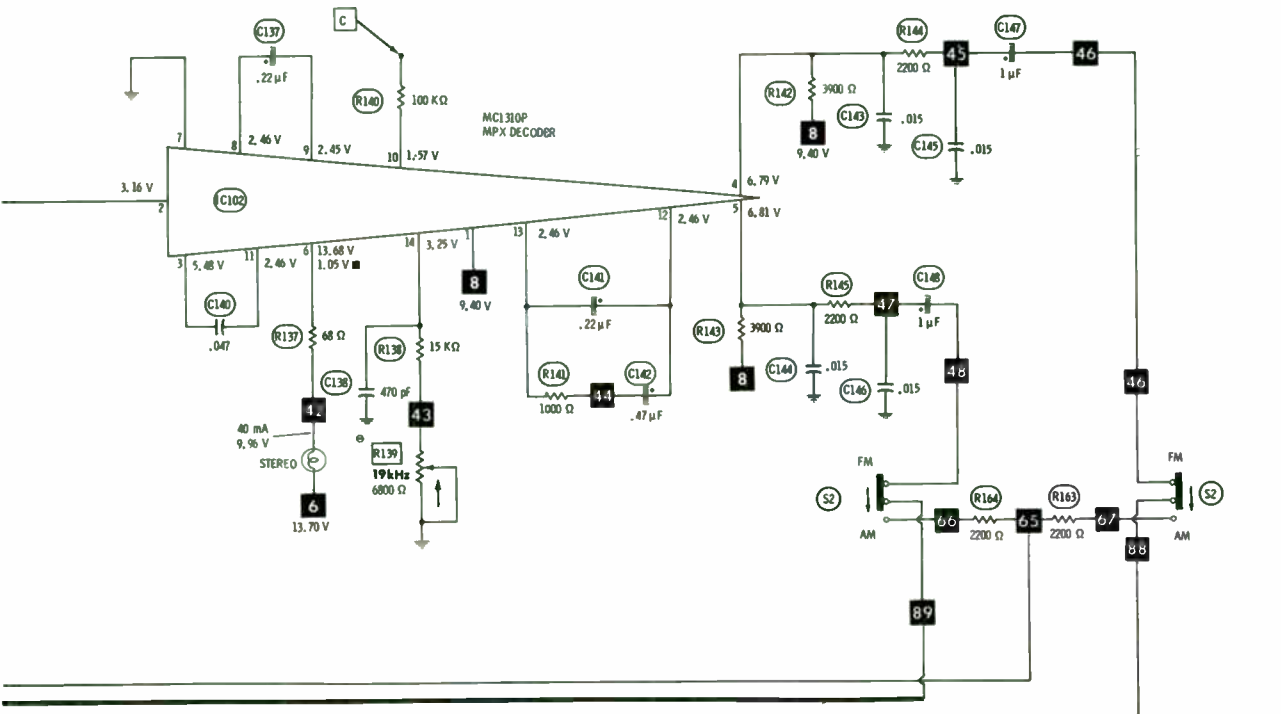
■ FM Stereo signal ▲ AM

◆ Tape play

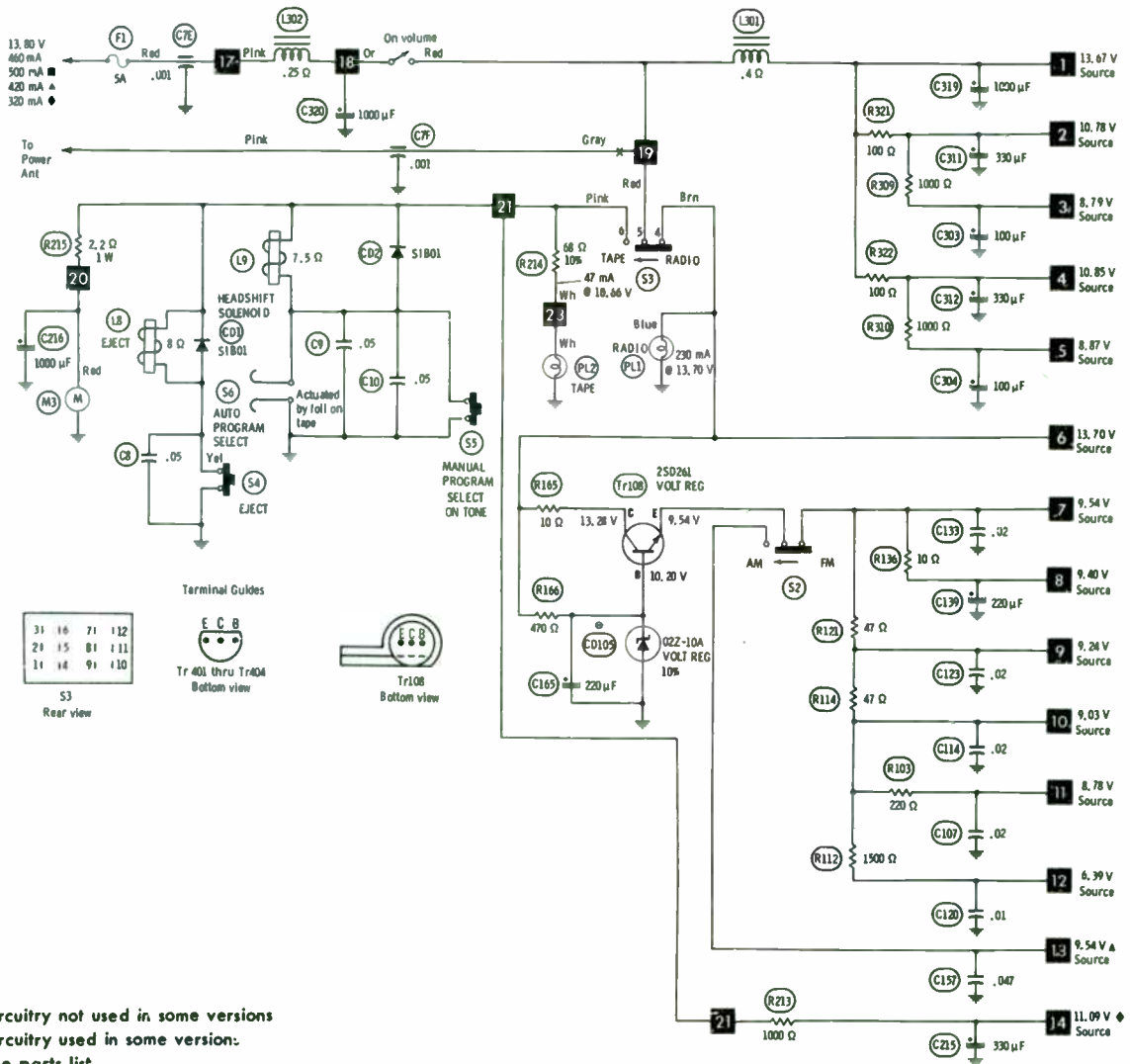
Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow at control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 5% unless noted.
 Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMAT.
 WITH **CIRCUITRACE**

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NOTE: DEMAGNETIZE HEADS AFTER SERVICING



- ✖ Circuitry not used in some versions
 - Circuitry used in some version:
 - ⊙ See parts list
 - ⊛ Nominal value
 - ⊕ Ground
 - ⊞ Chassis
 - ▽ Common tie point
- Measurements with switching as shown unless noted:
- FM Stereo signal ▲ AM
 - ◆ Tape play
- Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow at control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 5% unless noted.
 Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC
 WITH **CIRCUITACE**

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PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. B530 (Solid) Available in 13 Colors 8524 (Stranded) Available in 13 Colors
Shielded Hook-up Wire	Use BELDEN No. 8401 or 8421
Rear Seat Speaker Extension Cable	Use BELDEN No. 6782 (Stranded) Coded Parallel Leads
Bonding Strap	Use BELDEN No. 8661 (3/8 In.) or 8670 (3/4 In.)

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
CD1	S1B01	29810-61	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CD2	S1B01	29810-61	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CD101	ITT-410	29810-62	GE-90	D201		HEPR2503	RE 195	SK3126	RT-262	
CD103	1N60P	29810-63	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CD104	1N60P	29810-63	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CD105	02Z-10A	29810-64	GEZD-10		ZB108		RE 115	SK3061	RT-241	ECG140
CD301	1S-1209	29810-65			FTC301					
CD302	1S-1209	29810-65			FTC301					
IC101	CA-3089E	29810-179			FTC767		RE 332-IC	SK3147	TVCM-39	ECG788
IC102	MC-1310P	29810-180	GEIC-35		PTC735	HEPC6096P	RE 334-IC	SK3160		ECG801
IC201	TA-7120P	29810-181	GEIC-103				RE 340M-IC			ECG1087
IC202	TA-7120P	29810-181	GEIC-103				RE 340M-IC			ECG1087
Tr101	2SK49	29810-171	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Tr102	2SC922	29810-172	GE-17 *	TR-21 *	PTC136 *	HEPS0015 *	RE 13 *	SK3018 *	RT-107A	ECG123A *
Tr103	2SC922	29810-172	GE-17 *	TR-21 *	PTC136 *	HEPS0015 *	RE 13 *	SK3018 *	RT-107A	ECG123A *
Tr104	2SC839	29810-173	GE-61 *	(1R)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Tr105	2SC941R	29810-174	GE-210 *	(1R)2SC380A0	PTC132 *	HEPS0016 *	RE 192	SK3122	RT-107A	ECG199
Tr106	2SC839	29810-173	GE-61 *	(1R)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Tr107	2SC839	29810-173	GE-61 *	(1R)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Tr108	2SD261	29810-175	GE-03 *	TR-25 *	PTC178 *	HEPS3024 *	RE 196 *	SK3137	RT-114 *	ECG192 *
Tr109	2SC945L	29810-176	GE-212	(1R)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Tr301	2SC945L	29810-176	GE-212	(1R)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Tr302	2SC945L	29810-176	GE-212	(1R)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Tr303	2SD227	29810-177	GE-81 *	TR-24 *	PTC123 *	HEPS0011 *	RE 13 *	SK3124	RT-172 *	ECG123A *
Tr304	2SD227	29810-177	GE-81 *	TR-24 *	PTC123 *	HEPS0011 *	RE 13 *	SK3124	RT-172 *	ECG123A *
Tr305	2SC1096	29810-178	GE-28	TR-55	PTC110	HEPS5027	RE 42	SK3054	RT-166	ECG186A
Tr306	2SC1096	29810-178	GE-28	TR-55	PTC110	HEPS5027	RE 42	SK3054	RT-166	ECG186A
Tr307	2SC1096	29810-178	GE-28	TR-55	PTC110	HEPS5027	RE 42	SK3054	RT-166	ECG186A
Tr308	2SC1096	29810-178	GE-28	TR-55	PTC110	HEPS5027	RE 42	SK3054	RT-166	ECG186A

* Lead Configuration may vary from original.

AUDIOVOX 1975 SERIES MODELS

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
C134	1 50V	29810-20	PC1-50	VTT1B63	EV-1615	
C136	1 50V	29810-20	PC1-50	VTT1B63	EV-1615	
C137	.22 35V	29810-22		TDC224M050EL	SD50-R229	
C139	220 16V	29810-24	PC250-25	VTT220G16	EV-1240	
C141	.22 35V	29810-22		TDC224M050EL	SD50-R229	
C142	.47 35V	29810-26		TDC474M050EL	SD50-R479	
C147	1 50V	29810-20	PC1-50	VTT1B63	EV-1615	
C148	1 50V	29810-20	PC1-50	VTT1B63	EV-1615	
C149	33 6.3V	29810-28	PC30-25	VTT33A10	EV-1125	
C165	220 16V	29810-24	PC250-25	VTT220G16	EV-1240	
	100 16V	29810-26 (1)	PC100-16	VTT100F16	EV-1230	
C167	3.3 35V	29810-37		VTT3R3A50	EV-1618	
C168	3.3 35V	29810-37		VTT3R3A50	EV-1618	
C203	10 16V	29810-39		VTT10A25	EV-1222	
C204	10 16V	29810-39		VTT10A25		
C205	10 16V	29810-39		VTT10A25		
C206	10 16V	29810-39		VTT10A25		
C207	100 10V	29810-40				
C208	100 10V	29810-40				
C213	10 16V	29810-39		VTT10A25	EV-1222	
C214	10 16V	29810-39		VTT10A25	EV-1222	
C215	330 16V	29810-43				
C216	1000 16V					
C301	10 16V	29810-39		VTT10A25	EV-1222	
C302	10 16V	29810-39		VTT10A25	EV-1222	
C303	100 16V	29810-45	PC1D0-16	VTT100F16	EV-1230	
C304	100 16V	29810-45	PC100-16	VTT100F16	EV-1230	
C309	47 10V	29810-48	PC50-16	VTT47D16	EV-1226	
C310	47 10V	29810-48	PC50-16	VTT47D16	EV-1226	
C311	330 16V	29810-43	NLW350-16	VTT330H16	EV-1245	
C312	330 16V	29810-43	NLW350-16	VTT330H16	EV-1245	
C319	1000 16V					
C320	1000 16V					

(1) Used in some versions.

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.

Have your local distributor check Sams COUNTER FACTS[®] for the most up-to-date replacement.

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA					
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.		
C1	22	29810-2	DTZ-22	NPO22	CN0422	10TCC-Q22		
C2	120							
C3	.2 12V			UK12-204		MAG12022	HY-370	
C4	.2 12V			UK12-204		MAG12022	HY-370	
C5	.2 12V			UK12-204		MAG12022	HY-370	
C6	.2 12V			UK12-204		MAG12022	HY-370	
C7	.001		29810-4-2 (1)					
	.001	29810-4-1 (2)						
C8	.05	29810-8	DC-503	MGP05	TA150	TG-S50		
C9	.05			DC-503	MGP05	TA150	TG-S50	
C10	.05			DC-503	MGP05	TA150	TG-S50	
C101	22 NPO			DTZ-22	NPO22	CN0422	10TCC-Q22	
C102	5 NPO			DTZ-4R7	NPO4P7	CN0547	10TCC-V47	
C103	20						GKB20000	
C104	10 NPO			DTZ-10	NPO10	CN0410	10TCC-Q10	
C105	.0022			DD-222		GP222	5GA-D22	
C106	10			DTZ-10	NPO10	CN0410	10TCC-Q10	
C107	.02		29810-11	UK50-223		MAG5012		
C108	15	29810-8	OTZ-15	NPO15	CN0415	10TCC-Q15		
C109	20						GKB20000	
C110	5 NPO			DTZ-4R7	NPO4P7	CN0547	10TCC-V47	
C111	.51pF	29810-13						
C112	220	29810-11	DD-221		GP322	10TS-T22		
C113	.02			UK50-223		MAG5012		
C114	.02			UK50-223		MAG5012		
C115	5 N750		29810-15				10TCU-V50	
C116	30 NPO			DTZ-33	NPO33	CN0433	10TCC-Q33	
C117	10 NPO			DTZ-10	NPO10	CN0410	10TCC-Q10	
C118	8		29810-17				GKB10000	
C119	5 N750		29810-15				10TCU-V50	
C120	.01						1P8-S10	
C121	.2 12V				WMF1S1	EWFI1A110	HY-370	
C122	.02	29810-11	UK12-204		MAG12022			
C123	.02	29810-11	UK50-223		MAG5012			
C124	.02	29810-11	UK50-223		MAG5012			
C125	.02	29810-11	UK50-223		MAG5012			
C126	.02	29810-11	UK50-223		MAG5012			
C127	.02	29810-11	UK50-223		MAG5012			
C128	.02	29810-11	UK50-223		MAG5012			
C129	.02	29810-11	UK50-223		MAG5012			
C130	.02	29810-11	UK50-223		MAG5012			
C131	.02	29810-11	UK50-223		MAG5012			
C132	150	29810-11	DD-151		GP315	10TS-T15		
C133	.02			UK50-223		MAG5012		
C135	.001			DD-102G		GP210	5GA-010	
C138	470				GP1000		MMA-471	
C140	.047				CD15FD471J03	SX347	TG-S50	
C143	.015			DC-503	MGP05	TA150		
C144	.015			UK50-153		MAG50115		
C145	.015			UK50-153		MAG50115		
C146	.015			UK50-153		MAG50115		
C150	.047 25V			UK25-503		MAG2515	HY-735	
C151	70	29810-30						
C152	30			OTZ-33	NPO33	CN0433	10TCC-Q33	
C153	80			OD-820		GP482	10TS-Q82	
C154	.0022		29810-33			M192P2229R8	192P2229R8	
C155	.01		29810-34				1P8-S10	
C156	.0047					WMF1S1	EWFI1A110	1P8-S10
C157	.047				DC-503	MGP05	M192P4729R8	192P4729R8
C158	200 N470			29810-35			TA150	TG-S50
C159	70			29810-30				10TCT-T20
C160	.047 25V			UK25-503		MAG2515	HY-735	
C161	.2 12V		UK12-204		MAG12022	HY-370		
C162	.047 25V		UK25-503		MAG2515	HY-735		
C163	220		OD-221		GP322	10TS-T22		
C164	.047		UC-503		TA150	TG-S50		
C201	.001			MGP05	DPMS6D1	1P8-D10		
C202	.001			DPMS6D1	DPMS6D1	1P8-O10		
C209	.022				M192P2239R8	192P2239R8		
C210	.022				M192P2239R8	192P2239R8		
C211	100		DD-101	GP100	GP310	10TS-T10		
C212	100		DD-101	GP100	GP310	10TS-T10		
C305	.01 25V		UK25-103		MAG2511	HY-520		
C306	.01 25V		UK25-103		MAG2511	HY-520		
C307	300		DD-301	GP300	GP330	10TS-T30		
C308	300		DD-301	GP300	GP330	10TS-T30		
C313	300		DD-301	GP300	GP330	10TS-T30		
C314	300		DD-301	GP300	GP330	10TS-T30		
C315	.033		UK50-333		MAG50133			
C316	.033		UK50-333		MAG50133			
C317	.033		UK50-333		MAG50133			
C318	.033		UK50-333		MAG50133			

(1) Assembly consisting of 6 feed-thru capacitors. Used in some versions.
 (2) Assembly consisting of 5 feed-thru capacitors. Used in some versions.

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R1	Balance	20K	29810-101				
R2A	Tone-Right	50K	VR128 (5)				
B	Tone-Left/Manual	50K	29810-102				
C	Program Switch		VR232 (5)				
C	Volume-Right	20K Tap @ 10K					
O	Volume-Left/Power	20K Tap @ 10K					
R6A	Fader-Left	80 2W	29810-103				
B	Fader-Right	80 2W	VR234 (5)				
R139	19kHz	6800	29810-135				

(5) Number on unit.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	FM Antenna	(1)			
L2	FM RF	(1)			
L3	FM Oscillator	(1)			
L4	AM Antenna	(1)			
L5	AM RF	(1)			
L6	AM Osc. Tuning	(1)			
L7	AM Ant. Choke (4.7uH)	29810-82	SL-4.7	70F476AI	
L10	RF Choke				
L11	RF Choke				
L12	RF Choke				
L14	RF Choke				
L101	RF Choke (2.2uH)	29810-85	LH-2.2	70F226AI	
L102	10.7MHz Trap (1uH)	29810-86	FL-1.0	74F106AP	
L103	RF Choke (22uH)	29810-87	LH-22		1 Ohm
L104	AM Oscillator	29810-88	UL-809 (2)		
L105	Image Trap (4.7uH)	29810-89	LH-4.7		
T101	IF (10.7MHz)	29810-161	IT-8308		
T102	Quadrature (10.7MHz)	29810-162	IT-3089 (2)		
T103	IF (262kHz)	29810-163	IT-808A (2)		
T104	IF (262kHz)	29810-164	IT-2188-1 (2)		

(1) Part of M1 (Tuner).
(2) Number on unit.

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L301	180	.4	2.4mH	29810-90			(1) Number on unit.
L302	500	.25	2.1mH	NL-6 (1)			

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T301	2.8	1	1	29810-165			(1) Number on unit.
T302	2.8	1	1	DT-7 (1)			
				29810-165			
				DT-7 (1)			

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Soms COUNTER FACTS® for the most up-to-date replacement.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T303	54 C.T.	14 Tap @ 8	29810-166			(1) Number on unit.
T304	54 C.T.	14 Tap @ 8	OT-6 (1) 29810-166 OT-6 (1)			

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	5A	29810-68		AGC5	HDJ	312005	150145	FG5-2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF101	Filter	29810-66 (2)	Ceramic, 10.7MHz, SFE-10.7MA-5 (1)
CF102	Filter	29810-66 (2)	
CR101	Network	29810-67	AM Detector
L8	Solenoid	29810-83	Eject
L9	Solenoid	29810-84	Headshift
M1	Tuning Coil Assembly	29810-81	AM/FM
M2	Tape Head	29810-69	8-Track Stere Play, TH-20B2 (1)
M3	Motor	29810-70	Tape Transport MYT-5AD3 (1) (2000 rpm @ 13.51V)
S2	Switch	29810-151	AM/FM
S3	Switch	29810-152	Tape/Radio
S4	Switch	29810-153	Eject
S5	Switch		Manual Program Selector (On Tone)
S6	Switch	29810-289	Auto Program Selector
S10	Switch	29810-154	Local/DX
	Printed Circuit Board	29810-242	AM/FM/MPX, MR-3620A (1)
	Printed Circuit Board	29810-243	Preamplifier, MR-3622 (1)
	Printed Circuit Board	29810-244	Audio, MR-3621A (1)

(1) Number on unit.

(2) When replacing, CF101 and CF102 should also be replaced.

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Escutcheon	29810-218	Button, AM/FM	29810-230
Tape Door Assembly (Includes Dial Scale)	29810-217	Knob, Volume/Tuning	29810-233
Tape Door Shaft	29810-270	Knob, Balance	29810-229
Tape Door Spring	29810-276	Knob, Tone/Fader	29810-232
Dial Pointer	29810-250	Button, Local/Dist	29810-231



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index



MODEL CT-9300

ADJUSTMENTS

CARTAPE MODEL CT-9300

IMPORTANT: Before making any adjustments, refer to "General Servicing Information" on page 4.

1. All voltage measurements referred to in this chart are made at a tape speed of 1 7/8 ips with a digital meter.
2. All torque measurements are made at a tape speed of 1 7/8 ips with a spring scale applied to a point 1 inch from spindle center.
3. All pressure measurements are made by using a spring scale to determine that point at which pressure is just removed.

ADJUST	REMARKS
Play Take-up Torque	Nominal value 1/2 oz. No adjustment provided.
Pressure Roller Pressure	Nominal value 8 oz. No adjustment provided.
Head Azimuth	Play an azimuth test cassette and adjust B1 for maximum across the speaker.

TROUBLE CHART

IMPORTANT: Before consulting this chart, refer to "General Servicing Information" on page 4.

SYMPTOM	REMARKS
Take-up erratic or inoperative in play.	Spindle (61) dirty, worn, or binding. Flywheel (67) dirty or binding. Belt (64) dirty, worn, or broken.
Take-up erratic or inoperative in fast forward	Spindle (61) dirty, worn or binding. Flywheel (67) dirty or binding. Belt (64) dirty, worn, or broken. Lever (87) bent or out of place.
Capstan does not rotate	Belt (63) dirty, worn or broken. Flywheel binding. Motor defective or not supplied with power.
Tape rides up and down between capstan and pressure roller.	Capstan bent. Roller (77) worn. Excessive take-up torque.

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TROUBLE CHART (Continued)

IMPORTANT: Before consulting this chart, refer to "General Servicing Information" on page 4.

SYMPTOM	REMARKS
Wow or flutter	Roller (77) dirty or worn. Belt (64) dirty or worn. Bearing (88) binding. Cassette defective. Motor defective. Excessive take-up torque.

MECHANICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
61	9300061	Take-up Spindle (Assembly)	77	9300077	Pressure Roller (Assembly)
62	9300062	Cartridge Spring	78	9300078	Pressure Roller Spring
63*	9300063*	Flywheel Drive Belt*	79	9300079	Auto-stop Plate
64*	9300064*	Take-up Belt*	80	9300080	Motor Pulley
65	9300065	Azimuth Adjustment Spring	82	9300082	Reset Plate
67	9300067	Flywheel	83	9300083	Reset Plate Spring
68	9300068	Head Plate Spring	84	9300084	Cassette Guide
70	9300070	Switch Spring	85	(1)	Flywheel Support Bracket
71	9300071	Switch Spring Stopper	86	(1)	Spindle Tension Spring
73	9300073	Micro Switch Actuator Spring	87	(2)	Fast Forward/Eject Lever
74	9300074	Switch Plate	88	(2)	Flywheel Bearing

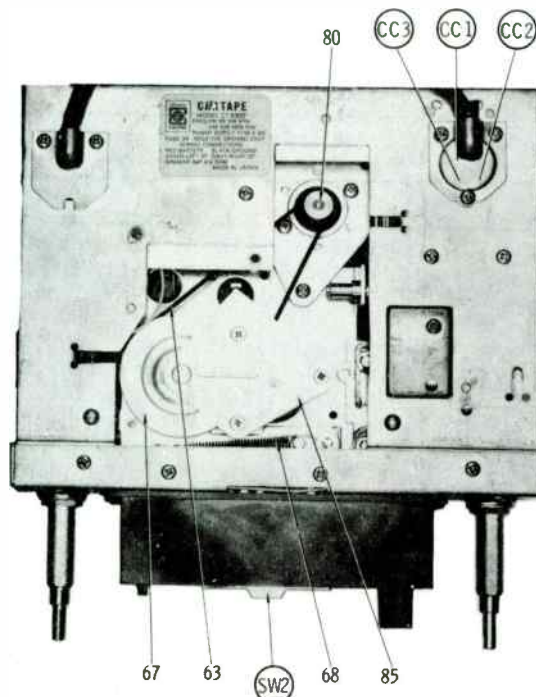
- (1) Part of Assembly (61).
- (2) Part of Chassis Assembly, Part No. 9300069.
- * Flywheel Drive Belt - E-V/GAME Replacement Number 1425-10.
WALSCO Replacement Number 1425-10.
- * Take-up Belt - E-V/GAME Replacement Number 1425-26.
WALSCO Replacement Number 1425-26.

CLEANING

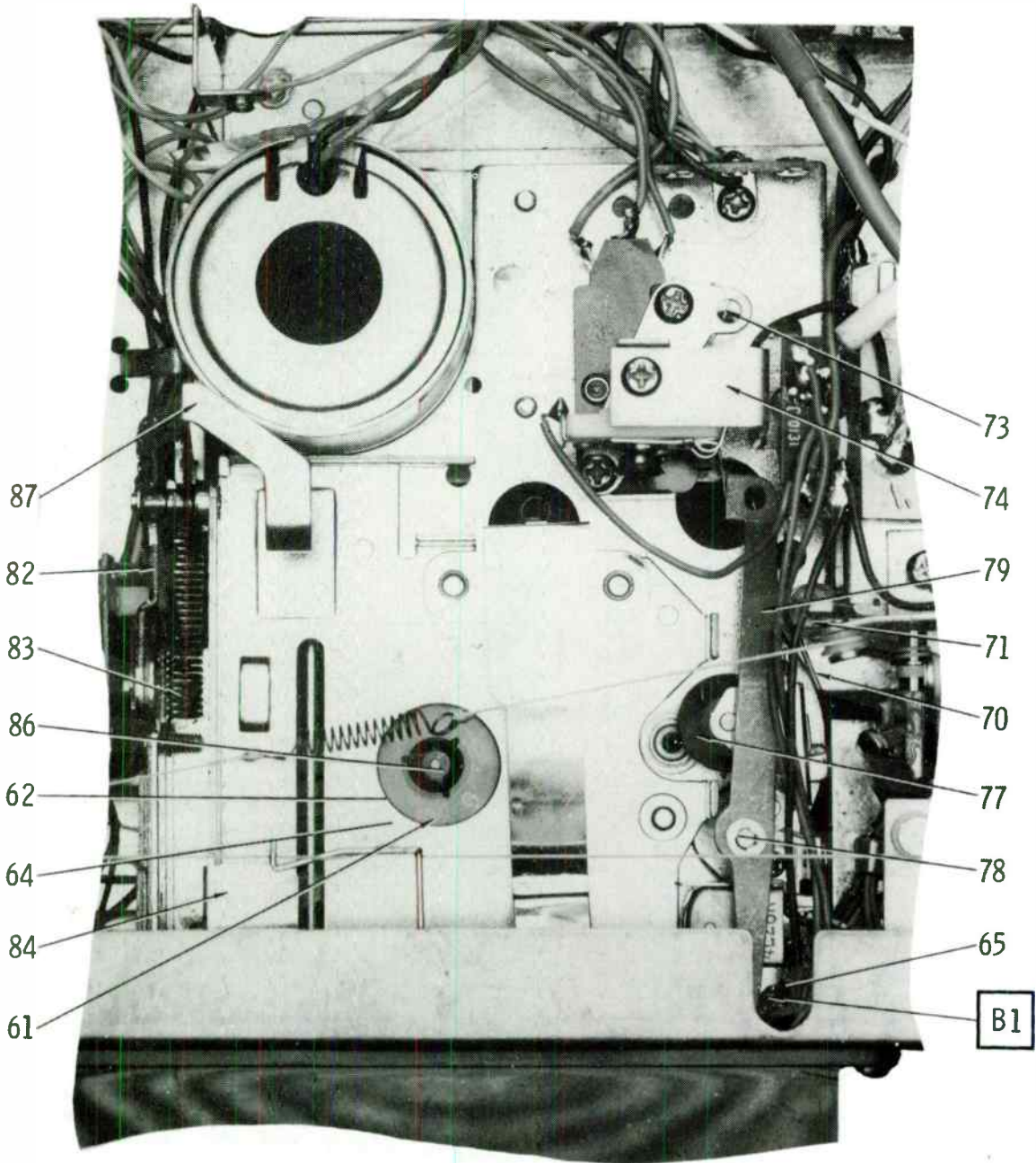
LUBRICATING

HEAD DEMAGNETIZING

Refer to "General Servicing Information" on page 4.



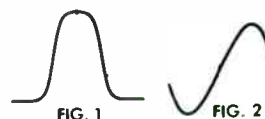
OVERALL-BOTTOM VIEW



TAPE DECK-TOP VIEW

ALIGNMENT INSTRUCTIONS

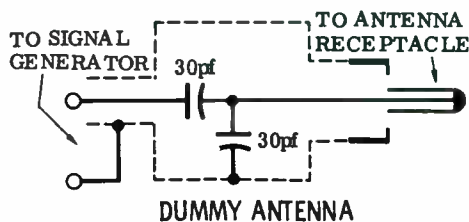
Check for specified source voltage.
 Use only enough generator output to provide a usable indication.
 Suggested Alignment Tools: GC Electronics:
 ALL.....5000



Connect low sides to generator and indicator to ground unless specified otherwise.

GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1uF to Ant Input low side to ground.	455kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	IFT6, IFT5	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	T4, T3, T2	"
Thru dummy antenna to antenna input.	600kHz	Tune to signal	Output meter across voice coil.	L9	Adjust for maximum. Repeat alignment until no further improvement is noted.

With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust T2 for maximum output. Antenna adjustment T2 is located inside tape door right rear corner.



FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to Ant Input.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to Junction of D3 & CR1.	(1) IFT3, IFT2, IFT	Adjust for maximum.
"	"	DC probe of VTVM to Junction of R11, R12 & C7.	IFT4	Adjust for zero reading. A positive or negative reading will be obtained on either side of correct setting.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to Ant Input.
 Use 60-hertz, frequency-modulated signal, 450kHz sweep.
 Use 60-hertz sawtooth voltage in scope for horizontal deflection.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz 450kHz Sweep	Point of non-interference	Vert input of scope to Junction of D3 & CR1.	(1) IFT3, IFT2, IFT	Disconnect stabilizing capacitor C10. Adjust for maximum gain and symmetry of response similar to Fig. 1. Reconnect C10.
"	"	Vert input of scope to Junction of R11, R12 & C7.	IFT4	Adjust IFT4 for maximum amplitude and straightness of line similar to Fig. 2. Readjust IFT3.

(1) Before adjusting, vary generator frequency slightly. Maximum output indicates exact IF.

FM RF ALIGNMENT—SELECTOR IN FM POSITION

Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
108MHz Unmodulated	High Freq End Stop	DC probe of VTVM to Junction of D3 & CR1.	OT	Adjust for maximum.

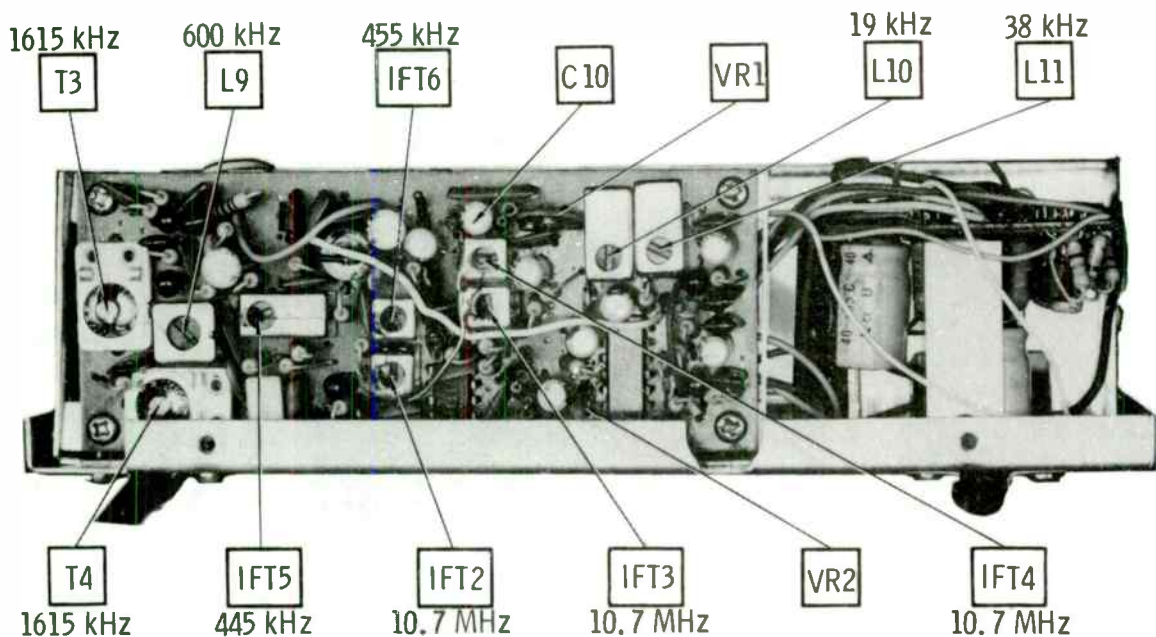
ALIGNMENT INSTRUCTIONS (Continued)

FM STEREO MULTIPLEX ALIGNMENT USING FM STEREO SIGNAL GENERATOR ($\pm .0001\%$ ACCURACY)

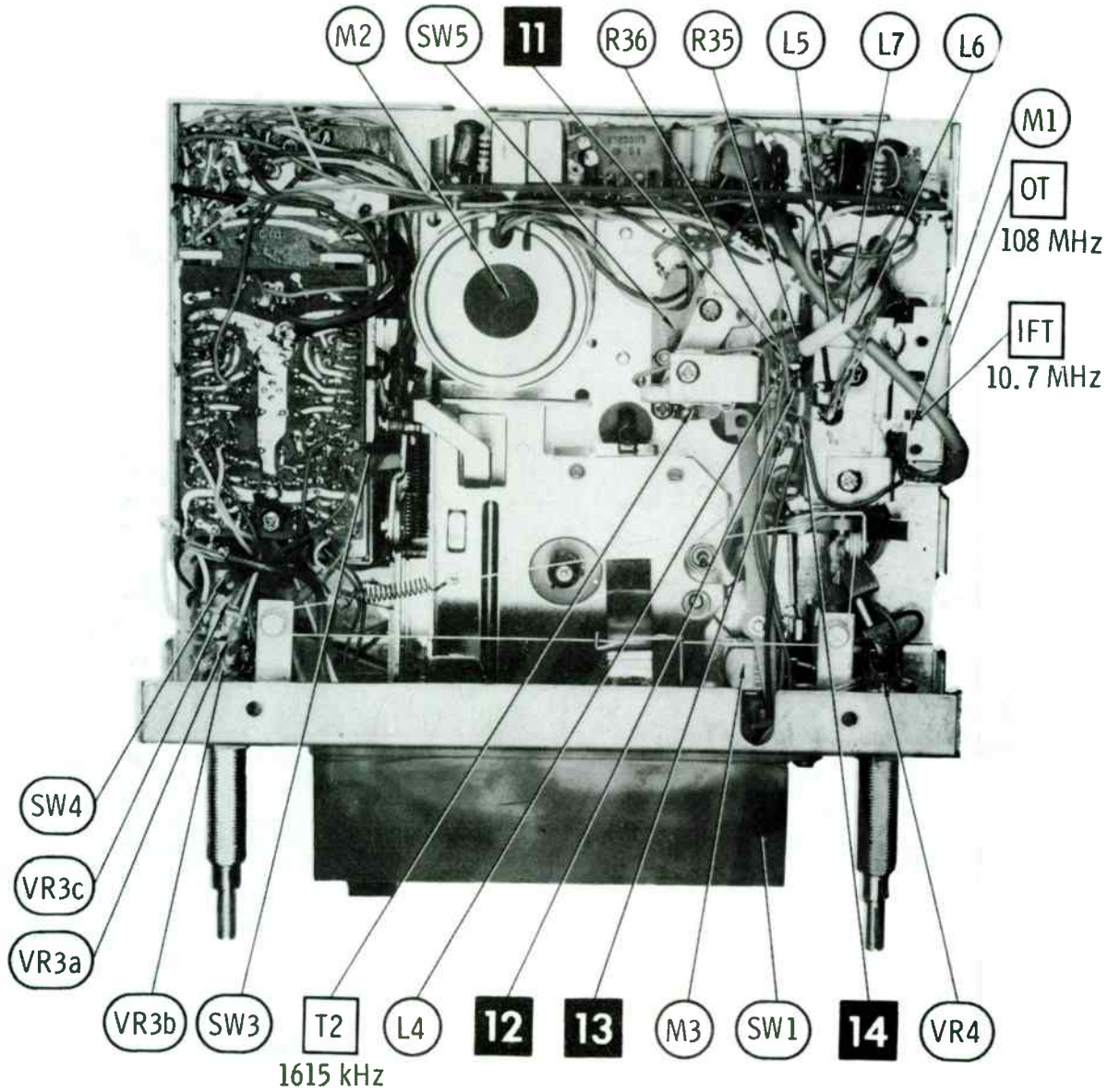
High side of generator thru 47K to Junction of R11, R12 & C7.			
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
Modulated Left Channel	Vert input of scope to Junction of C16 & R21.	L10,L11,VR2	Adjust for MINIMUM. This step should require only slight adjustment.
Modulated Right Channel	Vert input of scope to Junction of C17 & R22.		Check for MINIMUM. If necessary, make compromise adjustment of L10,L11,VR2.

Tune radio to stereo station. Adjust VR1 for .62V on base fo TR2.

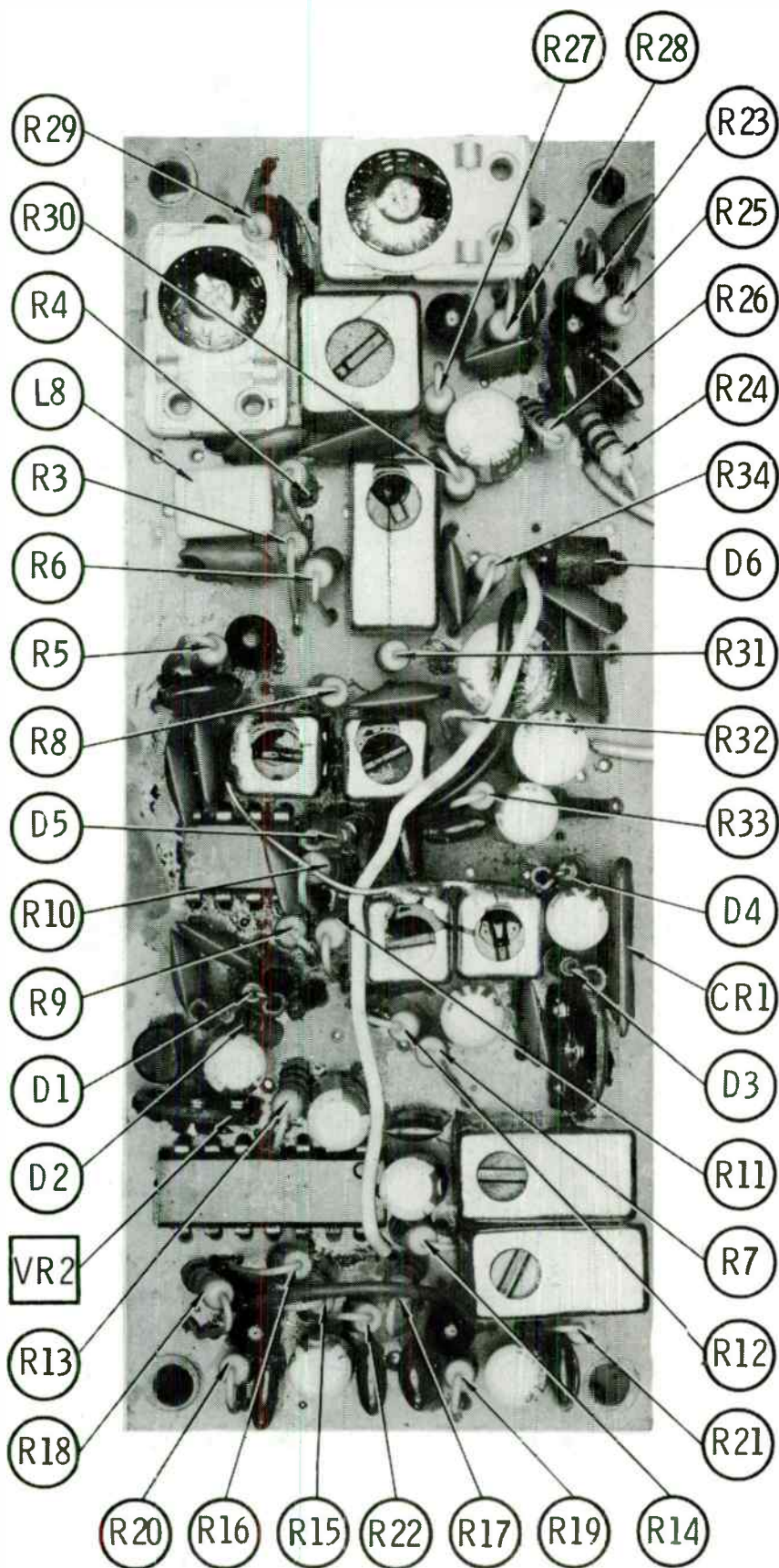
CARTAPE MODEL CT-9300



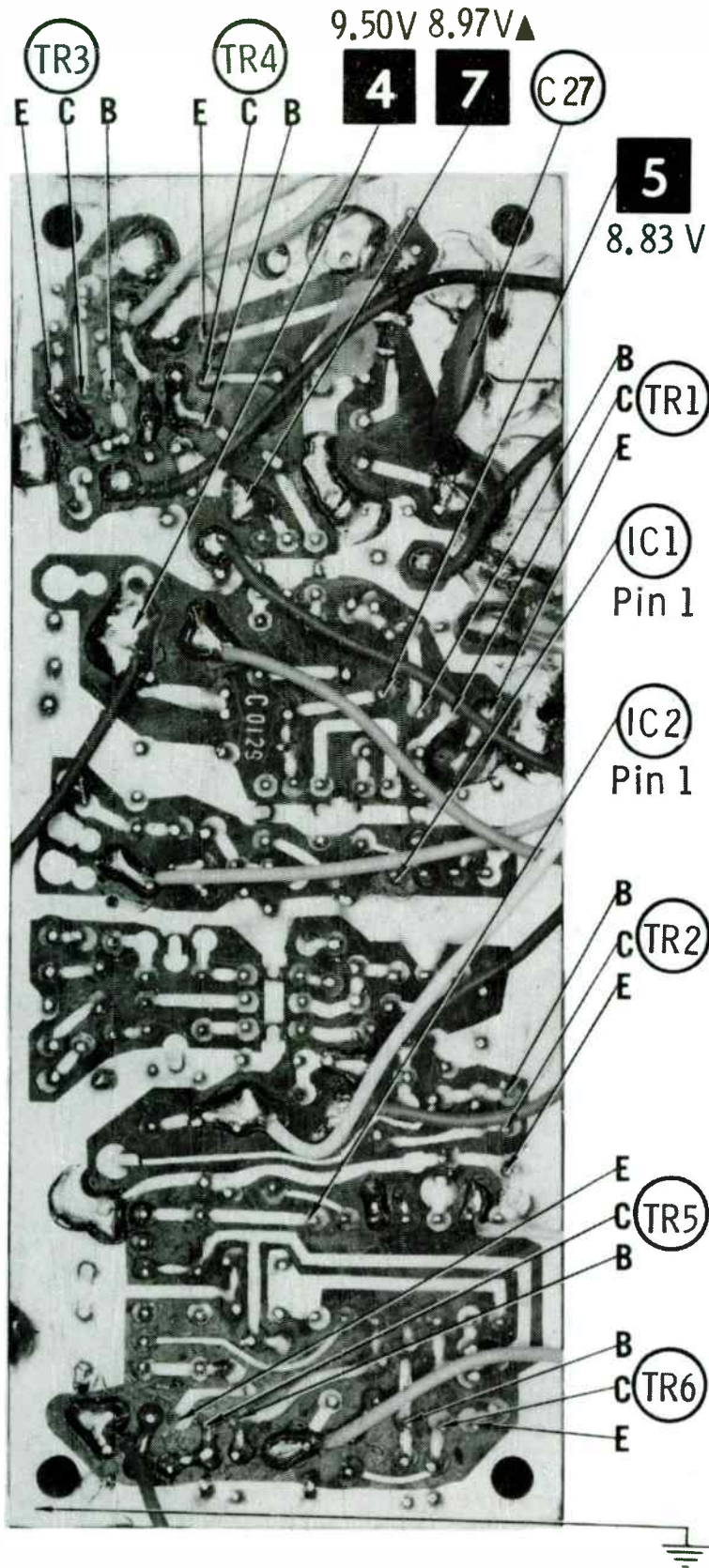
CHASSIS-REAR



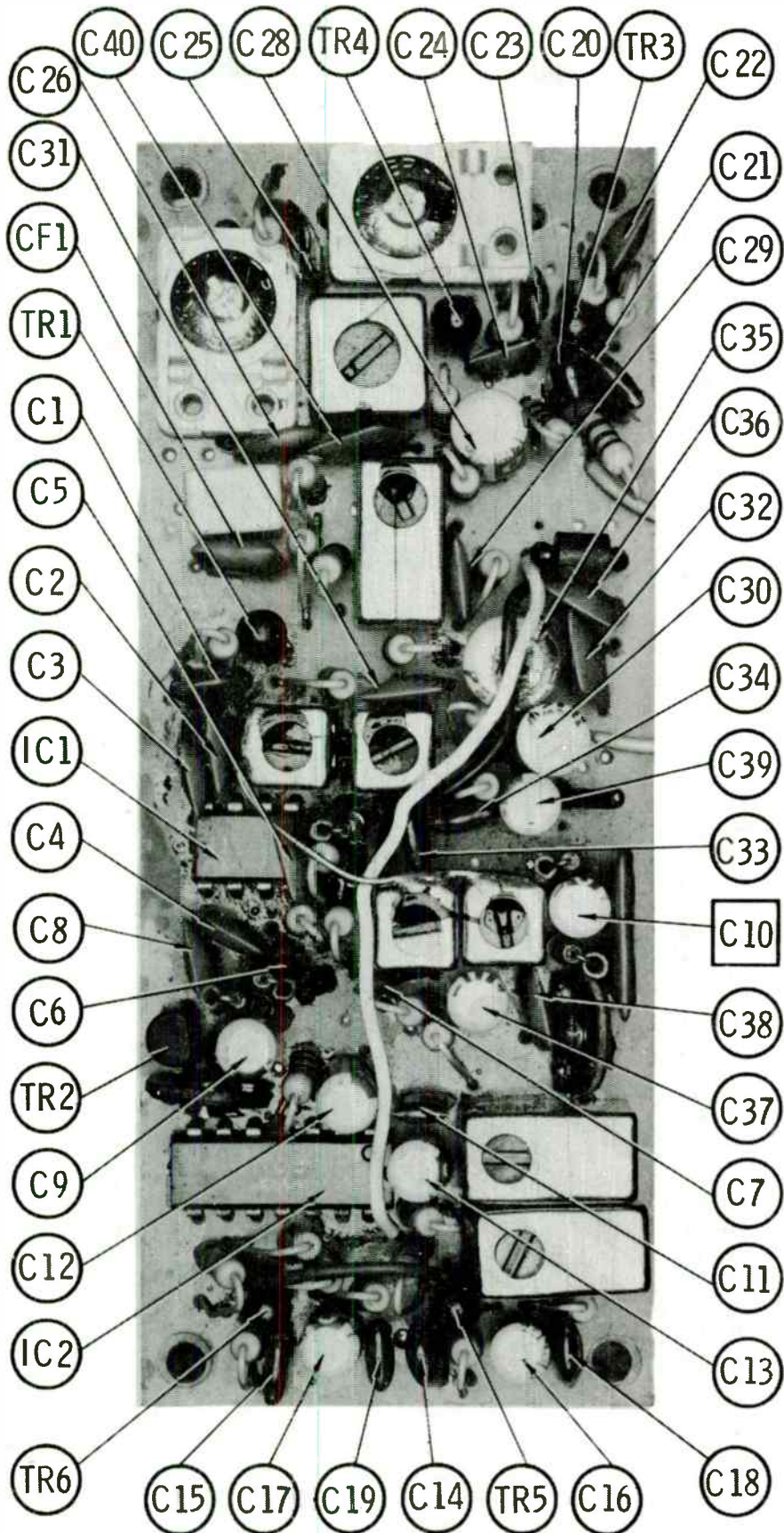
OVERALL-TOP VIEW



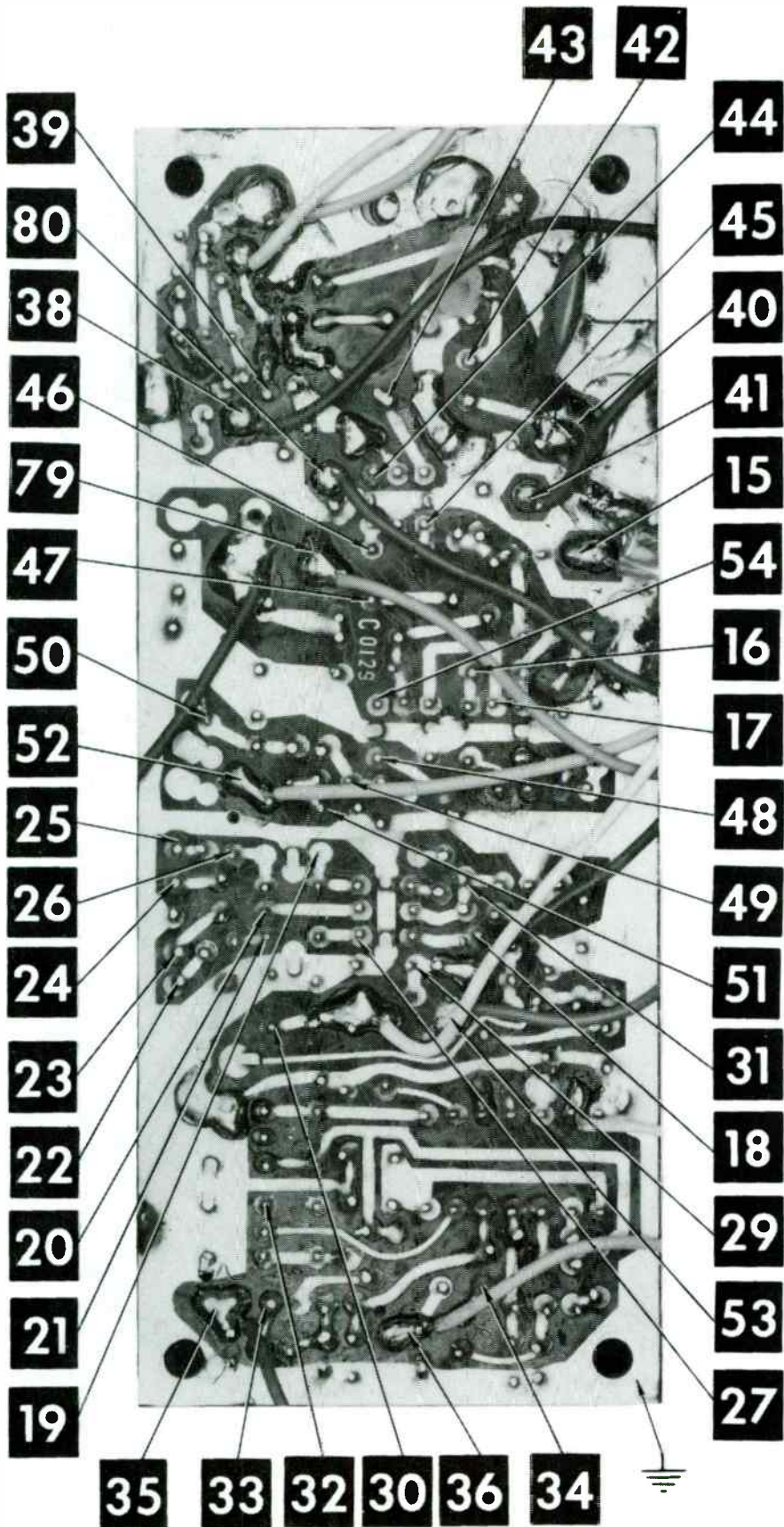
AM/FM/MPX BOARD



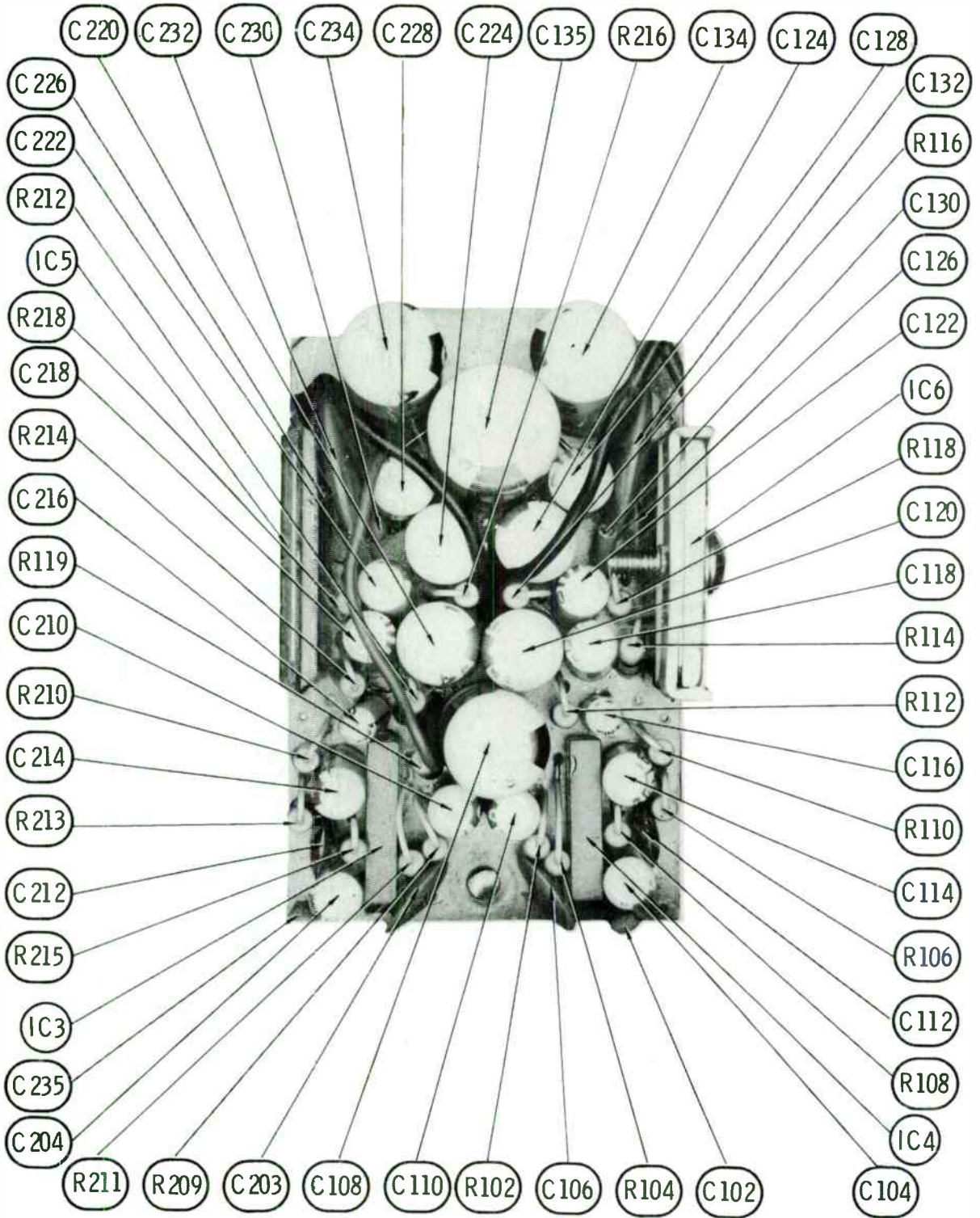
AM/FM/MPX BOARD



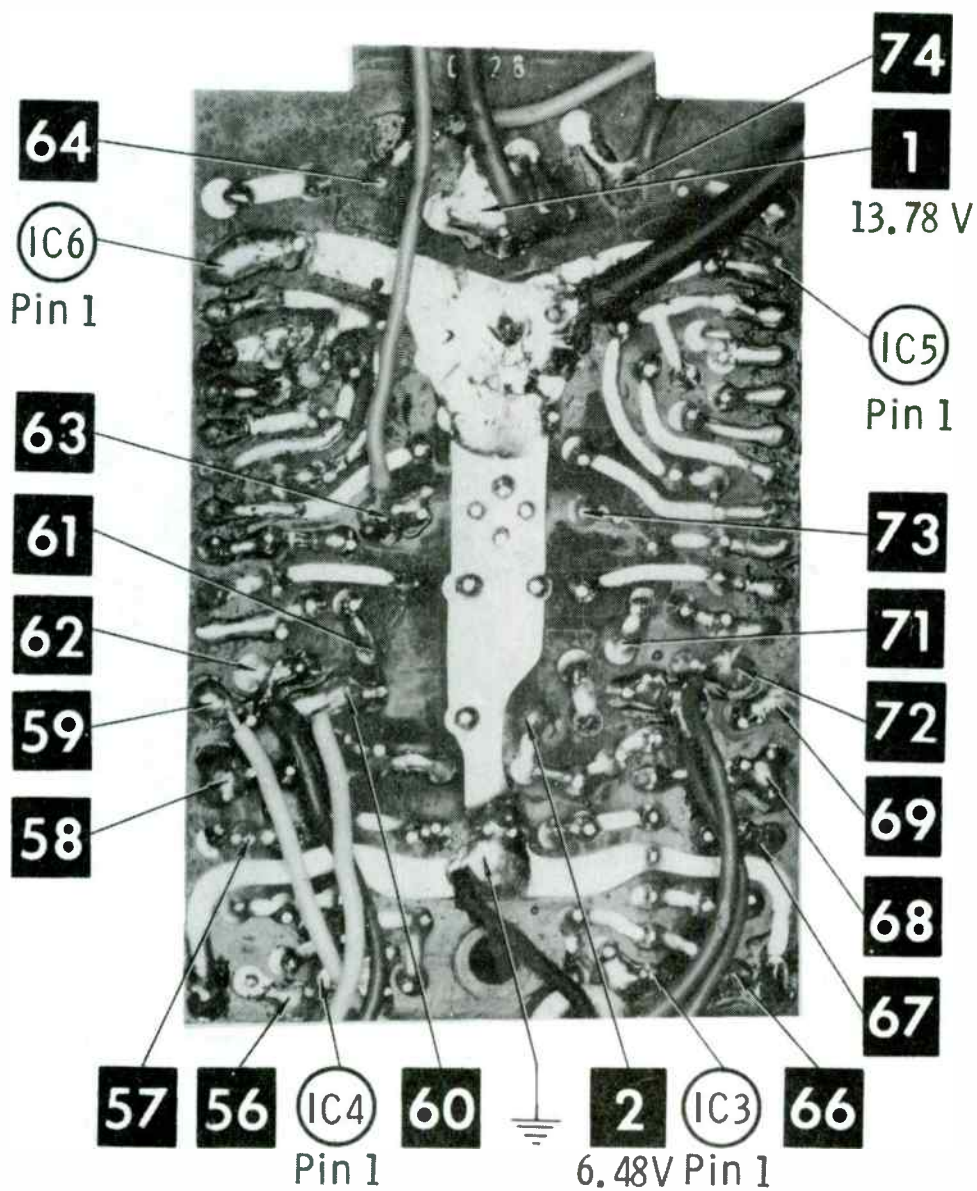
AM/FM/MPX BOARD



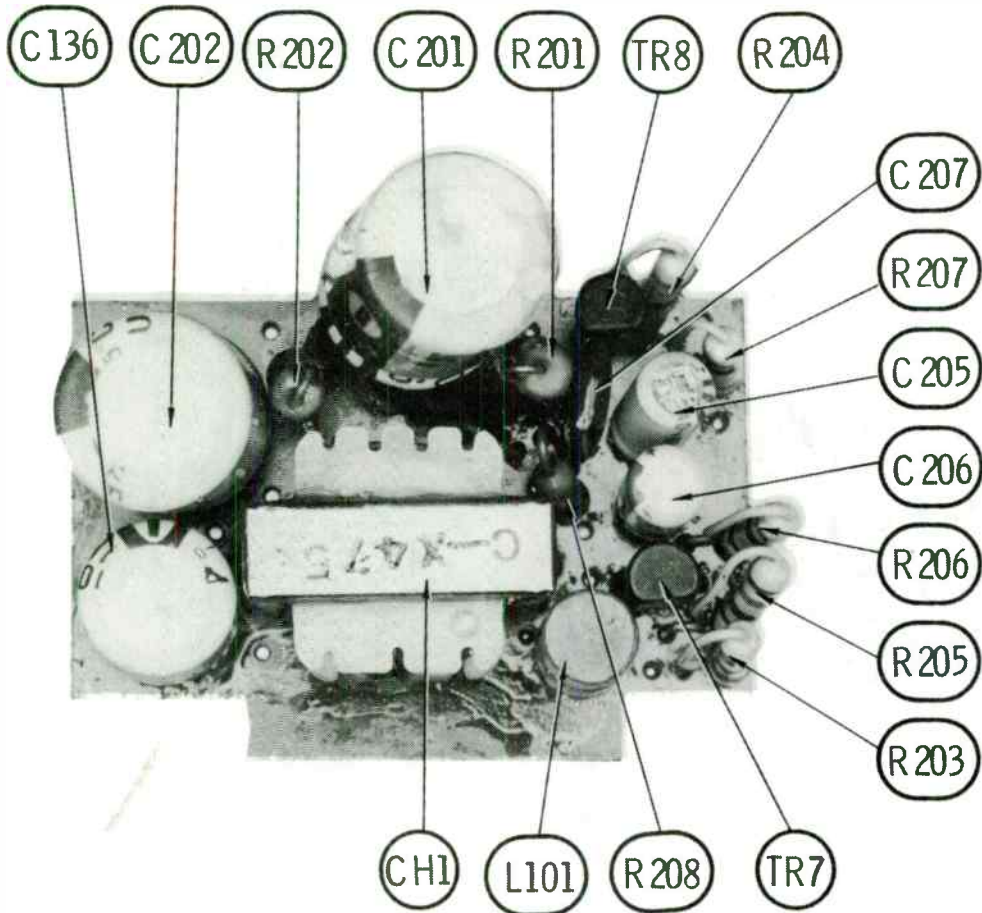
AM/FM/MPX BOARD



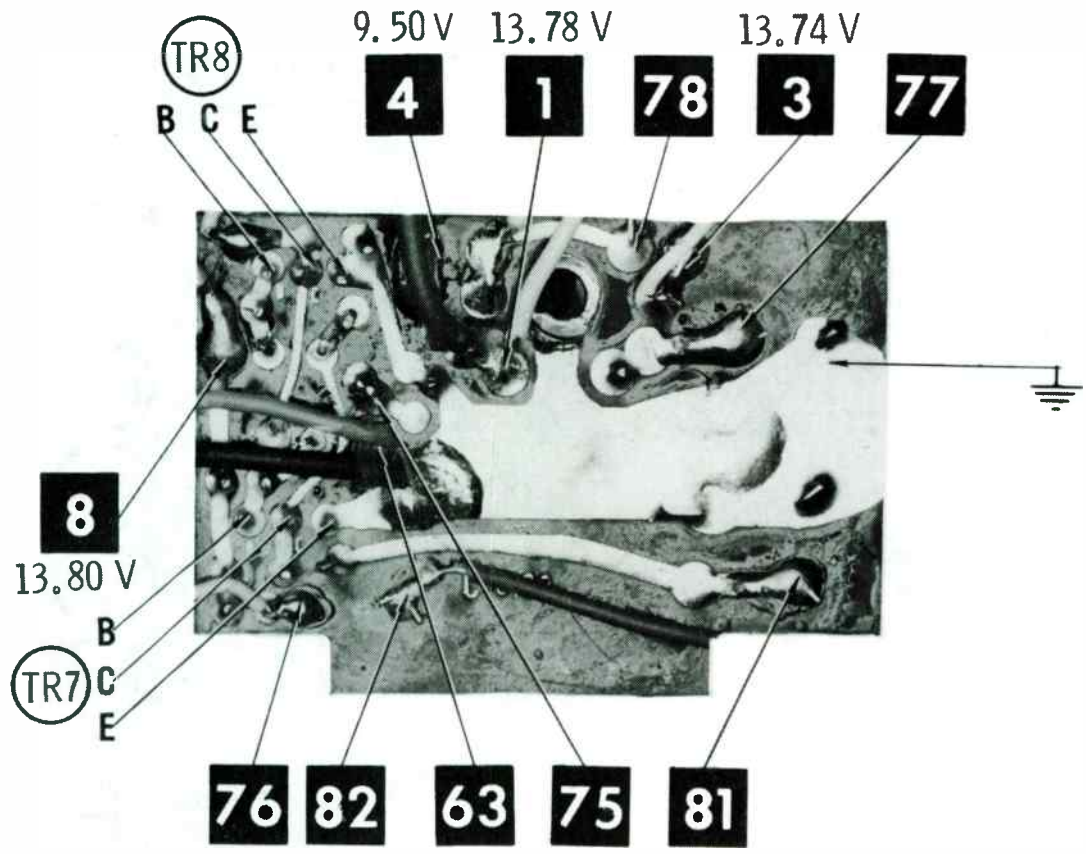
AUDIO BOARD



AUDIO BOARD



POWER SUPPLY BOARD



POWER SUPPLY BOARD

PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS[®] for the most up-to-date replacement.

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 13 Colors 8524 (Stranded) Available in 13 Colors
Shielded Hook-up Wire	Use BELDEN No. 8401 or 8421
Rear Seat Speaker Extension Cable	Use BELDEN No. B782 (Stranded) Coded Parallel Leads
Bonding Strap	Use BELDEN No. 8661 (3/8 In.) or 8670 (3/4 In.)

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D2	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D3	1S188		1N60(7)	1N60 (7)	PTC206(6)	HEPR9135(7)	RE 86(6)	SK3088(7)	RT-263(7)	ECG110(6)
D4	1S188									
D5	1S188		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D6	SZ9		GEZD-9.1		Z89.18		RE 114		RT-240	ECG139
IC1	LA1111P		GEIC-69							ECG1002
IC2	LA3301		GEIC-38		PTC721	HEPC6094P	RE 326-IC		TVCM-6	ECG1006
IC3	TA7063		GEIC-94				RE 329-IC			ECG1103
IC4	TA7063		GEIC-94				RE 329-IC			ECG1103
IC5	TA7204		GEIC-182							ECG1153
IC6	TA7204		GEIC-182							ECG1153
TR1	2SC930		GE-60 *	(IR)2SC772	PTC132 *	HEPS0016 *	RE 9	SK3039 *	RT-308	ECG229 *
TR2	2SC536		GE-212	(IR)2SC536	PTC121 *	HEPS0016 *	RE 192 *	SK3124	RT-107A	ECG199
TR3	2SC929		GE-86	(IR)2SC828A	PTC132 *	HEPS0016 *	RE 28 *	SK3039 *	RT-108 *	ECG229 *
TR4	2SC929		GE-86	(IR)2SC828A	PTC132 *	HEPS0016 *	RE 28 *	SK3039 *	RT-108 *	ECG229 *
TR5	2SA608		GE-89 *	TR-20 *	PTC103 *	HEPS0013 *	RE 26 *	SK3114 *	RT-126A *	ECG159 *
TR6	2SA608		GE-89 *	TR-20 *	PTC103 *	HEPS0013 *	RE 26 *	SK3114 *	RT-126A *	ECG159 *
TR7	2SC536		GE-212	(IR)2SC536	PTC121 *	HEPS0016 *	RE 192 *	SK3124	RT-107A	ECG199
TR8	2SC1175		GE-210 *	TR-24 *	PTC123 *	HEPS0025 *	RE 17 *	SK3122	RT-300	ECG128 *

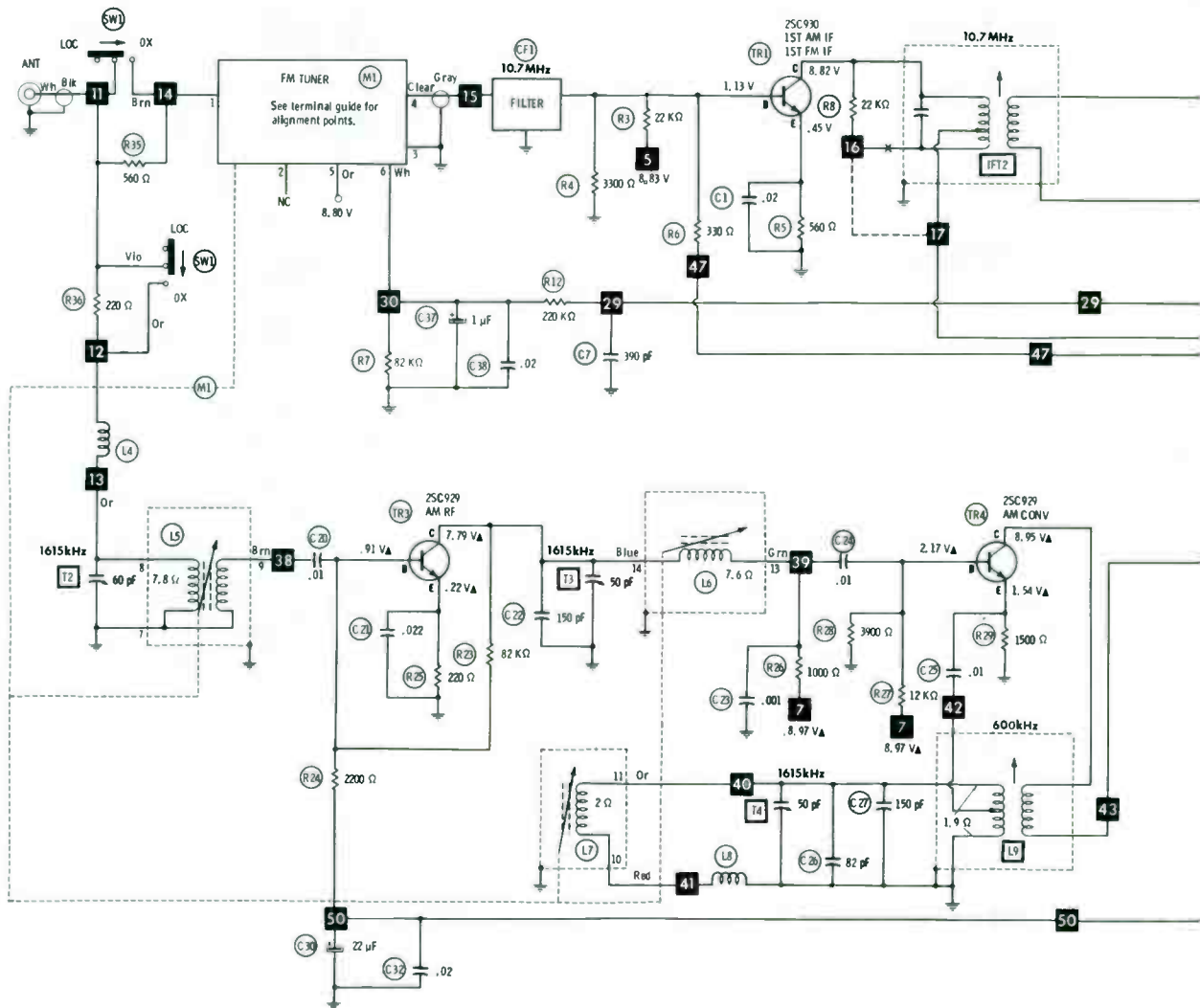
* Lead Configuration may vary from original
(6) Matched pair.
(7) Two required - select matched pair.

CARTAPE MODEL CT-9300

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C9	10 16V			TDC106M025FL	EV-1222
C10	10 16V			TDC106M025FL	EV-1222
C12	4.7 25V			TDC475M035FL	EV-1319
C13	10 16V			TDC106M025FL	EV-1222
C16	4.7 25V			TDC475M035FL	EV-1319
C17	4.7 25V			TDC475M035FL	EV-1319
C28	47 10V		PC50-16	VTT47D16	EV-1226
C30	22 16V			VTT22A16	EV-1224
C35	100 10V		PC100-10	VTT100E10	EV-1130
C37	1 50V			VTT1B63	EV-1615
C39	4.7 25V			TDC475M035FL	EV-1319
C104	4.7 25V			TDC475M035FL	EV-1319
C108	470 10V		PC500-16	VTT470J16	EV-1150
C110	1 50V			VTT1B63	EV-1615
C114	10 16V			TDC106M025FL	EV-1222
C116	.22 16V			TDC224M050EL	SD35-R229
C118	4.7 25V			TDC475M035FL	EV-1319
C120	100 10V		PC100-10	VTT100E10	EV-1130
C122	10 16V			TDC106M025FL	EV-1222
C124	47 16V		PC50-16	VTT47D16	EV-1226
C128	47 10V		PC50-16	VTT47D16	EV-1226
C134	470 10V		PC500-16	VTT470J16	EV-1150
C135	470 16V		PC500-16	VTT470J16	EV-1250
C136	100 16V		PC100-16	VTT100F16	EV-1230
C201	470 16V		PC500-16	VTT470J16	EV-1250
C202	470 16V		PC500-16	VTT470J16	EV-1250
C204	4.7 25V			TDC475M035FL	EV-1319
C205	4.7 25V			TDC475M035FL	EV-1319
C206	4.7 25V			TDC475M035FL	EV-1319
C210	1 50V			VTT1B63	EV-1615
C214	10 16V			TDC106M025FL	EV-1222
C216	.22 16V			TDC224M050EL	SD35-R229
C218	4.7 25V			TDC475M035FL	EV-1319
C220	100 10V		PC100-10	VTT100E10	EV-1130
C222	10 16V			TDC106M025FL	EV-1222
C224	47 16V		PC50-16	VTT47D16	EV-1226
C228	47 10V		PC50-16	VTT47D16	EV-1226
C234	470 10V		PC500-16	VTT470J16	EV-1150

NOTE: DEMAGNETIZE HEADS AFTER SERVICING



Terminal Guides

- ✖ Circuitry not used in some versions
- Circuitry used in some versions
- ⊙ See parts list
- ⊗ Nominal value
- ⊕ Ground
- ⌚ Chassis
- ▽ Common tie point

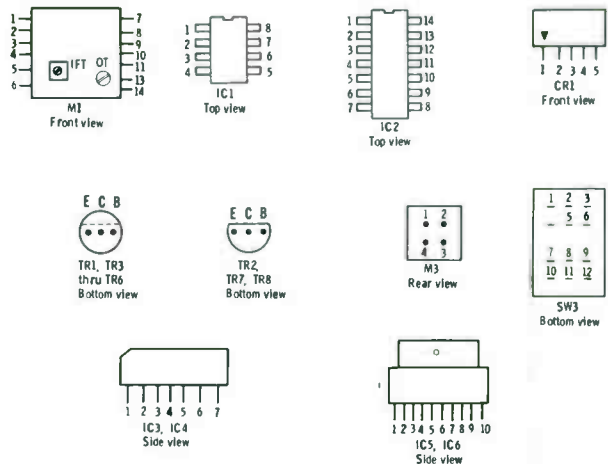
Measurements with switching as shown unless noted:

- FM Stereo signal ▲ AM

Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow at control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 5% unless noted.
 Value in () used in some versions.

A PHOTOFACIT STANDARD NOTATION SCHEMATIC
 WITH **CIRCUITRACE**

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PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS™ for the most up-to-date replacement.

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	.022					
C2	.02					
C3	.02					
C4	.02					
C5	.02					
C6	2 11P0					
C7	390		DD-391	GP390	GP339	10TS-T39
C8	.02					
C11	.0015					
C14	.015			WMF1S15	EMF1A115	1PB-S15
C15	.015			WMF1S15	EMF1A115	1PB-S15
C18	.01			WMF1S1	EMF1A110	1PB-S10
C19	.01			WMF1S1	EMF1A110	1PB-S10
C20	.01			WMF1S1	EMF1A110	1PB-S10
C21	.022					
C22	150		DD-151		GP315	10TS-T15
C23	.001			DPMS6D1	EMF1A210	1PB-D10
C24	.01		UK50-103		MAG5011	
C25	.01			WMF1S1	EMF1A110	1PB-S10
C26	82				GP482	10TS-Q82
C27	150 N470 5%		DD-820		*	10TCT-T15
C29	.02					
C31	.02					
C32	.02					
C33	.01			WMF1S1	EMF1A110	1PB-S10
C34	.01			WMF1S1	EMF1A110	1PB-S10
C36	.02					
C38	.02					
C40	.02					
C102	560		DD-561		GP356	10TS-T56
C106	220		DD-221		GP322	10TS-T22
C112	.0068			WMF1DB2	EMF1A282	1PB-DB2
C126	.0022		DD-222		GP222	5GA-D22
C130	27					
C132	.1 25V		UK25-104		MAG2501	HY-750
C203	220		DD-221		GP322	10TS-T22
C207	.022					
C212	.0068			WMF1DB2	EMF1A282	1PB-DB2
C226	.0022		DD-222		GP222	5GA-D22
C230	27					
C232	.1 25V		UK25-104		MAG2501	HY-750
C235	560		DD-561		GP356	10TS-T56
CC1		(1)				
CC2		(1)				
CC3		(1)				
T2	60	9300051				
T3	50					
T4	50					

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

(1) Part of feed through assembly, Part No. 9300038.

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.
VR1	Sensitivity	50K				
VR2	Separation	1000				
VR3b-1	Tone-Left	5000	9300007			
b-2	Tone-Right	5000				
a	Volume-Left	20K				
c	Volume-Right/On-Off Switch	20K				
VR4	Balance	10K	9300040			

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
IFT2	IF (10.7MHz)				(1) Part of M1 (Tuner)
IFT3	Ratio Det (Pri)				
IFT4	Ratio Det (Sec)				
IFT5	IF (455kHz)				
IFT6	IF (455kHz)				
L4	AM Ant Choke (5.6uH)			70F566A1	
L5	AM Ant	(1)			
L6	AM RF	(1)			
L7	AM Osc Tuning	(1)			
L8	Image Trap (4.7uH)			70F476A1	
L9	AM Osc				
L10	19kHz				
L11	38kHz				
L101	RF Choke				

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS™ for the most up-to-date replacement.

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
CH1	110mA	.1	1mH				

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	
F1	3 Amp			AGC3	HDJ	312003	150145	FG3-2

MISCELLANEOUS

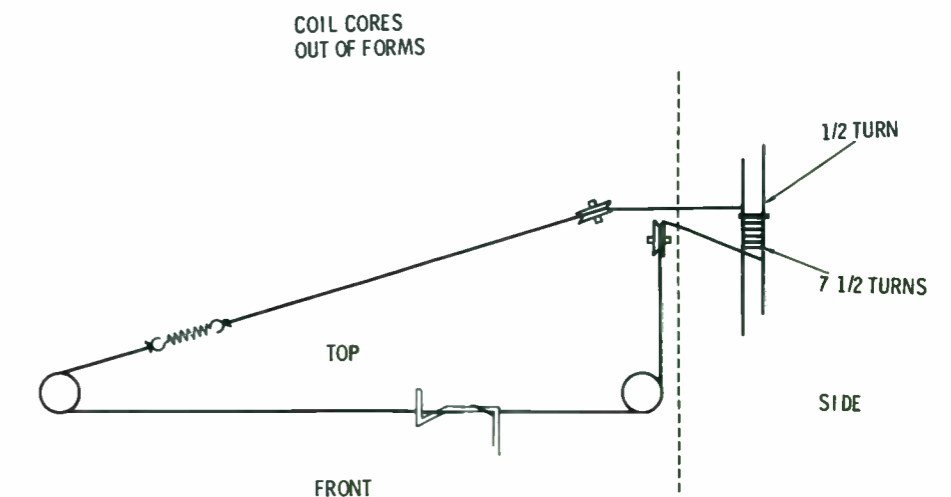
ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	SFE-10.7MA (1)	Ceramic, 10.7MHz (Black Dot) Ratio Detector AM/FM Tape Transport (2200 rpm @ 13.74 VDC) 4-Track 2-Channel Stereo Play Loc Dist AM/FM Radio/Tape Power (On Volume) Auto Stop IF Amp MPX Audio Amp Filter
CR1	Network	B5RD0115 (1)	
M1	Tuner Assembly	9300046	
M2	Motor	9300081	
M3	Tape Head	9300066	
SW1	Switch	9300030	
SW2	Switch	9300027	
SW3	Switch	9300039	
SW4	Switch		
SW5	Switch	9300072	
	Printed Circuit Board	9300053	
	Printed Circuit Board	9300058	
	Printed Circuit Board	9300059	

(1) Number on unit.

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

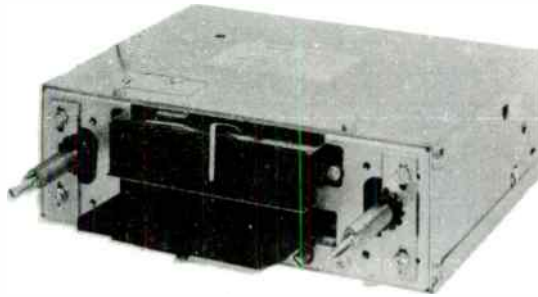
ITEM	PART No.	ITEM	PART No.
Escutcheon	9300015	Tape Door Spring	9300018
Control Panel	9300010	Button, AM-FM	9300011
Dial Scale	9300013	Button, Eject	9300009
Dial Pointer	9300034	Knob, Volume/Tuning	9300001
Tape Door	9300017	Knob, Tone/Balance	9300002
Tape Door Shaft	9300016		

DIAL CORD STRINGING





For Supplier Address See PHOTOFACT Index

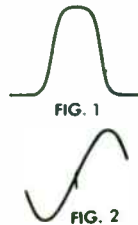


MODEL R-947

LEAR JET MODELS R-947, R-957

ALIGNMENT INSTRUCTIONS

Check for specified source voltage.
 Use only enough generator output to provide a usable indication.
 Connect low side of generator and indicator to ground unless specified otherwise.
 Suggested Alignment Tools: GC ELLECTRONICS:
 ALL 8290, 8868, 9087

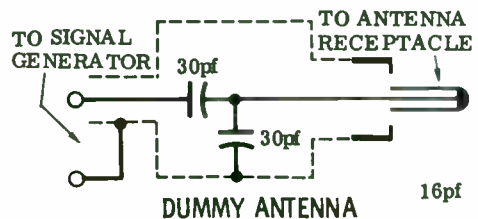


PUSH-BUTTON ADJUSTMENT

1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1uF to antenna input, low side to ground.	455kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	(1) T6, CF3	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	CT6, CT5, CT4	"
Thru dummy antenna to antenna input.	600kHz	Tune to signal	Output meter across voice coil.	T5	Adjust for maximum. Repeat alignment until no further improvement is noted.

With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust CT4 for maximum output. Antenna adjustment CT4 is located on front under right pushbutton.



HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

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7AN981

ALIGNMENT INSTRUCTIONS (Continued)

FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to Antenna Input.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to junction of D9 & R30.	(1) T3,T2,T1	Adjust for maximum.
"	"	DC probe of VTVM to TP1.	T4	Adjust for zero reading. A positive or negative reading will be obtained on either side of correct setting.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to Antenna Input.
Use 60-hertz, frequency-modulated signal, 450kHz sweep.
Use 60-hertz sawtooth voltage in scope for horizontal deflection.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz 450kHz Sweep	Point of non-interference	Vert input of scope to junction of D9 & R30.	(1) T3,T2,T1	Disconnect stabilizing capacitor C42. Adjust for maximum gain and symmetry of response similar to Fig. 1. Reconnect C42.
"	"	Vert input of scope to TP1.	T4	Adjust for maximum amplitude and straightness of line similar to Fig. 2.

(1) Before adjusting, vary generator frequency slightly. Maximum output indicates exact IF.

FM RF ALIGNMENT—SELECTOR IN FM POSITION

Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.

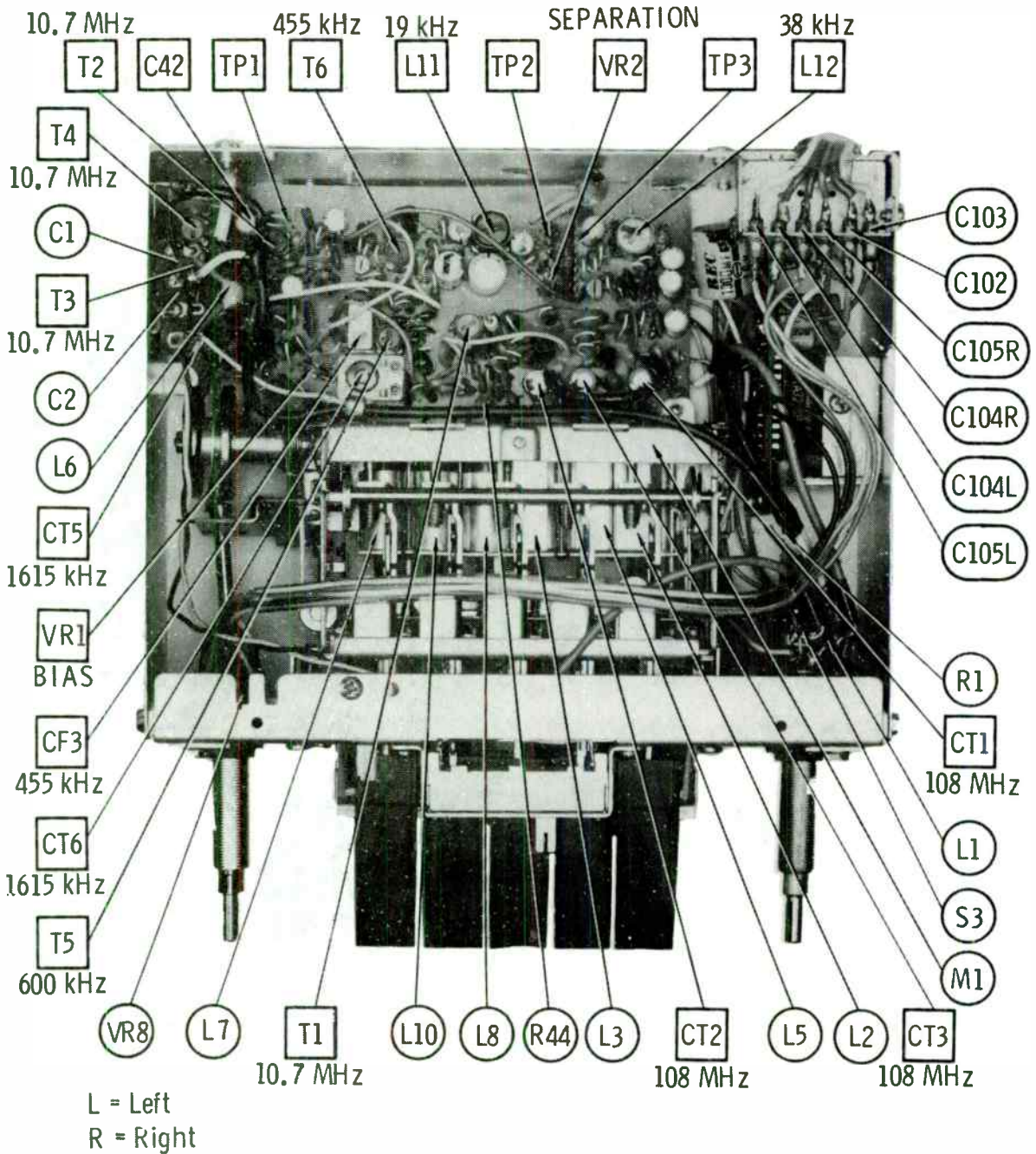
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
108MHz Unmodulated	High Freq. end stop	DC probe of VTVM to junction of D9 & R30.	CT3, CT2,CT1	Adjust for maximum.

FM STEREO MULTIPLEX ALIGNMENT USING FM STEREO SIGNAL GENERATOR (± .0001% ACCURACY)

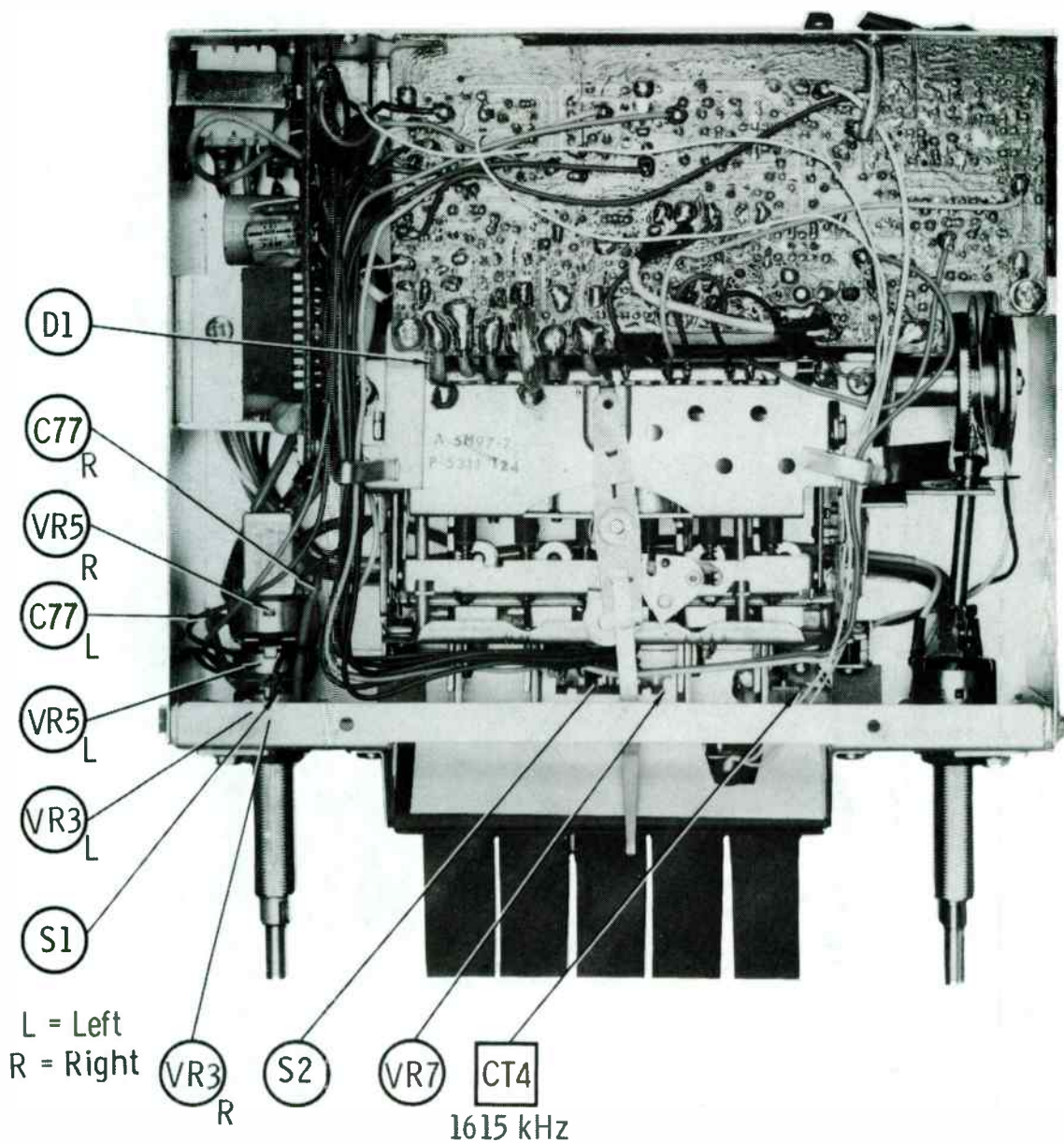
High side of generator to TP1.

GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
19kHz	Vert input of scope to TP2.	L11	Adjust for maximum 19kHz response.
19kHz	Vert input of scope to TP3.	L12	Adjust for maximum 38kHz response.

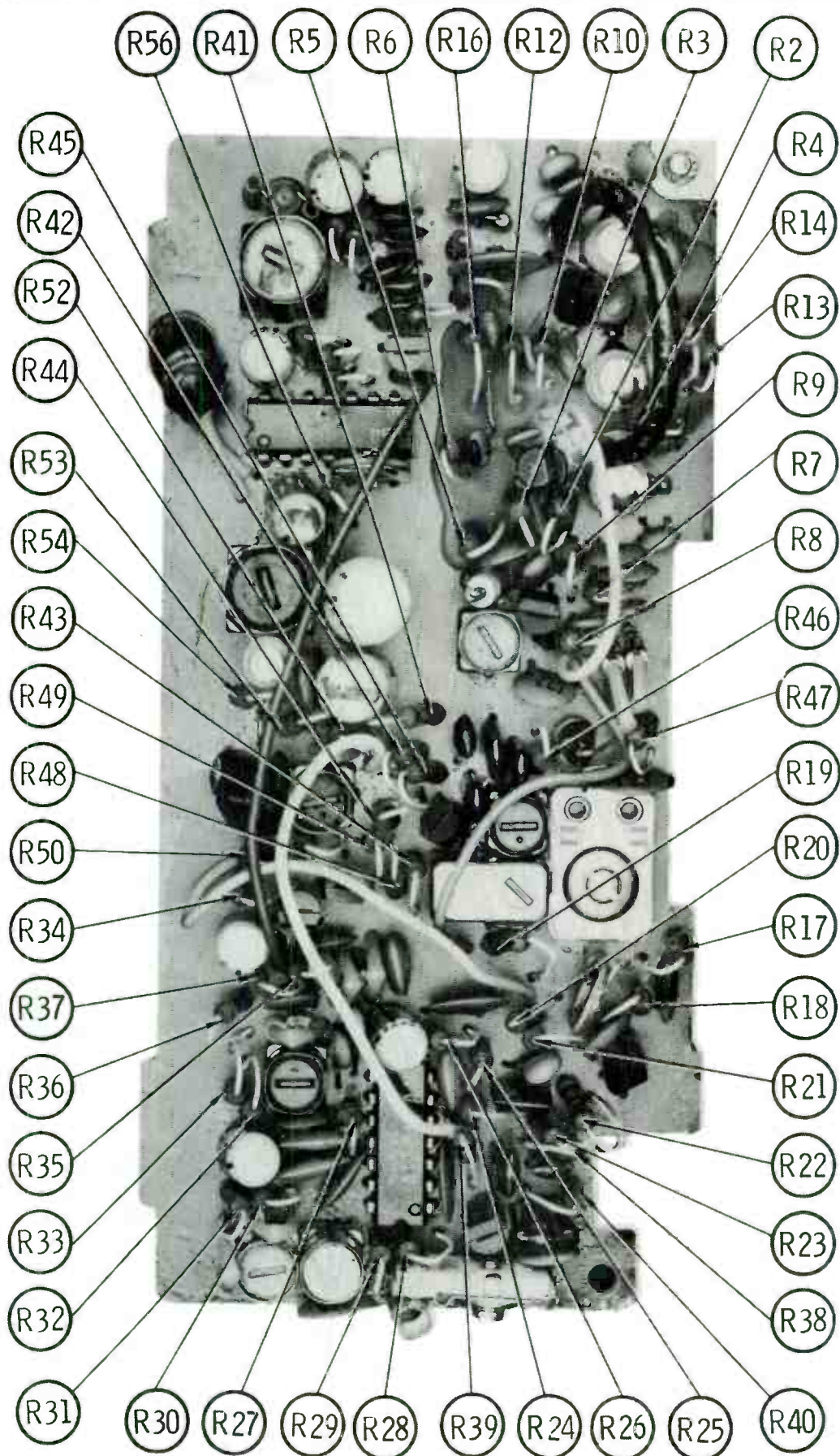
Tune radio to stereo station. Adjust VR2 for best separation.



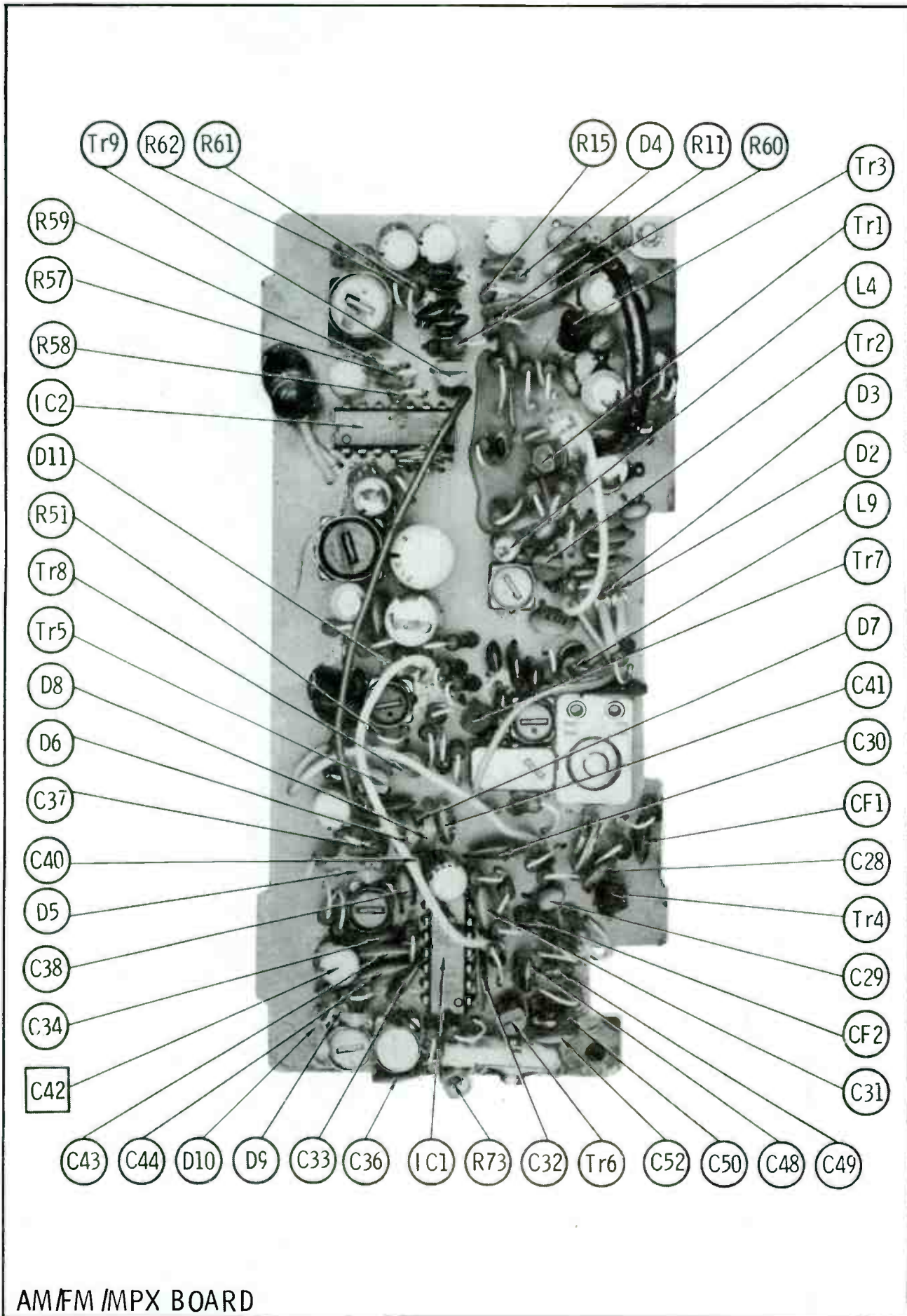
OVERALL-TOP VIEW



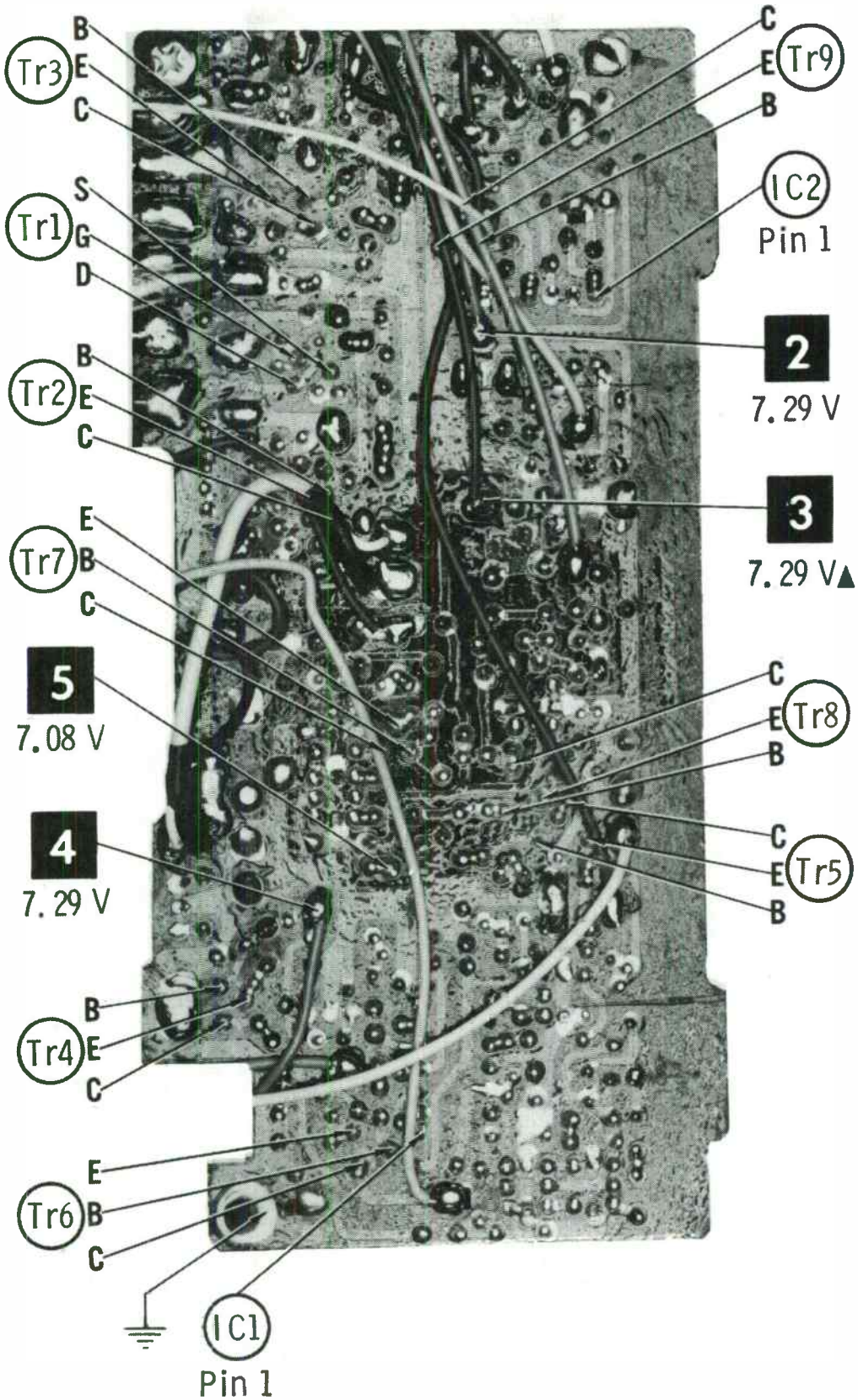
OVERALL-BOTTOM VIEW



AM/FM/MPX BOARD



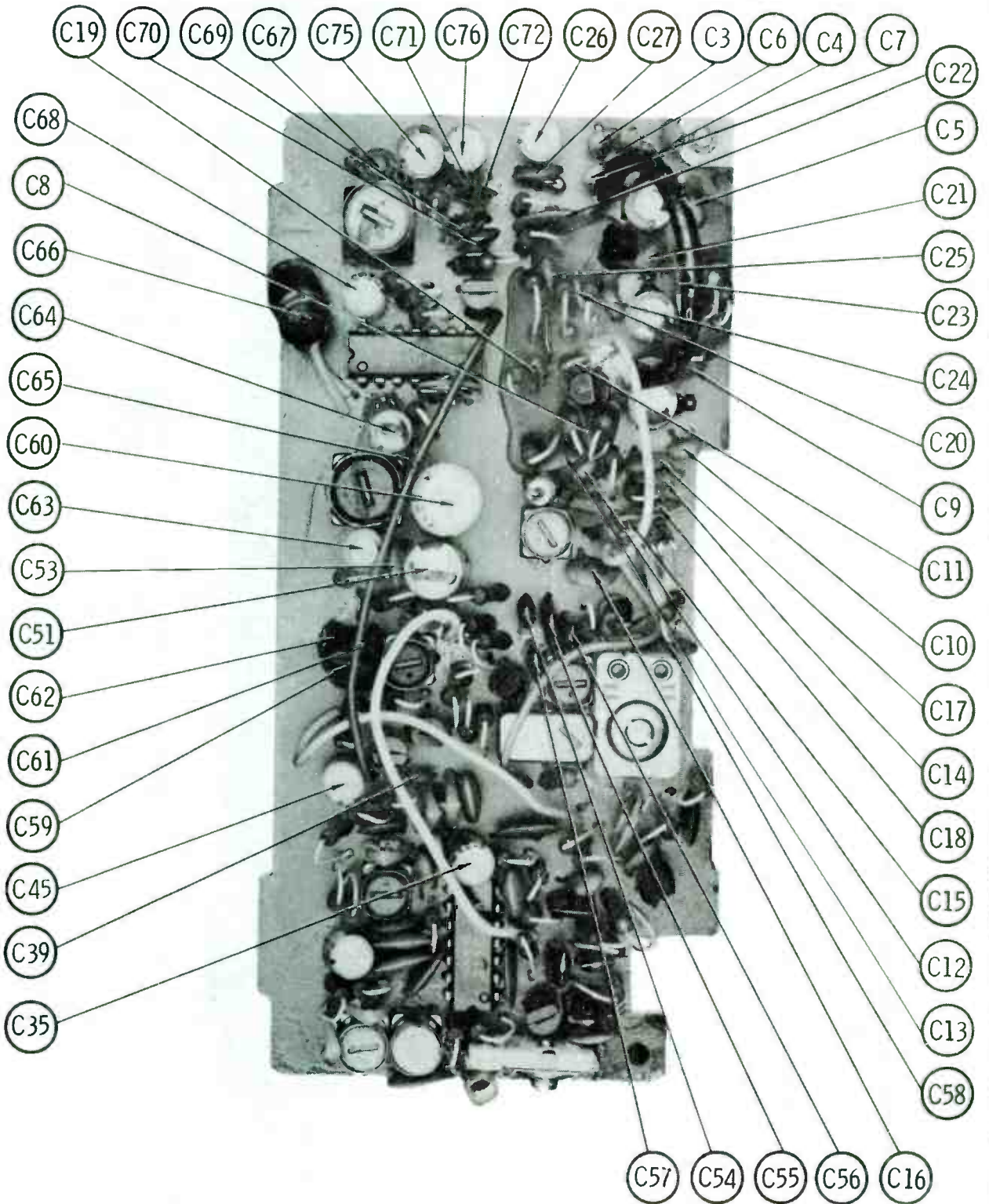
AM/FM /MPX BOARD



▲ AM

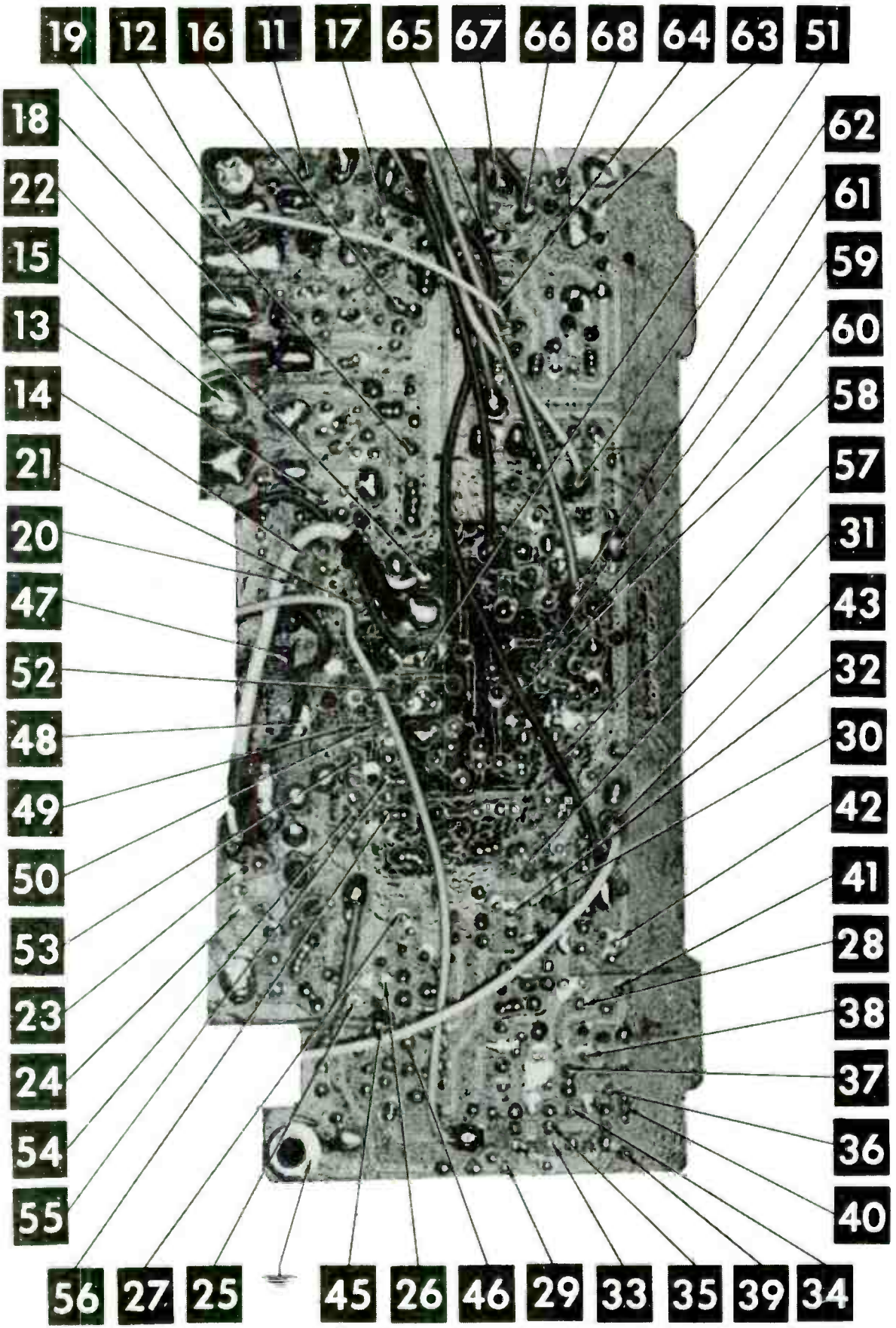
AM/FM/MPX BOARD

LEAR JET MODELS R-947, R-957

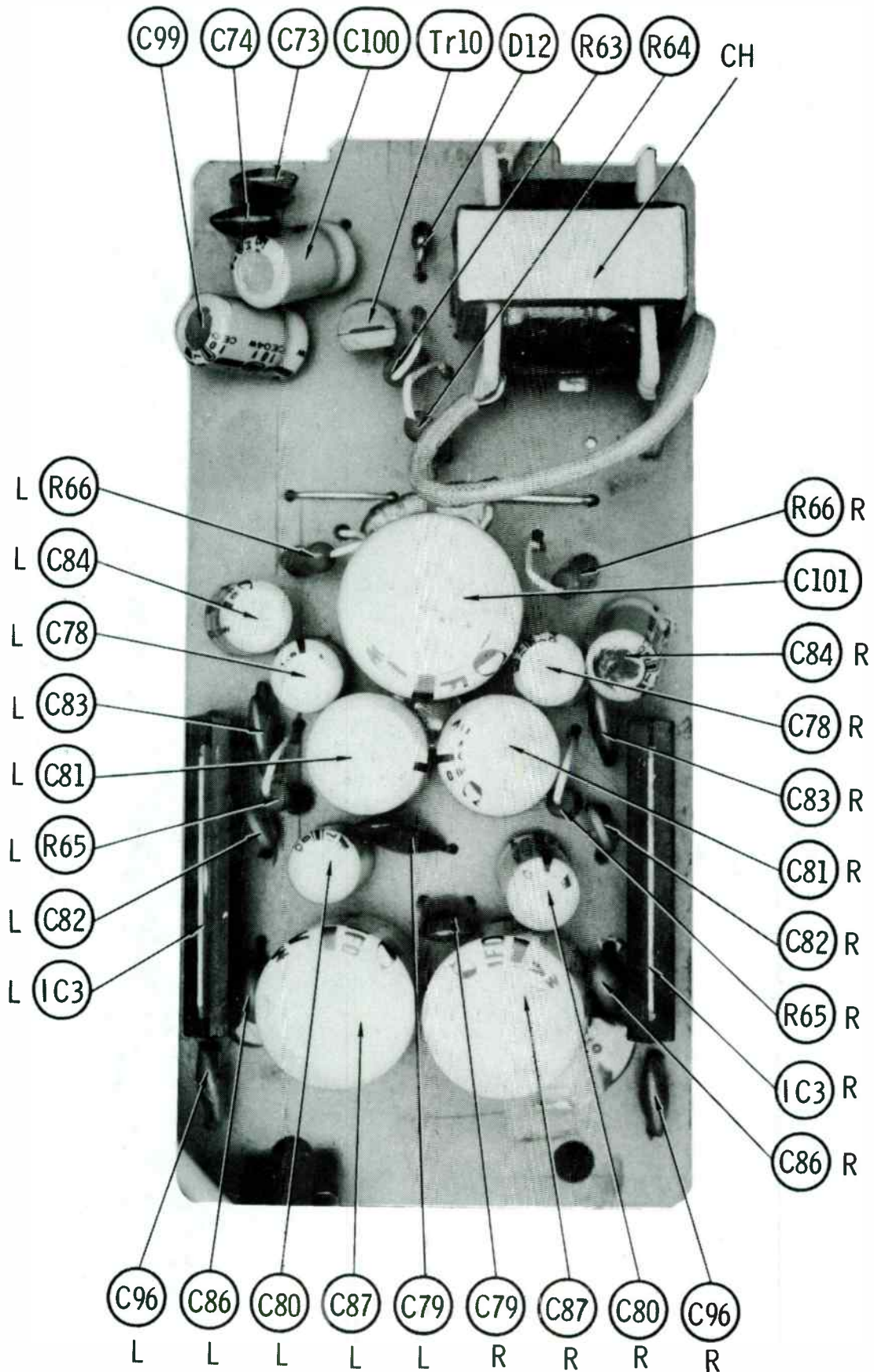


AM/FM/MPX BOARD

LEAR JET MODELS R-947, R-957

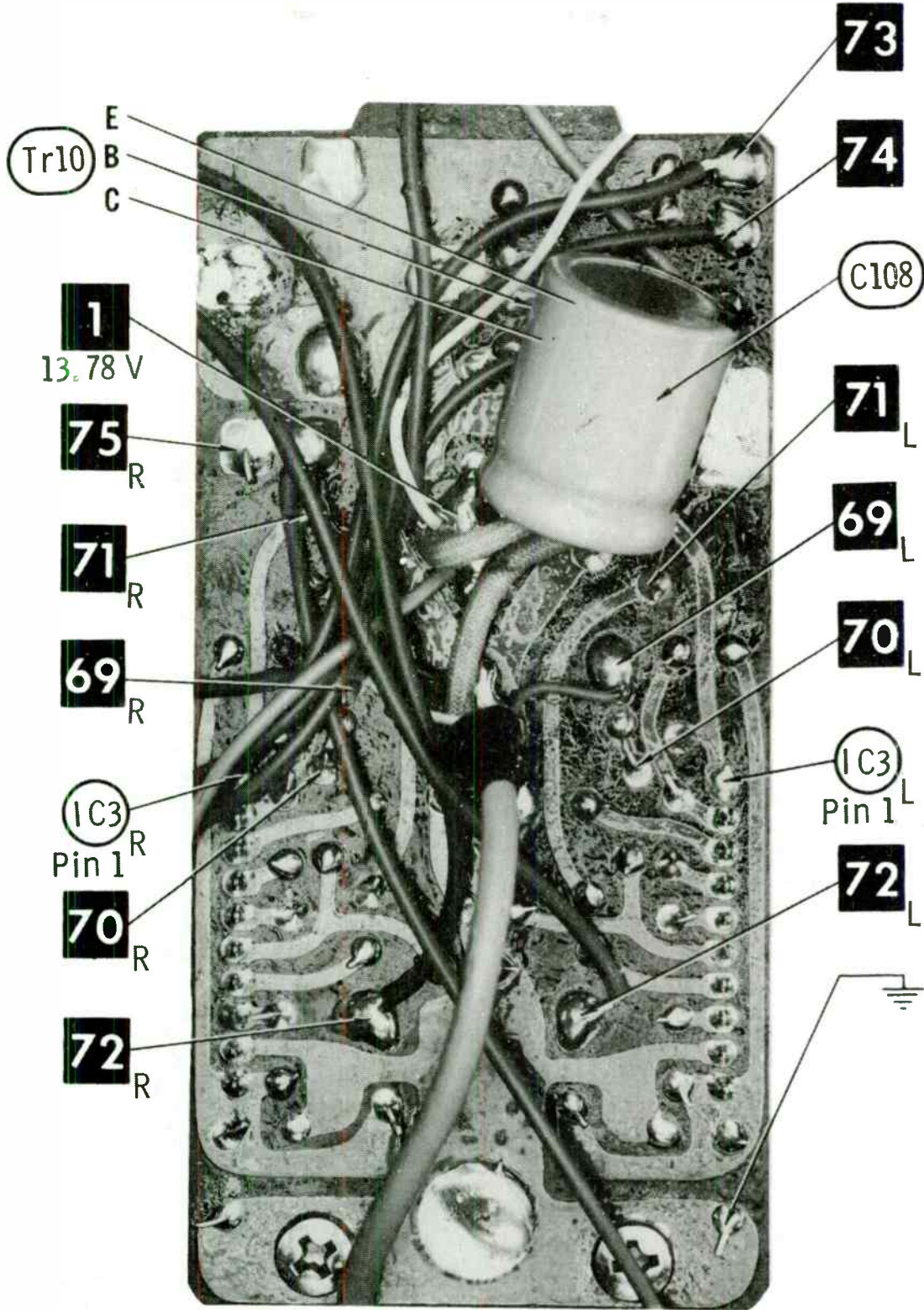


AM/FM/MPX BOARD



L = Left
R = Right

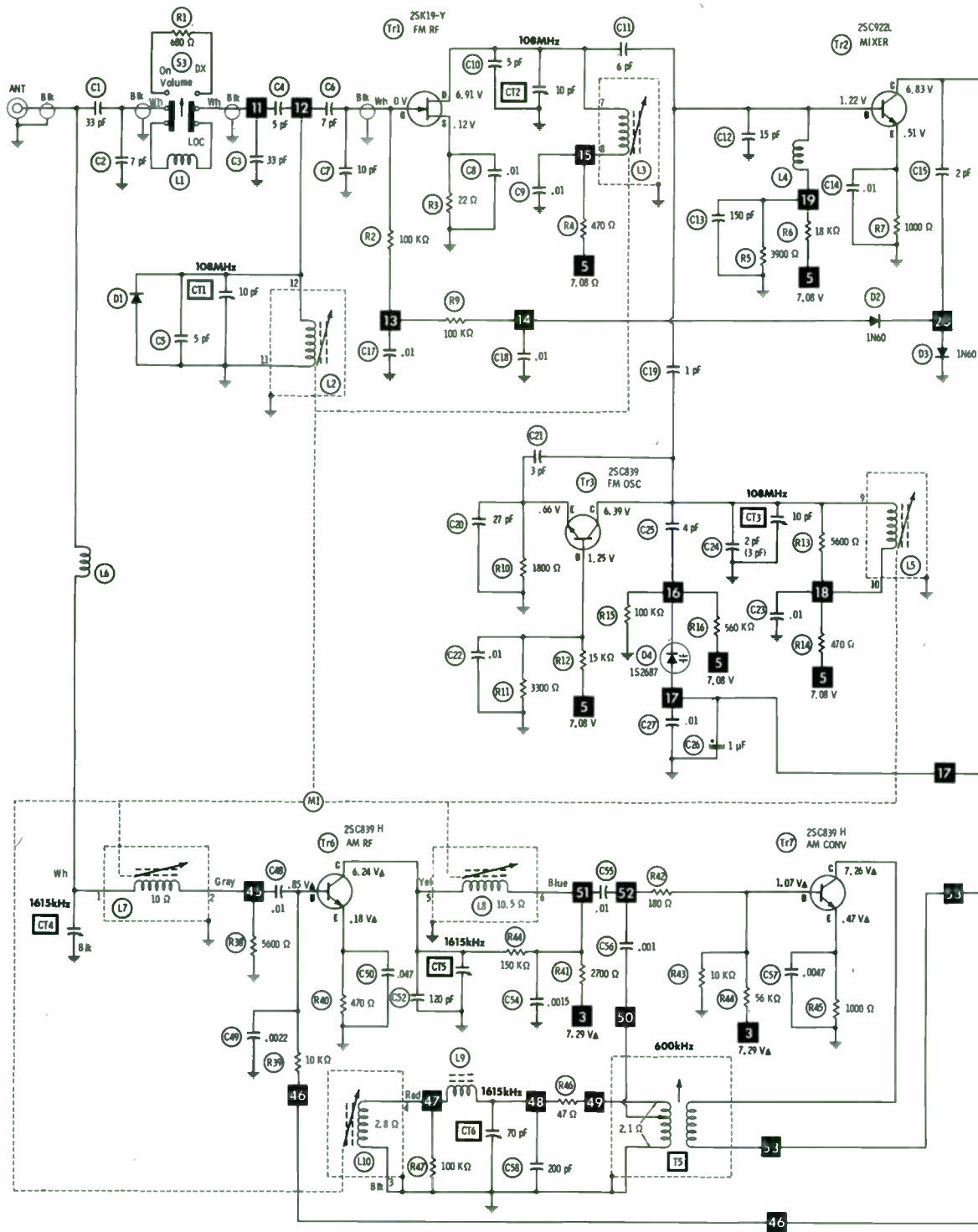
AUDIO BOARD



L = Left
R = Right

AUDIO BOARD

LEAR JET MODELS R-947, R-957

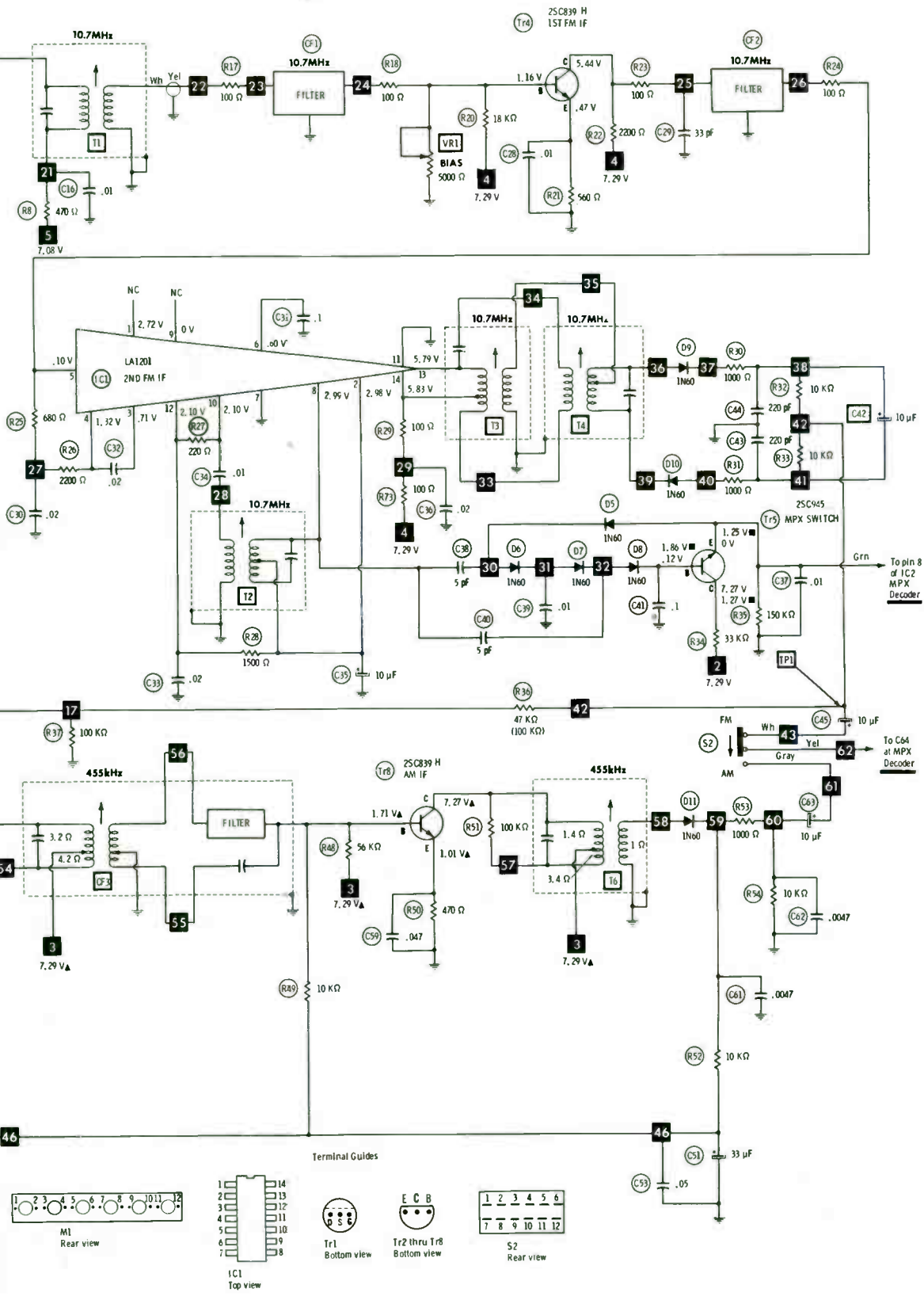


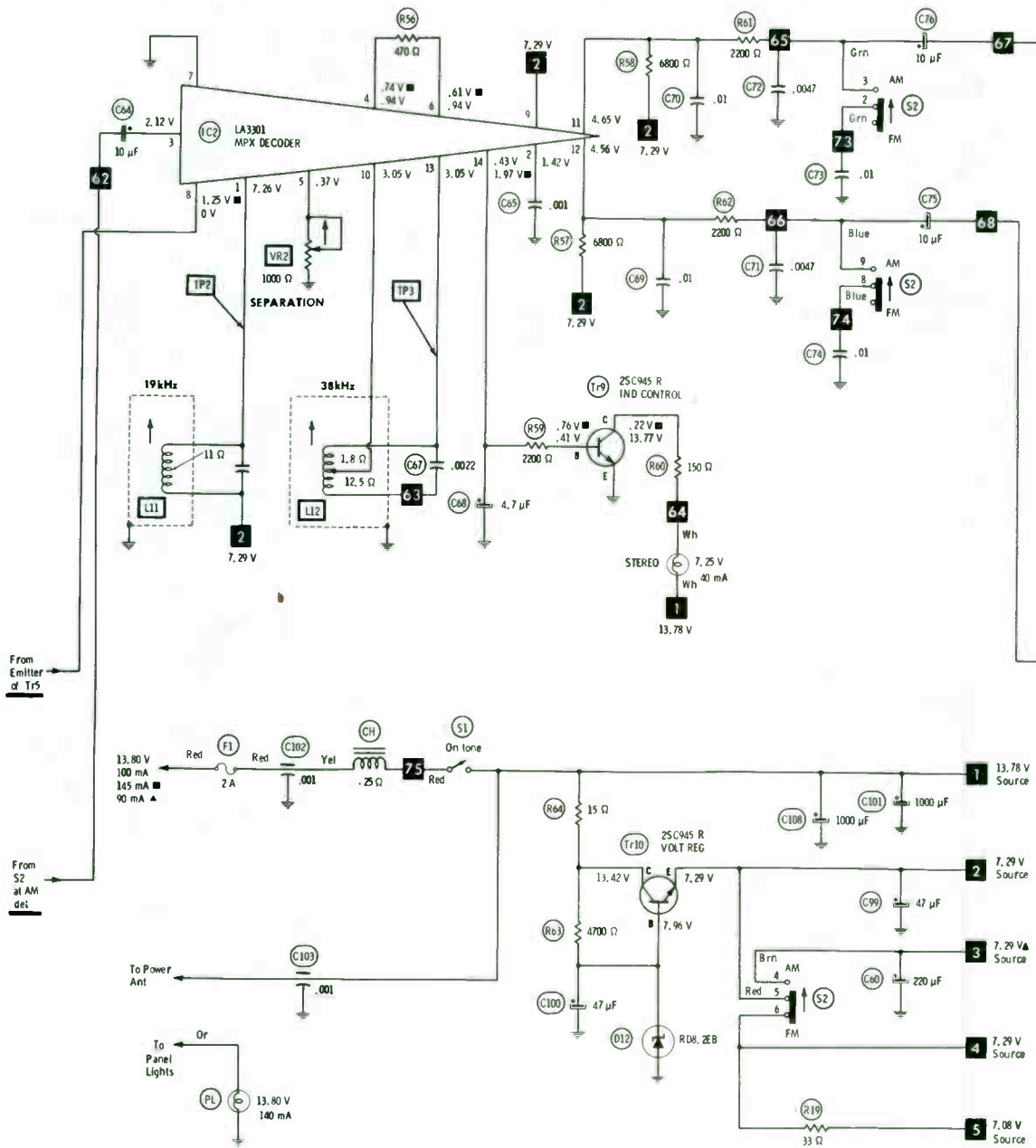
- C: Circuitry not used in some versions
- - -: Circuitry used in some versions
- : See parts list
- ⊛: Nominal value
- ⊕: Ground
- chassis: Chassis
- ▽: Common tie point

Measurements with switching as shown unless noted:
 ■ FM Stereo signal ▲ AM

Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow at control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 5% unless noted.
 Value in () used in some versions.

A PHOTOFAC T STANDARD NOTATION SCHEMAT
 WITH **CIRCUITRACE**
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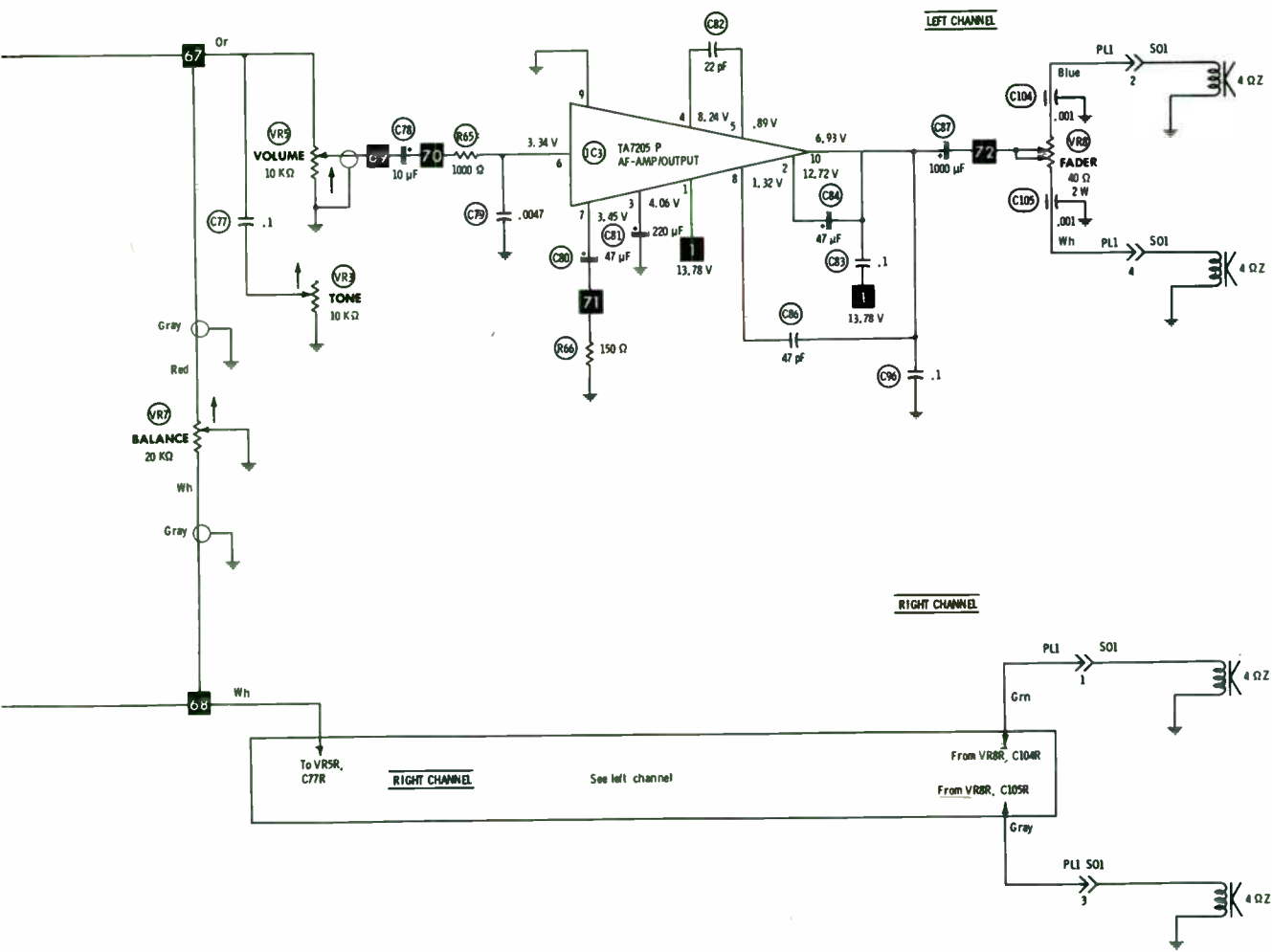


- /— Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- ⊛ Nominal value
- ⊕ Ground
- ⊞ Chassis
- ∇ Common tie point

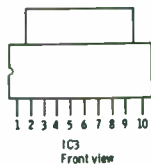
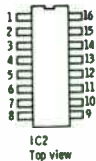
Measurements with switching as shown unless noted:
 ■ FM Stereo signal ▲ AM

Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow at control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 5% unless noted.
 Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC
 WITH CIRCUITRACE[®]
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Terminal Guides



PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1			GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D2	1N60	354-9001-001	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D3	1N60	354-9001-001	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D4	1S2687	754-9002-687	GE-90	D201		HEPR2503	RE 195	SK3126	RT-262	
D5	1N60	354-9001-001	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D6	1N60	354-9001-001	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D7	1N60	354-9001-001	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D8	1N60	354-9001-001	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D9	1N60	354-9001-001	1N60(7)	1N60 (7)	PTC206(6)	HEPR9135(7)	RE 86(6)	SK3088(7)	RT-263(7)	ECG110(6)
D10	1N60	354-9001-001								
D11	1N60	354-9001-001	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D12	RD-8.2EB	754-5750-282	GEZD-8.2		ZB8.2B		RE 112		RT-257	ECG5072
IC1	LA1201	740-8160-190	GEIC-43				RE 335-IC			ECG1003
IC2	LA3301	740-5903-301	GEIC-38				RE 326-IC			ECG1006
IC3	TA7205P	740-9007-205	GEIC-179		PTC721	HEPC6094P			TVCM-6	ECG1155
TR1	2SK19Y	753-6000-019	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
TR2	2SC922L	253-9000-922	GE-17 *	TR-21 *	PTC136 *	HEPS0015 *	RE 13 *	SK3018 *	RT-107A	ECG123A *
TR3	2SC839H	753-9000-839	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
TR4	2SC839H	753-9000-839	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
TR5	2SC945R	753-8500-380	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
TR6	2SC839H	753-9000-839	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
TR7	2SC839H	753-9000-839	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
TR8	2SC839H	753-9000-839	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
TR9	2SC945R	753-8500-380	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
TR10	2SC945R	753-8500-380	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199

* Lead Configuration may vary from original.

(6) Matched pair.

(7) Two required - select matched pair.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C26	1 6.3V			TT6X1		EV-1315
C35	10 10V			VTT10A25		EV-1222
C42	10 10V			VTT10A25		EV-1222
C45	10 10V			VTT10A25		EV-1222
C51	33 16V			VTT33D25		EV-1325
C60	220 10V			VTT220F10	QV1-115	EV-1140
C63	10 10V			VTT10A25		EV-1222
C64	10 10V			VTT10A25		EV-1222
C68	4.7 6.3V			VTT4R7A50		EV-1319
C75	10 10V			VTT10A25		EV-1222
C76	10 10V			VTT10A25		EV-1222
C78	10 10V			VTT10A25		EV-1222
C80	47 10V			VTT10A25		EV-1222
C81	220 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C84	47 10V		PC250-10	VTT220F10	QV1-115	EV-1140
C87	1000 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C99	47 10V		PC1000-16	TC1210D	QV1-179	EV-1160
C100	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C101	1000 16V		PC50-16	VTT47D16	QV1-73	EV-1226
C108	1000 16V		PC50-16	VTT47D16	QV1-73	EV-1226

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALLAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C1	33		DTZ-33	NP033	CN0433		10TCC-Q33
C2	7		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C3	33		DTZ-33	NP033	CN0433		10TCC-Q33
C4	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C5	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C6	7		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C7	10		DTZ-10	NP010	CN0410		10TCC-Q10
C8	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C9	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C10	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C11	6		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C12	15		DTZ-15	NP015	CN0415		10TCC-Q15
C13	150		DO-151		GP315		10TS-T15
C14	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C15	2		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C16	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C17	.01		DC-103	MGP01	TA110	QC2-141	TG-S10

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C18	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C19	1 NPO				CN0510		10TCC-V10
C20	27						
C21	3 N750						
C22	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C23	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C24	2 N750						
C25	4 N750				CN7547		10TCU-V47
C27	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C28	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C29	33		DTZ-33	NP033	CN0433		10TCC-Q33
C30	.02		DC-203	MGP02	TA120	QC2-157	TG-S20
C31	.1 12V		UK12-104		MAG1201		HY-650
C32	.02		DC-203	MGP02	TA120	QC2-157	TG-S20
C33	.02		DC-203	MGP02	TA120	QC2-157	TG-S20
C34	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C36	.02		DC-203	MGP02	TA120	QC2-157	TG-S20
C37	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C38	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C39	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C40	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C41	.1 12V		UK12-104		MAG1201		HY-650
C43	220		DD-221		GP322		10TS-T22
C44	220		DD-221		GP322		10TS-T22
C48	.01			WMF1S1	EFW1A110	QF1-91	1PB-S10
C49	.022			DPMS2S22	EFW1A122	QF1-127	1PB-S22
C50	.047				EFW1A147		1PB-S47
C52	120						
C53	.05						
C54	.0015			OPMS6D15	EFW6215		6PS-015
C55	.01			WMF1S1	EFW1A110	QF1-91	1PB-S10
C56	.001			DPMS601	EFW1A210	QF1-1	1PB-010
C57	.0047				M192P4729R8		192P4729R8
C58	200 N470				*		10TCT-T20
C59	.047				EFW1A147		1PB-S47
C61	.0047				M192P4729R8		192P4729R8
C62	.0047				M192P4729R8		192P4729R8
C65	.001			DPMS601	EFW1A210	QF1-1	1PB-010
C66	.01						
C67	.0022			CD19F0362J03	SX236		MWC-362
C69	.01			WMF1S1	EFW1A110	QF1-91	1PB-S10
C70	.01			WMF1S1	EFW1A110	QF1-91	1PB-S10
C71	.0047				M192P4729R8		192P4729R8
C72	.0047				M192P4729R8		192P4729R8
C73	.01			WMF1S1	EFW1A110	QF1-91	1PB-S10
C74	.01			WMF1S1	EFW1A110	QF1-91	1PB-S10
C77	.1 12V		UK12-104		MAG1201		HY-650
C79	.0047				M192P4729R8		192P4729R8
C82	22		DTZ-22	NP022	CN0422		10TCC-Q22
C83	.1 12V		UK12-104		MAG1201		HY-650
C86	47						
C96	.1 12V		UK12-104		MAG1201		HY-650
C102	.001	(1)					
C103	.001	(1)					
C104	.001	(1)					
C105	.001	(1)					
CT1	10	750-9001-032					
CT2	10	750-9001-032					
CT3	10	750-9001-032					
CT4	60	750-9004-600					
CT5	70	750-9003-700					
CT6	70	750-9002-700					

LEAR JET MODELS R-947, R-957

*Not normally in distributor's stock. Available thru distributor on order to manufacturer.
(1) Part of Feed-thru Assembly, Part Number 750-9001-026.

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
VR1	Bias	5000	751-9000-500	T-5000 (2)	C-502 (2)	MTC53L1 (2)	X201R502B (2)
VR2	Separation	1000	751-9030-129	T-1000 (2)	C-102 (2)	MTC13L1 (2)	X201R102B (2)
VR3	Tone/On-Off Switch	10K	751-9947-957				
VR5	Volume/Man. Program Switch	10K					
VR7	Balance	20K	751-9086-002				
VR8	Fader	40 2W	751-9000-018				

(2) Cut off one of the end terminals and bend to fit PC board.

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
CF3	IF (455kHz)	756-9000-455			(1) Part of M1 (Tuner). (2) Number on unit.
L1	Antenna Choke	(1)			
L2	FM Antenna	(1)			
L3	FM RF	(1)			
L4	10.7MHz Trap (1.5uH)	756-9000-015			
L5	FM Oscillator	(1)			
L6	AM Antenna Choke (8.2uH)	756-9000-082			
L7	AM Antenna	(1)			
L8	AM RF	(1)			
L9	Image Trap (4.7uH)	756-9006-104			
L10	AM Osc Tuning	(1)			
L11	19kHz	756-9005-262	472/304E (2)		
L12	38kHz	756-9001-034	563F/3103 (2)		
T1	IF (10.7MHz)	756-9000-004	A750/111M (2)		
T2	IF (10.7MHz)	756-9000-005	L470/053N (2)		
T3	Ratio Detector (Pri)	756-9000-006			
T4	Ratio Detector (Sec)	756-9000-007			
T5	AM Oscillator	756-9000-001			
T6	AM Detector (455kHz)	756-9000-002	M222/162N (2)		

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
CH	145mA	.25	2.26mH	756-9004-237 (1) 756-9004-203 (2)			(1) Used in Model R-947 (2) Used in Model R-957

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	
F1	2 Amp		760-9000-033	AGC2	HDJ	312002	150145	FG2-2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	745-9000-107 (1)	Ceramic, 10.7MHz
CF2	Filter	745-9000-107 (1)	
M1	Tuning Coil Assembly	741-9005-972	Ceramic, 10.7MHz AM/FM Model R-947 AM/FM Model R-957
	Tuning Coil Assembly	741-9005-103	
S1	Switch	761-9000-242	Power (On Tone)
S2	Switch	763-9000-020	AM/FM
	Connector	763-9000-020	Speaker
	Connector	763-9000-915	Antenna
	Printed Circuit Board	763-9001-037	Audio Amp

(1) When replacing, CF1 and CF2 should also be replaced.

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Dial Pointer, Model R-947	765-9000-028	Top Cover	717-9000-025
Dial Pointer, Model R-957	765-9000-029	Bottom Cover (Model R-947)	717-9000-210
Case	717-9000-031	Bottom Cover (Model R-957)	717-9000-020
Front Panel	717-9000-021		

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Shielded Hook-up Wire	Use BELDEN No. 8885
Rear Seat Speaker Extension Cable	Use BELDEN No. 8782 (Stranded) Coded Parallel Leads
Bonding Strap	Use BELDEN No. 8661 (3/8 In.) or 8670 (3/4 In.)
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index



MODEL 65-496

MEDALLION MODEL 65-496

ADJUSTMENTS

IMPORTANT: Before making any adjustments, refer to "General Servicing Information" on page 4.

1. All voltage measurements referred to in this chart are made at a tape speed of 1 7/8 ips with a digital meter.
2. All torque measurements are made at a tape speed of 1 7/8 ips with a spring scale applied to a point 1 inch from spindle center.
3. All pressure measurements are made by using a spring scale to determine that point at which pressure is just removed.

ADJUST	REMARKS
Play Take-up Torque	Nominal value 1/2 oz. Adjust by moving Spring (44-4).
Fast Forward Torque	Nominal value 1 1/4 oz. No adjustment provided.
Rewind Torque	Nominal value 1 1/2 oz. No adjustment provided.
Pressure Roller Pressure	Nominal value 18 oz. No adjustment provided.
Flywheel Play	Adjust B5 for slight vertical play of flywheel.
Head Azimuth	Play an azimuth-test tape and adjust B1 for maximum AC voltage across the left (right) speaker.

HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46208

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TROUBLE CHART

IMPORTANT: Before consulting this chart, refer to "General Servicing Information" on page 4.

SYMPTOM	REMARKS
Take-up erratic or inoperative in play or record	Spindle (44-1) dirty, worn or binding. Clutch (44-5) dirty or worn. Pulley (43-4) dirty, worn or binding. Belt (55) dirty or worn. Idler (35, 43-2) dirty, worn or binding.
Take-up erratic or inoperative in fast forward	Spindle (44-1) dirty, worn or binding. Idler (34), (43-2) dirty, worn or binding. Belt (55) dirty or worn. Pulley (43-4) dirty, worn or binding.
Rewind erratic or inoperative	Spindle (47) dirty, worn or binding. Idler (43-2) dirty, worn or binding. Belt (55) dirty or worn. Pulley (43-4) dirty, worn or binding. Plate (41) weak or worn.
Capstan does not rotate	Belt (54) dirty, worn or broken. Flywheel binding. Motor defective or not supplied with power.
Tape rides up and down between capstan and pressure roller.	Capstan bent. Roller (12) worn. Excessive take-up torque.
Wow or flutter	Roller (12) dirty or worn. Belt (54) dirty or worn. Bearing (49) binding. Cassette defective. Motor defective. Excessive take-up torque.

MECHANICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
2	65-155379	Rear Pressure Plate	34	65-199163	Fast Forward Idler
4	65-156257	Pinch Roller Arm Shaft	35	65-199164	Take-up Roller (Idler)
5	65-155381	Right Cassette Guide	37	65-152276	Guide Spring
6	65-155382	Left Cassette Guide	38	65-155394	Fast Forward Function Plate
7	65-155383	Arm (4 used)	39	65-152277	Function Plate Spring
8	65-157161	Rubber Cushion (2 used)	41	65-155395	Rewind Function Plate
9	65-152270	Sub-chassis Spring	43	65-199165	Roller Arm Assembly
12*	65-155384*	Pinch Roller (Assembly)*	43-1	(1)	Arm
13	65-152271	Pinch Roller Spring	43-2	(1)	Spindle Drive Idler
14		Head Panel Assembly	43-4	(1)	Belt Pulley
16	65-155386	Head Plate	44	65-199166	Take-up Reel Holder Assembly
18	65-155387	Arm	44-1	(2)	Take-up Spindle
19	65-157162	Head Panel Collar	44-2	(2)	Clutch Idler
20	65-152272	Head Panel Spring	44-4	(2)	Clutch Spring
21		Lever	44-5	(2)	Felt Clutch
22	65-156258	Sleeve	47	65-199167	Rewind Reel Holder Assembly
23	65-155389	Auto-stop Lever	47-1	(3)	Rewind Spindle
24	65-152273	Auto-stop Lever Spring	48	65-155396	Flywheel Support Plate
26	65-155390	Roller Arm	49	65-199168	Flywheel Bearing
27	65-152274	Rocker Arm Spring (2 used)	50	65-199169	Flywheel
29	65-155391	Right Push Arm	52	65-199170	Motor Pulley

MECHANICAL PARTS LIST (Continued)

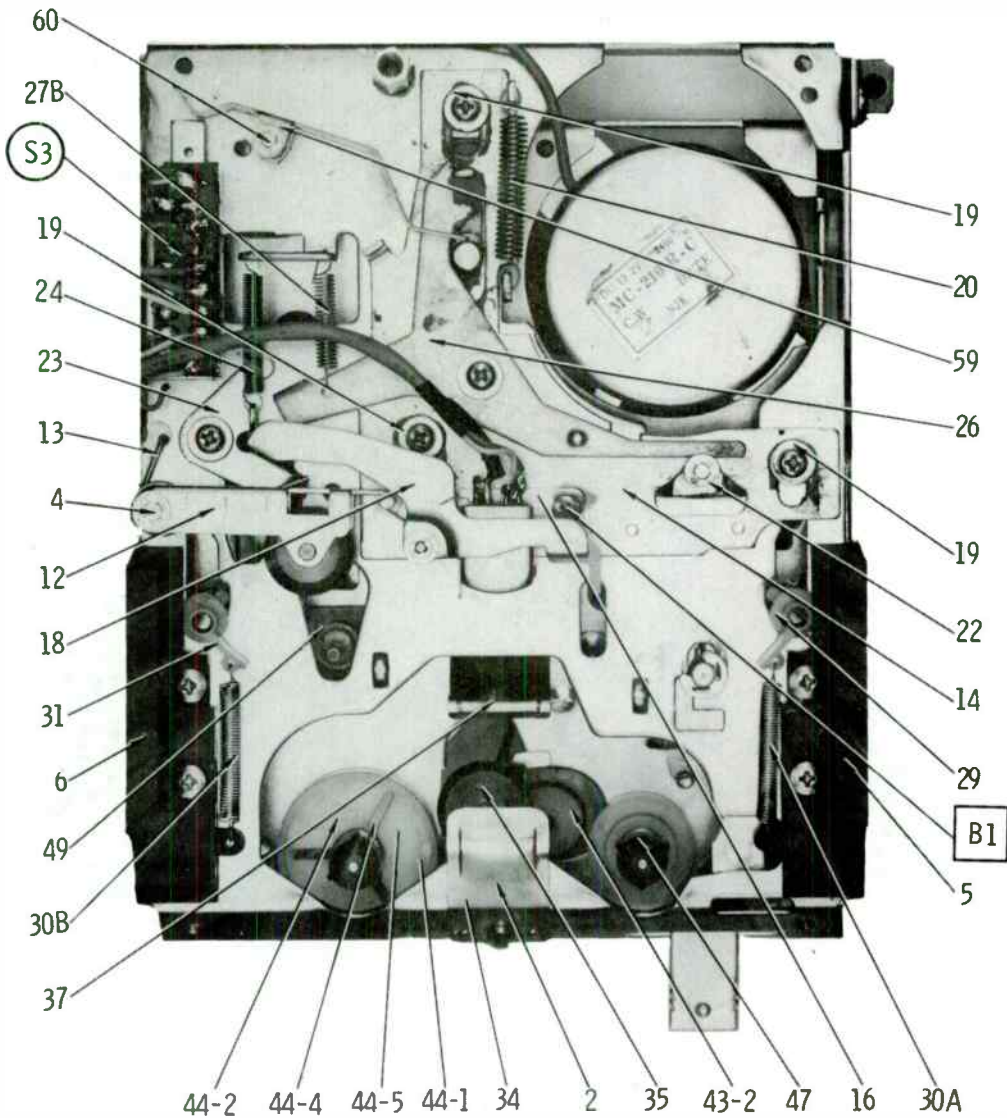
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
30	65-152275	Push Arm Spring (2 used)	54*	65-198033*	Counter Belt*
31	65-155392	Left Push Arm	55*	65-198034*	Main Belt*
33	65-155393	Idler Plate	59	65-155397	Switch Actuator
			60	65-156259	Actuator Stud

- (1) Part of Assembly (43).
- (2) Part of Assembly (44).
- (3) Part of Assembly (47).

- * Pinch Roller - E-V/GAME Replacement Number 1407-179.
WALSCO Replacement Number 1499-70.
- * Counter Belt - E-V/GAME Replacement Number 1425-10.
WALSCO Replacement Number 1425-10.
- * Main Belt - E-V/GAME Replacement Number 1407-47.
WALSCO Replacement Number 1407-47.

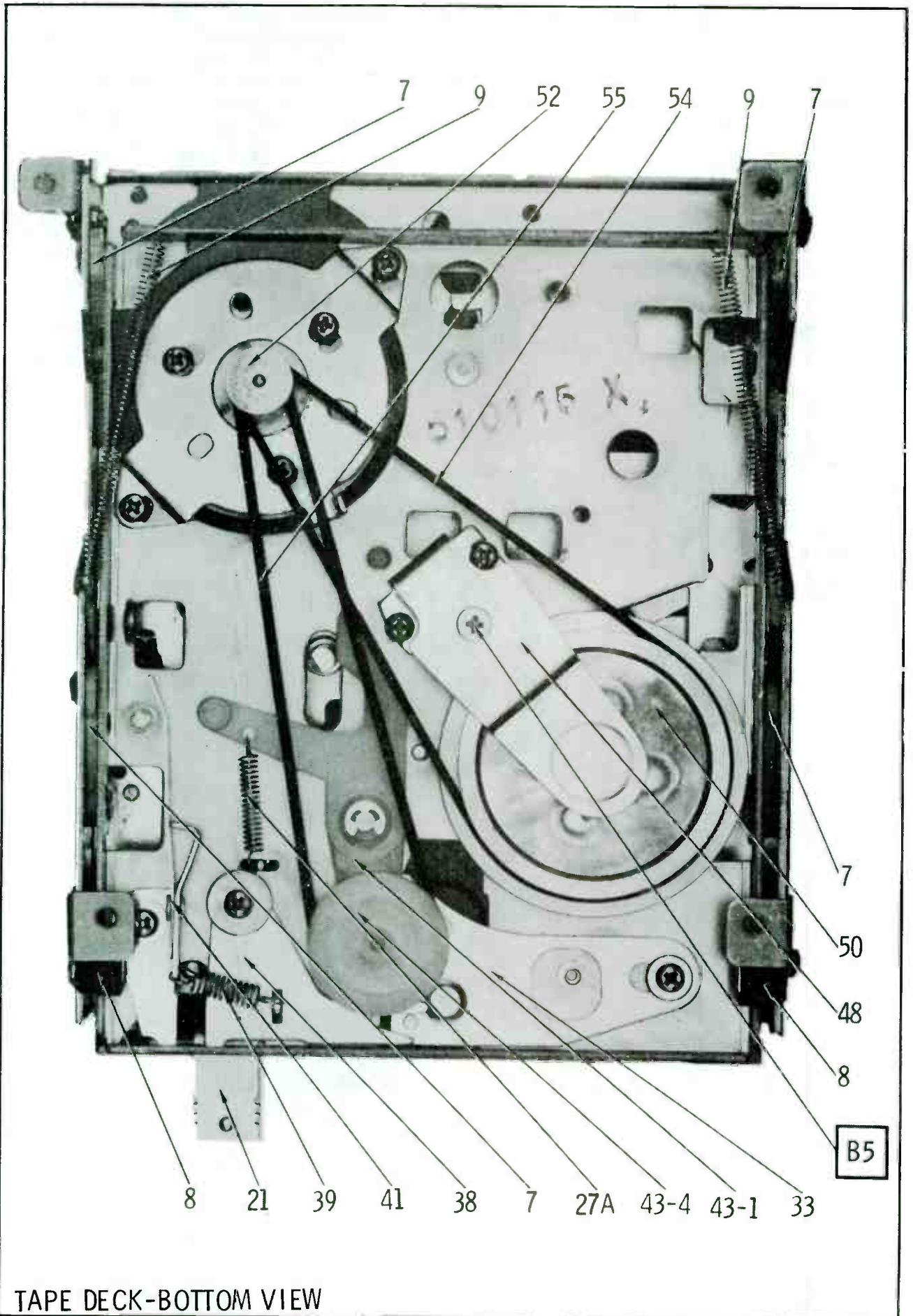
CLEANING LUBRICATING HEAD DEMAGNETIZING

Refer to "General Servicing Information"
on page 4.

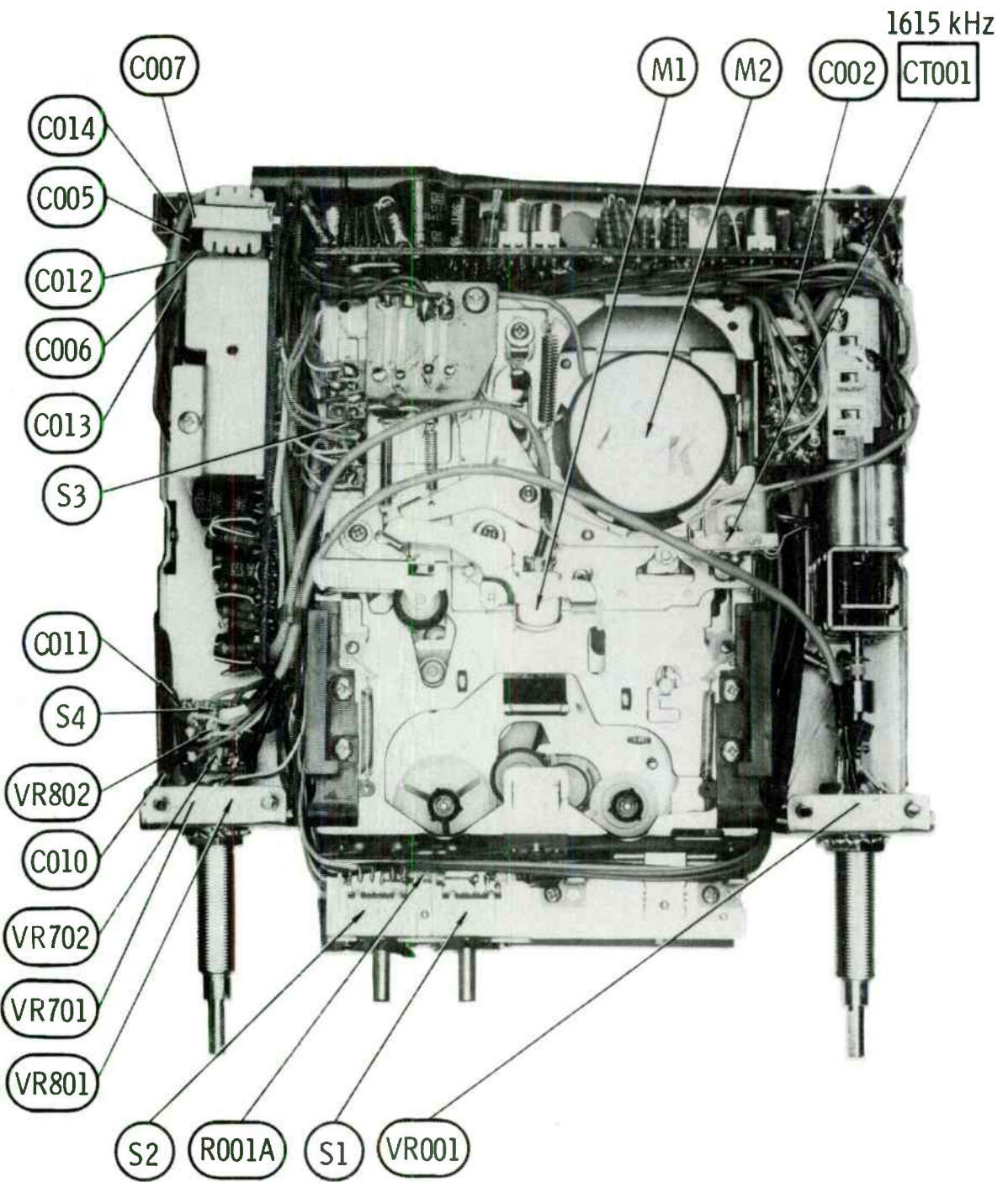


MEDALLION MODEL 65-496

TAPE DECK-TOP VIFW



TAPE DECK-BOTTOM VIEW



CHASSIS-TOP VIEW

ALIGNMENT INSTRUCTIONS

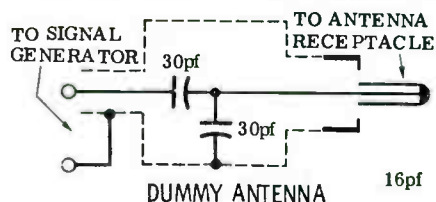
Check for specified source voltage.
Use only enough generator output to provide a usable indication.
Connect low sides of generator and indicator to ground unless specified otherwise.

Suggested Alignment Tools: GC ELECTRONICS
ALL 8290, 8868, 9087



GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1uF to ant input, low side to ground.	455kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	T402, CF401	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	CT402, CT401, CT001	"
Thru dummy antenna to antenna input.	600kHz	Tune to signal	Output meter across voice coil.	T401	Adjust for maximum. Repeat alignment until no further improvement is noted.

With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust CT001 for maximum output. Antenna adjustment CT001 is located inside tape door, upper right rear corner.



FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to ant input.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to D303, cathode.	(1) T302, T301, T101	Adjust for maximum.
"	"	DC probe of VTVM to junction of R501 & C501.	T303	Adjust for zero reading. A positive or negative reading will be obtained on either side of correct setting.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to ant input.
Use 60-hertz, frequency-modulated signal, 450kHz sweep.
Use 60-hertz sawtooth voltage in scope for horizontal deflection.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz 450kHz Sweep	Point of non-interference	Vert input of scope to D303, cathode.	(1) T302, T301, T101	Disconnect stabilizing capacitor C311. Adjust for maximum gain and symmetry of response similar to Fig. 1. Reconnect C311.
"	"	Vert input of scope to junction of R501 & C501.	T303	Adjust for maximum amplitude and straightness of line similar to Fig. 2.

(1) Before adjusting, vary generator frequency slightly. Maximum output indicates exact IF.

ALIGNMENT INSTRUCTIONS (Continued)

FM RF ALIGNMENT—SELECTOR IN FM POSITION

Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
108MHz Unmodulated	High freq End stop	DC probe of VTVM to D303, cathode.	OT	Adjust for maximum.
Unmodulated		"		Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

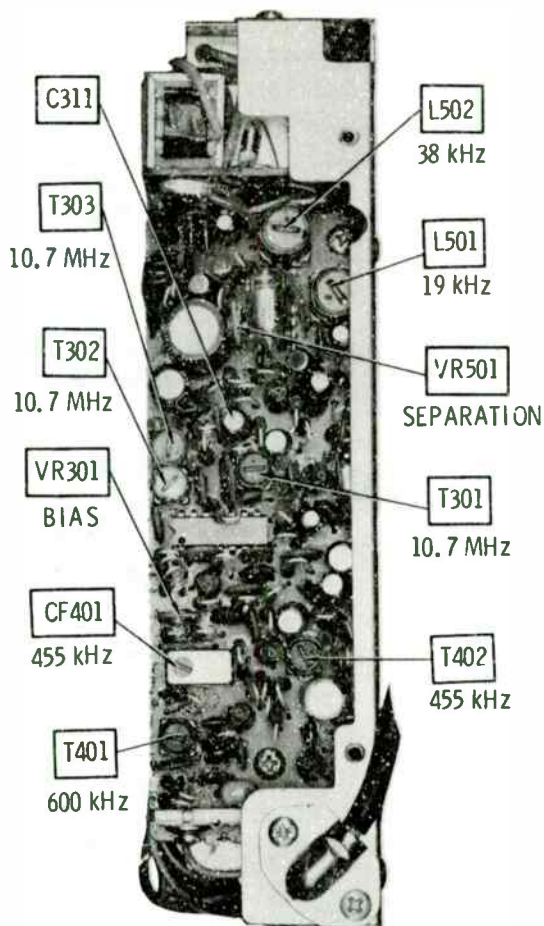
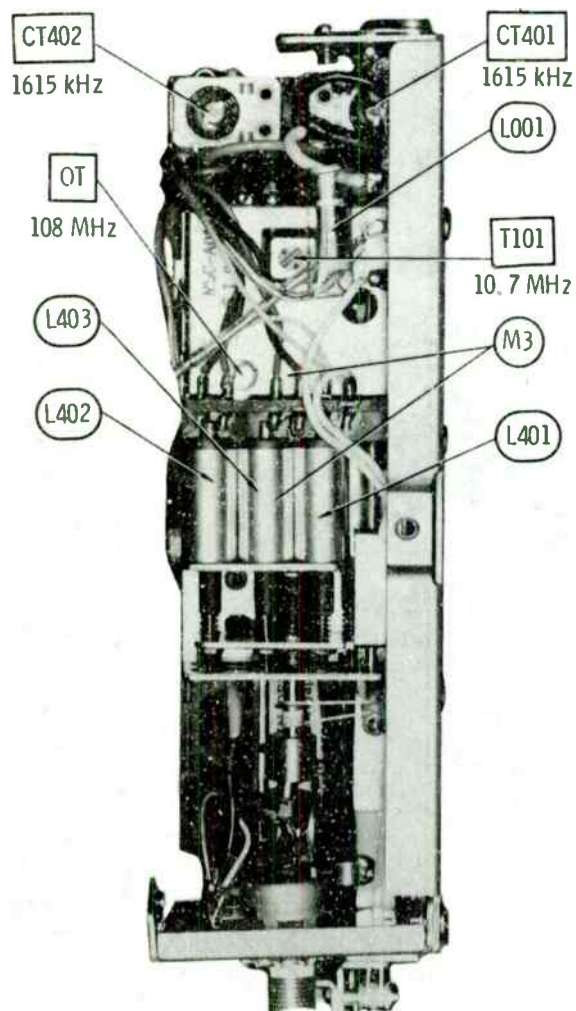
FM STEREO ALIGNMENT USING AUDIO GENERATOR

High side of generator to TR501, base.

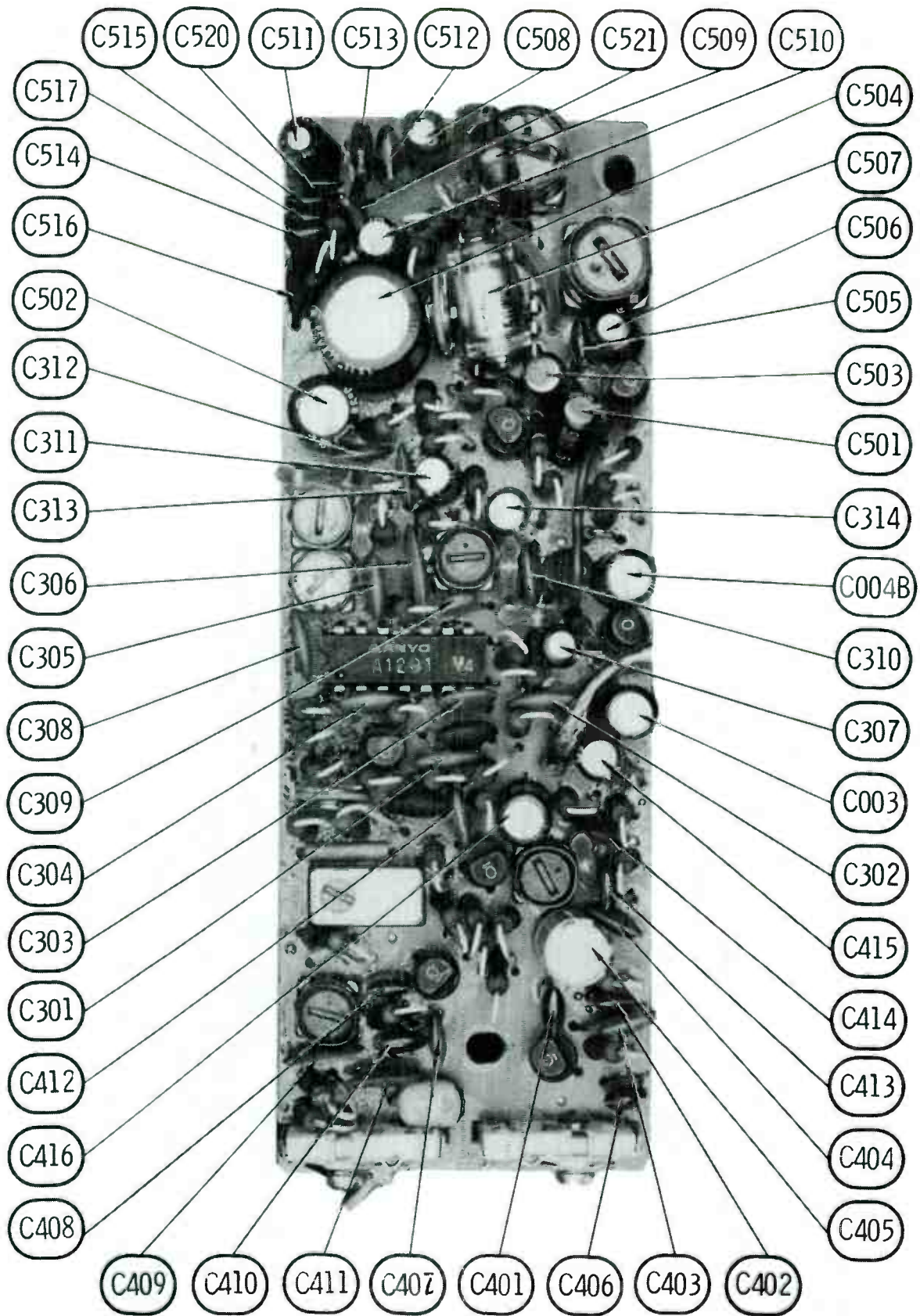
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
19kHz	Vert input of scope to IC501, Pin 3.	L501	Adjust for maximum.
19kHz	Vert input of scope to IC501, Pin 5.	L502	Adjust for maximum 38kHz response.

Tune to stereo station. Adjust VR501 for stereo separation.

MEDALLION MODEL 65-496



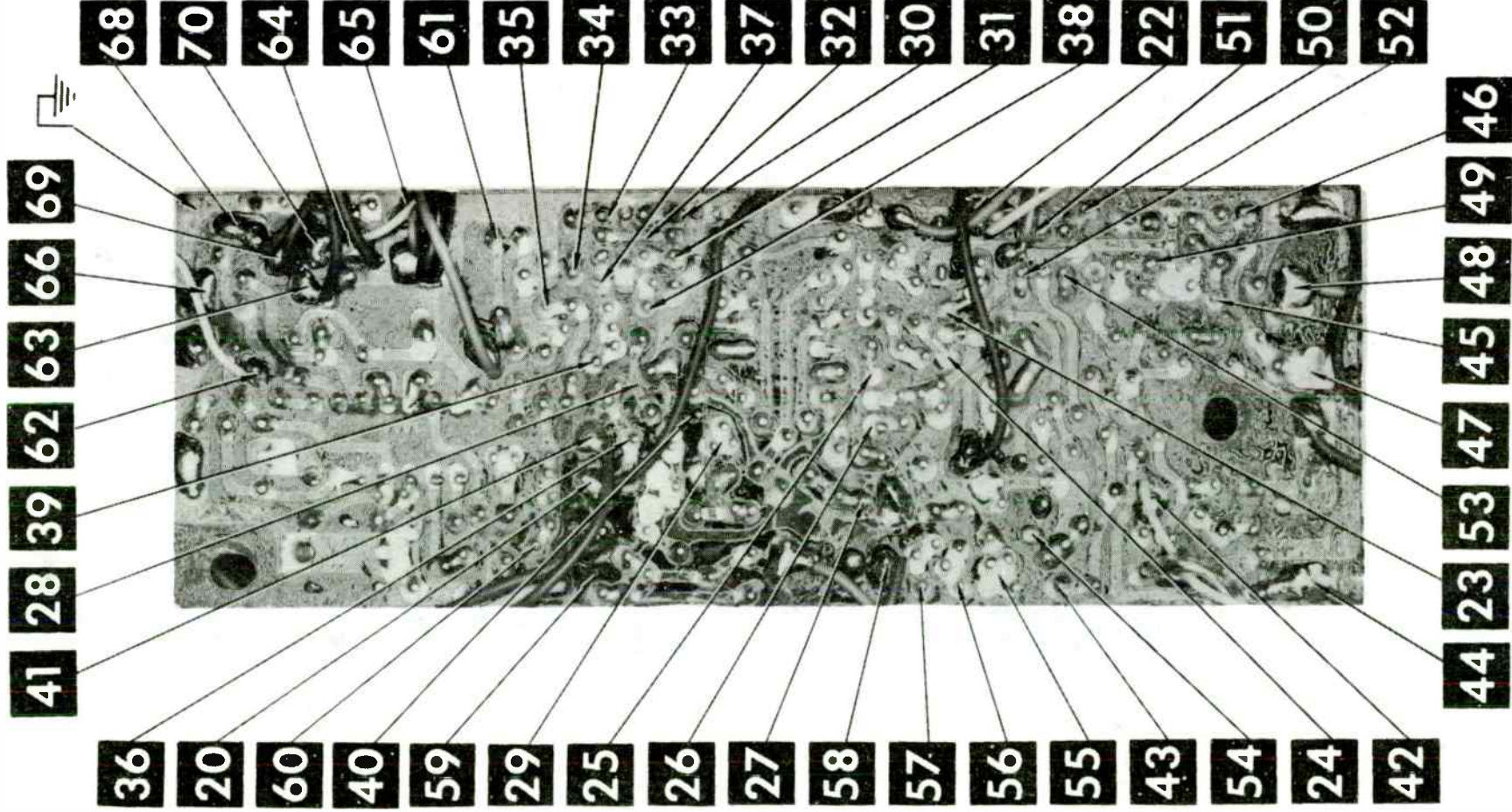
CHASSIS-RIGHT/REAR VIEWS



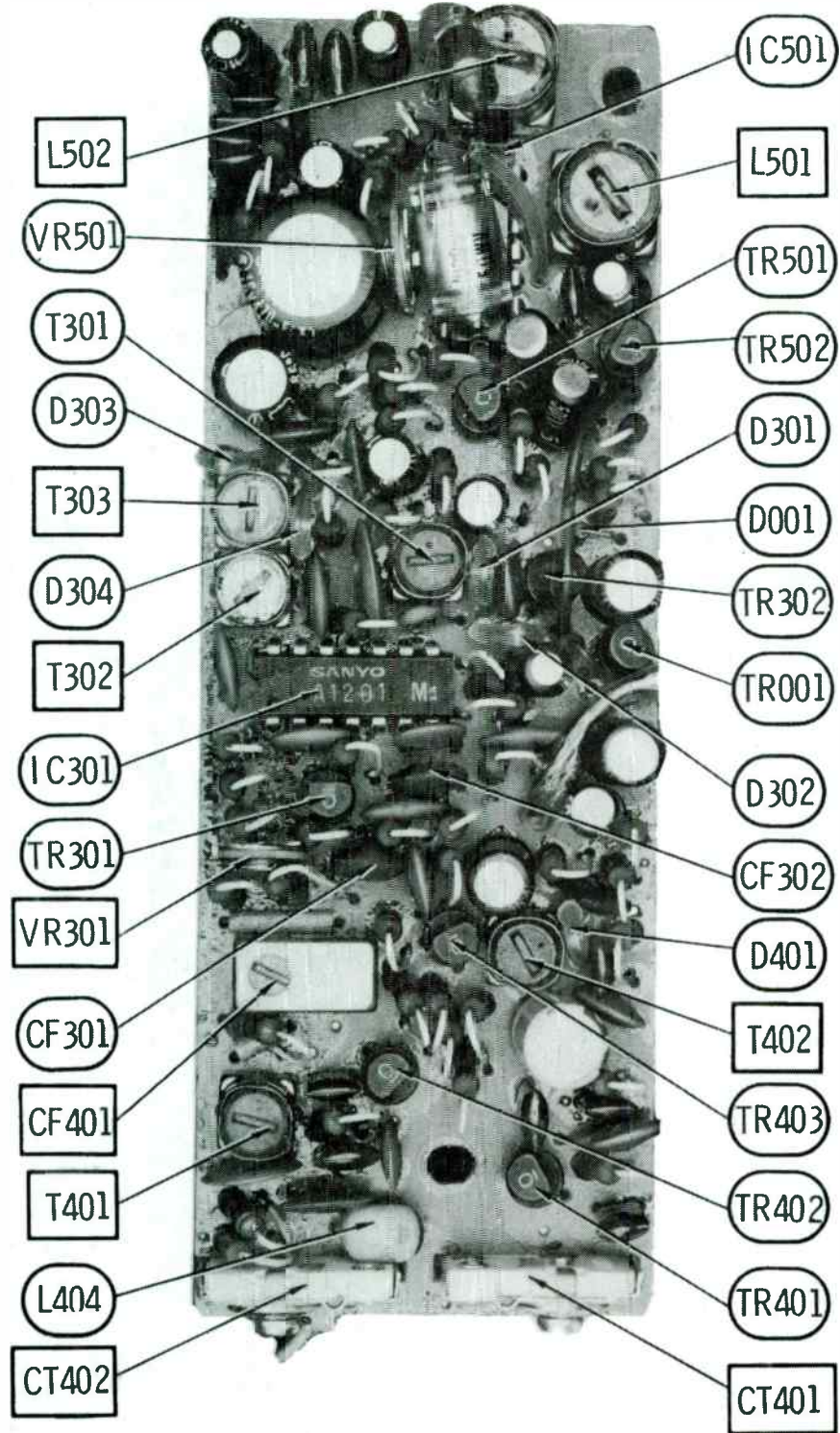
AM/FM BOARD

MEDALLION MODEL 65-496

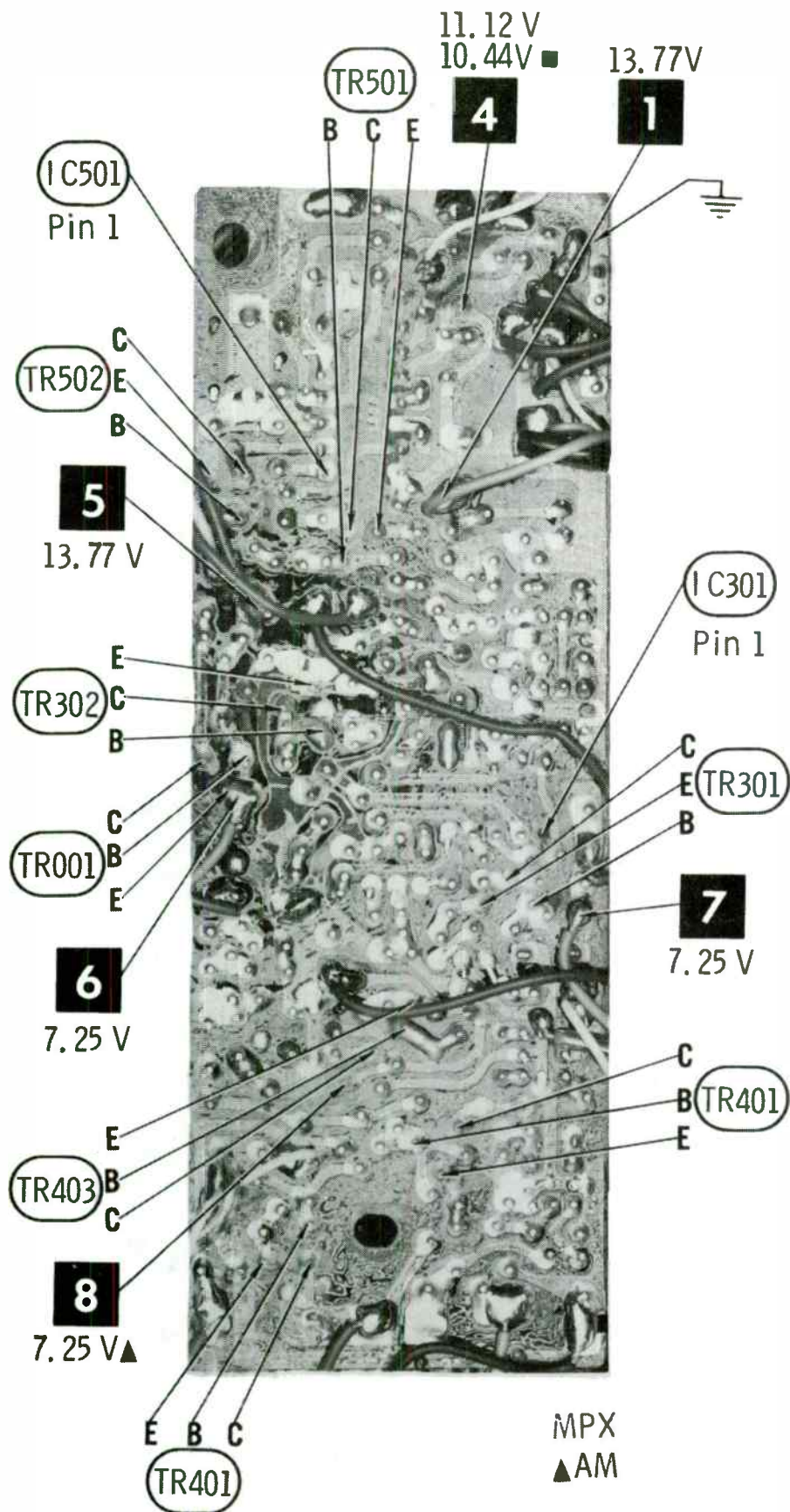
A Howard W. Sams CIRCUITRACE® Photo



AM/FM BOARD

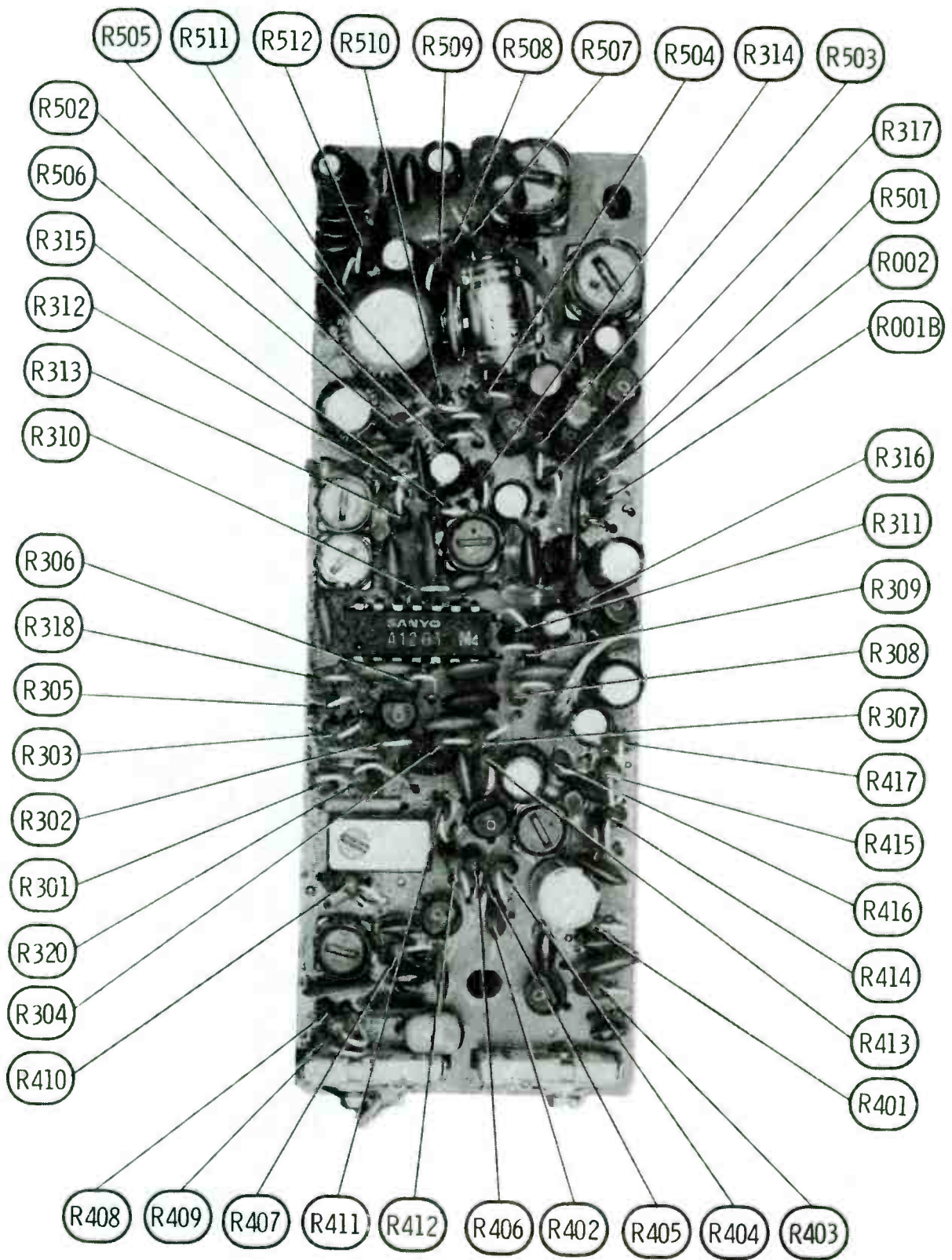


AM/FM BOARD

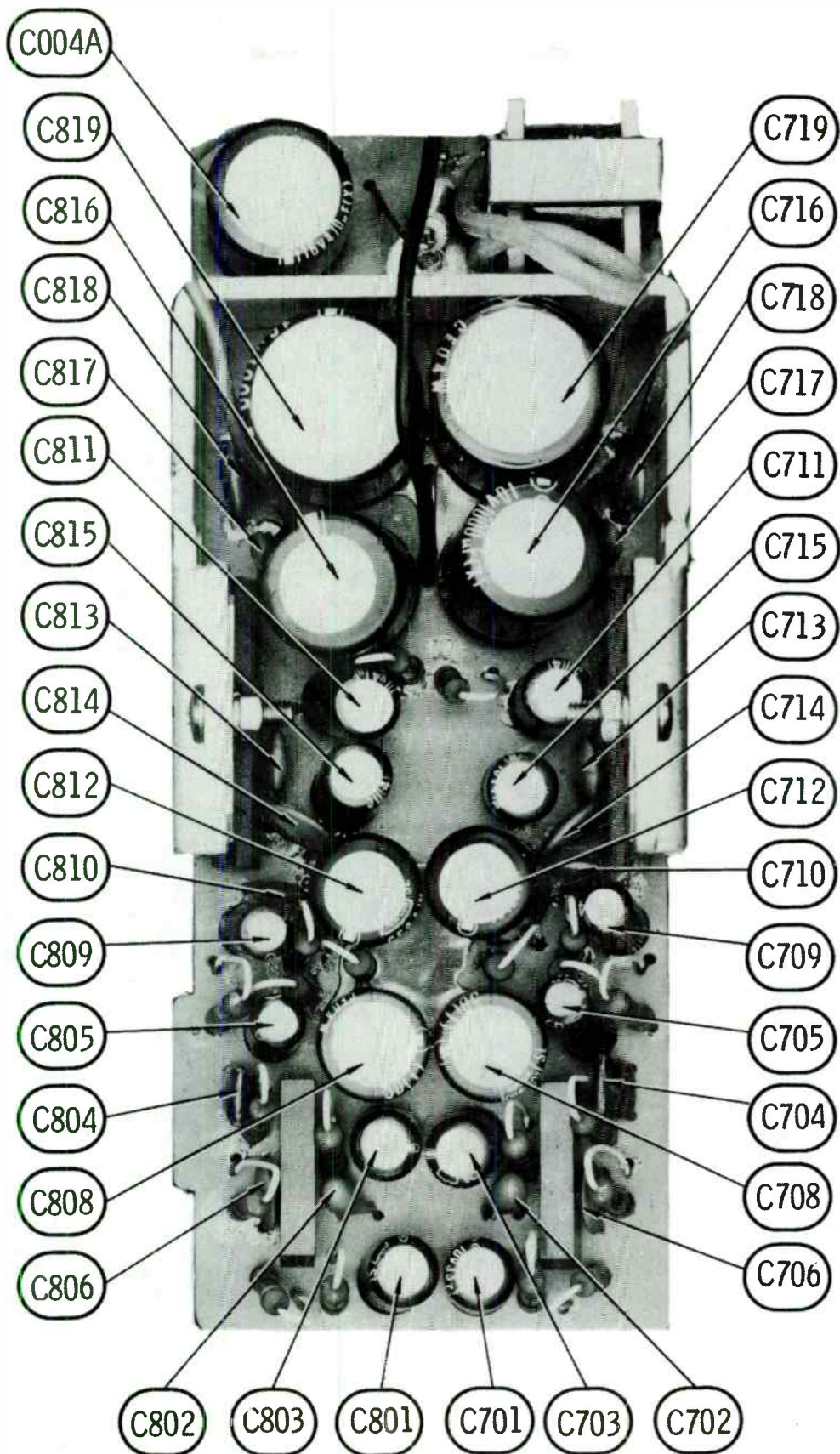


MEDALLION MODEL 65-496

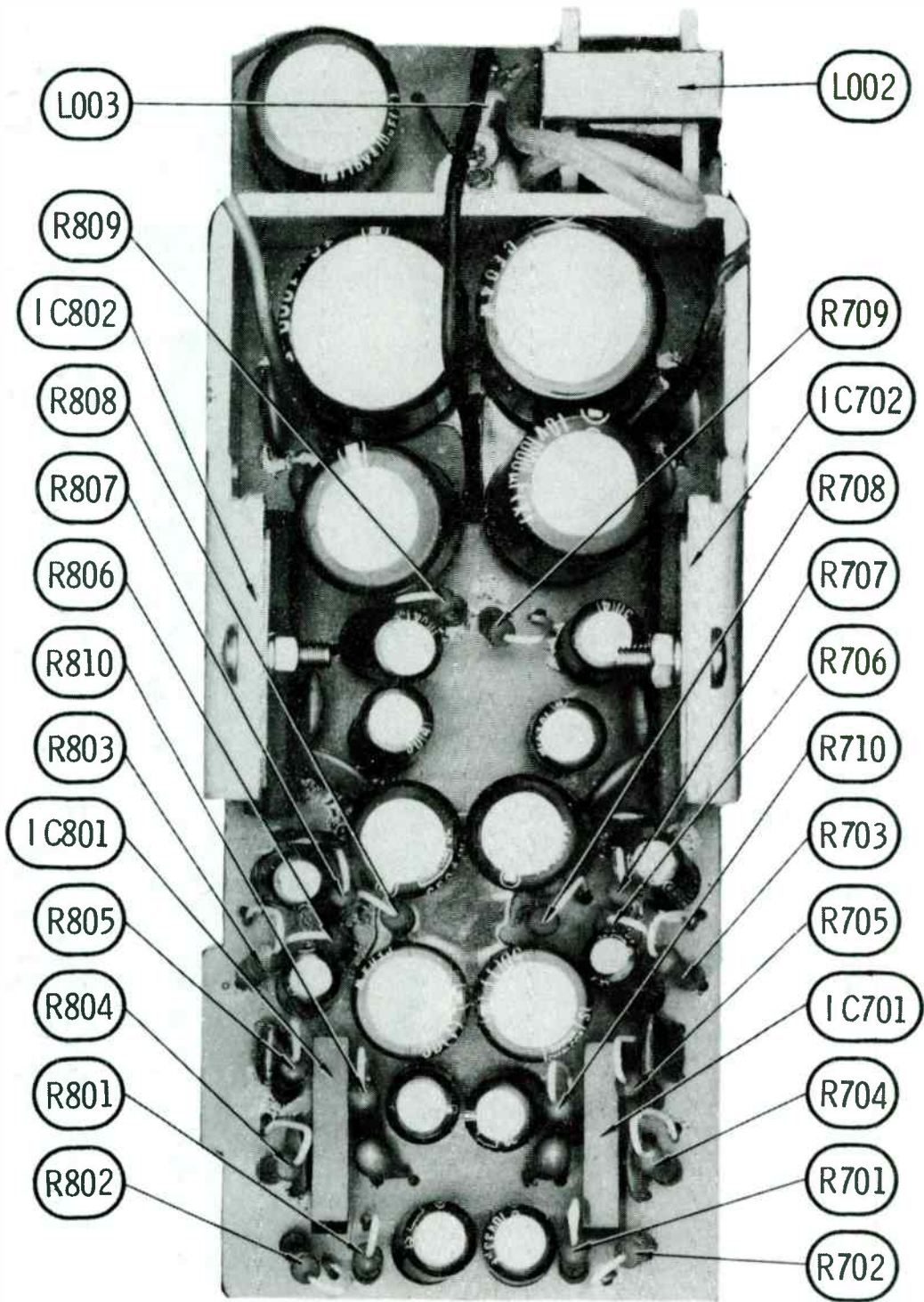
AM/FM BOARD



AM/FM BOARD

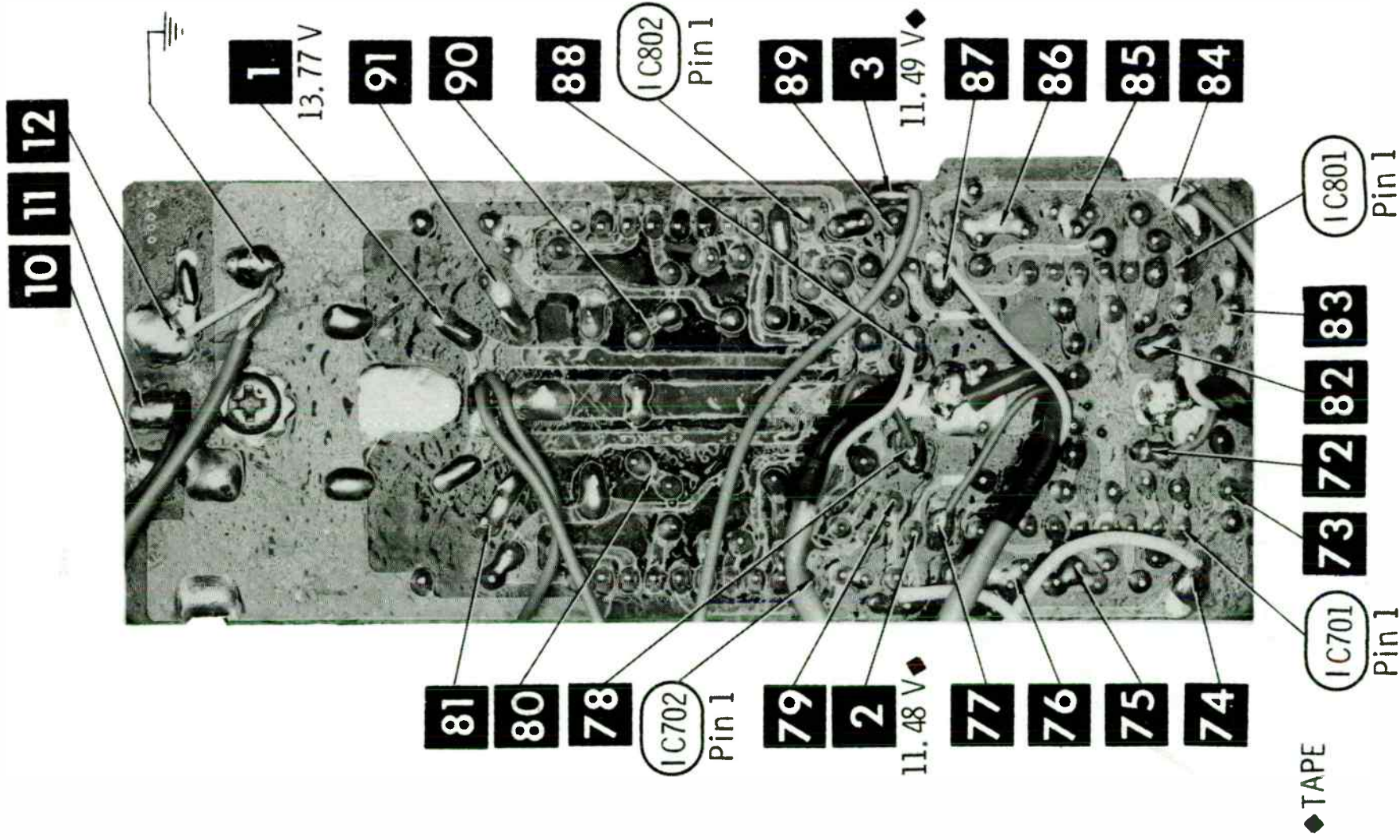


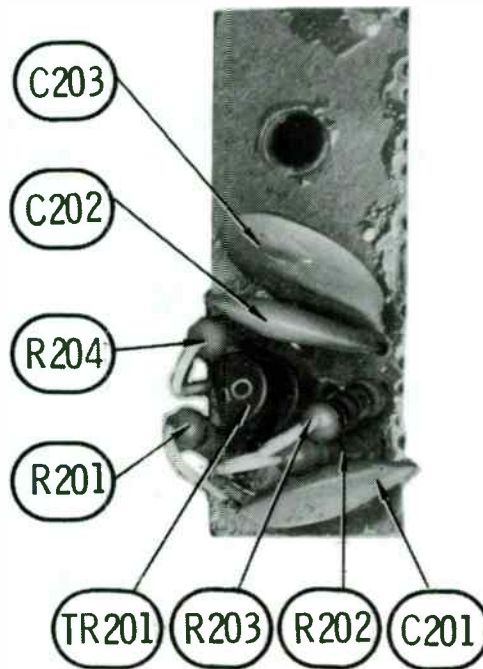
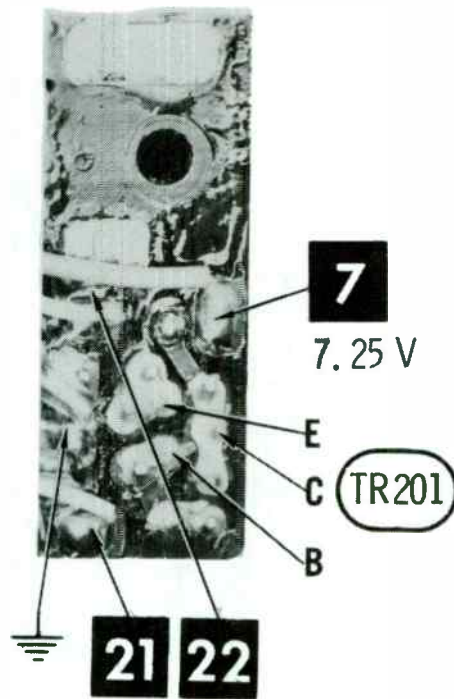
AUDIO BOARD



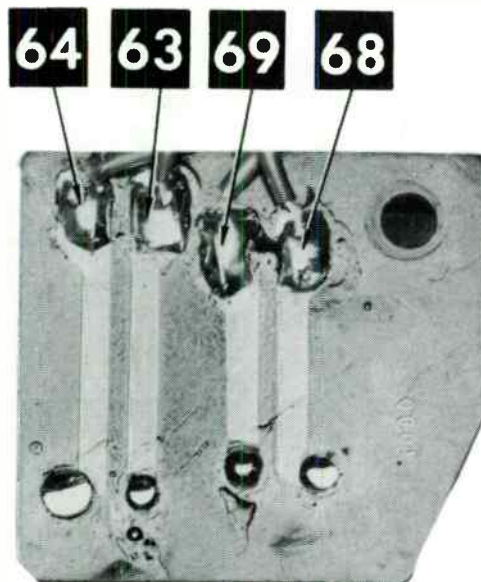
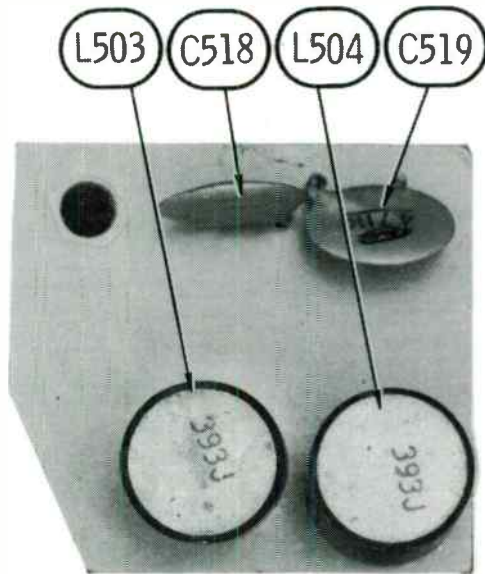
AUDIO BOARD

MEDALLION MODEL 65-496





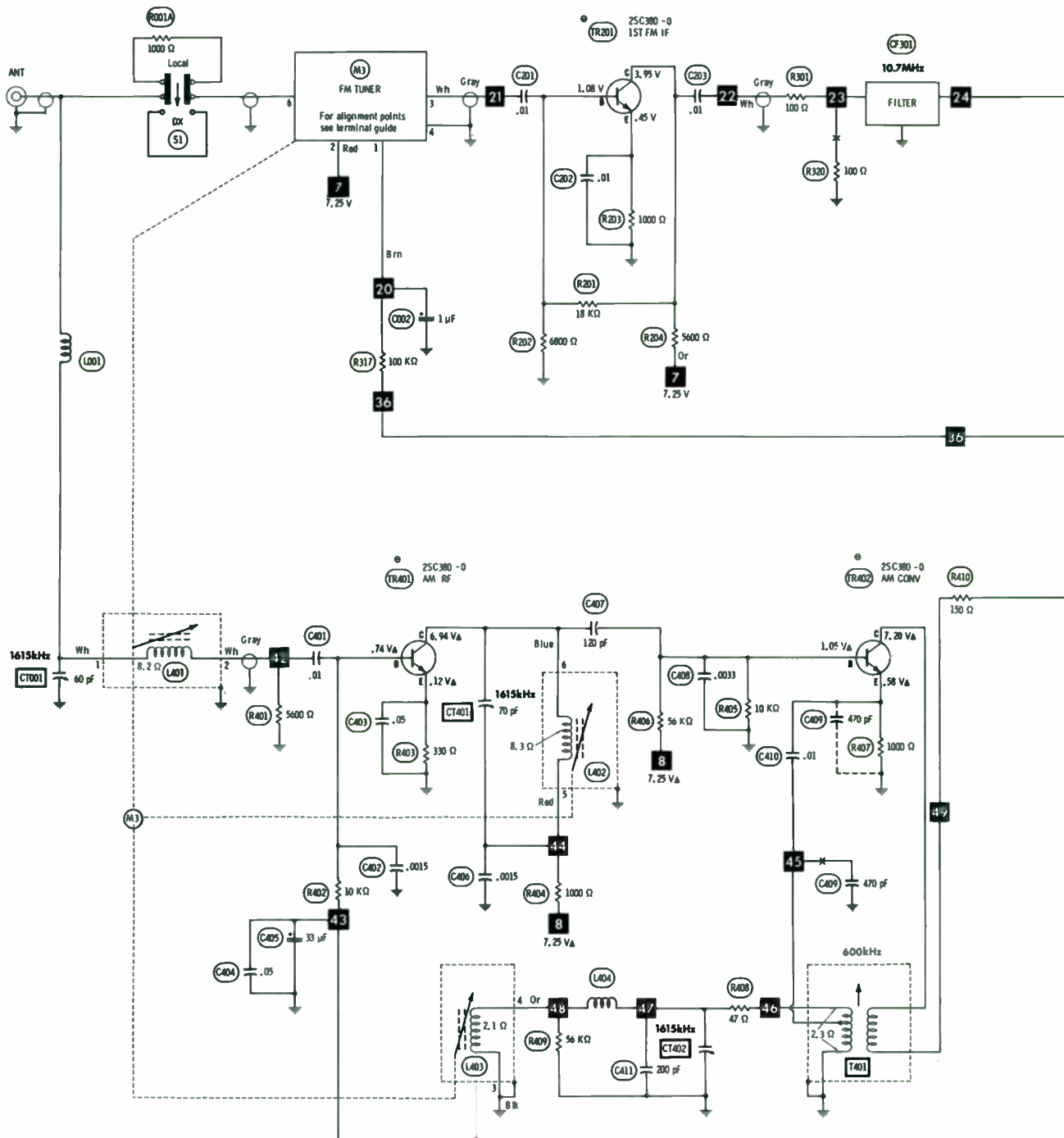
FM IF BOARD



FILTER BOARD

MEDALLION MODEL 65-496

NOTE: DEMAGNETIZE HEADS AFTER SERVICING



- X— Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- * Nominal value
- ⊥ Ground
- ▭ Chassis
- ▽ Common tie point

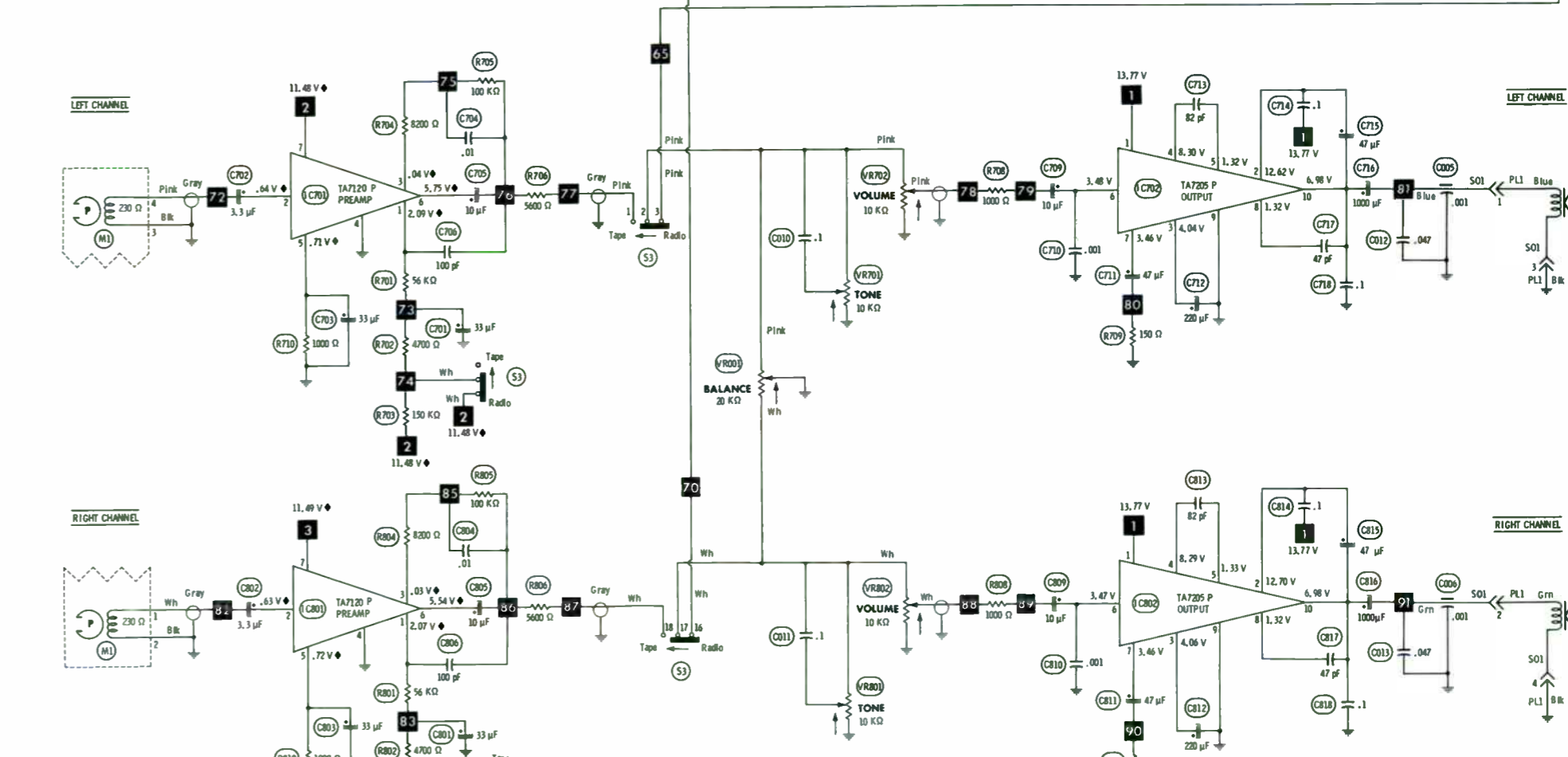
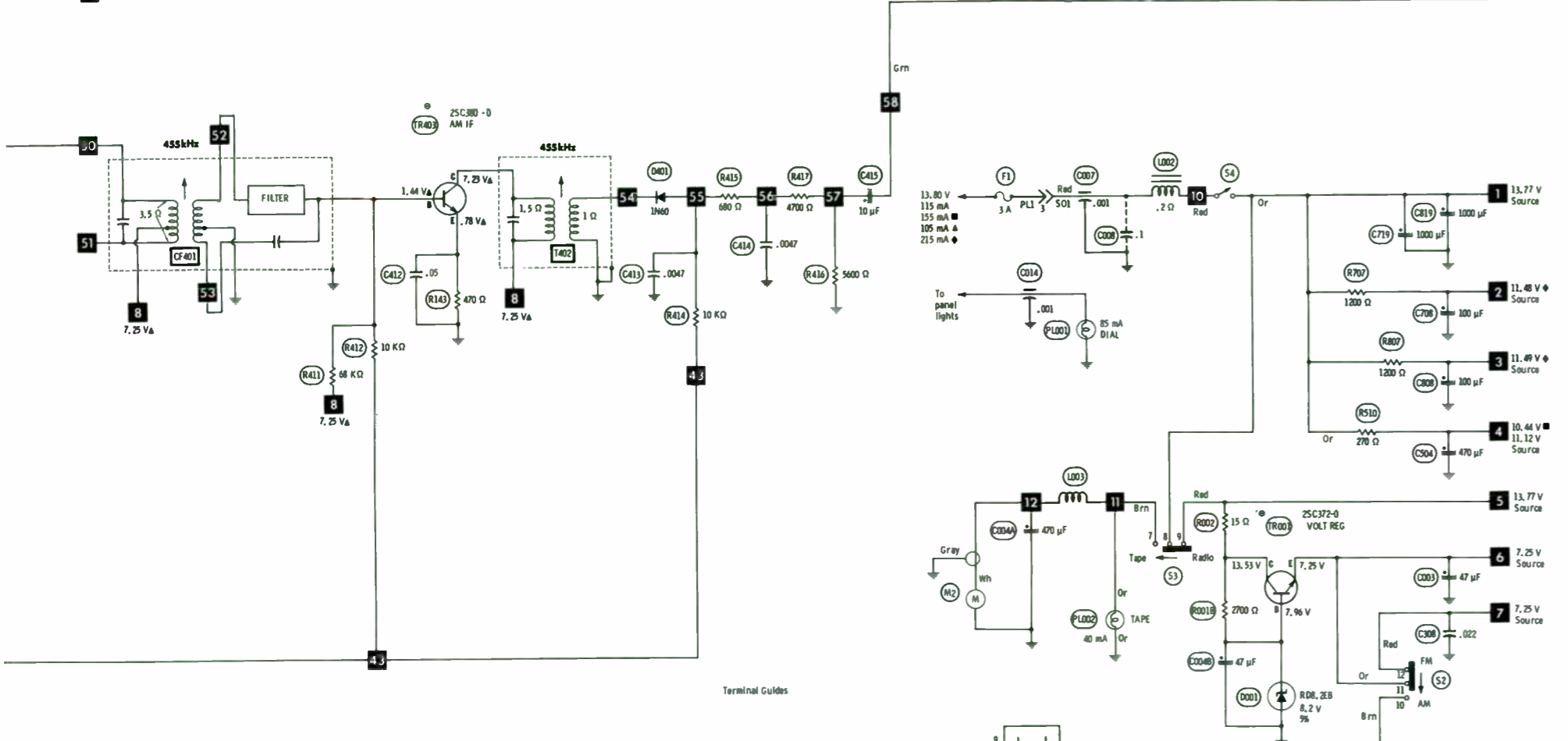
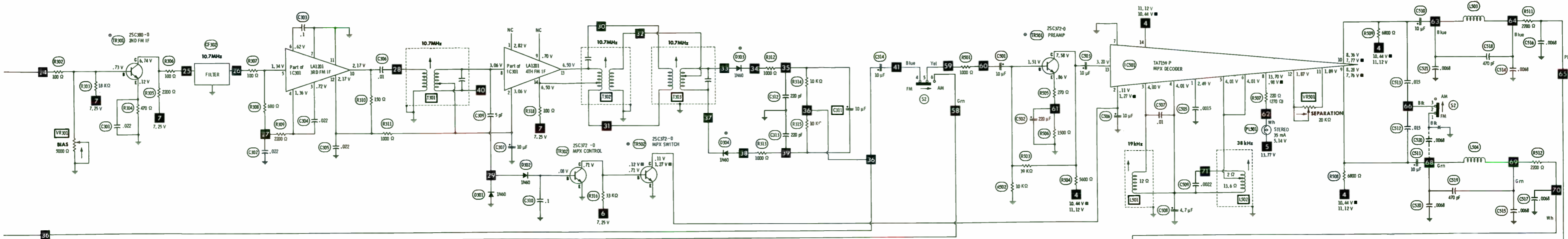
Measurements with switching as shown unless noted:

- FM Stereo signal ▲ AM
- ◆ Tape play ● Record

Supply voltage maintained as shown on input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow at control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 5% unless noted.
 Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC
 WITH **CIRCUITRACE**

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PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.

Have your local distributor check Sams COUNTER FACTS[®] for the most up-to-date replacement.

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Shielded Hook-up Wire	Use BELDEN No. 8885
Rear Seat Speaker Extension Cable	Use BELDEN No. 8782 (Stranded) Coded Parallel Leads
Bonding Strap	Use BELDEN No. 8661 (3/8 In.) or 8670 (3/4 In.)
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
0001	RD-8, 2EB	09-306238	GEZD-8.2		Z80.2B	HEPR9135	RE 112		RT-257	ECG5072
D301	1N6C	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D302	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D303	1N60	09-306019	1N60(7)	1N60 (7)	PTC206(6)	HEPR9135(7)	RE 86(6)	SK3088(7)	RT-263(7)	ECG110(6)
D304	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D401	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
IC301	LA1201	09-308008	GEIC-43				RE 335-IC			ECG1003
IC501	TA7159P	09-308094	GEIC-113							ECG1087
IC701	TA7120P	09-308095	GEIC-103							ECG1155
IC702	TA7205	09-308080	GEIC-179		PTC780		RE 340M-IC			ECG1155
IC801	TA7120P	09-308095	GEIC-103							ECG1087
IC802	TA7205P	09-308080	GEIC-179		PTC780		RE 340M-IC			ECG1155
TR001	25C372-0	09-302125(1)	GE-61 *	(IR)25C372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG1155 *
	25C945	09-302125(1)	GE-212	(IR)25C945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG123A *
TR201	25C380-0	09-302124(1)	GE-61 *	(IR)25C380A0	PTC136 *	HEPS0016 *	RE 9 *	SK3018 *	RT-107A	ECG123A *
	25C839	09-302124(1)	GE-61 *	(IR)25C839	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
TR301	25C380-0	09-302124(1)	GE-61 *	(IR)25C380A0	PTC136 *	HEPS0016 *	RE 9 *	SK3018 *	RT-107A	ECG123A *
	25C839	09-302124(1)	GE-61 *	(IR)25C839	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
TR401	25C380-0	09-302124(1)	GE-61 *	(IR)25C380A0	PTC136 *	HEPS0016 *	RE 9 *	SK3018 *	RT-107A	ECG123A *
	25C839	09-302124(1)	GE-61 *	(IR)25C839	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
TR402	25C380-0	09-302124(1)	GE-61 *	(IR)25C380A0	PTC136 *	HEPS0016 *	RE 9 *	SK3018 *	RT-107A	ECG123A *
	25C839	09-302124(1)	GE-61 *	(IR)25C839	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
TR403	25C380-0	09-302124(1)	GE-61 *	(IR)25C380A0	PTC136 *	HEPS0016 *	RE 9 *	SK3018 *	RT-107A	ECG123A *
	25C839	09-302124(1)	GE-61 *	(IR)25C839	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
TR501	25C372-0	09-302125(1)	GE-61 *	(IR)25C372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
	25C945	09-302125(1)	GE-212	(IR)25C945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
TR502	25C372-0	09-302125(1)	GE-61 *	(IR)25C372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
	25C945	09-302125(1)	GE-212	(IR)25C945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199

* Lead Configuration may vary from original.

(1) Used in some versions.

(6) Matched pair.

(7) Two required - select matched pair.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	TRW PART No.
C002	1 10V	77-336105	PC1-50	TT12X1	EV-1315	
C003	47 10V	77-336476	PC50-16	VT47016	EV-1226	
C004A	470 16V	77-337477		VT470J16		
C004B	47 10V	77-336476	PC50-16	VT47016	EV-1222	
C307	10 16V	77-336106	PC10-25	VT110A25	EV-1222	
C311	10 16V	77-336106	PC10-25	VT110A25	EV-1222	
C314	10 16V	77-337336	PC10-25	VT110A25	EV-1222	
C405	33 16V	77-336106	PC10-25	VT110A25	EV-1222	
C415	10 16V	77-336106	PC10-25	VT110A25	EV-1222	
C416	47 10V	77-336476	PC50-16	VT47016	EV-1222	
C501	10 16V	77-336106	PC10-25	VT110A25	EV-1222	
C502	220 6.3V	77-335227	PC250-10	VT220F10	EV-1140	
C503	10 16V	77-336106	PC10-25	VT110A25	EV-1222	
C504	470 16V	77-337477		VT470J16		
C506	4.7 25V	77-336106		VT470A50		
C508	4.7 10V	77-336475	PC5-50	VT47A50	EV-1319	
C510	10 16V	77-336106	PC10-25	VT110A25	EV-1222	
C511	10 16V	77-336106	PC10-25	VT110A25	EV-1222	
C701	33 10V	77-336336	PC30-25	VT133A10	EV-1125	
C702	3.3 16V	77-337335		TD335M035FL	SD35-3R39	
C703	33 10V	77-336336	PC30-25	VT133A10	EV-1125	
C705	10 16V	77-336106	PC10-25	VT110A25	EV-1222	
C708	100 16V	77-337107	PC10-16	VT1100F16	EV-1222	
C709	10 16V	77-336106	PC10-25	VT110A25	EV-1222	
C711	47 10V	77-336476	PC50-16	VT47016	EV-1226	
C712	220 10V	77-336227	PC250-10	VT220F10	EV-1140	
C715	47 10V	77-336476	PC50-16	VT47016	EV-1226	
C716	1000 10V	77-336108				
C719	1000 16V	77-337108				
C801	33 10V	77-336336	PC30-25	VT133A10	EV-1125	
C802	3.3 16V	77-337335		TD335M035FL	SD35-3R39	
C803	33 10V	77-336336	PC30-25	VT133A10	EV-1125	
C805	10 16V	77-336106	PC10-25	VT110A25	EV-1222	
C808	100 16V	77-337107	PC10-16	VT1100F16	EV-1222	
C809	10 16V	77-336106	PC10-25	VT110A25	EV-1222	
C811	47 10V	77-336476	PC50-16	VT47016	EV-1226	
C812	220 10V	77-336227	PC250-10	VT220F10	EV-1140	
C815	47 10V	77-336476	PC50-16	VT47016	EV-1226	
C816	1000 10V	77-336108				
C819	1000 16V	77-337108				

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.

Have your local distributor check Sams COUNTER FACTS[®] for the most up-to-date replacement.

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C005		65-130020				
C006		65-130020				
C007		65-130020				
C008	.1 12V	65-132003	UK12-104		MAG1201	
C010	.1 12V	65-132003	UK12-104		MAG1201	
C011	.1 12V	65-132003	UK12-104		MAG1201	
C012	.047	65-132003	UK50-503		MAG5015	
C013	.047	65-132003	UK50-503		MAG5015	
C014		65-130020				
C201	.01	65-132003	UK50-103		MAG5011	
C202	.01	65-132003	UK50-103		MAG5011	
C203	.01	65-132003	UK50-103		MAG5011	
C301	.022	65-132003	DC-253	MGPO25	TA125	TG-S25
C302	.022	65-132003	DC-253	MGPO25	TA125	TG-S25
C303	.1 12V	65-132003	UK12-104	MGPO25	MAG1201	
C304	.022	65-132003	DC-253	MGPO25	TA125	TG-S25
C305	.022	65-132003	DC-253	MGPO25	TA125	TG-S25
C306	.01	65-132003	UK50-103	MGPO25	MAG5011	
C308	.022	65-132003	DC-253	MGPO25	TA125	TG-S25
C309	5	65-132003	CD15CD0500D3			MWA-050
C310	.1 12V	65-132003	UK12-104		MAG1201	
C312	220 10%	65-132003	DU-221			10TS-T22
C313	220 10%	65-132003	DU-221			10TS-T22
C401	.01	65-132004		WMF1S1	EMF1A110	1PB-S10
C402	.0015	65-132004		OPMS6015	EMF6215	6PS-D15
C403	.05	65-132004	UK50-503		MAG5015	
C404	.05	65-132004	UK50-503		MAG5015	
C406	.0015	65-132004		DPMS6015	EMF6215	6PS-D15
C407	120	65-132004		CD15FD121J03	SX312	MWA-121
C408	.0033	78-651332			M192P3329RB	192P3329RB
C409	470 10%	78-651332	DD-471	GP470	GP347	10TS-T47
C410	.01	78-651332		WMF1S1	EMF1A110	1PB-S10
C411	200 N470	78-651332				10TCT-T20
C412	.05	78-651332	UK50-503		MAG5015	
C413	.0047	78-651332			M192P4729RB	192P4729RB
C414	.0047	78-651332			M192P4729RB	192P4729RB
C505	.0015	78-351103		DPMS6015	EMF6215	6PS-D15
C507	.01	78-351103			SX110	
C509	.0022	78-351103		CD19F0222J03	SX222	MWC-222
C512	.015	78-351103		WMF1S15	EMF1A115	1PB-S15
C513	.015	78-351103		WMF1S15	EMF1A115	1PB-S15
C514	.0068	78-351103		WMF1D68	EMF1A268	1PB-D68
C515	.0068	78-351103		WMF1D68	EMF1A268	1PB-D68
C516	.0068	78-351103		WMF1D68	EMF1A268	1PB-D68
C517	.0068	78-351103		WMF1D68	EMF1A268	1PB-D68
C518	470 10%	78-351103	DD-471	GP470	GP347	10TS-T47
C519	470 10%	78-351103	DD-471	GP470	GP347	10TS-T47
C520	.0068	78-351103		WMF1D68	EMF1A268	1PB-D68
C521	.0068	78-351103		WMF1D68	EMF1A268	1PB-D68
C704	.01	78-351103		WMF1S1	EMF1A110	1PB-S10
C706	100	78-351103	DD-101	GP100	GP310	10TS-T10
C710	.001	78-351103		DPMS6D		



MODEL FM152M

ALIGNMENT INSTRUCTIONS

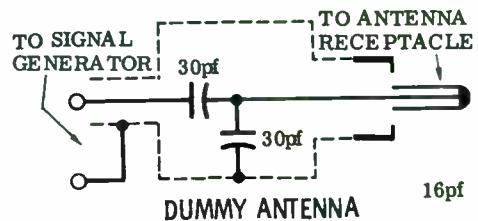
Check for specified source voltage.
Use only enough generator output to provide a usable indication. Connect low sides of generator and indicator to ground unless specified otherwise.

Suggested Alignment Tools: GC ELECTRONICS
 T1 5000
 T2 thru T7, L2, L3, L5 9296, 9297, 9300
 TR1, TR2, TR3, TR54, TR57, TR61 5000, 8868, 9089



GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1uF to ant input, low side to ground.	262kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	T7, T6	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	TR61, TR57, TR54	"

With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust TR54 for maximum output. Antenna adjustment TR54 is located on bottom right rear corner.



FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to ant input.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to point A.	T5 (Pri.), T4, T3, T2, T1	Adjust for maximum.
"	"	DC probe of VTVM to point B.	T5 (Sec.)	Adjust for zero reading. A positive or negative reading will be obtained on either side of correct setting.

MOTOROLA MODEL FM152M

ALIGNMENT INSTRUCTIONS (Continued)

FM IF ALIGNMENT USING FM SIGNAL GENERATOR—SELECTOR IN FM POSITION

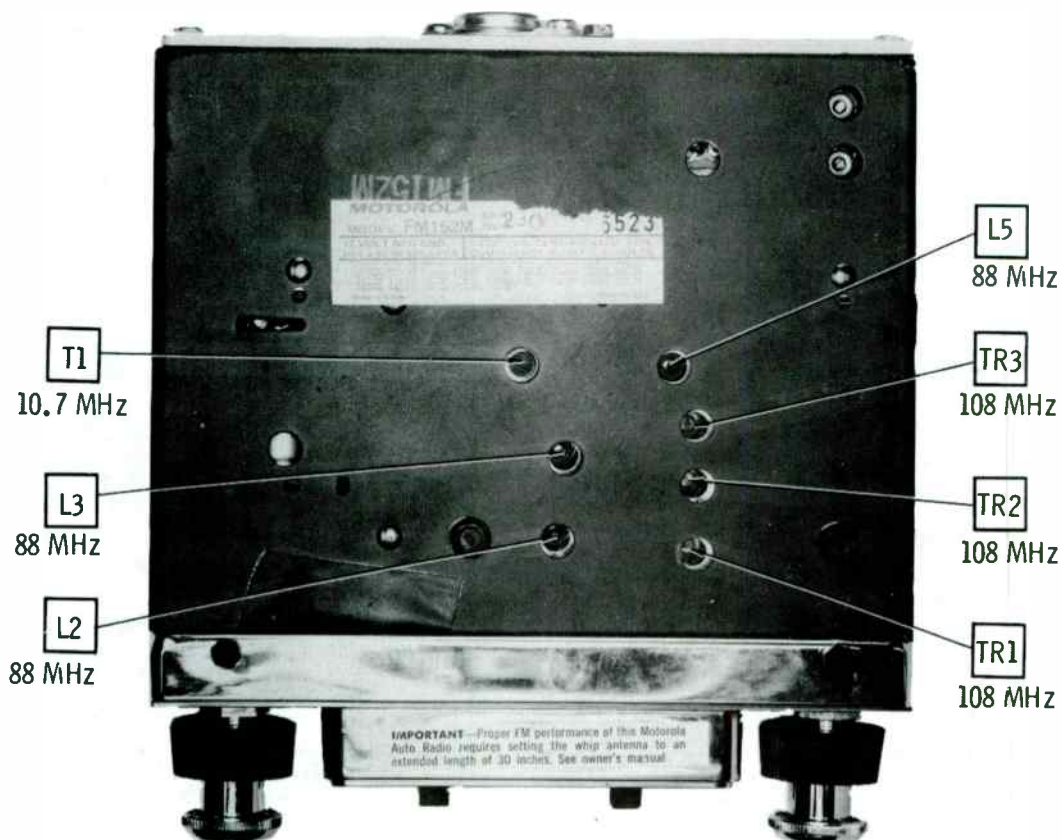
High side of generator thru .001uF to ant input.
Use only enough marker signal for indication. Use 60-hertz, frequency-modulated signal, 450kHz sweep.
Use 60-hertz sawtooth voltage in scope for horizontal deflection.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz 450kHz Sweep	Point of non-interference	Vert input of scope to point A.	T5(Pri.), T4,T3,T2,T1	Disconnect stabilizing capacitor C37. Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown. Reconnect C37.
"	"	Vert input of scope to point B.	T5(Sec.)	Adjust T5(Sec.) to place marker at center of S curve similar to Fig. 2. Readjust T5(Pri.) for maximum amplitude and straightness of line.

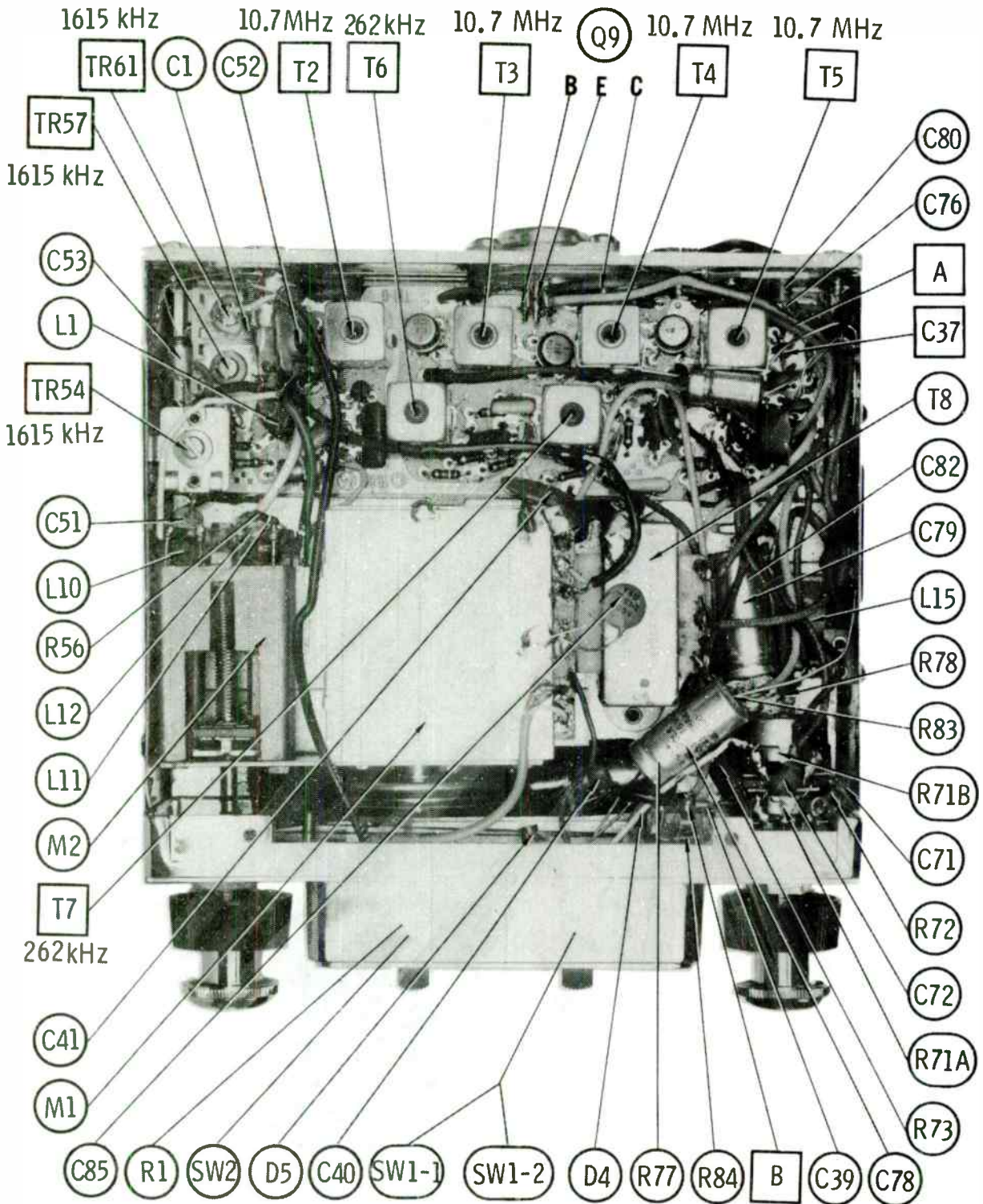
FM RF ALIGNMENT—SELECTOR IN FM POSITION

Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead.
Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.

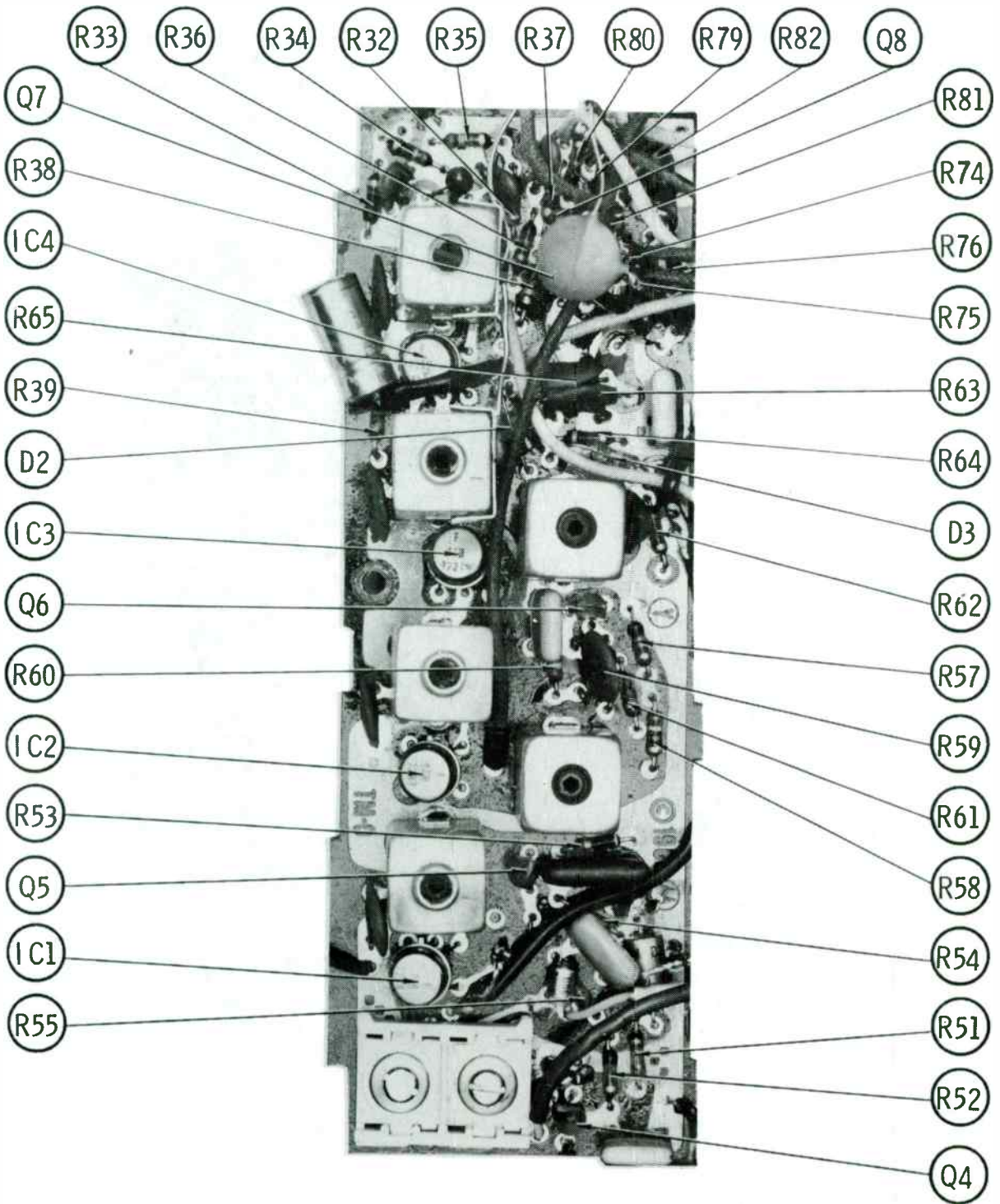
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
88MHz Unmodulated	Low freq End stop	DC probe of VTVM to point A.	L5,L3,L2	Adjust for maximum.
108MHz Unmodulated	High freq End stop	"	TR3,TR2,TR1	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.



OVERALL-TOP VIEW



OVERALL-BOTTOM VIEW



MAIN BOARD

MOTOROLA MODEL FM152M

13.42 V
Source

1

Q8
E
B
C

Q7
C
B
E

IC4
Pin 1

IC3
Pin 1

Q6
C
E
B

2
Source
9.06 V

IC2
Pin 1

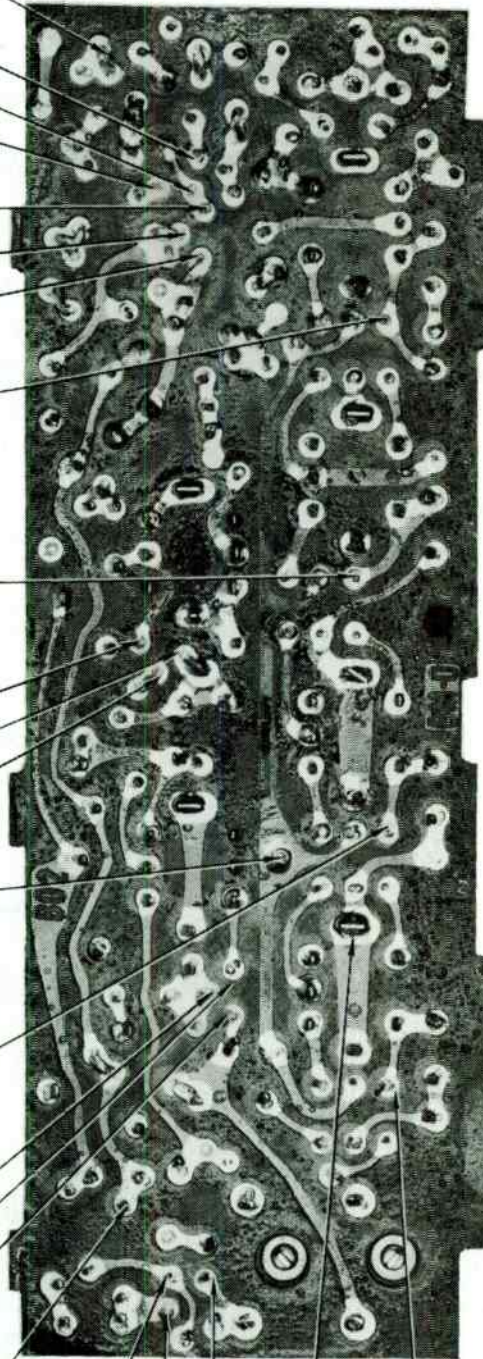
Q5
B
C
E

▲AM

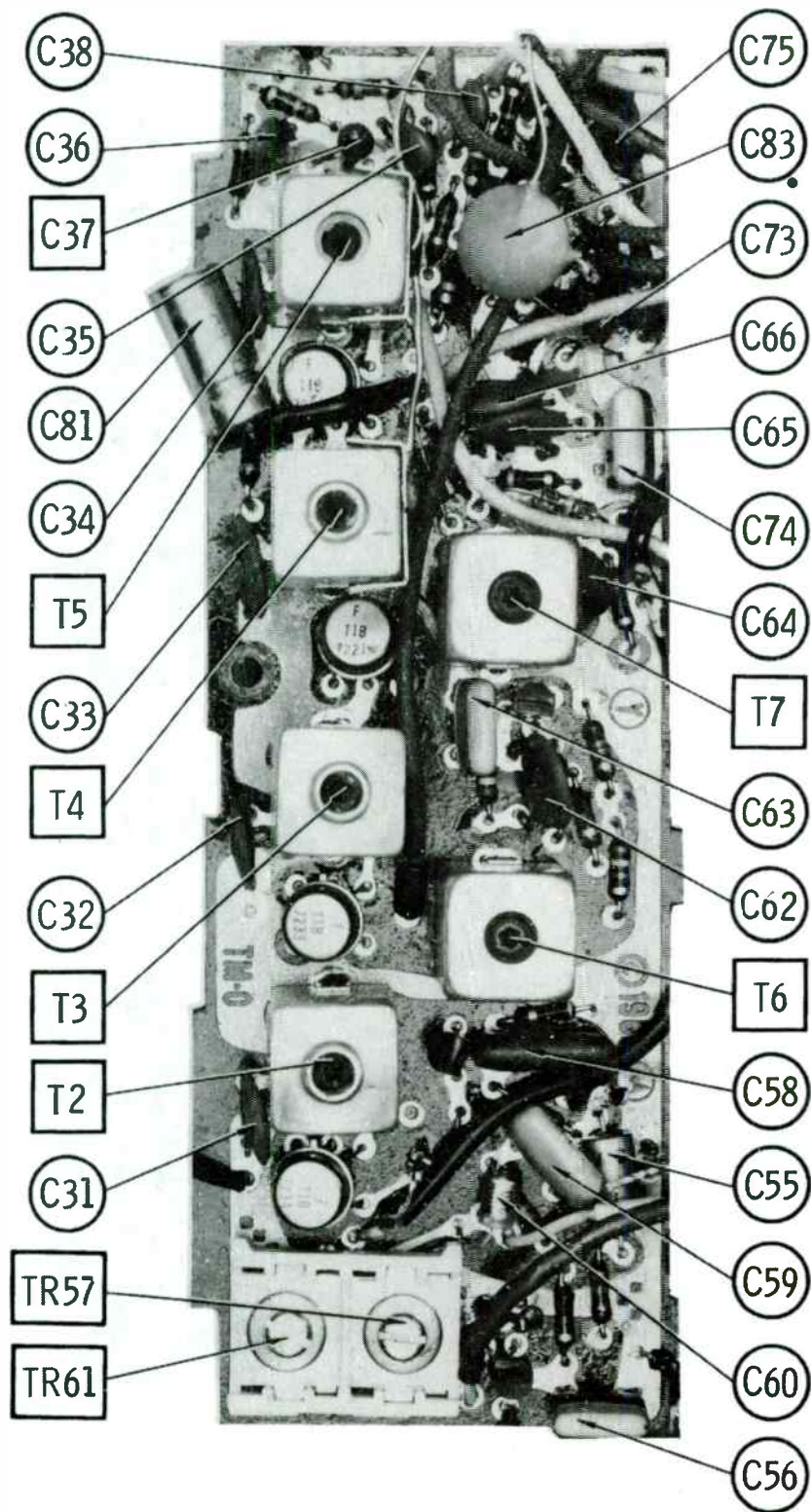
4
Source▲
8.65 V

Q4
B
E
C

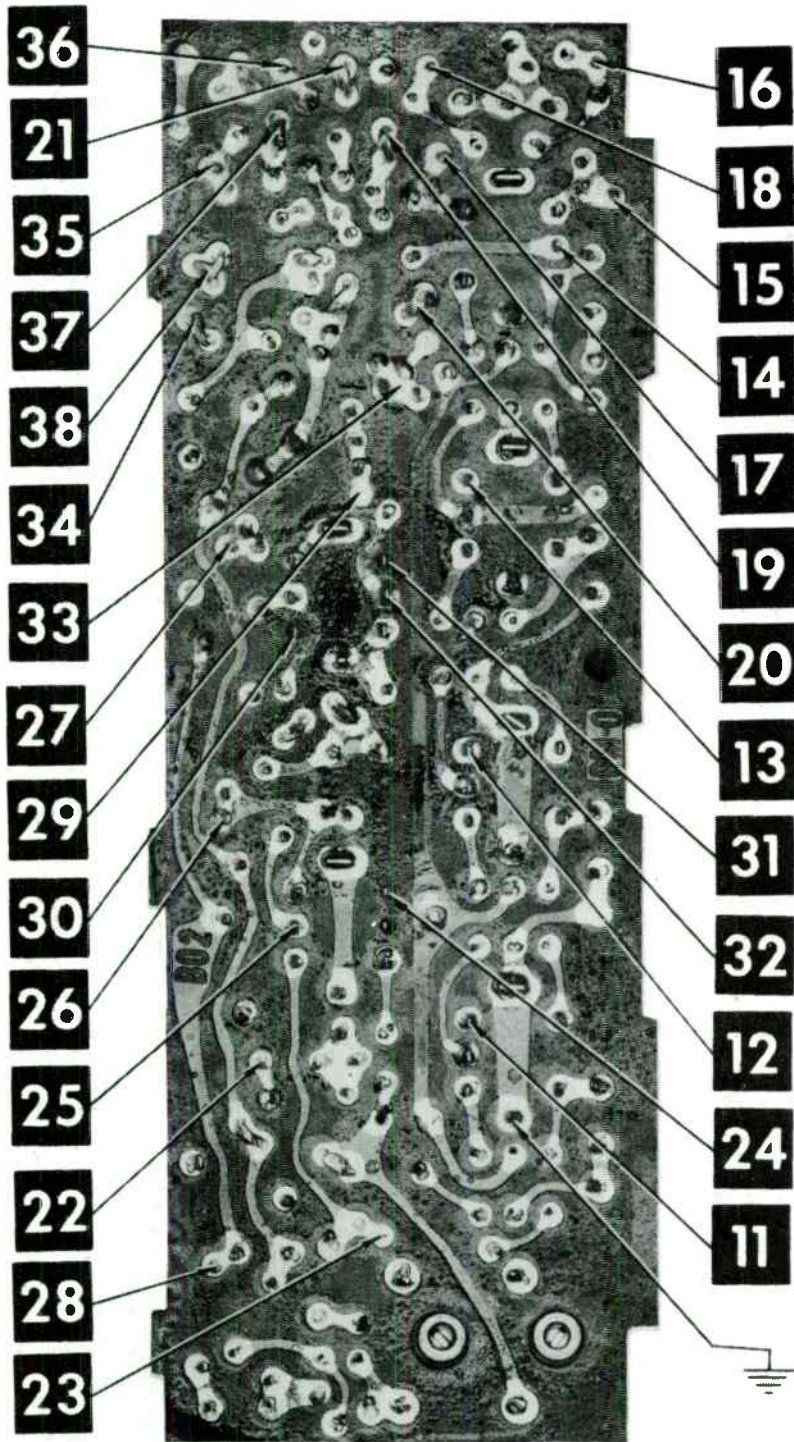
IC1
Pin 1



MAIN BOARD

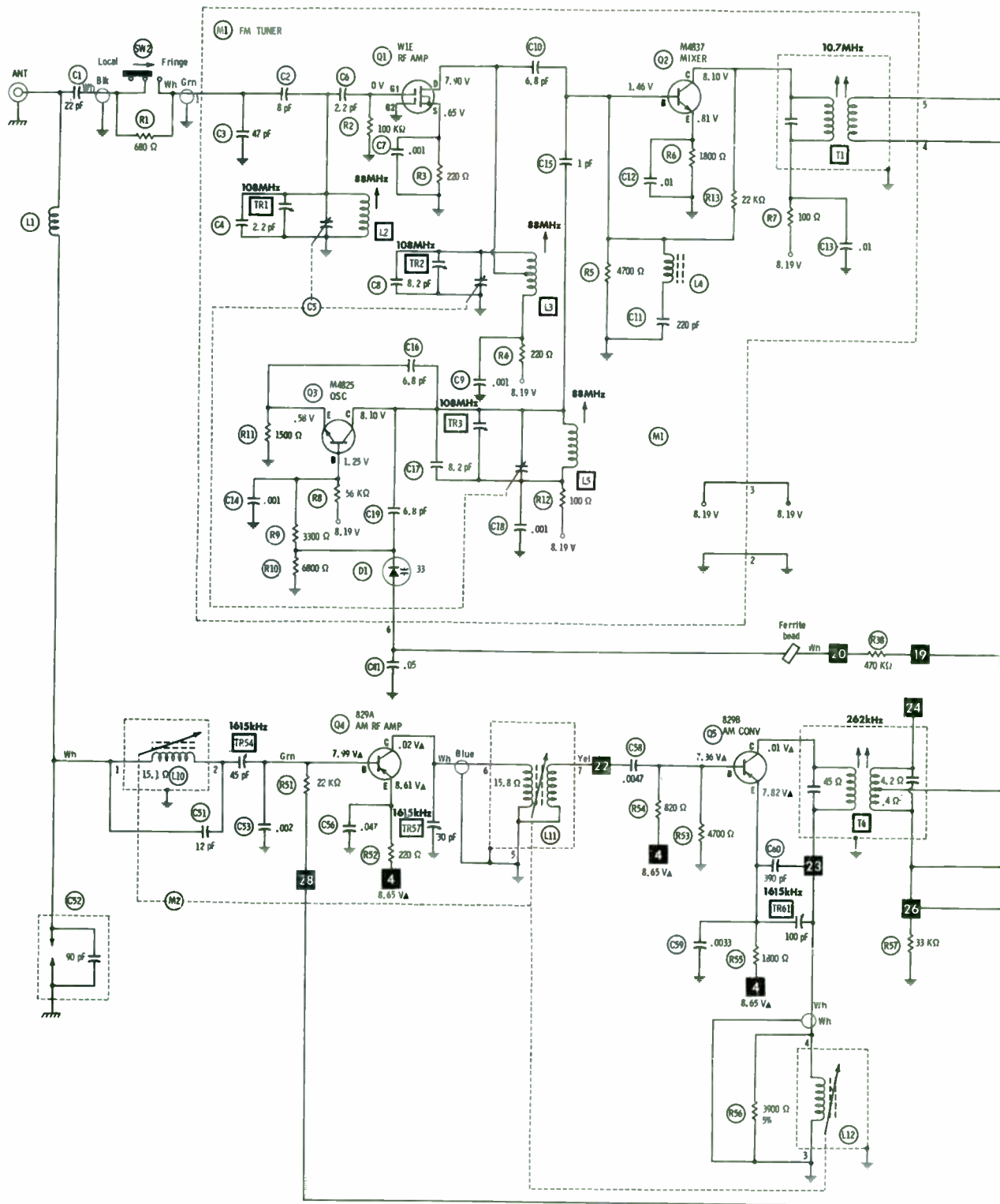


MAIN BOARD



MOTOROLA MODEL FM 152M

MAIN BOARD



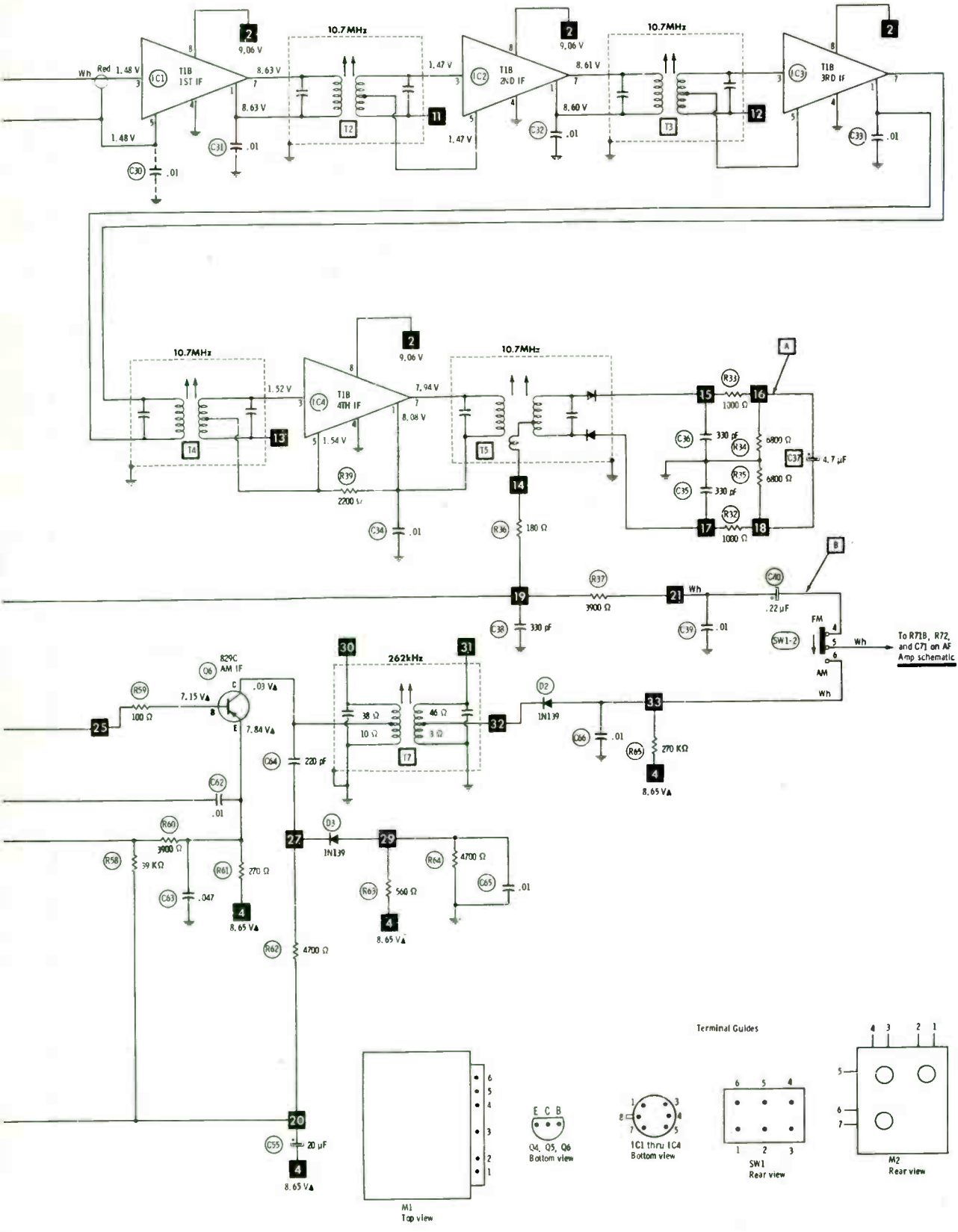
- *— Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- * Nominal value
- ⊕ Ground
- ⌚ Chassis
- ▽ Common tie point

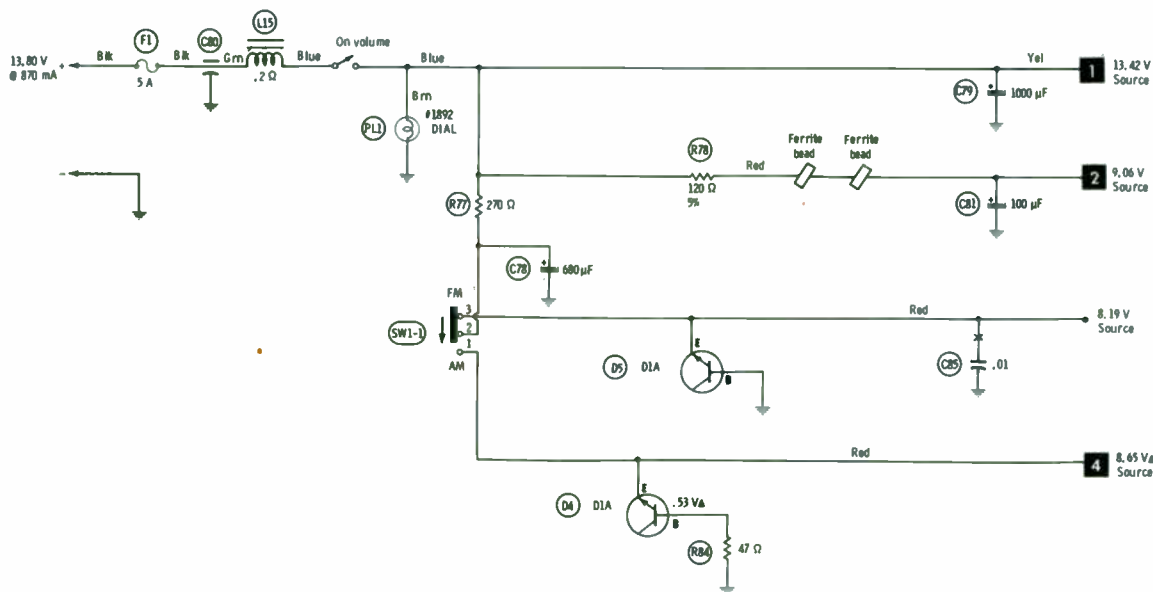
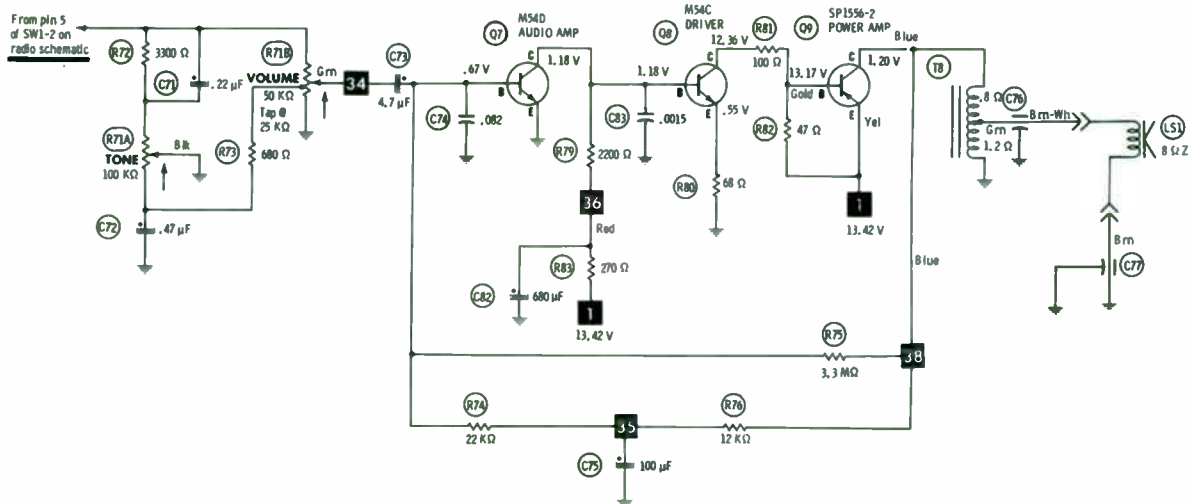
Measurements with switching as shown unless noted:
▲ AM

Supply voltage maintained as shown at input.
Voltages measured with digital meter, no signal.
Controls adjusted for normal operation.
Arrow at control indicates direction of advance.
Terminal identification may not be found on unit.
Resistors are 1/2W or less, 5% unless noted.
Value in () used in some versions.

A PHOTOFACIT STANDARD NOTATION SCHEMATIC
WITH **CIRCUITRACE**

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— Circuity not used in some versions

--- Circuity used in some versions

⊙ See parts list

⊛ Nominal value

⊕ Ground

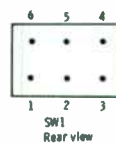
⊞ Chassis

▽ Common tie point

Measurements with switching as shown unless noted:

▲ AM

Terminal Guides



Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
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 Arrow at control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 5% unless noted.
 Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH CIRCUITRACE

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PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS[®] for the most up-to-date replacement.

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D2	1N139		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D3	1N139		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D4	D1A		GEZD-8.2		ZB8.2B		RE 112		RT-257	ECG5072
D5	D1A		GEZD-8.2		ZB8.2B		RE 112		RT-257	ECG5072
IC1	T18		GE1C-12	IC-500	PTC743	HEPC6001	RE 300-IC	SK3157	TVCM-44	ECG703A
IC2	T18		GE1C-12	IC-500	PTC743	HEPC6001	RE 300-IC	SK3157	TVCM-44	ECG703A
IC3	T18		GE1C-12	IC-500	PTC743	HEPC6001	RE 300-IC	SK3157	TVCM-44	ECG703A
IC4	T18		GE1C-12	IC-500	PTC743	HEPC6001	RE 300-IC	SK3157	TVCM-44	ECG703A
Q4	829A		GE-21	TR-30	PTC103	HEPS0019	RE 26	SK3114 *	RT-115	ECG159
Q5	829B		GE-21	TR-30	PTC103	HEPS0019	RE 26	SK3114 *	RT-115	ECG159
Q6	829C		GE-21	TR-30	PTC103	HEPS0019	RE 26	SK3114 *	RT-115	ECG159
Q7	M54D		GE-20	TR-21	PTC136	HEPS0015	RE 13	SK3124 *	RT-102	ECG123A
Q8	M54C		GE-20	TR-21	PTC136	HEPS0015	RE 13	SK3124 *	RT-102	ECG123A
Q9	SP1556-2		GE-3	TR-16	PTC138	HEPG6013	RE 7	SK3009	RT-124	ECG104

* Lead Configuration may vary from original.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C37	4.7 16V		WBRS-50	TT15X5	TVA-1144
C40	.22 35V			TDC224M050EL	SD50-R229
C55	20 25V		WBR25-25	TT25X2DA	TVA-1204.5
C71	.22 35V			TDC224M050EL	SD50-R229
C72	.47 35V			TDC474M050EL	SD50-R479
C73	4.7 16V		WBRS-50	TT15X5	TVA-1144
C75	100 3V			TDC107M010GL	SD4-1009
C78	680 16V	23C41928A43 (1)		TT25X800	TVA-1162.3
C79	1000 16V		WBR1000-16	TC1501C	TVA-1163
C81	100 16V		WBR100-16	MTA100E15	TVA-1160
C82	680 16V	23C41928A43 (1)		TT25X800	TVA-1162.3

(1) Number on unit.

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALLAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	22 5% NPO		DTZ-22	NP022	CN0422	10TCC-Q22
C31	.01		DC-103	MGP01	TA110	TG-S10
C32	.01		DC-103	MGP01	TA110	TG-S10
C33	.01		DC-103	MGP01	TA110	TG-S10
C34	.01		DC-103	MGP01	TA110	TG-S10
C35	330 10%		DD-331	GP330	GP333	10TS-T33
C36	330 10%		DD-331	GP330	GP333	10TS-T33
C38	330 10%		DD-331	GP330	GP333	10TS-T33
C39	.01		DC-103	MGP01	TA110	TG-S10
C41	.05		DC-503	MGP05	TA150	TG-S50
C51	12 5%			CD12CD120J03		MMA-120
C52	Spark Plate	21A591682 (1)				
C53	.002 10%			DPMS6D2	PVC622	6PS-D20
C56	.047		DC-503	MGP05	TA150	TG-S50
C58	.0047 10% 50V				M192P4729R8	192P4729R8
C59	.0033 10% 630V			DPMS6D33	EMF6233	6PS-D33
C60	390 5%		DTN-390			10TCU-T39
C62	.01		DC-103	MGP01	TA110	TG-S10
C63	.047		DC-503	MGP05	TA150	TG-S50
C64	220 10%		DD-221		GP322	10TS-T22
C65	.01		DC-103	MGP01	TA110	TG-S10
C66	.01		DC-103	MGP01	TA110	TG-S10
C74	.082		DC-103	WMF1S82	EMF1A182	1PB-S82
C76	Feed Thru					
C77	Feed Thru					
C80	Feed Thru					
C83	.0015 10%		DD-152		GP215	10TS-D15
C85	.01		DC-103	MGP01	TA110	TG-S10
TR1						
TR2						
TR3						
TR54	45	20864065801 (1)				
TR57	30	20C64618A03 (1)				
TR61	100					

(1) Number on unit.

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALLAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R71A B	Tone Volume/Switch	100K 50K Tap @ 25K	18C64385803-C (1)	F2-100K (12), R14-50K, FFS100, RFS107, KR-4		P15A (12), RU54DT353 (19), OX1000A, IS1437, US41	

(1) Number on unit.
(12) Use original spring mounting clips.
(19) Disregard 20K tap.

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	AM Ant Choke	(1)			
L10	AM Ant	(1)			
L11	AM RF	(1)			
L12	AM Osc	(1)			
T2	IF 10.7MHz	24D64463B01 (2)			
T3	IF 10.7MHz	24D64463B01 (2)			
T4	IF 10.7MHz	24D64463B01 (2)			
T5	IF 10.7MHz	24D64235B02 (2)			
T6	IF 262kHz	24D64282B03 (2)			
T7	IF 262kHz	24D64282B04 (2)			

- (1) Part of M2.
(2) Number on unit.

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFG. PART No.	THORDARSON PART No.	TRIAD PART No.	
L15	870mA	.2	2.5mH	25D64172A02 (1)			(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE	REPLACEMENT DATA			NOTES
		MFG. PART No.	THORDARSON PART No.	TRIAD PART No.	
T8	18 Ohms Tap @ 8 Ohms	25D64129A01 (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFG. PART No.	QUAM PART No.	
LS1	5" X 7" PM, 8 Ohms	R-1388 (1)	57A1Z8	(1) Number on unit.

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	5A			AGA5	HAF	301005	150145	

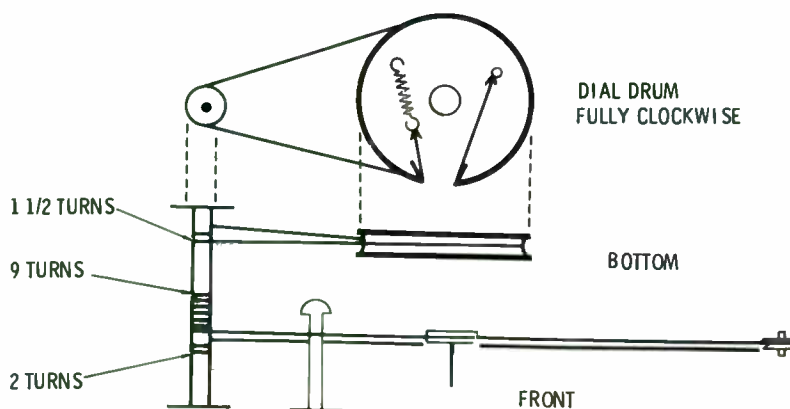
MISCELLANEOUS

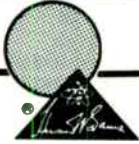
ITEM No.	PART NAME	PART No.	NOTES
M1	Tuner Assembly		FM (Complete)
M2	Tuning Coil Assembly		AM
SW1	Switch		AM/FM
SW2	Switch		Local/Fringe
	Switch		On Volume
	Printed Circuit Board		AM/FM/Audio

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELOEN No. 8530 (Solid) Available in 13 Colors 8524 (Stranded) Available in 13 Colors
Shielded Hook-up Wire	Use BELOEN No. 8401 or 8421
Rear Seat Speaker Extension Cable	Use BELOEN No. 8782 (Stranded) Coded Parallel Leads
Bonding Strap	Use BELOEN No. 8661 (3/8 In.) or 8670 (3/4 In.)

DIAL CORD STRINGING





PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

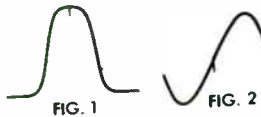


MODEL CR-1515EU

PANASONIC MODEL CR-1515EU

ALIGNMENT INSTRUCTIONS

Check for specified source voltage. Use only enough generator output to provide a usable indication. Connect low sides of generator and indicator to ground unless specified otherwise.



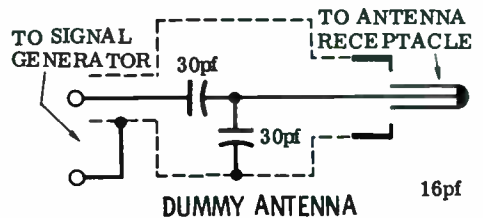
Suggested Alignment Tools: GC ELECTRONICS
 ALL 8290, 8868, 9087

PUSH-BUTTON ADJUSTMENT

1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
High side thru .1uF to ant input, low side to ground.	455kHz 400-Hz mod.	High freq. end stop.	Output meter across voice coil.	IFT102, IFT101	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz	"	"	C114, C108, C102	"
Tuner alignment is not necessary unless associated components have been disturbed. If necessary, back tuning cores out of coils but not out of forms. Repeat step 2.					
Thru dummy antenna to antenna input.	600kHz	Tune to signal	Output meter across voice coil.	L104	Adjust for maximum. Repeat alignment until no further improvement is noted.

With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust C102 for maximum output. Antenna adjustment C102 is located on front right end of dial scale.



HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

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Printed in U. S. of America

7AK984

ALIGNMENT INSTRUCTIONS (Continued)

FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to ant input.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to junction of D152 & R158.	(1) IFT151, IFT51	Adjust for maximum.
"	"	DC probe of VTVM to point TPA.	IFT152	Adjust for zero reading. A positive or negative reading will be obtained on either side of correct setting.

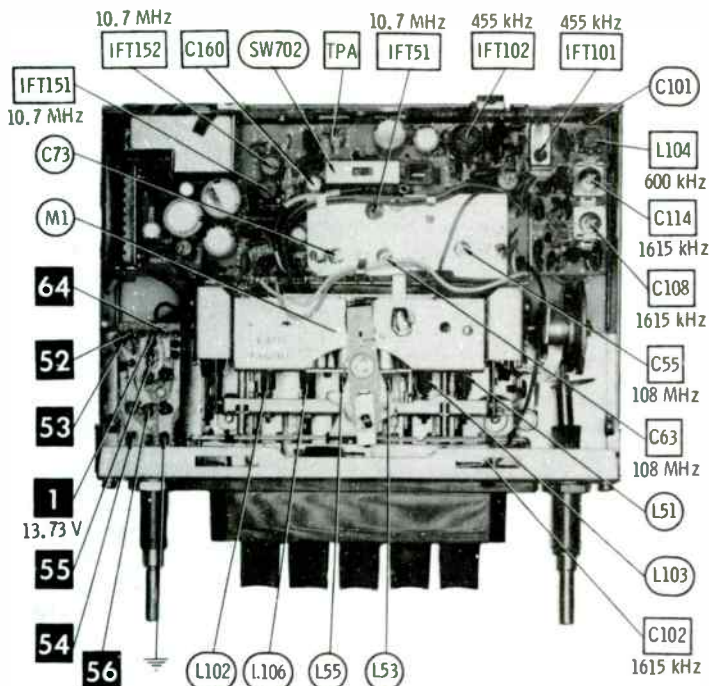
FM IF ALIGNMENT USING FM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to ant input. Use 60-hertz, frequency-modulated signal, 450kHz sweep. Use 60-hertz sawtooth voltage in scope for horizontal deflection.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz 450kHz Sweep	Point of non-interference	Vert input of scope to junction of D152 & R158.	(1) IFT151, IFT51	Disconnect stabilizing capacitor C160. Adjust for maximum gain and symmetry of response similar to Fig. 1. Reconnect C160.
"	"	Vert input of scope to point TPA.	IFT152	Adjust IFT152 for maximum amplitude and straightness of line similar to Fig. 2. Readjust IFT151.

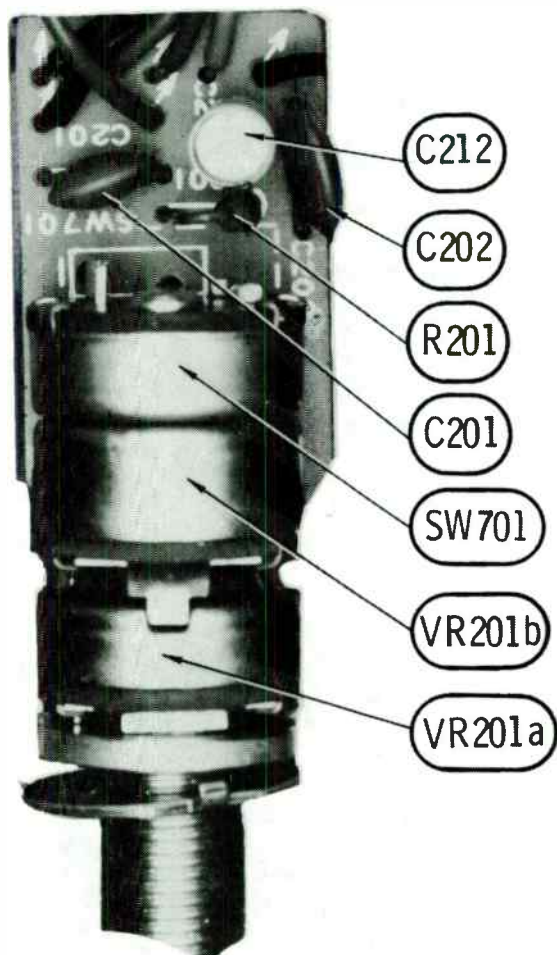
(1) Before adjusting, vary generator frequency slightly. Maximum output indicates exact IF.

FM RF ALIGNMENT—SELECTOR IN FM POSITION

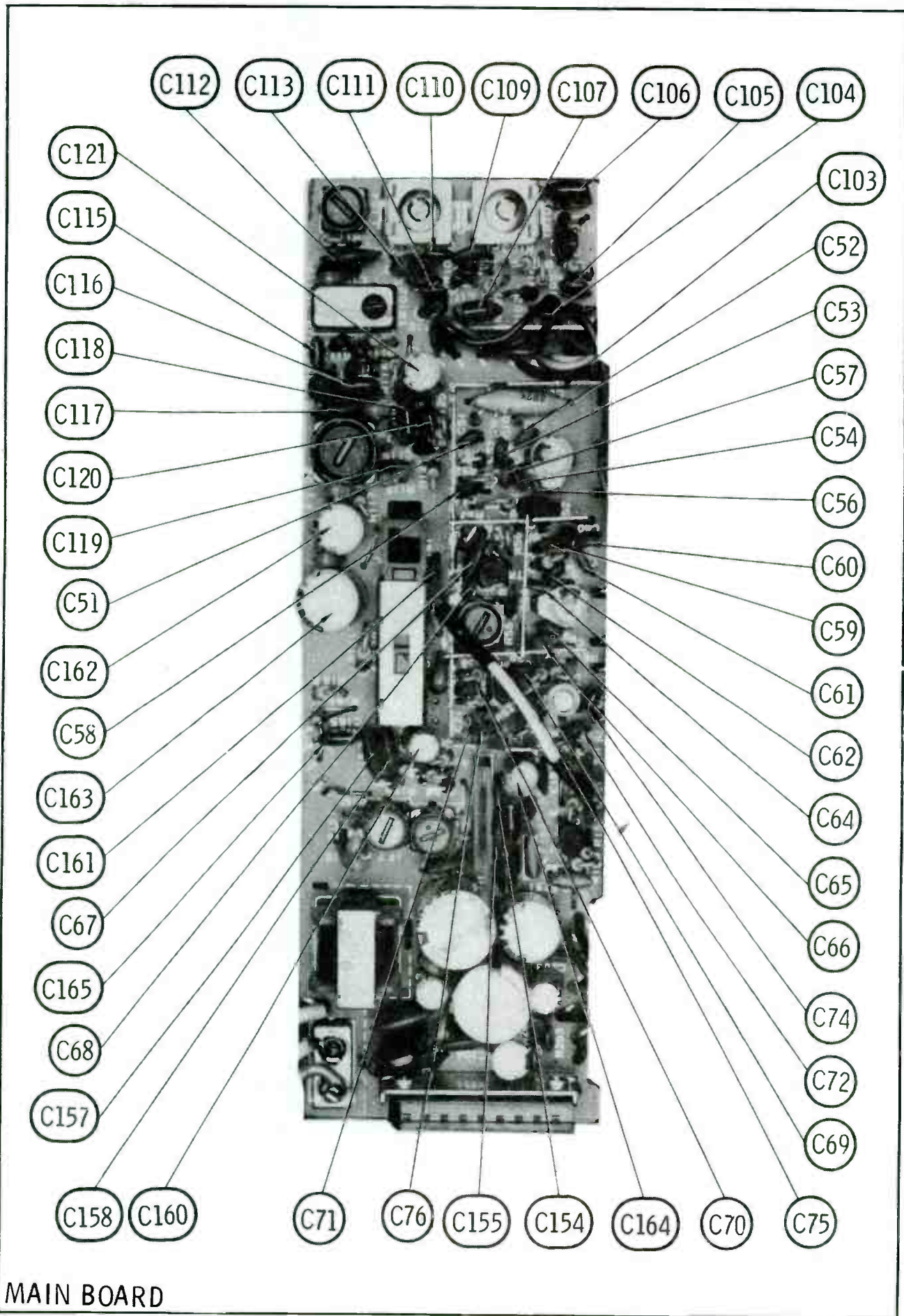
Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
108MHz Unmodulated	High freq End stop	DC probe of VTVM to junction of D152 & R158.	C73,C63,C55	Adjust for maximum.



OVERALL-BOTTOM

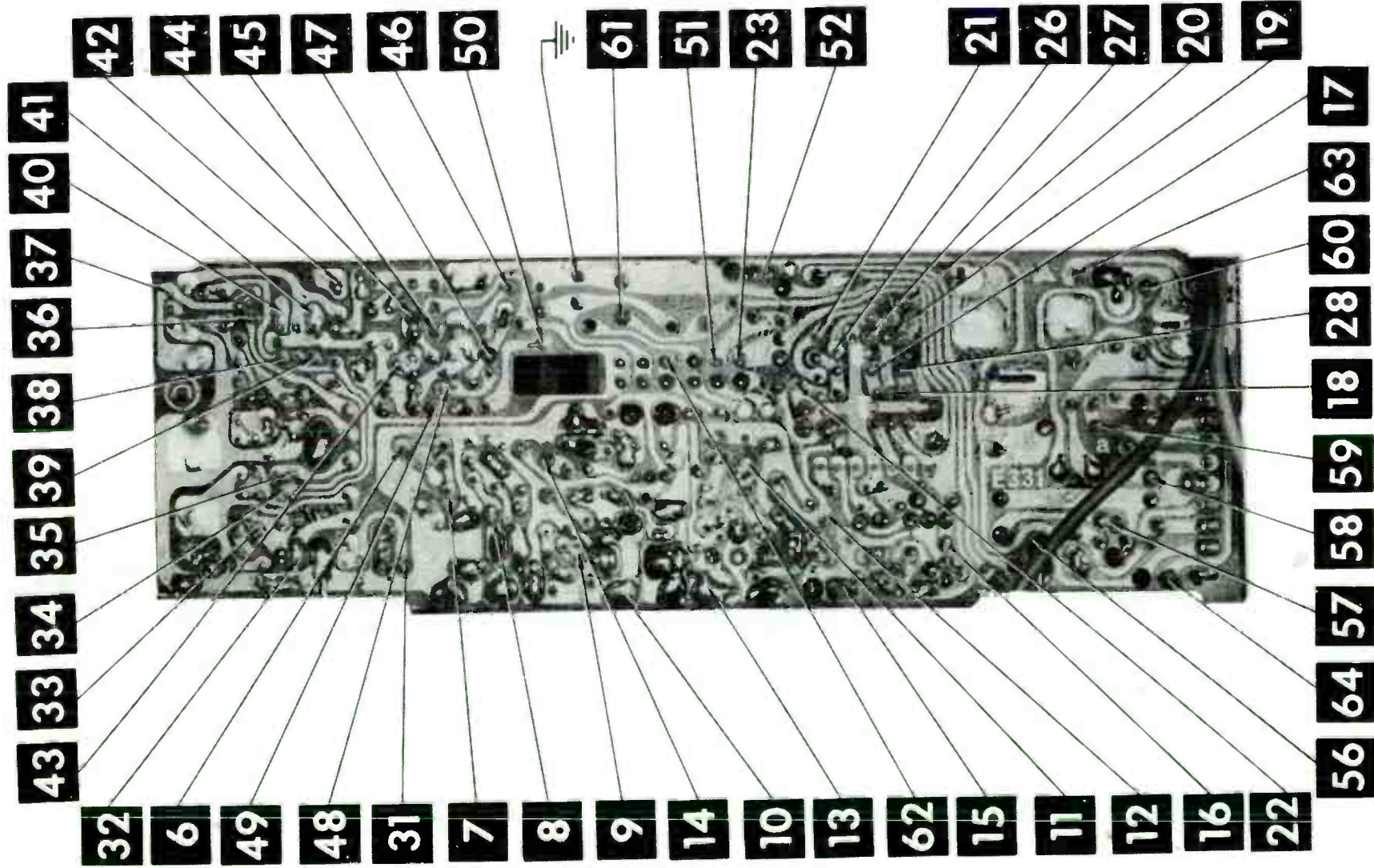


CONTROL BOARD

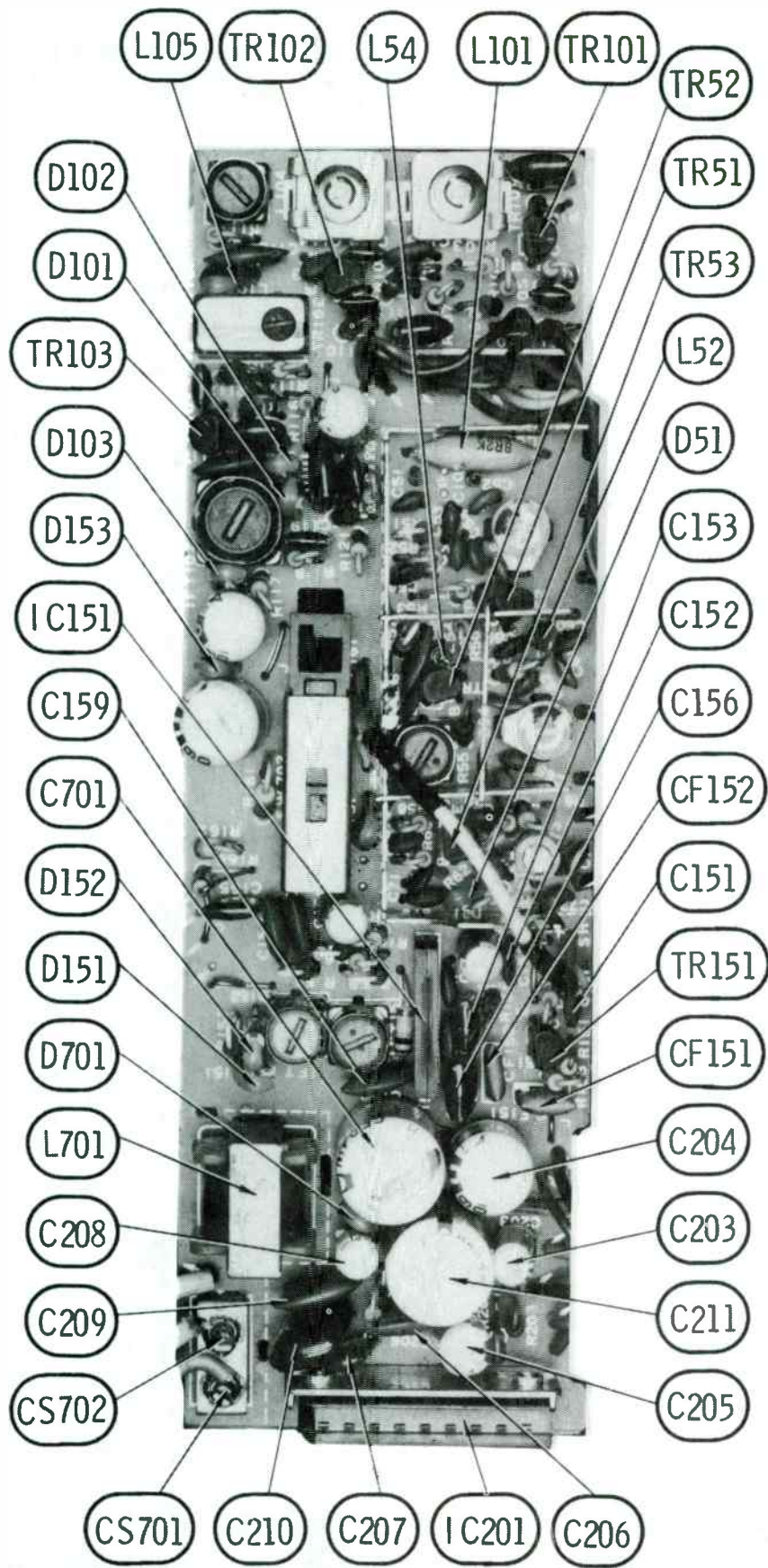


MAIN BOARD

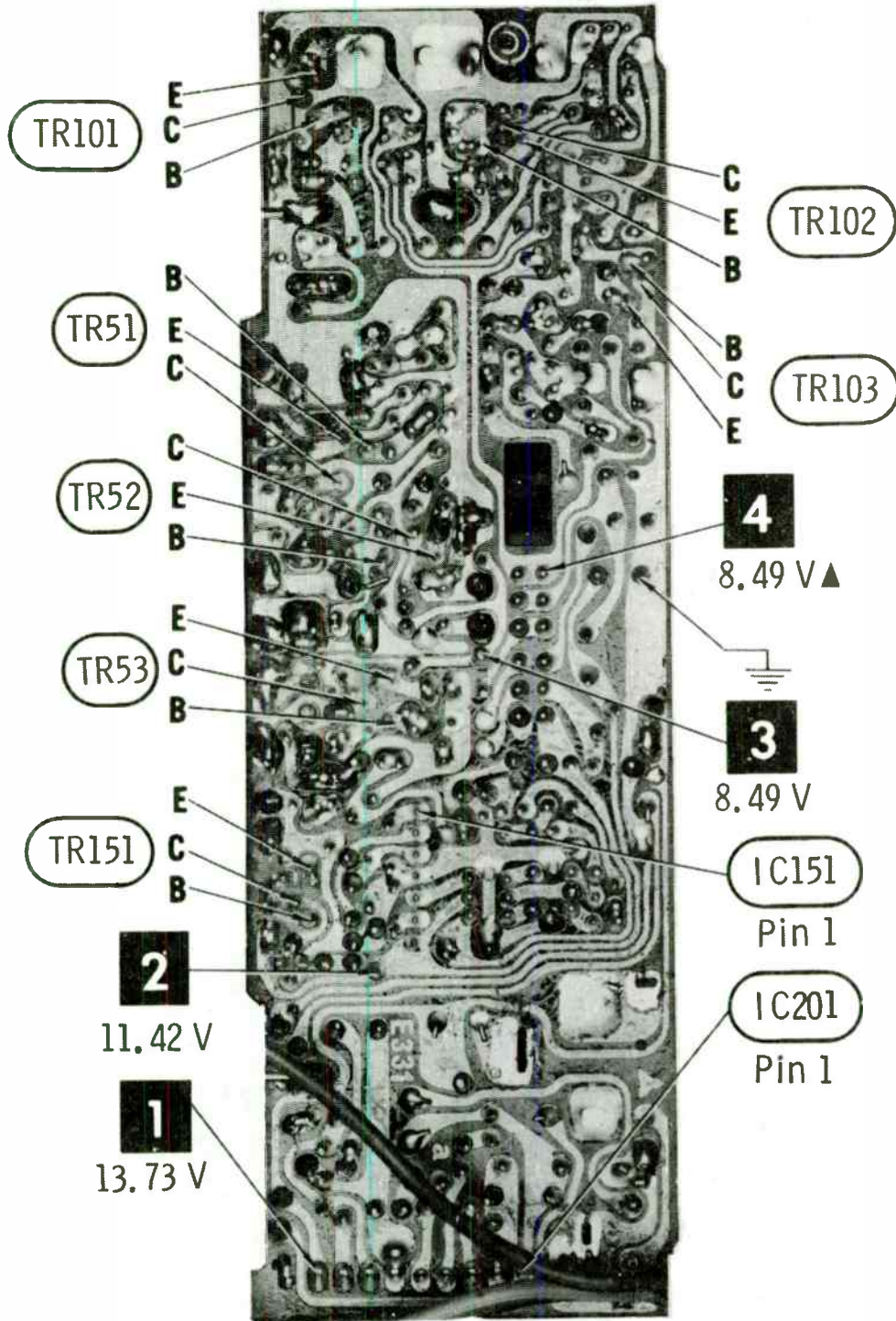
A Howard W. Sams CIRCUITRACE® Photo



MAIN BOARD

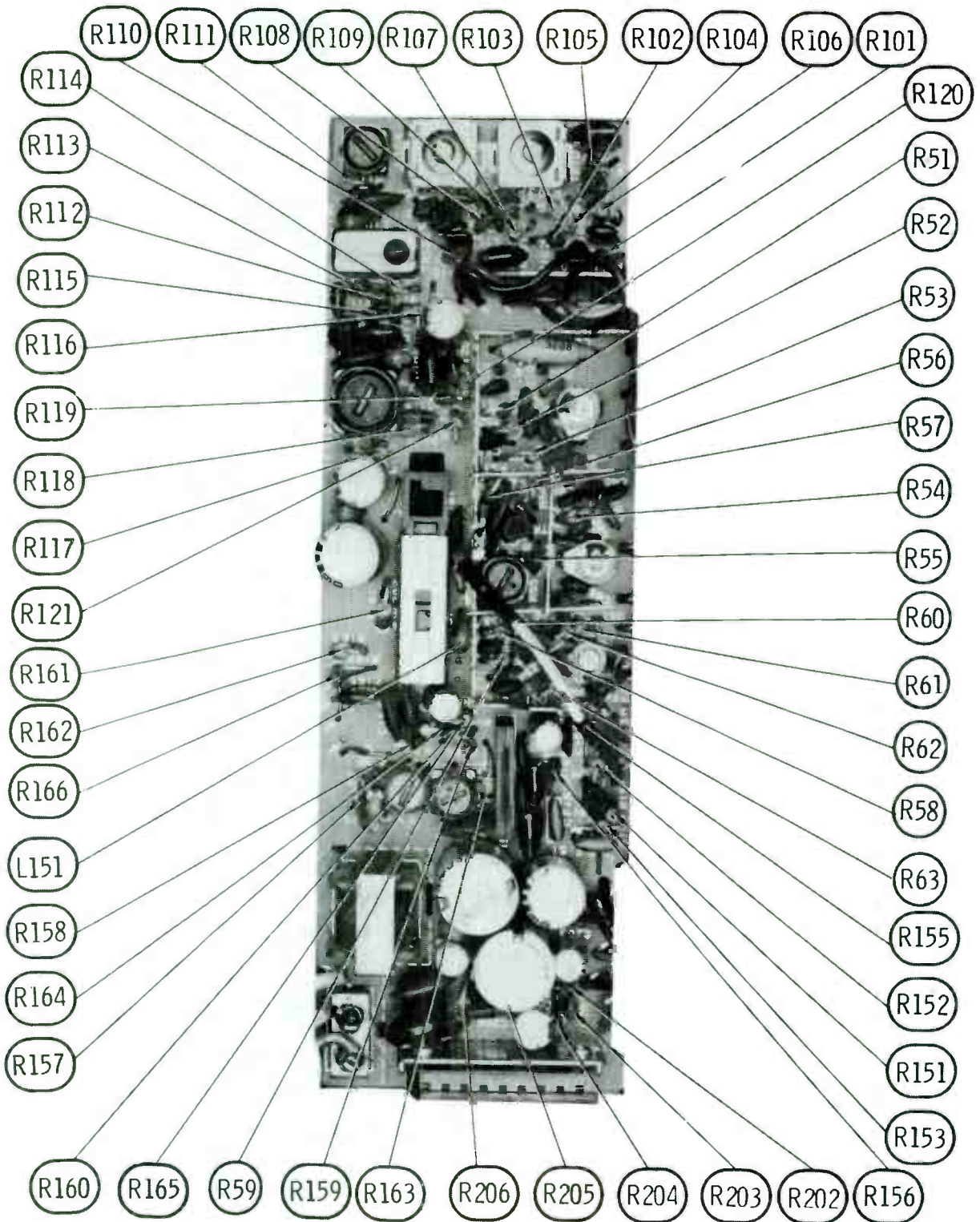


MAIN BOARD

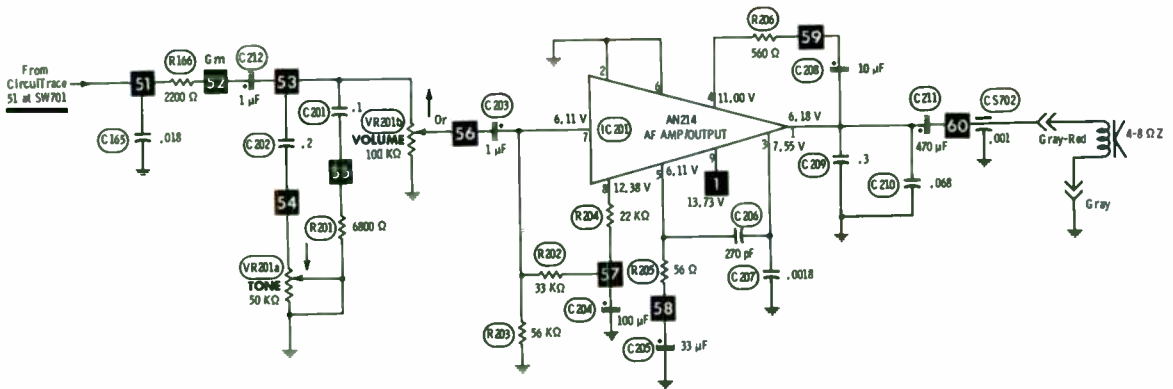
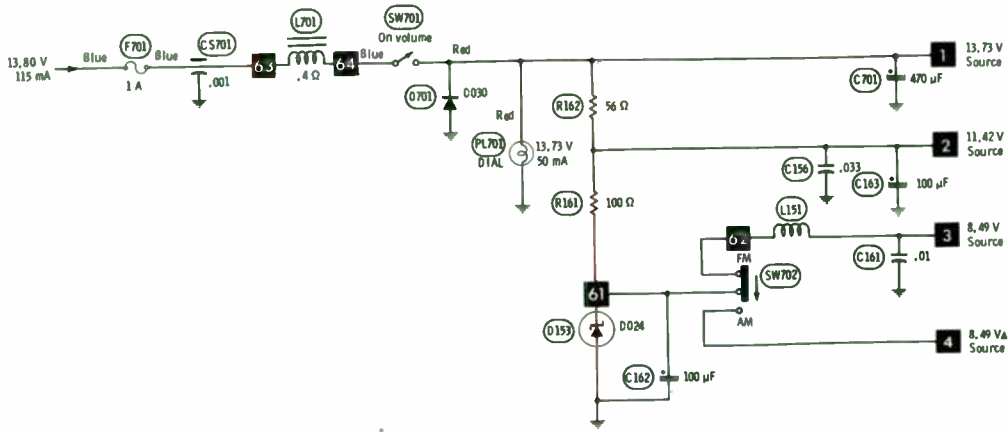


▲ AM

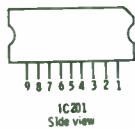
MAIN BOARD



MAIN BOARD



Terminal Guide



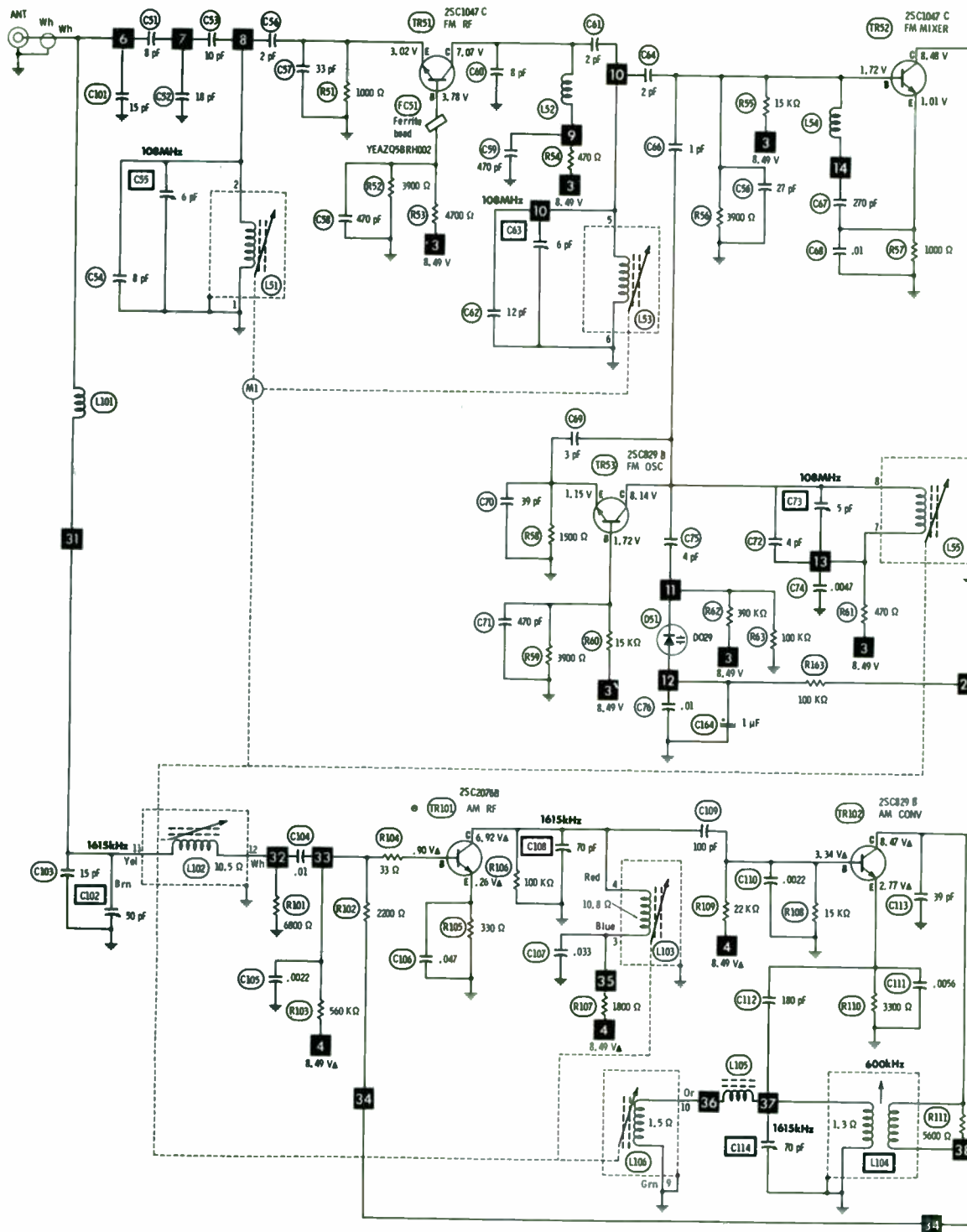
- *— Circuitry not used in some versions
- Circuitry used in some versions
- See parts list
- * Nominal value
- ⊕ Ground
- ⏏ Chassis
- ▽ Common tie point

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Voltages measured with digital meter, no signal.
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Terminal identification may not be found on unit.
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Value in () used in some versions.

A PHOTOFACIT STANDARD NOTATION SCHEMATIC
WITH CIRCUITRACE

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- Circuitry not used in some versions
- - - Circuitry used in some versions
- See parts list
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- ⊕ Ground
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WITH **CIRCUITRACE**

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D51		YEAD029	GE-90	D201		HEPR2503	RE 195	SK3126	RT-262	
D101		YAAD009	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D102		YAAD009	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D103		YAAD009	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D151		YEAD032	1N60(7)	1N60 (7)	PTC206M(6)	HEPR9135(7)	RE 86(6)	SK3088(7)	RT-263(7)	ECG110(6)
D152		YEAD032								
D153		YEAD024	GEZD-8.2	Z1208	ZB8.2A	HEPZ0411	RE 112	SK3136	RT-257	ECG5072
D701		YEAD030	GE-504A	5A4D	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116
ID151	UPC577H	YEAMUPC577H					RE 341-M			ECG1082
IC201	AN214P		GEIC-49		PTC757		RE 338-IC			ECG1058
TR51	2SC1047C		GE-60 *	(IR)2SC8298	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
TR52	2SC1047C		GE-60 *	(IR)2SC8298	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
TR53	2SC8298		GE-20 *	(IR)2SC8298	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR101	2SC20768		GE-20 *	TR-24 *	PTC121 *	HEPS0014 *	RE 10 *	SK3018 *	RT-107	ECG108 *
	2SC941	YEAN2SC941(1)	GE-210 *	(IR)2SC380A0	PTC132 *	HEPS0016 *	RE 192	SK3122	RT-107A	ECG199
TR102	2SC8298		GE-20 *	(IR)2SC8298	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR103	2SC829C		GE-20 *	(IR)2SC8298	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
TR151	2SC8298		GE-20 *	(IR)2SC8298	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *

* Lead Configuration may vary from original.

(1) Used in some versions.

(6) Matched pair.

(7) Two required - select matched pair.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA		
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C121	33 6.3V	ECEA6V33L	PC30-25	VTT33A10	EV-1125
C160	4.7 25V	ECEA25V4R7L	PC5-50	VTT47A50	EV-1319
C162	100 10V	ECEA10V100L	PC100-10	VTT100E10	EV-1130
C163	100 16V	ECEA16V100L	PC100-16	VTT100F16	EV-1230
C164	1 50V	ECEA50V1L	PC1-50	VTT1863	EV-1615
C203	1 50V	ECEA50V1L	PC1-50	VTT1863	EV-1615
C204	100 16V	ECEA16V100L	PC100-16	VTT100F16	EV-1230
C205	33 10V	ECEA10V33L	PC30-25	VTT33A10	EV-1125
C208	10 16V	ECEA16V10L	PC10-25	VTT10A25	EV-1222
C211	470 16V	ECEA16V470Z	PC500-16	VTT470J16	EV-1250
C212	1 50V	ECEA50V1L	PC1-50	VTT1863	EV-1615
C701	470 16V	ECEA16V470Z	PC500-16	VTT470J16	EV-1250

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALLAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C51	8	YECC01H0800M		CD15CD080003		MWA-080
C52	18	YECCD1H180KM		CD15CD180J03		MWA-180
C53	10 N330	YECCD1H100JS			*	10TCS-Q10
C54	8 N330	YECCD1H080DS			*	10TCS-Q10
C55	6	ECV1ZW06X32				10TCS-V82
C56	2	YECCD1H020CM				
C57	33			CD15ED330J03	SX433	MWA-330
C58	470	YECKD05471K	DD-471	GP470	GP347	10TS-T47
C59	470	YECKD05471K	DD-471	GP470	GP347	10TS-T47
C60	8	YECCD1H080DM		CD15CD080003		MWA-080
C61	2	YECCD1H020CM				
C62	12 N750				CN7412	10TCU-Q12
C63	6	ECV1ZW06X32				
C64	2	YECCD1H020CM				
C65	27			CD15ED270J03	SX427	MWA-270
C66	1			CD15CD010D03		MWA-010
C67	270 5%			CD15FD271J03		MWB-271
C68	.01	YECCD05103Z	UK50-103		SX327	
C69	3 N750	YECCD1H030DU			MAG5011	
C70	39	YECCD1H390KM			CN7533	
C71	470	YECCD05471K	DD-471	CD15ED390J03	SX439	MWA-390
C72	4 N750	YECCD1H040DU		GP470	GP347	10TS-T47
C73	5	YECCD1H040DU			CN7547	10TCU-V47
C74	.0047	YECTTA1397				
C75	4 N750	YECQNH472K			M192P4729R8	192P4729R8
C76	.01	YECQNH472K	UK50-103		CN7547	10TCU-V47
C101	15	YECQD05103Z			MAG5011	
C102	50	YECCD1H150KM		CD15CD150J03		MWA-150
C103	15	ECV1ZW50X40				
C104	.01	YECCD1H150KM		CD15CD150J03		MWA-150
C105	.0022	YECQNH222K		WMF1S1	EWF1A110	1PB-S10
C106	.047	YECQNH473M			M192P2229R8	192P2229R8
C107	.033	YECQNH333M			EWF1A147	1PB-S47
C108	70	YECCD1H333M			M192P3339R8	192P3339R8
C109	100	YECCD1H100KM	DD-101	GP100		10TS-T1C

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C110	.0022	YECQNH222K			M192P2229R8	192P2229R8
C111	.0056	YECQNH562K			M192P5629R8	192P5629R8
C112	180 N330 5%	YECCD1H181JS			*	10TCS-T18
C113	39	YECQD1H390KM		CU15ED390J03	SX439	MWA-390
C114	70	YECTTC105700				
C115	.01			WMF1S1	EFW1A110	1PB-S10
C116	.047	YECQNH473M	DD-331	GP330	EFW1A147	1PB-S47
C117	330 10%				GP333	10TS-T33
C118	.047	YECQNH473M			EFW1A147	1PB-S47
C119	.01			WMF1S1	EFW1A110	1PB-S10
C120	.01			WMF1S1	EFW1A110	1PB-S10
C151	.01	YECKD05103Z	UK50-103		MAG5011	
C152	.01	YECKD05103Z	UK50-103		MAG5011	
C153	.022	YECQNH223M			M192P2239R8	192P2239R8
C154	.01	YECKD05103Z	UK50-103		MAG5011	
C155	.01	YECKD05103Z	UK50-103		MAG5011	
C156	.033	YECQNH333M			M192P3339R8	192P3339R8
C157	330 10%		DD-331	GP330	GP333	10TS-T33
C158	330 10%		DD-331	GP330	GP333	10TS-T33
C159	330 10%		DD-331	GP330	GP333	10TS-T33
C161	.01	YECKD05103Z	UK50-103		MAG5011	
C165	.018	YECQNH183M			M192P1839R8	192P1839R8
C201	.1 12V		UK12-104		MAG1201	HY-360
C202	.2 12V	YECCD12204M	UK16-204			HY-470
C206	270 5%		DD-271	GP270	GP327	10TS-T27
C207	.0018		DU-182	GP1800	GP218	5GA-D18
C209	.3 12V	YECCD12304M			MAG12033	HY-375
C210	.068			WMF1S68	EFW1A168	1PB-S68
CS701	.001	YECCL510288				
CS702	.001	YECCL510288				

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

PANASONIC MODEL CR-1515EU

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
VR201a b	Tone Volume/Power Switch	50K 100K	EWK8ACS35746				

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
I1F51	IF (10.7MHz)	YE1F07S7G49			(1) Part of M1, Tuner Assembly.
I1F101	IF (455kHz)	YE1C07D2004A			
I1F102	IF (455kHz)	YE1A10S7086			
I1F151	IF (10.7MHz)	YE1F07S7C48			
I1F152	IF (10.7MHz)	YE1F07S7C47			
L51	FM Ant.	(1)			
L52	Image Trap	YELT06C003			
L53	FM RF	(1)			
L54	10.7MHz Trap	YELT03C011			
L55	FM Osc.	(1)			
L101	AM Ant. Choke	YELQ05C040			
L102	AM Ant.	(1)			
L103	AM RF	(1)			
L104	AM Osc.	YELLO7S069			
L105	Image Trap	YELT06C003			
L106	AM Osc. Tuning	(1)			
L151	RF Choke	YELT06C007			

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS® for the most up-to-date replacement.

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFRG. PART No.	THORDARSON PART No.	TRIAD PART No.	
L701	115mA	.4	2mH	YETQ020F012			

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	1A	X881F10NR1	YEAJ01119 (Male) A-Lead YEAJ01118 (Female) A-Lead	AGC1	HDJ	312001	150145	FG1-2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF151	Ceramic Filter	YEIN09N5004 (1)	SFE 10.7MA (Red Dot)
CF152	Ceramic Filter	YEIN09N5004 (1)	SFE 10.7MA (Red Dot)
M1	Tuner Assembly	YEAU05177	AM/FM
SW701	Switch		On Volume
SW702	Switch	YEAS07028	AM/FM Select

(1) When replacing, CF151 and CF152 should also be replaced.

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Escutcheon Assembly	YEF02211	Pushbutton, FM (3 used)	YEFE10159
Dial Scale	YEFJ08290	Knob, Tone/Dummy	YEFE08024
Pointer, Dial	YEFH01131	Knob, Tuning/Volume	YEFE01016
Pushbutton, AM (2 used)	YEF010158		

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 13 Colors 8524 (Stranded) Available in 13 Colors
Shielded Hook-up Wire	Use BELDEN No. 8401 or 8421
Rear Seat Speaker Extension Cable	Use BELDEN No. 8782 (Stranded) Coded Parallel Leads
Bonding Strap	Use BELDEN No. 8661 (3/8 In.) or 8670 (3/4 In.)

INDEX

Listing all models/chassis covered in
PHOTOFACT AR (Auto Radio) Series volumes

Abbreviations used: (EP) Early Production (LP) Late Production (SN) Serial Number (Rev) Revised (PCB) Production Change Bulletin

AFCO		VOL.		ALLIS CHALMERS		VOL.		AMERICAN MOTORS		VOL.		AMERICAN MOTORS		VOL.		ATR KARADIO		VOL.		AUDIOVOX (CONT.)		VOL.			
AFX-810	216	OBTAC 70	80	1RA1226 72	155	1RA1301 73	166	1RA1301 73	166	1RA1301 73	166	1RA1301 73	166	1RA1301 73	166	1RA1301 73	166	BKS410 61-62 Buick	27	C-506B	227	C-510	92		
AG-52	222	1BTAC	112	1RA1508 75	212	1RA2007 69-70	84	1RA2007 69-70	84	1RA2007 69-70	84	1RA2007 69-70	84	1RA2007 69-70	84	1RA2007 69-70	84	COT416 60-62 Merc.	27	C-520	94	C-520C	138	C-540	126
SC-700	224	7BT 249523	44	1RA2111 72	131	1RA2315 74	171	1RA2315 74	171	1RA2315 74	171	1RA2315 74	171	1RA2315 74	171	1RA2315 74	171	CR414 60-62 Chev.	27	C-560	138	C-560	138	C-560	138
1D-300AFX	195	78TX	50	1RA2404 75	200	1RA2413 74	168	1RA2413 74	168	1RA2413 74	168	1RA2413 74	168	1RA2413 74	168	1RA2413 74	168	DED418 62 Dodge	27	C-580	138	C-580	138	C-580	138
ID-400PB	221			1RA2511	219	1RA2511	219	1RA2511	219	1RA2511	219	1RA2511	219	1RA2511	219	1RA2511	219	FD422 60-62 Ford	27	C-580	138	C-580	138	C-580	138
1DC-600AFX	220			1RA4404 74	171	1RA4508 75	212	1RA4508 75	212	1RA4508 75	212	1RA4508 75	212	1RA4508 75	212	1RA4508 75	212	LR424 62 Dodge	27	C-580	138	C-580	138	C-580	138
1DC-650AE	231			1RA4508 75	212	1RA4518	217	1RA4518	217	1RA4518	217	1RA4518	217	1RA4518	217	1RA4518	217	MEF428 61-62 Olds.	27	C-580	138	C-580	138	C-580	138
SB-480	223			1RA5002 (70)	87	1RA5002 (70)	87	1RA5002 (70)	87	1RA5002 (70)	87	1RA5002 (70)	87	1RA5002 (70)	87	1RA5002 (70)	87	PCT432 61-62 Pont.	27	C-580	138	C-580	138	C-580	138
SCX-900	226			1RB1002 70	86	1RB1002 70	86	1RB1002 70	86	1RB1002 70	86	1RB1002 70	86	1RB1002 70	86	1RB1002 70	86	PH430 62 Ply.	27	C-580	138	C-580	138	C-580	138
SK-301SB	227			2AM1606 76	229	2AM1606 76	229	2AM1606 76	229	2AM1606 76	229	2AM1606 76	229	2AM1606 76	229	2AM1606 76	229	TR720N	29	C-580	138	C-580	138	C-580	138
				2AM1607 76	229	2AM1607 76	229	2AM1607 76	229	2AM1607 76	229	2AM1607 76	229	2AM1607 76	229	2AM1607 76	229	TR1279-6V	11	C-580	138	C-580	138	C-580	138
				2HT1244 72	133	2HT1244 72	133	2HT1244 72	133	2HT1244 72	133	2HT1244 72	133	2HT1244 72	133	2HT1244 72	133	TR1279-12V	11	C-580	138	C-580	138	C-580	138
				2HT1303 73	166	2HT1303 73	166	2HT1303 73	166	2HT1303 73	166	2HT1303 73	166	2HT1303 73	166	2HT1303 73	166	TT-727 Tractor	29	C-580	138	C-580	138	C-580	138
				2HT1409, 2HT1413,	167	2HT1409, 2HT1413,	167	2HT1409, 2HT1413,	167	2HT1409, 2HT1413,	167	2HT1409, 2HT1413,	167	2HT1409, 2HT1413,	167	2HT1409, 2HT1413,	167	VT434 62 Ply.	27	C-580	138	C-580	138	C-580	138
				2HT1432 74	167	2HT1432 74	167	2HT1432 74	167	2HT1432 74	167	2HT1432 74	167	2HT1432 74	167	2HT1432 74	167	401	27	C-580	138	C-580	138	C-580	138
				2HT1509 75	212	2HT1509 75	212	2HT1509 75	212	2HT1509 75	212	2HT1509 75	212	2HT1509 75	212	2HT1509 75	212	606	19	C-580	138	C-580	138	C-580	138
				2HT1510 75	212	2HT1510 75	212	2HT1510 75	212	2HT1510 75	212	2HT1510 75	212	2HT1510 75	212	2HT1510 75	212	612	19	C-580	138	C-580	138	C-580	138
				2JAI001 70	82	2JAI001 70	82	2JAI001 70	82	2JAI001 70	82	2JAI001 70	82	2JAI001 70	82	2JAI001 70	82	707	22	C-580	138	C-580	138	C-580	138
				2JAI228 72	133	2JAI228 72	133	2JAI228 72	133	2JAI228 72	133	2JAI228 72	133	2JAI228 72	133	2JAI228 72	133	1279-6V	11	C-580	138	C-580	138	C-580	138
				2JAI304, 2JAI305 73	166	2JAI304, 2JAI305 73	166	2JAI304, 2JAI305 73	166	2JAI304, 2JAI305 73	166	2JAI304, 2JAI305 73	166	2JAI304, 2JAI305 73	166	2JAI304, 2JAI305 73	166	1279-12V	11	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	AUDI		C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	1AU1121 71	118	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	1AU2121 71	130	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	1AU2125 71	156	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	1AU2240 72	157	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	1VM1327 (Sapphire XVIII)	73	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	73	155	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	1VM1419 (Sapphire XVIII) 74	192	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	1VM2323 (Sapphire XIX)	73	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	73	154	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	1VM2335 73	181	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	1VM2427 74	199	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	1VM3401 74	193	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	1VM4112 (Sapphire XVII) 71	124	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	1VM4309 (Sapphire XXI)	179	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	74	201	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	1VM4419 (Sapphire XXI)	191	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	74 Fox	191	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2VM1327 (Sapphire XVIII)	73	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	73	155	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	5VM1327 (Sapphire XVIII)	73	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	73	155	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	5VM1419 (Sapphire XVIII) 74	192	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	74	191	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	74	191	C-580	138	C-580	138	C-580	138
				2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI400 74	167	2JAI40													

AUTOMATIC (CONT.)	VOL.	AUTOMATIC (CONT.)	VOL.	AUTOMATIC (CONT.)	VOL.	AUTOMATIC (CONT.)	VOL.	BENDIX (CONT.)	VOL.	BOMAN ASTROSONIX	VOL.
MNE-6725	68	P-5040 65 Pont.	29	SPK-2258 72 Buick	131	UFM-3089	22	2B100AM,2B101AM 72 VM	131	(Cont.)	
MNE-6725A	123	PA-74R	20	SFK-3279 73 Buick	169	UFM-6305	59	2B200FM, 2B201FM	133	Century 20 (CT-20)	185
MNI-1410	123	PA-85	30	SK-3097 73 Buick	159	UFP-3098	22	2B300MPX, 2B301MPX	133	Century 21 (CT-21)	186
MP-69	6	PA-3065 63 Ply.	26	SP-1 58-59 Simca	11	UN-40	12	2BC R2BC 62 Chev.	19	CR-500	109
MP-126	6	PA-3285	23	SPA-209 58-59 Simca	11	UP-2064P (Sim. to Pg.5)	159	2BCT R2BCT 62 Chev.	19	CR-820	109
MPO-3820(MPO-3820B)		PAC-90 60 Pont.	23	SPA-3072 63 Buick	23	UP-2064T (Sim. to Pg.45)	160	3B200FM, 3B201FM	133	CR-8200	124
71-73 Ford	163	PAC-3067 63 Pont.	14	SPA-4527 64 Buick	28	UP-2064T (Sim. to Pg.45)	160	3B300MPX, 3B301MPX	133	CR-2200	204
MPT-3716 73 Merc.	171	PAC-4529 64 Pont.	28	SPB-5008 Sprite	141	UP-2222	60	3BCH 63 Chev.	21	CP-5000	176
MP-47C 57 Merc.	12	PAP-4340	25	SPB-5001B Rover	141	UPX-4252	225	3BCT 63 Chev.	21	SP-80	185
MT-419 59 Merc.(EP)	11	PAP-69 59 Ply.	15	SPE-5002B Boss	152	UST-6219	86	4TBCC 64 Chev.	32	SP-88 (Sport 88)	143
MT-419 59-60 Merc.(LP)	14	PAP-80 60 Ply.	15	SPO-5003B Opus	150	VAL-4088 74 Ply.	159	4TBCC 64 Chev.	32	SP-90	116
MT-530 59-60 Merc.	14	PAC-3066 63 Ply.	22	SPE-5004B Grand Boss	158	VAX-4443	170	4TBCH 64 Chev.	32	SP-190	137
MT-3023 63 Merc.	23	PC-350 60 Olds.	14	SPFS005B Stock 105	147	VBF-4229 74 VN	172	4TBCT 64 Chev.	32	Sport 91 (SP-91)	169
MT-3051 73 Merc.	159	PC-361AT 61 Pont.	16	SPK-3735 73 Buick	171	VBL-4088 74 VN(Pg.5)	159	5BCC 65 Chev.	31	Sport 92	165
MT-4061 64 Merc.	27	PC-3027 63 Pont.	23	SSS-2595	143	VBX-4416 74 VN	174	5BCH 65 Chev.	31	VW305-PM (Sim.to Pg.5)	142
MT-5073 65 Merc.	29	PC-3030A 71-73 Pont.	159	SST-1179	145	VEE-4505 74 Chev.	168	5BCL 65 Chev.	31	VW-405-FM VW	144
MTR-602AT 62 Merc.	24	PC-4029 64 Pont.	28	SXK-3471 73 Buick	167	VEF-4297 74 Chev.	169	5BCT 65 Chev.	32	VW-72-FM VW	128
MTR-3824 73 Ford	163	PC-5041 65 Pont.	29	SXK-3673 73 Buick	165	VEL-4004 74 Chev.	159	5BCL 65 Chev.	32	150-M	115
MU-34	6	PC-7165 67 Pont.	62	TAC-3073 63 Olds.	22	(Pg.5)	159	6BCC 66 Chev.	38	300-PB	118
MUE-4547 74 Ford	168	PEO-3519 73 Ford	168	TAC-3051 63 Chev.	22	VEP-4706 74 Chev.	171	6BCH 66 Chev.	38	305-PB	142
MUF-4281 74 Ford	169	PFM-1434 71 Pont.	131	TAC-4541 64 Chev.	37	VEX-4457 74 Chev.	170	6BCL 66 Chev.	38	400-FM	112
MUL-4046 74 Ford	159	PFM-2408 71-72 Pont.	131	TAC-5514N 65 Chev.	37	VFA-1847 71 Chev.	131	6BCT 66 Chev.	38	402-FM	222
MUM-4832 74 Ford		PFM-3092A 63 Pont.	22	TAP-3074 63 Olds.	23	VFA-2204 71-72 Chev.	131	7BCC 67 Chev.	45	405-FM(Pg.5)	149
(Pg.5)	163	PFM-3094 63 Ply.	22	TAP-4526 64 Olds.	28	VFA-3297 71-73 Chev.	169	7BCT 67 Chev.	45	600-MPX	113
MUS-5059 65 Ford	29	PFM-3295 73 Pont.	169	TAX-4542 64 Chev.	28	VFA-3297 71-73 Chev.	169	7BCT 67 Chev.	45	602-MPX	163
MUS-5059N 65 Ford	36	PFM-6257 66 Pont.	169	TAX-5513N 65 Chev.	37	VFA-3297 71-73 Chev.	169	7BCT 67 Chev.	45	605-MPX	188
MUS-7209 67 Ford	60	PFM-5109 65 Ply.	30	TAX-3035 63 Olds.	23	VGA-3004 71 Volvo	172	7BCT 67 Chev.	45	602-MPX	163
MUX-4453 74 Ford	170	PEX-5109N 65 Ply.	35	TCM-3011 63 Chev.	22	VOX-4428 74 Volvo	174	7BCT 67 Chev.	45	605-MPX	188
MVB-4521 74 Ford		PFM-7105 67 Ply.	62	TCM-4041 Chev.	28	VP-12	12	7BCH 67 Chev.	45	602-MPX	163
MVC-4521 74 Ford	168	PRC-8206 68 Ply.	62	TCM-5014 65 Chev.	29	VP-6228 58-67 VN	74	7BCH 67 Chev.	45	605-MPX	188
MWF-4284 74 Ford	169	PIE-4519 74 Ford	168	TCM-5014N 65 Chev.	37	VPA-280 60 Ply.	89	7BCH 67 Chev.	45	602-MPX	163
MVL-4028 74 Merc.	159	PIF-4286 (Pg.21)	169	TCX-5014N 65 Chev.	37	VPA-3076 63 Ply.	22	7BCH 67 Chev.	45	605-MPX	188
MVM-4822 74 Ford(Pg.5)	163	PIL-4054 (Pg.21)	159	TCX-3019(TCX-3049A)	73 Chev.	VPA-3076 63 Ply.	22	7BCH 67 Chev.	45	602-MPX	163
MX-4493 74 Ford	170	PIM-4820 74 Ford		TCX-4042 64 Chev.	28	VSC-6767 67 VN	70	7BCH 67 Chev.	45	605-MPX	188
MXD-3453 73 Ford		PIX-4720 74 Ford	173	TCX-5013 65 Chev.	29	VSF-4233 74 VN	172	7BCH 67 Chev.	45	2000-MPX	179
Merc.	167	PIX-4425 74 Ford	170	TCX-5013N 65 Chev.	37	VSX-4420 74 VN	174	7BCH 67 Chev.	45		
MKR-8404	125	PM-236 53 Ply.	5	TDC-2211 70-72 Pont.	131	VTP-5108 65 Ply.	30	7BCH 67 Chev.	45		
MKT-3479 73 Merc.	167	PNF-1898 71 Ford	131	TDO-4730 74 Olds.	171	VTP-440 60 Ply.	15	7BCH 67 Chev.	45		
MKT-3479 73 Merc.	170	PNF-2235 71-72 Ford	131	TDP-4278 (Pg.21)	169	VTP-3058 63 Ply.	22	7BCH 67 Chev.	45		
MKT-3648 73 Merc.	165	PNF-3358 (FAC-1303)	175	TDQ-1257 64-69 Dodge	64	VTP-5107 65 Ply.	30	7BCH 67 Chev.	45		
MN-5493 73 Ford		PNF-3500 71-73 Ford	159	TDO-2254 71-72 Olds.	131	VTP-5107 65 Ply.	30	7BCH 67 Chev.	45		
Merc.	167	POE-4070 74 Pont.	168	TDX-4477	170	VR-8208 68 Ply.	60	7BCH 67 Chev.	45		
MKV-3493B 73 Ford	170	POE-4295 74 Pont.	169	TER-3523 73 Olds.	164	VNF-4235 74 VN	172	7BCH 67 Chev.	45		
N-638 58-59 Amer.		POL-4030 74 Pont.	159	Merc.(EP)	164	VNX-4422 74 VN	174	7BCH 67 Chev.	45		
N-639 58-59 Amer.		POP-4078 74 Pont.	171	TER-3523 73 Ford,	168	VXA-3457 73 Chev.	167	7BCH 67 Chev.	45		
Motors	13	POX-4455 74 Pont.	170	Merc.(LP)	168	VXA-3626 73 Chev.	165	7BCH 67 Chev.	45		
N-3028 63 Amer.		POX-4645 74 Pont.	177	TFC-1489 70-71 Olds,	131	W-76 thru 57 VW	12	7BCH 67 Chev.	45		
Motors	23	PP-330 60 Ply.	15	Pont.	169	W-84 58-63 VW	23	7BCH 67 Chev.	45		
NA-749 58-59 Amer.		PP-341AT 61 Ply.	16	TFX-3293 73 Olds.	169	W-89 58-59 VW	23	7BCH 67 Chev.	45		
Motors	13	PP-819 59 Ply.	15	Pont.	169	W-3040 58-63 VN	23	7BCH 67 Chev.	45		
NA-3068 63 Amer.		PP-3026 63 Ply.	22	TFX-3285 73 Ford	169	W-3040A 64 VN	28	7BCH 67 Chev.	45		
Motors	23	PP-5105 65 Ply.	30	TFX-4285 74 Ford	169	W-5204 65 VN (Pg.41)	28	7BCH 67 Chev.	45		
NAP-3069 63 Amer.		PP-5105N 65 Ply.	35	TFO-3278	169	WFM-5387 58-67 VN	54	7BCH 67 Chev.	45		
Motors	23	PP-7103 66-67 Ply.	60	TFX-3207	169	WP-4 58-59 VW	12	7BCH 67 Chev.	45		
NAY-3052 63 Chry.	23	PP-8202 68 Ply.	60	TFX-3285	169	WP-7 thru 57 VW	12	7BCH 67 Chev.	45		
ND-8224 68 Chry.	60	PPC-3708 73 Pont.	171	TFX-3296	169	WP-7G VW	12	7BCH 67 Chev.	45		
ND-4117 74 Chev.	176	PPM-7366 67 Ply.	61	TFX-3296 73 Ford	159	WP-19 58-59 VW	23	7BCH 67 Chev.	45		
NOE-4517 74 Chev.	168	PPM-2500	171	TILU-1590	74	WP-22 58-63 VW	23	7BCH 67 Chev.	45		
NOF-4270 74 Chev.	169	PPX-2389	127	TMA-1550	69	WP-167	15	7BCH 67 Chev.	45		
NOL-4015 74 Chev.		PS-4153	27	TMA-1550-PA	160	WP-2289A (Sim. to Pg.5)	159	7BCH 67 Chev.	45		
(Pg.5)	159	PS-4653	27	TMA-1550-T	160	WP-2289A (Sim. to Pg.5)	159	7BCH 67 Chev.	45		
NOX-4475 74 Chev.		PT-3025 63 Ply.	26	TOR-3044 73 Ford,Merc.	159	WP-3039 58-63 VN	23	7BCH 67 Chev.	45		
(Pg.15)	165	PUC-3108	23	TPC-31 61 Buick,Olds,	16	WP-3093A 64 VN	28	7BCH 67 Chev.	45		
NP-3029 63 Amer.		PUT-3108A	28	Pont.	16	WP-5203 65 VN (Pg.41)	28	7BCH 67 Chev.	45		
Motors	23	PXC-3455 73 Pont.	167	TPC-31AT 63 Olds,	23	WP6237 58-67 VN	57	7BCH 67 Chev.	45		
NP-5153 63 Amer.		PXC-3455B 73 Pont.	170	Pont.	23	WP8C-8 thru 57 VN	12	7BCH 67 Chev.	45		
Motors	29	PXN-3638 (XPA-2575A)	73 Ford	TPC-42AT 63 Olds,	23	XEM-1156(Series M)	149	7BCH 67 Chev.	45		
NPP-2349	176	QME-2445A	165	Pont.	23	XME-1443	149	7BCH 67 Chev.	45		
NPX-2390	168	R-54, B	11	TPC-3036 63 Olds,	23	XPA-2575A (Sim. to Pg.15)	165	7BCH 67 Chev.	45		
NTP-2390F	225	R-61	20	Pont.	23	XTP-3487 73 Pont.	167	7BCH 67 Chev.	45		
NT-8222 68 Chry.	60	Rally 50	229	TPC-4026 64 Pont.	62	XTP-3487B 73 Pont.	170	7BCH 67 Chev.	45		
NJ-63-AT	23	RAP-89 59 Amer.Motors.	13	TPC-7170 66-67 Pont.	28	YAM-3050 63 Chev.	23	7BCH 67 Chev.	45		
NJ-3107	23	RAP-100 60 Amer.	13	TPC-7370 73 Olds.	171	YAM-4025 64 Chev.	28	7BCH 67 Chev.	45		
NJ-3107A	23	RP-5151 65 Amer.	29	TPP-87A 57 Ply.	13	YAM-3049 63 Chev.	23	7BCH 67 Chev.	45		
NY-6238 65-67 VW	54	RP-5151 65 Amer.	29	TPP-88 57-58 Ply.	13	YF-4532 64 Chev.	28	7BCH 67 Chev.	45		
NY-400 60 Chry.	14	RP-8332M 67 Amer.	55	TPP-88C 57-58 Ply.	13			7BCH 67 Chev.	45		
NY-598A 58 Chry.	10	RP-8332M 67 Amer.	55	TPP-3737 73 Ford	171			7BCH 67 Chev.	45		
NY-3102 63 Chry.	23	RP-8332M 67 Amer.	55	TPR-12 Tractor	171			7BCH 67 Chev.	45		
NY-3100 63 Chry.	26	RP-8332M 67 Amer.	55	TR-13B	25			7BCH 67 Chev.	45		
NY-5101N 65 Chry.	35	RP-8332M 67 Amer.	55	TR-48AT	25			7BCH 67 Chev.	45		
NY-8220 68 Chry.	60	RP-8332M 67 Amer.	55	TR-0048	25			7BCH 67 Chev.	45		
QAE-10 60 Olds.	14	RP-8332M 67 Amer.	55	TR-7281 Tractor	59			7BCH 67 Chev.	45		
QAE-4531 64 Olds.	28	RP-8332M 67 Amer.	55	TR-7292	81			7BCH 67 Chev.	45		
OE-160 60 Olds.	14	RP-8332M 67 Amer.	55	TR-7390 Tractor	59			7BCH 67 Chev.	45		
OE-171AT 61 Olds.	16	RP-8332M 67 Amer.	55	TR-7390 Tractor	59			7BCH 67 Chev.	45		
OE-3024 63 Olds.	23	RP-8332M 67 Amer.	55	TR-7390 Tractor	59			7BCH 67 Chev.	45		
OE-3026A 71-73 Olds.	159	RP-8332M 67 Amer.	55	TR-7390 Tractor	59			7BCH 67 Chev.	45		
OE-4031 64 Olds.	23	RP-8332M 67 Amer.	55	TR-7390 Tractor	59			7BCH 67 Chev.	45		
OE-5031 65 Olds.	29	RP-8332M 67 Amer.	55	TR-7390 Tractor	59			7BCH 67 Chev.	45		
OE-7162 67 Olds.	60	RP-8332M 67 Amer.	55	TR-7390 Tractor	59			7BCH 67 Chev.	45		
OFD-3247 68-73 Kadette,	172	RP-8332M 67 Amer.	55	TR-7390 Tractor	59						

BUICK (CONT.)	VOL.	BUICK (CONT.)	VOL.	CADILLAC (CONT.)	VOL.	CARTAPE (CONT.)	VOL.	CHEVROLET (CONT.)	VOL.	CHEVROLET (CONT.)	VOL.
34AFMT2 73	145	981969 59	11	05CMM1/MW1 70	78	CTI-8102	143	21BPBT1 72	115	91TPB1 69	59
34AFP1, 34AFPK1 73	140	981970 59	10	05CT411 70	83	CTI-8202	146	21BPBT2 72	125	91VFM2 69	70
34APB1 73	139	7285424 65	30	05CT412 70	94	CTI-8599	149	21HPB1 72	112	91VFP1 69	73
34APB2 73	144	7285444 65	31	15CFMT1, 15CFMT2 71	96	CTI-8877	163	21HPB2 72	120	91VMP1 69	70
34APBK1 73	139	7287994 65	31	15CFMT3 71	114	CTI-8999A	152	21HPBK1 72	112	91ZPB1 69	59
34APBK2 73	144	7289714 65	30	15CFP1 71	100	X-8020	150	21HPBK2 72	120	985036 61	16
34APBT1 73	138	7289734 65	30	15CFP2 71 (Sim. to Pg. 29)	100	X-8030/A	189	21TFP1 72	117	985158 62	17
34SPM2 73	142	7289754 65	31	15CMM1 71	102	X-8100	119	21TFP2/P3 72	127	985159 62	18
34BPM4 73	172	7289774 65	31	15CMM2 (Sim. to Pg. 19)	102	51SLSC	209	21TPB1 72	110	985203 62	17
34BFMT1 73	145	7293604 66	35	15CT411 71	97	514FS	211	21TPB2 72	124	985227 62	18
34BFP1 73	140	7293614 66	36	25CFMT1/M2 72	114	CENTURY		21TFM1 72	112	985264 62	17
34BFB1 73	139	7293624 66	37	(7937005) 72	114	(See Boman Astrosonix)		21VFM1 72 (Sim. to Pg. 25)	78	985315 62	24
34BPB2 73	144	7293634 66	38	25CFM1/2 72	112	CHANNEL MASTER		21VFP1 72	117	985332 62	18
34BPBT1 73	138	7293644 66	37	25CMM1/M2 72	110	6203	116	21VFP2/P3 72	127	985396 63	20
41XPB1, 41XPBK1 74		7293654 66	38	25CT411 72	112	6204	113	21VMPA1/H1 72 (Sim. to Pg. 39)	78	985431 63	19
(Sim. to Pg. 51)	167	7293674 66	37	36CFP1 73	139	6204	113	21XFMT1 72	118	985443 63	19
44AFM1 74	175	7297944 66	36	36CMM1 73	144	6275	223	21XPBT1 72	115	985447 63	19
44AFM2 74	172	7298904 67	44	36CMM2 73	178	6282	122	31APB1 73	145	985449 63	19
44AFMT1 74	173	7298914 67	43	46CFMT1/T2 74	170	6283	126	31APB2 73	145	985453 63	19
44AFP1 74	170	7298924 67	44	46CFP1 74	175	6284	129	31APBK1 73	145	985455 63	19
44AFP2 74	171	7298934 67	43	46CMM1 74	178	6285	125	31APBK2 73	145	985471 63	20
44APBK1 74	171	7298944 67	44	46CMM2 74	179	6286	124	31BFM1 73 (PCB AR-151)	140	985672 64	24
44APBT1 74	169	7298954 67	45	56CFMT1/T2/T3 75	194	6287	151	31BFM2 73	151	985686 63	21
44BPM1 74	175	7298964 67	43	56CFMT4 75	213	6288	154	31BFMT2 73	142	985694 63	20
44BFM3 74	172	7298974 67	45	56CFP1 75	190	6289	183	31BFP1/PK1 73	138	985773 64	24
44BFTM1 74	173	7302504 68	54	56CMM1/M2 75	192	6291	121	31BPB1 73	137	985776 64	25
44BFP1 74	170	7302514 68	50	66CFP1 76 (Pg. 35)	190	6292	119	31BPB2 73	145	985815 64	24
44BPM1 74	171	7302524 68	51	66CMM1 76 (Pg. 39)	213	6294	158	31BPBK1 73	137	985831 64	24
44BPT1 74	169	7302534 68	58	95CFM2 69	63	6295	152	31BPBK2 73	145	985832 64	25
50APB1 75	192	7302544 68	51	95CFM3 69	63	6296	156	31BPT1 73	139	985835 64	24
50APB2 75 (Pg. 29)	192	7303994 67	48	95CFP1 69	74	6297	157	31BFMT1 (Pg. 19)	157	985876 64	23
50APBK1 75	192	7304884 A 68	51	95CFP2 69	74	6298	157	31FPBT1 (Pg. 57)	75	985877 64	24
50APBK3 73	192	7304914 69	51	95CMM1 69	63	6299	226	31TPB1 (Pg. 47)	124	985916 64	24
50BPM1		7306934 69	70	95CT411/12 69	71	6317	103	31TCCP1 (Pg. 47)	124	985921 64	24
75 (Pg. 103)	188	7306964 69	70	95CMM1/2	142	6318	142	31XFMT1 (Pg. 29)	109	985957 64	24
50BFMT1/T2 75	191	7307554 72	112	990552 66	37	6348	229	31XFMT2 (Pg. 25)	127	985958 64	23
50BFMT3 75	210	7313514 (14AFP1) 71	101	990553 66	36	6376	189	31XFPK1 (Pg. 25)	127	986096 65	29
50BFP1/PK1 75		7313514 (24AFP1) 72	118	990554 66	37	6378	188	31XPB1 73 (Pg. 47)	124	986099 65	29
(Pg. 103)	191	7313514 (24AFP2) 72	129	7264165 54	5	6379	187	31XPBK1 (Pg. 47)	124	986101 65	29
50BPM1	191	7264185 54	5	7265825 55	6	6382	223	31YFM1 (Pg. 25)	78	986113 66	38
50BPM2 75	190	7265845 55	6	7266505 56	6	6383	185	31YFP1 (Pg. 25)	127	986116 66	31
50BPM3 75 (Pg. 29)	192	7266505 56	6	7268035 57	7	6385A	224	41APB1	165	986116 66	31
50BPK1	192	7268005 57	7	7268058 58	8	6540	21	41APBK1 74	165	986116 66	31
50BPK2 75 (Pg. 29)	192	7270405 58	8	7270555 58	8	6541	35	41BPM1 74	174	986118 66	39
50BPK3 75 (Pg. 29)	190	7272505 59	10	7274905 60	12	6542	35	41BPM2 74	169	986118 66	39
50BPT2 75	215	7274925 60	12	7276605 61	16	6543	42	41BPM3 74	171	986205 65	29
50BPT3 75 (Pg. 103)	188	7276605 61	16	7279615 62	18	CHEVELLE (See Chevrolet)		41BPT1 74	165	986205 65	29
50BPT4 75	191	7281225 62	18	7282315 63	19	CHEVROLET		41BPBK1 74	165	986245 65	29
50BPT5 75	220	7282325 63	19	7283295 63	20	01APB1/B2	101	41BPBK2 74	166	986250 65	31
50BPT6 75	191	7283295 63	20	7286315 (LP) 63-64	25	01BPM1/M2 70	77	41BPT3 74	166	986250 65	31
50BPT7 75	191	7290545 65	31	7290555 65	31	01BPM2/T2 70	75	41FFMT1 74 (Pg. 17)	101	986251 65	29
50BPT8 75	189	7290555 65	31	7293015 66	38	01BPM3/P2 70	74	41FFMT2 74 (Pg. 19)	101	986252 65	29
50BPT9 75	189	7293261 75	189	7293015 66	38	01BPM4/P2 70	74	41VFP1 74 (Pg. 25)	127	986330 65	29
50BPT10 75	189	7293271 75	193	7293015 66	38	01BPM5/P2 70	74	41XFM1 74 (Pg. 29)	109	986339 65	29
50BPT11 75	188	7293321 75	191	7293015 66	38	01BPM6/P2 70	74	41XFP1/PK1 74 (Pg. 25)	127	986374 65	29
50BPT12 75	188	7293321 75	191	7293015 66	38	01BPM7/P2 70	74	41XPB1/BK1 74	167	986376 65	29
50BPT13 75	188	7293321 75	191	7293015 66	38	01BPM8/P2 70	74	41YFP1 74 (Pg. 25)	127	986521 66	38
50BPT14 75	188	7293321 75	191	7293015 66	38	01BT41 70	76	41YFP2 74 (Sim. to Pg. 25)	127	986522 66	36
50BPT15 75	188	7293321 75	191	7293015 66	38	01BT42 70	76	50HFM1 75 (Pg. 103)	188	986522 66	36
50BPT16 75	188	7293321 75	191	7293015 66	38	01FTB1 70 (Sim. to Pg. 57)	74	50HFM2 75 (Pg. 103)	191	986526 66	38
50BPT17 75	188	7293321 75	191	7293015 66	38	01FTB2 70 (Sim. to Pg. 19)	77	50HFM3 75 (Pg. 103)	220	986544 66	38
50BPT18 75	188	7293321 75	191	7293015 66	38	01FFP1 70	92	50HFM4 75 (Pg. 103)	220	986545 66	35
50BPT19 75	188	7293321 75	191	7293015 66	38	01FFP2 70	92	50HFM5 75 (Pg. 103)	220	986546 66	37
50BPT20 75	188	7293321 75	191	7293015 66	38	01FFP3 70	92	50HFM6 75 (Pg. 103)	220	986546 66	37
50BPT21 75	188	7293321 75	191	7293015 66	38	01FFP4 70	92	50HFM7 75 (Pg. 103)	220	986546 66	37
50BPT22 75	188	7293321 75	191	7293015 66	38	01FFP5 70	92	50HFM8 75 (Pg. 103)	220	986546 66	37
50BPT23 75	188	7293321 75	191	7293015 66	38	01FFP6 70	92	50HFM9 75 (Pg. 103)	220	986546 66	37
50BPT24 75	188	7293321 75	191	7293015 66	38	01FFP7 70	92	50HFM10 75 (Pg. 103)	220	986546 66	37
50BPT25 75	188	7293321 75	191	7293015 66	38	01FFP8 70	92	50HFM11 75 (Pg. 103)	220	986546 66	37
50BPT26 75	188	7293321 75	191	7293015 66	38	01FFP9 70	92	50HFM12 75 (Pg. 103)	220	986546 66	37
50BPT27 75	188	7293321 75	191	7293015 66	38	01FFP10 70	92	50HFM13 75 (Pg. 103)	220	986546 66	37
50BPT28 75	188	7293321 75	191	7293015 66	38	01FFP11 70	92	50HFM14 75 (Pg. 103)	220	986546 66	37
50BPT29 75	188	7293321 75	191	7293015 66	38	01FFP12 70	92	50HFM15 75 (Pg. 103)	220	986546 66	37
50BPT30 75	188	7293321 75	191	7293015 66	38	01FFP13 70	92	50HFM16 75 (Pg. 103)	220	986546 66	37
50BPT31 75	188	7293321 75	191	7293015 66	38	01FFP14 70	92	50HFM17 75 (Pg. 103)	220	986546 66	37
50BPT32 75	188	7293321 75	191	7293015 66	38	01FFP15 70	92	50HFM18 75 (Pg. 103)	220	986546 66	37
50BPT33 75	188	7293321 75	191	7293015 66	38	01FFP16 70	92	50HFM19 75 (Pg. 103)	220	986546 66	37
50BPT34 75	188	7293321 75	191	7293015 66	38	01FFP17 70	92	50HFM20 75 (Pg. 103)	220	986546 66	37
50BPT35 75	188	7293321 75	191	7293015 66	38	01FFP18 70	92	50HFM21 75 (Pg. 103)	220	986546 66	37
50BPT36 75	188	7293321 75	191	7293015 66	38	01FFP19 70	92	50HFM22 75 (Pg. 103)	220	986546 66	37
50BPT37 75	188	7293321 75	191	7293015 66	38	01FFP20 70	92	50HFM23 75 (Pg. 103)	220	986546 66	37
50BPT38 75	188	7293321 75	191	7293015 66	38	01FFP21 70	92				

CHEVROLET (CONT.)	VOL.	CHEVROLET (CONT.)	VOL.	CHRYSLER (CONT.)	VOL.	CONTINENTAL (See Lincoln)	VOL.	DODGE (CONT.)	VOL.	DODGE (CONT.)	VOL.
7299111 68	49	7933501 (21APBK2) 72..124	42	376 67	51	CF75603 70	88	2884059 68 (Sim. to Pg. 41)	58	2884063 68 (Sim. to Pg. 41)	58
7299561 66	37	7933501 (51XFPBK1) 74..117	68	376 68	51	CF75703 70	93	2884064 68	51	2884067 68	51
7300471 67	43	7933501 (51XFPBK1) 75..118	68	382 68	50	CG01303 71	104	2884068 68	51	2884105 68	51
7300481 67	44	7933511 (21AFP1) 72..117	68	391 68	50	CG01403 71	105	2884121 68	68	2884128 68	68
7300491 67	43	7933511 (21AFP2/K3)	68	393 68	53	CG05903 71	105	2884151 68	68	2884159 68	68
7300941 67	42	72	127	402 69	53	CG15603 71	104	2884168 68	68	2884175 68	68
7301001 67	44	7933511 (51XFPK1) 75..189	189	403 69	69	CG64803 71	93	2884181 68	68	2884182 68	68
7301001 68	48	7933641 (11HPB2) 71.. 97	97	404 69	73	CG2704 71	89	2884151 68	68	2884159 68	68
7302451 68	49	7933641 (21HPB1) 72..112	112	419 67	65	ORBCC 70	94	2884151 68	68	2884159 68	68
7302721 68	52	7933641 (21HPB2) 72..120	120	723 68	45	ORBJ 70-71	89	2884151 68	68	2884159 68	68
7302721 69	53	7933641 (31APB1) 73..137	137	724 68	55	ORBCC 70	94	2884151 68	68	2884159 68	68
7302721 (91VFP1) 69	73	7933641 (31APB2) 73..145	145	746 68	55	ORBD 70	92	2884151 68	68	2884159 68	68
7302721 (11VFP1) 71	104	7933641 (41APB1) 74..165	165	786 68 (Sim. to Pg.75)	47	ORBT 70	97	2884151 68	68	2884159 68	68
7303121 68	48	7933641 (51APB1) 75..187	187	2580786 68 (Sim. to Pg.75)	47	ORBV 70	97	2884151 68	68	2884159 68	68
7303131 68	49	7935021 (21HPBK1) 72..112	112	2820275 67	43	1BBC 71	89	2884151 68	68	2884159 68	68
7303201 68	53	7935021 (21HPBK2) 72..120	120	2820635 68	51	1BBJ 70-71	90	2884151 68	68	2884159 68	68
7303211 68	53	7935021 (31APBK1) 73..137	137	2864724 68	55	1BVD 71 (Sim. to Page 45)	94	2884151 68	68	2884159 68	68
7303211 69	70	7935021 (31APBK2) 73..145	145	2864746 68	55	1CH3513 75	214	2884151 68	68	2884159 68	68
7303231 68	48	7935021 (51APBK1) 75..187	187	2864924 68	53	1CH4007 74	180	2884151 68	68	2884159 68	68
7303241 68	48	7935201 (41APBK1) 74..165	165	2864966 68	50	1CH4405 74	181	2884151 68	68	2884159 68	68
7303311 68	48	7935841 72	125	2884928 68	87	1CH4507 75	195	2884151 68	68	2884159 68	68
7304161 68	48	7936011 (11HPB2) 71.. 93	93	2884986 68	84	1CH4508 75	192	2884151 68	68	2884159 68	68
7304611 68	49	7936011 (21HPB2) 72..113	113	2884286 69	64	1DC2002 77	84	2884151 68	68	2884159 68	68
7304621 68	58	7936011 (31HP1) 73..138	138	2884287 69	63	1DP2010 70	109	2884151 68	68	2884159 68	68
7305201 68	49	7936011 (41HP1) 74..168	168	2884288 69	69	1DP2902 69	67	2884151 68	68	2884159 68	68
7305211 68	49	7936011 (51HP1) 75..186	186	2884544 70	86	1DT1214 72	135	2884151 68	68	2884159 68	68
7305221 68	49	7936181 72	115	2884289 69	73	1DT1215 72	137	2884151 68	68	2884159 68	68
7305301/A 68	49	7936191 72	118	2884544 70	86	1DT1244 72	135	2884151 68	68	2884159 68	68
7305311 68	55	7936271 72	117	2884631 69	61	1DT1516 73	153	2884151 68	68	2884159 68	68
7305311A 68	55	7936601 72	112	2884633 (BMC) 69	65	1DT1517 73	154	2884151 68	68	2884159 68	68
7305441 67	48	7936721 72	127	2884633 (1CH4007) 70	90	1DT1536 73	153	2884151 68	68	2884159 68	68
7305451 68	49	7937571 (21VFP1) 72..117	117	2884649 70	92	1DT1919 70	87	2884151 68	68	2884159 68	68
7305841 (11TPB1) 71	96	7937571 (21VFP2) 72..127	127	2884750 70	94	1DT2214 72	133	2884151 68	68	2884159 68	68
7305841 75	217	7937581 72	78	2884750 70	94	1DT2314 73	159	2884151 68	68	2884159 68	68
7305841 (21TPB2) 72	110	7939071 (31BPB1) 73..139	139	2884753 70	84	1PD1207 72	131	2884151 68	68	2884159 68	68
7305841 (41SVPB1) 74	167	7939071 (41BPB1) 74..166	166	2884758 70	81	1PD1208 72	131	2884151 68	68	2884159 68	68
7305841 (51SVPB1) 75	186	7939071 (51BPB1/T2)	188	2884759 72	128	1PD1209 72	128	2884151 68	68	2884159 68	68
7306121 68	58	7939071 (51BPB1/T3) 75..207	207	2884847 69	77	1PD1211 72	128	2884151 68	68	2884159 68	68
7306361 68	55	7939081 (31BPM1) 73..142	142	2884847 69	77	1PD1212 72	128	2884151 68	68	2884159 68	68
7307121 68	51	7939081 (31BPM2) 73..151	151	2884847 70	79	1PD1506 75	196	2884151 68	68	2884159 68	68
7307801 (Sim. to Pg. 51)	44	7939081 (41BPM1) 74..171	171	2884875 70	79	1PD2207 72	135	2884151 68	68	2884159 68	68
7307811 (Sim. to Pg. 41)	48	7939081 (51BPM1/T2)	188	2884876 70	77	1PD2208 72	135	2884151 68	68	2884159 68	68
7307821 (Sim. to Pg. 41)	48	7939081 (51BPM1/T3) 75..189	189	3420560 70	108	1PD2209 72	133	2884151 68	68	2884159 68	68
7307831 (Sim. to Pg. 22)	49	7939081 (51BPM2) 75..206	206	3420560 69	96	1PD2307 73	156	2884151 68	68	2884159 68	68
7307841 (Sim. to Pg. 22)	49	9343051 75	189	3489157 70	68	1PD2308 73	159	2884151 68	68	2884159 68	68
7307851 (Sim. to Pg. 41)	48	9343061 75	186	3501013 (1PD1209, 2PD1209) 72	128	1PD2309 73	152	2884151 68	68	2884159 68	68
7308211 69	68	9344651 75	189	3501013 73 (Sim. to Pg. 73)	122	1PD2312 73	152	2884151 68	68	2884159 68	68
7308211 69	68	9344661 75	191	3501045 71	105	1PD2313 73	152	2884151 68	68	2884159 68	68
7308211 69	68	9345270 (Pg.103)	191	3501059 71	105	1PD2316 73	158	2884151 68	68	2884159 68	68
7308211 69	68	9345280 (Pg.103)	191	3501059 71	105	1PD2317 73	158	2884151 68	68	2884159 68	68
7308211 69	68	9345290 (Pg.103)	188	3501156 72	128	1PD2318 73	158	2884151 68	68	2884159 68	68
7308211 69	68	9347740 76	221	3501163 (1CH1210, 2CH1310) 72	136	1PF2205 72	135	2884151 68	68	2884159 68	68
7308211 69	68	9348311 75	220	3501163 (1CH1314) 75	157	1PF2317 73	152	2884151 68	68	2884159 68	68
7308211 69	68	9348321 76	217	3501164 (1B8FM1) 71	98	1PF2402 74	179	2884151 68	68	2884159 68	68
7308211 69	68	9348341 77	218	3501164 (2B8FM1) 72	109	2CH1605 72	229	2884151 68	68	2884159 68	68
7308211 69	68	9343061 75	217	3501164 (3B8FM1)	108	2CH2402 76	228	2884151 68	68	2884159 68	68
7308211 69	68			3513966 73	147	2CH2601 70	83	2884151 68	68	2884159 68	68
7308211 69	68			3501165 71	108	2DP1209 72	128	2884151 68	68	2884159 68	68
7308211 69	68			3501166 71	104	2DP1516 73	153	2884151 68	68	2884159 68	68
7308211 69	68			3501166 71	106	2DP1006 70	84	2884151 68	68	2884159 68	68
7308211 69	68			3501231 74	179	2PD1211 72	128	2884151 68	68	2884159 68	68
7308211 69	68			3501232/33/34/35 74	181	2PD1212 72	128	2884151 68	68	2884159 68	68
7308211 69	68			3501237 74	176	2PD1306 73	158	2884151 68	68	2884159 68	68
7308211 69	68			3501238 74	176	2PD1308 73	157	2884151 68	68	2884159 68	68
7308211 69	68			3501240 (1CH2401, SCH2401 74)	181	2PD1315 73	157	2884151 68	68	2884159 68	68
7308211 69	68			3501240 (1CH3507, SCH3507) 75	195	2PD1506 75	196	2884151 68	68	2884159 68	68
7308211 69	68			3501340 75	214	2PD2103 73	159	2884151 68	68	2884159 68	68
7308211 69	68			3501328 75	195	2PD2509 75	194	2884151 68	68	2884159 68	68
7308211 69	68			3501329 (1CH4402, SCM4402 74)	180	2PF1203 72	128	2884151 68	68	2884159 68	68
7308211 69	68			3501329 (1CH4508, SCH4508) 75	192	2PF1324 73	157	2884151 68	68	2884159 68	68
7308211 69	68			3501504 (1CL2206) 72	133	2PF1401 74	179	2884151 68	68	2884159 68	68
7308211 69	68			3501504 (1CL2311) 73	153	2PF1605 74	223	2884151 68	68	2884159 68	68
7308211 69	68			3501531 72	155	2PF2402 76	228	2884151 68	68	2884159 68	68
7308211 69	68			3501622 75	196	2PF2602 76	228	2884151 68	68	2884159 68	68
7308211 69	68			3501623 75	194	2PF2607 76	228	2884151 68	68	2884159 68	68
7308211 69	68			7313966 73	147	2PF2609 76	228	2884151 68	68	2884159 68	68
7308211 69	68					2PF2610 76	228	2884151 68	68	2884159 68	68
7308211 69	68					2PF2611 76	228	2884151 68	68	2884159 68	68
7308211 69	68					2PF2612 76	228	2884151 68	68	2884159 68	

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86MI 58 8	701MPXU 215	A-50 147	3SH756 53 4	DOMY-18805B 70 85	1FD4302 73 155
94MI 59 11	702FM 195	A-55 147	45H764 54 4	DORJ-19A241A 71 109	1FD4505 222
94MIM 59 10	704MPX 216	A-70 (Pg. 51) 162	45H766 54 4	DORJ-18806A 71 102	1FD4510 75 199
244766-R91 71 125	815-M 202	A-71 213	4TMC F 64 23	DOWA-19A241 70 81	1FD4511 222
244792-R91 69-70 124	817FM 204	A-75 188	5BH 55 5	DOWA-19A242 70 86	1FD4607 223
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JACOBSEN	822FM 197	A-90 205	6BC 56 6	D1AA-18806 71 94	1FD5001 70 87
7BT 45	828/P 195	A-120 150	6BH 56 6	D1GA-19241 71 98	1FD5003 70 87
7BTX 52	830NN 180	A-125 (Ser. #) 190	6TDC 66 37	D1MA-19A241 71 98	1FD5101 71 106
JCPenney	831/N/NN 194	A-12-10001 & Up 206	8TBC 68 60	D1MA-19A242-AD 71 105	1M4006 70 85
841 190	831R 194	A-126 206	8TPK 68 59	D1OA-18806 71 98	1M4106 71 105
842 199	832Q 202	A-140 140	9BL 69 60	D1MA-19A242-AD 71 105	1M4218 72 115
843 200	841 190	A-146 210	9FLB 69 71	D1WA-19A241 71 98	1M4304 73 153
844 206	842 199	A-152 198	9FLBU 69 71	D1YA-19A241 71 98	2CR7 71 105
846/N 208	843 200	A-219 (Sim. to Pg. 77) 58	9FBX 69 80	D1ZA-18806 71 105	2CR4107 105
848 211	844 206	A-225 198	9MABL 68-69 71	D2AA-19A241-125 72 127	2FBF/BAFK 72 127
848/N 208	845 207	A-226 212	78BL 57 7	D2AA-19A241-125 72 127	2FBZ 72 127
848 211	846 207	A-229 (Sim. to Pg. 73) 55	85BH 58 9	D2AA-19A242-AE 72 (See Pg. 57) 135	2FD4607 223
851 215	847 208	A-239 (Sim. to Pg. 38) 56	85BHP & Up Serial #5000 58 9	D2AA-18806 72 126	2M4111 71 105
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JOHN DEERE	849 212	A-250 72	95BH 59 9	D2DA-18806 72 126	2M4106 71 105
AR42431 71 53	850 213	A-255 209	LLOYD'S	D2DA-18806 72 126	2M4106 71 105
AR56775 161	851/N/NN 194	A-260 77	2A158-07 132	D2DA-18806 72 126	2M4106 71 105
AR57156 158	852 214	A-269B 65	MACK	D2DA-18806 72 126	2M4106 71 105
AR60083 158	853Q 202	A-275 183	U3MVT 32	D2DA-18806 72 126	2M4106 71 105
AR60083 158	854 215	A-295 205	U5MVT 47	D2DA-18806 72 126	2M4106 71 105
AR60083 158	855 216	AR-145 (Pg. 49) 140	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	856 217	AS-830-H 54	USMT 47	D2DA-18806 72 126	2M4106 71 105
AR60083 158	857 218	AS-831 58	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	858 219	AS-831-H 58	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	859 220	ASPM-830-H 54	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	860 221	ASPM-831 56	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	861 222	ASR-830-H 54	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	862 223	ASR-851 55	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	863 224	R-905 182	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	864 225	R-915 186	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	865 226	R-925 181	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	866 227	R-927 234	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	867 228	R-945 177	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	868 229	R-947 235	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	869 230	R-957 235	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	870 231	LINCOLN	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	871 232	CRVY-18805B 68 71	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	872 233	C9LA-19A241-B 69 80	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	873 234	C9LA-19A242-B 69 66	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	874 235	C9LA-18806-C 69 66	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	875 236	C9LY-18805-B 69 66	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	876 237	C9VA-19A099 68-69 71	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	877 238	C9VA-19A241 69 71	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	878 239	C9VA-19A246 69 71	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	879 240	DOLA-19A241 70 94	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	880 241	DOLA-19A242 70 92	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	881 242	DOLA-19A241 (OFBL) 70, 75	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	882 243	DOLA-18806 70 84	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	883 244	DOLA-19A242-E(-185) 70 108	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	884 245	D1LA-19A242-AA 71 104	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	885 246	D1LA-18806 71 98	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	886 247	D1VA-19A241 71 97	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	887 248	D1VA-19A242-AA 71 102	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	888 249	D2OA-19A241 72 127	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	889 250	D2SA-19A242-AH 72 135	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	890 251	D2SA-19A242-AH 74	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	891 252	(Pg. 57) 135	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	892 253	D2VA-19A241 72 127	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	893 254	D2VA-19A242-AD 72 135	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	894 255	D2VA-19A242-AD 72	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	895 256	(Pg. 57) 135	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	896 257	D2VA-18806 72 126	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	897 258	D3AA-19A168-AD 73 155	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	898 259	D3SA-19A241 73 137	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	899 260	D3VA-19168-AC 73 155	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	900 261	D4AA-19A168-AA 74 183	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	901 262	D4AA-19A168-AA 74 181	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	902 263	D4AA-19A241AA 74 174	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	903 264	D4AA-18806AA 74 174	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	904 265	D4VA-19A168-AA 74 183	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	905 266	D4VA-19A241AA 74 174	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	906 267	D4VA-18806AA 74 171	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	907 268	D5SA-19A168 75 186	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	908 269	D5SA-19A241 75 188	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	909 270	D5VA-19A168 75 186	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	910 271	D5VA-19A241 75 188	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	911 272	D6SA-19A188-AD 76 228	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	912 273	D6VA-19A188-AD 76 228	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	913 274	D8ML 68 56	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	914 275	D2OA-18806 72 122	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	915 276	D2OA-18806 73 138	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	916 277	F3TBC 63 21	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
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AR60083 158	918 279	F6TDC 66 40	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	919 280	F8TBC 68 71	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	920 281	F8UBX 68 61	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	921 282	F14TBC 64 25	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	922 283	T08TBC 65 33	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	923 284	T6SMC 66 49	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	924 285	T7SMC 67 45	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	925 286	T7SMC 67 45	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	926 287	T7SMC 67 45	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	927 288	T8ML 68 52	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	928 289	T8MX 68 54	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	929 290	T9ML 69 64	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	930 291	T9MX 69 66	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	931 292	TF864AX 74 181	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	932 293	OBLSS 70 82	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	933 294	OFBL 70 75	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	934 295	OFBX 70 94	U7MT 67 112	D2DA-18806 72 126	2M4106 71 105
AR60083 158	935				

MoPar	VOL.	MoPar (CONT.)	VOL.	MoPar (CONT.)	VOL.	MOTOROLA (CONT.)	VOL.	MOTOROLA (CONT.)	VOL.	MOTOROLA (CONT.)	VOL.
C-5909 59 Chry.	11	304 60 Desoto	13	851 58 Chry.	8	CTM64 64 Chev.	25	TM105M	75	294	25
P-5901 59 Ply.	11	305 60 Dodge	13	852 58 Dodge	8	CV71A 71 Chev.	106	TM200S	111	300X	11
R3BC 63 Chry.	19	306 61 Dodge	16	854 58 Ply.	8	CY65A 62-65 Chev.	32	TM203S (Sim. to Pg. 57)	95	301X	11
R3BD 63 Dodge	19	309 61 Ply.	16	855 59 Ply.	11	CY65M 62-65 Chev.	33	TM213S	162	302 (MoPar 302)	13
R12BDT 61 Dodge	16	310 60 Ply.	14	856 59 Dodge	10	CY66A 66 Chev.	38	TM226S	215	310X	67
R23BDQ 62 Dodge	19	311 61 Ply.	16	857 59 Desoto	10	CY67A 67 Chev.	44	TM270M	79	311X	13
R95BC-S 59 Chry.	10	312 61 Desoto	16	858 59 Chry.	10	CY68A 68 Chev.	56	TM295M	33	320T	21
RV4C	24	313 60 Dodge	14	860 59 Ply.	12	CY69A 69 Chev.	69	TM296M	40	323T	22
RV4CL	24	314L 61 Dodge	16	861 59 Chry.	12	CY70A 70 Chev.	77	TM297M	48	324	25
RV5C 65	30	314V 61 Ply.	16	900 55 Dodge	5	CYA62 62 Chev.	20	TM299M	71	395/-12	5
RV5CC 65	30	317 61 Chry.	15	901 55 Desoto	5	CYA63 61-63 Chev.	22	TM315M	33	396/-12	6
RV5CL 65	30	322 62 Ply.	17	902 55 Chry.	5	CYA64 62-64 Chev.	25	TM316M	40	397	7
03BC 60 Chry.	13	323 62 Dodge	17	903 55 Chry.	5	CYM62 62 Chev.	19	TM316S	216	397X	7
03BD 60 Dodge	13	324 62 Ply.	17	910/HR 56 Dodge	6	CTM63 62-63 Chev.	22	TM318M	54	398X	9
03BS 60 Desoto	13	327 62 Chry.	17	911 65 Desoto	6	CYM64 62-64 Chev.	25	TM325M (Pg. 108)	25	404	5
04BC 60 Chry.	13	330 63 Ply.	21	912/HR 56 Chry.	7	F85MP (200)	125	TM327M	46	406	5
04BI 60 Chry.	13	331 63 Dodge	21	916/HR 56 Ply.	7	FMS5M	35	TM329M	46	412	11
38LE 63 Dodge	19	332 63 Dodge	21	917HR 57 Ply.	7	FM67M	45	TM329M	77	416	4
38V 63 Ply.	19	333 63 Chry.	21	918 57 Dodge	8	FM68M	59	TM336M	40	424	25
4TBC 64 Chry.	19	334 64 Dodge	24	919/HR 57 Desoto	7	FMT0M	25	TM402S	230	424	25
4TBL 64 Dodge	24	335 64 Ply.	25	920HR 57 Chry.	8	FMI06M	40	TM413S	160	500X	13
4TBL 64 Dodge	24	336 64 Dodge	25	921HR 57 Chry.	8	FMI08M	55	TM415M	32	503	5
4TRQ 64 Dodge	24	337 63 Dodge	22	922 58 Chry.	9	FMI50M	85	TM416M	41	504	5
4TBEV 64 Ply.	24	339 63 Dodge	22	923 58 Desoto	9	FMI52M	235	TM416S	217	506/-12	7
5BP 65 Ply.	28	343 63 Chry.	22	924HR	9	FM200A	34	TM525A	33	520T	21
5BFD 65 Dodge	30	344 63 Dodge	22	925 58 Ply.	9	FM210A	72	TM526A	41	524	26
5BPD 65 Ply.	28	345 63 Ply.	22	927 59 Desoto	11	FM214A	201	TM527A	46	553	4
5BVE 65 Ply.	28	347 62 Dodge	19	928 59 Chry.	10	FM273AX	203	TM529A	75	555/-12	6
5FBC 65 Chry.	30	348 64 Chry.	24	929 59 Chry.	10	FM360A	87	TM570A	82	556	6
5FBDD 65 Dodge	30	350 63 Dodge	19	2820635 68 Chry.	51	FM481AX	130	TM573A	158	595/-12	6
5FBI 65 Chry.	30	351 64 Chry.	25			FM675A	202	TM626A	41	596/-12	6
5FBL 65 Dodge (Pg. 86)	30	352 64 Chry.	25			FM75AX	202	TM703S	95	597X	7
5FBP 65 Ply.	30	353 64 Dodge	25			FM75AX-1	225	TM706S	47	601X	13
5FBPD 65 Ply.	28	354 64 Dodge	24			FM80D	14	TM707S/-1, 708S/-1,		611T (MoPar 610T)	4
5FBVE 65 Ply. (Pg. 86)	30	360 65 Ply.	36			FM909	67	TM709S	65	612 (MoPar 609)	4
5TBDT 65 Dodge (Sim. to Pg. 64)	26	361 65 Dodge	30L			FM991X	85	TM711S	68	624 (MoPar 624)	8
6BL 66 Dodge	37	362 65 Dodge	28			FM992X	85	TM714S (Mech. Ch)	72	701 (MoPar 701)	12
6BP 66 Ply.	37	363 65 Dodge	28			FMA-100	26	TM717AJ	82	829 (MoPar 829)	4
6BPD 66 Ply.	37	364 5FBDD 65 Dodge	30			FMC62	19	MTD174S	82	845 (MoPar 845)	8
6BVE 66 Ply.	37	364 6FBDD 66 Dodge	36			GMT346 48-53 Chev/GMC	5	MT18S (Ch. TD138J)	116	846 (MoPar 846)	8
6BVS 66 Ply.	37	365 65 Chry.	28			GMT53A6 48-53 Chev/GMC	5	MT912S	162	849 (MoPar 849)	8
6BVC 66 Chry.	36	365 65 Chry.	28			GV-701	11	U3MH	24	852 (MoPar 852)	8
6BFD 66 Dodge	36	366 5FB 65 Chry.	30			GV-800	10	VNA7 53-57 VW	7	853 (MoPar 853)	8
6FBL 66 Dodge	36	366 6FB 66 Chry.	36			H3FA6 51-53 Henry J	5	VNA8 58 VN	12	854 (MoPar 854)	9
6FBP 66 Ply.	36	367 5FBI 65 Chry.	30			HN2A6 51-52 Hudson	5	VNA60 VN	13	856 (MoPar 856)	10
6FBPD 66 Ply.	36	369 6FBP, 6BVE 66 Ply.	48			HN3A6 51-53 Hudson	5	VNA63 63 VN	22	857 (MoPar 857)	10
6BVE 66 Ply.	36	369 7FBP 67 Ply.	48			HNA46 54 Hudson	5	VNA64 58-64 VN	25	860 (MoPar 860)	12
7BC 67 Chry.	42	370 67 Dodge	48			HNA46 54 Hudson	5	VMM60 60 VN	22	861 (MoPar 861)	12
7BD 67 Dodge	42	372 (Pg. 86) 65 Ply.	30			HNS3M6 51-53 Hudson	5	VMM63 58-63 VN	22	875AX	224
7BDD 67 Dodge	42	373 (Pg. 86) 65 Dodge	30			HT3A6 53 Hudson	5	VMM64 58-64 VN	25	923 (MoPar 923)	9
7BDT 67 Dodge	44	374 67 Ply.	48			ILSTCA-12 55 Intl.	6	03AR (See Amer. Motors 8990811)	12	927 (MoPar 927)	11
7BP 67 Ply.	44	375 67 Chry.	48			IM201R	41	04MA 60 Amer. Motors (Pg. 19)	11	891600	24
7BVE 67 Ply.	42	376 78C 67 Chry.	42			IM202R	66	04M6 60 Amer. Motors (Pg. 19)	11	890886 64 Opel	26
7BVC 67 Chry.	48	376 78C 67 Chry.	42			IM204R	64	04M7/NR/MFM (Pg. 77)	12		
7BDD 67 Dodge	48	377 67 Dodge	48			KRS3A 51-53 Kaiser	5	1C2RFM4 (Pg. 43)	178		
7FBPD 67 Dodge	48	378 67 Dodge	48			NH3C 53 Nash	4	1C3R8X4 (Pg. 39)	180		
7FBP 67 Ply.	48	379 66 Dodge	36			NH4AC 54 Nash (See AC-154)	5	1C3R8X4	204		
7FBPD 67 Ply.	48	381 67 Dodge	48			NH5AC 55 Nash (See AC-154)	5	2AT-1	21		
7FVBA 67 Dodge, Ply.	48	385 67 Dodge, Ply.	48			OE2A6 51-52 Olds.	5	2MP2031	127		
12B 61 Dodge	15	402 60 Chry.	13			OE4FM 64 Olds.	26	2MT	20		
13BC 61 Chry.	15	403 60 Chry.	13			OE4FM 64 Olds.	26	2TMF (Pg. 71)	18		
13BD 61 Dodge	16	404 61 Chry.	15			OE4FM 64 Olds.	34	2TXX (Pg. 71)	18		
13BS 61 Desoto	16	407 61 Chry.	15			OE65A 65 Olds.	32	2TXXD (Pg. 131)	17		
14BC 61 Chry.	15	409 62 Chry.	18			OE66A 65-66 Olds.	40	2TMY (Pg. 71)	18		
14BI 61 Chry.	15	410 62 Chry.	18			OE67A 67 Olds.	45	3AT	22		
24BC 62 Chry.	18	411 63 Chry.	20			OE7X 57 Olds.	25	4AT	22		
24BI 62 Chry.	18	413 63 Chry.	20			OE80X 60 Olds.	14	5F4R8M4	204		
34BCS 63 Chry.	20	414 64 Chry.	24			OEAG1X 61 Olds.	17	5F4R8M4	204		
34BI 63 Chry.	20	415 64 Chry.	24			OEAG3 63 Olds.	22	5FM216A	223		
44BCS 64 Chry.	24	416 65 Chry.	31			OEAG4 64 Olds.	27	5FM273AX	203		
44BI 64 Chry.	24	416 65 Chry.	31			P718S	116	5FM355A	223		
84BC 58 Chry.	8	417 65 Chry.	31			PC2A6 49-52 Pont.	5	5FM481AX1/4AX1	204		
84BC 58 Chry.	9	417 65 Chry.	31			PC4FM 64 Pont.	26	5FM485AX	226		
95BC 59 Chry.	10	418 67 Chry.	43			PC4FM 64 Pont.	34	SM/-12	5		
101 60 Ply.	13	419 67 Chry.	43			PC65A 65 Pont.	32	6M/-12	6		
102 60 Dodge	13	420 66 Chry.	40			PC66A 66 Pont.	40	6MA 59 Hudson & Nash (Pg. 9)	6		
104 60 Ply.	13	421 67 Chry.	43			PC67A 67 Pont.	45	6MR 56 Amer. Motors (Pg. 5)	6		
106 60 Dodge	14	608 53 Ply.	4			PC70A 70 Pont.	106	7M (Pg. 19)	6		
107 61 Dodge	15	609 53 Dodge	4			PC71A 71 Pont.	106	7M (Model 6M)	6		
109 61 Ply.	15	610T 53 Dodge	4			PC7A7X 57 Pont.	7	7MR 57 Amer. Motors (Pg. 5)	7		
110 60 Ply.	13	611T 54 Dodge (See 610T)	4			PC89X 59 Pont.	10	7M7 70 Tractor	109		
112 60 Desoto	14	612 54 Dodge (See 609)	4			PCAG1X 61 Pont.	15	7SMT 57 Amer. Motors (Pg. 5)	7		
113 61 Ply.	15	613 55 Ply.	5			PCAG2 62 Pont.	20	8M	109		
114 61 Dodge	15	614 55 Dodge	5			PCAG3 63 Pont.	22	8MX	99		
202 62 Dodge	18	620 56 Ply.	7			PCAG4 64 Pont.	24	9AX	10		
202 62 Ply.	18	621 56 Dodge	7			PC3A6 51-53 Packard	5	10AX	15		
204 62 Ply.	17	624 57 Dodge	8			PD69A 69 Pont.	69	10M	13		
205 62 Dodge	17	700 58 Dodge (Rev.)	14			PT67A 67 Pont.	44	10MX	12		
206 64 Dodge	24	701 59 Simca	12			PT69A 69 Pont.	69	10P3598 70 Tractor	109		
214 63 Ply.	19	703 61 Dodge	16			PT70A 70 Pont.	77	11MX	16		
215 63 Dodge	19	705 61 Dodge	16			PT70AD (Sim. to Pg. 43)	69	12AT-1/-2/-3	21		
216 63 Ply.	22	706 64 Dodge	26			R200	19	13MA/MAH 60 Amer. Motors (Pg. 13)	14		
217 63 Dodge	22	706 STBDT 65 (Sim. to Page 64) Dodge	26			SR2A6 50-52 Stude.	5	14MR 61 Amer. Motors (Pg. 13)	15		
218 64 Ply.	24	707 7BDT 67 Dodge	44			SR3A6 50-52 Stude.	5	24MY (See Ford 24ME)	17		
219 64 Dodge	23	819 53 Ply.	4			SR52M6 50-52 Stude.	5	7MDA 57 Hudson & Nash (Pg. 9)	6		
220 64 Ply.	23	820 53 Dodge	4			TF752S	159	93MR 59 Amer. Motors (Pg. 9)	6		
222 65 Ply.	28	821 Desoto	4			TF756S	225	94MF (Pg. 71)	10		
223 65 Dodge	28	824 53 Chry.	4			TF800S	232	94FM (Pg. 71)	10		
225 65 Ply.	28	828 54 Dodge	4			TF852AX	230	94MI 59 Intl. (Pg. 61)	11		
226 65 Dodge	28	829 Desoto	4			TF864AX (Pg. 75)	181	94MI 59 Intl. (Pg. 91)	10		

OLDSMOBILE (CONT.)	VOL.	OLDSMOBILE (CONT.)	VOL.	OLDSMOBILE (CONT.)	VOL.	PANASONIC (CONT.)	VOL.	PLYMOUTH (Also See MoPar)	VOL.	PLYMOUTH (CONT.)	VOL.
03BFM1 70 Olds.	80	51XPBK1 (7933501)	186	7294753 982689 66 Olds	36	CR-81717EU	233	18VD 71 Valiant	94	3501328 (1C1H405,	181
03BFM2 70 1/2 Olds	88	51XPBT1, 51XPBT2		7297564 66 Olds	36	CR-003B	149	(Similar to page 45)	94	5C1H405) 74 Plymouth	181
03BPM1 70 Olds.	73	(7933271) 75 Omega	193	Reverb. Unit	36	CR-119EU	140	2C1H605 76	223	5C1H507) 75 Fury	195
03BT41 70 F-85 & Olds	80	53APB1 (9346723)		7298543 67 Oldsmobile	45	CR-145EU	138	2C1H2602 76	228	5C1H507) 75 Fury	195
03EFM1 70 Toronado	80	75 Cutlass	190	7299563 67 F-85	43	CR-242EU	176	5C1H605 76	223	5C1H507) 75 Fury	195
03EFM2 70 1/2 Toronado	88	53APB2 75 Olds		7299573 67 Toronado	42	CR-501EUA	150	5C1H2602 76	228	5C1H402) 74 Plymouth	180
03EPB1 70 Toronado	73	(See page 93)	190	7299583 67 Toronado	42	CR-514EU	140	244 (8BBA, 9BBA)	61	5C1H429 (1C1H4508,	180
03ET41 70 Toronado	78	53APBK1 (9346733)	190	7300083 67 Toronado	44	CR-515EU	220	68-69 Barracuda	61	5C1H508) 75 Fury	192
03ET412 70 1/2 Toronado	87	75 Cutlass	190	7300093 67 Oldsmobile	44	CR-656EU	167	245 (8BVA, 9BVA)	61	5C1H376	189
13AFM1 (7932753)	105	53APBK2 75 Olds	190	7300103 67 Oldsmobile	42	CR-657EU/658EU	217	68-69 Valiant	61	3501472 76 Fury	228
71 F-85	105	(See Page 93)	190	7300113 67 F-85	46	CR-700EU	139	250 68 Fury	51	3501501 (1PD2208)	135
13APB1 (7932743)	101	53BFM1 (9346763)	190	7300753 67 Toronado	44	CR-701EU	166	251 (8BBE, 9BBC)	61	72 Barracuda	135
71 F-85 & Olds	101	75 Cutlass, Olds,		7301705 67 Oldsmobile	46	CR-714EU	174	68-69 Belvedere	61	3501501 (1PD2312)	135
13AT411 (7932763)	97	Toronado	188	7302023 68 Olds, F-85	50	CR-1515EU	235	384 (8FBPD) 68 Ply	58	73 Barracuda	
71 F-85	97	53BFMT1, 53BFMT2		7302503 67 Toronado	46	CX-131EU	151	388 (8FBCC) 68	58	72 Fury	135
13BFM1 (7930033)	98	(9346783) 85 Cutlass,		7303143 68 Oldsmobile	41	CX-325EU	151	390 68 Fury	55	3501502 (1PF2310)	135
13BFM2 71 Olds,	98	Oldsmobile, Toronado,	193	7303153 68 Oldsmobile	49	CX-326EU	151	398 (8FIBA) 68	55	73 Fury	152
Toronado	98	53BFMT5	219	7303203 68 Oldsmobile	49	CX-351EU	111	Barracuda	58	3501503 (1PD2207)	135
13BFMT1 (7930063)	97	53BP1 (9346743)	190	7303263 68 Toronado	49	CX-375EU	177	399 (8FVA) 68 Valiant	58	72 Satellite	135
71 Olds & Toronado	97	53BFPK1 (9346753)	191	7303253 68 Toronado	49	CX-385EU	221	2864 515 (8BBD, 9BBD)	61	3501506 (1PD1207)	135
13BFMT2 (7930063)	97	75 Cutlass, Oldsmobile,		7305203 68 Oldsmobile	41	CX-475EU	183	68-69 Barracuda (Similar	61	72 Barracuda	131
71 1/2 Olds, Toronado,	101	Toronado	191	7305203 68 Oldsmobile	41	CX-567EU	172	to page 93)	61	3501506 (1PD1313)	131
13BPB2 (7930013) 71	101	53BPB1 (9346703)	191	7305933 68 Olds, F-85	50	CX-568EU	172	2864 527 (8BVA, 9BVA)	61	73 Barracuda	156
Olds & Toronado	101	75 Oldsmobile,		7307313 69, 69 1/2		(Similar to page 95)	172	68-69 Valiant (Similar	61	3501507 (1PD1208)	131
13BPBT1 (7930053)	96	Toronado	190	Oldsmobile	74	CR-601EU	144	to page 93)	61	72 Satellite	131
71 Olds, Toronado	96	53BPB2 75 Olds	190	7307813 69 69 1/2	74	CR-601EU (PCB)	176	2864 756 (8FBPD) 68	61	3501508 (1PF1206)	131
13BPBT2 (7930053)	96	(See Page 93)	190	Toronado	74	CX-675EU	181	Fury (Similar to	58	72 Fury	131
71 1/2 Olds, Toronado,	118	53BPBK1 (9346713)	190	7895851-1 76	229	CX-775SU	99	page 41)	58	3501508 (1PF1312)	131
F-85M1 (7935013) 72	112	75 Oldsmobile,		7933241	217	CR-800EU	148	2864 767 (8BBE, 9BBC)	58	73 Fury	156
2A-FM1 (7935013) 72	112	Toronado	190	7935401	217	CX-830EU	111	68-69 Belvedere (Similar	61	3501521 (1PD2209)	133
2A-FM2 (7935013) 72	112	53BPBK2 75 P,d;s	190	9346783	219	CX-880EU	164	to page 93)	61	72 Fury	133
2A-FM3 (7935013) 72	112	(See Page 93)	190	9347740	221	CX-880EU (PCB)	164	2864 4963 (9B) 68	55	3501521 (2DP2313)	133
2A-FM4 (7935013) 72	112	53BPBT1/2 (9346773)	190	9347740	221	CX-888SU	95	Belvedere, Fury	55	73 Fury	159
2A-FM5 (7935013) 72	112	75 Cutlass, Oldsmobile,		9347980 75-76	220			2884 044 (400) 68	55	3501622 (1PD1506,	159
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2A-FM17 (7935013) 72	112	60HFM4/T2 76	220					2884 101 (CF10103)	88	3501635 (1PD2349)	159
2A-FM18 (7935013) 72	112	60XFM1 76 (Pg.85)	191					70 Fury	51	73 Barracuda	158
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2A-FM40 (7935013) 72	112	93EFM2 (7307813)	74					2884 759 (2P01212)	89	02FFM2 Firebird 70 1/2	79
2A-FM41 (7935013) 72	112	69 1/2 Toronado	74					72 Barracuda	128	02FFM3 70 Firebird	94
2A-FM42 (7935013) 72	112	93EPB1 (7308203)	71					2884 759 (2PD1315)	94	02FFM4 70 Firebird	94
2A-FM43 (7935013) 72	112	69 Toronado	71					73 Barracuda	157	02FFM5 70 Firebird	101
2A-FM44 (7935013) 72	112	93ET411 69 Toronado	69					2884 795 (CF79503)	92	02FFM6/BK2	101
2A-FM45 (7935013) 72	112	93ET412 69 1/2	69					3420558 (1PF2903)	65	70 1/2 Firebird	101
2A-FM46 (7935013) 72	112	93ET413 69	69					69 Fury	65	02FT42 70 Fury	90
2A-FM47 (7935013) 72	112	982029 62	17					94PM See Merc. 94PM	12	02GFM1 Grand Prix 70	79
2A-FM48 (7935013) 72	112	982030 62	18					3501 013 (1BBC)	81	02GFM2, 02GFM3	94
2A-FM49 (7935013) 72	112	982136 63	20					71 Belvedere	104	02GFM4, 02GFM5	94
2A-FM50 (7935013) 72	112	982137 63	20					3501045 71 Barracuda,	104	71 Tempest	106
2A-FM51 (7935013) 72	112	982149 63 F-85	20					Belvedere, Fury,	105	12AFM1 (7307402)	97
2A-FM52 (7935013) 72	112	982212 63	21					Valiant	105	71 Tempest	97
2A-FM53 (7935013) 72	112	982249 64	25					3501059 (CG05903)	105	71 Firebird, Grand Prix,	97
2A-FM54 (7935013) 72	112	982250 64	25					71 Belvedere	105	Tempest	97
2A-FM55 (7935013) 72	112	982251 64	25					3501156 (CG15603)	104	12BFM1 (7930032)	102
2A-FM56 (7935013) 72	112	982252 64 F-85	25					74 Fury	104	12BFM2 71 Pontiac	102
2A-FM57 (7935013) 72	112	982900 53	4					3501231 (1C1H401,	109	12BFM3 (7930022)	102
2A-FM58 (7935013) 72	112	983004 53	4					2C1H401, 5C1H401)	179	12BFM4 (7930012)	102
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12BPB2 (7930012), 12BPB2 (7930202)		22GFP3 (See Page 89)	120	42GPBK3 74 Grand Prix (See Page 85)	175	92FPB1 69 Beaumont, Firebird, Tempest	66	1VW2323 (Sapphire XIX)	154	TC-200PB	23
71 Pontiac	105	22GFPK1, 22GFPK2, 22GFPK3 (7312942)	120	50HPBT1 75	220	92GPM1, 92GPM2	66	1VW2335 (Sapphire XXV)	181	TC-200-PB	32
12BPBT1 (7930242)		72 Grand Prix	120	51APB1 (7935641), 51APB2 (7935621)	187	69 Grand Prix	69	73 914	199	TC-300M, MD 65 Prod.	23
71 Pontiac	101	22GPM1 (7312912)	114	75 Astre	187	92GPM1 (7307432)	69	1VW427 74 911T, 914, 199	193	Similar to page 144	23
71-1/2 Pontiac	117	72 Grand Prix	114	51BPM1, 51BPM2 (7314211) 75 Astre	191	92GPM2 (7307432)	69	1VW401 74 914	193	TC-300M 5-041	36
12BT411 (7934782)		22GPM2 (7307332)	126	51BPM1 (7936011), 51BPM2 (7935301)	186	92GPM3 69 Grand Prix (Similar to page 93)	64	1VW412 (Sapphire XV11)	124	TC-400B 64 VW	23
71 Pontiac	97	22GPM3 (7312912)	126	75 Astre	186	92GPM4 69 Grand Prix (Similar to page 93)	64	71 911, 911T, 914	124	TC-400B 65 Prod.	23
12FPB1 (7313542)		22XT411 (7936232) 72 Ventura II	112	51XPM1 (7935261)	191	92GPM5 69 Grand Prix (Similar to page 93)	64	1VW4309 (Sapphire XXI)	179	Similar to page 144	23
71 Firebird	106	32AFM1 (7935042)	144	51XPM2, 51XPM3 (7935281) 75 Ventura	193	92GPM6 69 1/2	69	73 914	201	TP-803	74
12FPB1 (7313532)		75 Grand Prix, Tempest	144	51XPM4 (7935511)	189	92GPM7 (7307332)	72	74 911, 914	201	TR7-64M	52
71 Firebird	97	32AFM2 73 GP, Tempest	154	75 Ventura II	186	92GPM8 (7307332)	72	1VW4419 (Sapphire XXI)	191	VW-64PB	23
12FPB1 (7313562)		32AFM3 73 GP, Tempest	154	Ventura II	193	92GPM9 69 1/2	69	74 914	191	51T (100007-253)	208
71 Firebird	97	32AFM4 (7935102)	152	52AFM1 (9340452)	190	92GPM10 69 1/2	69	2VW1327 (Sapphire XVIII)	155	53T (Ch.100007-255)	213
12FPBK1 (7313562)		75 Grand Prix, Tempest	152	52AFM2 (9340452)	190	92GPM11 69 1/2	69	73 914	155	54T	220
71-1/2 Firebird	100	32AFM5 (7935102)	148	52AFM3 (9340452)	190	92GPM12 69 1/2	69	5VW1327 73 914	155	77T (Ch.100017-219)	212
12FPBK1 (7313522)		32AFM6 (7935022), 32AFM7 (9340432)	148	52AFM4 (9340452)	190	92GPM13 69 1/2	69	5VW1419 (Sapphire XVII1) 74 914	192	86T	216
71 Firebird	98	32AFM8 (7935032)	148	52AFM5 (9340452)	190	92GPM14 69 1/2	69	5VW2335 (Sapphire XXV)	181	93WPX	217
12FPBK1 (7313552)		75 Grand Prix, Tempest	149	52AFM6 (9340452)	190	92GPM15 69 1/2	69	5VW2427 74 911T, 914, 199	199	100007-151	151
71 Firebird	98	32AFM9 (7935032)	148	52AFM7 (9340452)	190	92GPM16 69 1/2	69	5VW3401 74 914	193	100007-210	233
12FT451 (7930492)		32AFM10 (7935032)	137	52AFM8 (9340452)	190	92GPM17 69 1/2	69	5VW4309 73 914	179		
71 Firebird (Console)	97	32AFM11 (7935032)	137	52AFM9 (9340452)	190	92GPM18 69 1/2	69	5VW4419 (Sapphire XXI)	191		
12GPM1 (7312332)		32AFM12 (7935032)	140	52AFM10 (9340452)	190	92GPM19 69 1/2	69				
71 Grand Prix	106	32AFM13 (7935032)	140	52AFM11 (9340452)	190	92GPM20 69 1/2	69				
12GPM1 (7307432)		32AFM14 (7935032)	140	52AFM12 (9340452)	190	92GPM21 69 1/2	69				
71 Grand Prix	97	32AFM15 (7935032)	140	52AFM13 (9340452)	190	92GPM22 69 1/2	69				
12GPM1 (7307432)		32AFM16 (7935032)	140	52AFM14 (9340452)	190	92GPM23 69 1/2	69				
71-1/2 Grand Prix	120	32AFM17 (7935032)	140	52AFM15 (9340452)	190	92GPM24 69 1/2	69				
12GPM1 (7312942)		32AFM18 (7935032)	140	52AFM16 (9340452)	190	92GPM25 69 1/2	69				
71-1/2 Grand Prix	120	32AFM19 (7935032)	140	52AFM17 (9340452)	190	92GPM26 69 1/2	69				
12GPM1 (7307332)		32AFM20 (7935032)	140	52AFM18 (9340452)	190	92GPM27 69 1/2	69				
71 Grand Prix	98	32AFM21 (7935032)	140	52AFM19 (9340452)	190	92GPM28 69 1/2	69				
12GPM1 (7312912)		32AFM22 (7935032)	140	52AFM20 (9340452)	190	92GPM29 69 1/2	69				
71 Grand Prix	98	32AFM23 (7935032)	140	52AFM21 (9340452)	190	92GPM30 69 1/2	69				
21AFM1 (7935261)		32AFM24 (7935032)	140	52AFM22 (9340452)	190	92GPM31 69 1/2	69				
72 Ventura II	113	32AFM25 (7935032)	140	52AFM23 (9340452)	190	92GPM32 69 1/2	69				
21AFM1 (7935251)		32AFM26 (7935032)	140	52AFM24 (9340452)	190	92GPM33 69 1/2	69				
72 Ventura II	120	32AFM27 (7935032)	140	52AFM25 (9340452)	190	92GPM34 69 1/2	69				
21AFM1 (7935311)		32AFM28 (7935032)	140	52AFM26 (9340452)	190	92GPM35 69 1/2	69				
72 Ventura II	120	32AFM29 (7935032)	140	52AFM27 (9340452)	190	92GPM36 69 1/2	69				
21APB1 (7935241)		32AFM30 (7935032)	140	52AFM28 (9340452)	190	92GPM37 69 1/2	69				
21APBK1 (7935501)		32AFM31 (7935032)	140	52AFM29 (9340452)	190	92GPM38 69 1/2	69				
72 Ventura II	114	32AFM32 (7935032)	140	52AFM30 (9340452)	190	92GPM39 69 1/2	69				
21APB2 (7935241)		32AFM33 (7935032)	140	52AFM31 (9340452)	190	92GPM40 69 1/2	69				
21APBK2 (7935501)		32AFM34 (7935032)	140	52AFM32 (9340452)	190	92GPM41 69 1/2	69				
21XFM1 (7936191)		32AFM35 (7935032)	140	52AFM33 (9340452)	190	92GPM42 69 1/2	69				
72 Ventura II	115	32AFM36 (7935032)	140	52AFM34 (9340452)	190	92GPM43 69 1/2	69				
21XFBT1 (7936181)		32AFM37 (7935032)	140	52AFM35 (9340452)	190	92GPM44 69 1/2	69				
72 Ventura II	117	32AFM38 (7935032)	140	52AFM36 (9340452)	190	92GPM45 69 1/2	69				
22AFM1 (7930542)		32AFM39 (7935032)	140	52AFM37 (9340452)	190	92GPM46 69 1/2	69				
72 Tempest	120	32AFM40 (7935032)	140	52AFM38 (9340452)	190	92GPM47 69 1/2	69				
22AFP1, 22AFP2 (7307402)		32AFM41 (7935032)	140	52AFM39 (9340452)	190	92GPM48 69 1/2	69				
72 Tempest	120	32AFM42 (7935032)	140	52AFM40 (9340452)	190	92GPM49 69 1/2	69				
22AFP3 (See Page 89)	120	32AFM43 (7935032)	140	52AFM41 (9340452)	190	92GPM50 69 1/2	69				
22AFP4, 22AFP5, 22AFP6 (7312922)		32AFM44 (7935032)	140	52AFM42 (9340452)	190	92GPM51 69 1/2	69				
72 Tempest	120	32AFM45 (7935032)	140	52AFM43 (9340452)	190	92GPM52 69 1/2	69				
22APB1 (7307302)		32AFM46 (7935032)	140	52AFM44 (9340452)	190	92GPM53 69 1/2	69				
22APBK1 (7312892)		32AFM47 (7935032)	140	52AFM45 (9340452)	190	92GPM54 69 1/2	69				
72 Tempest	114	32AFM48 (7935032)	140	52AFM46 (9340452)	190	92GPM55 69 1/2	69				
22APB2 (7307302)		32AFM49 (7935032)	140	52AFM47 (9340452)	190	92GPM56 69 1/2	69				
22APBK2 (7312892)		32AFM50 (7935032)	140	52AFM48 (9340452)	190	92GPM57 69 1/2	69				
72 Tempest	126	32AFM51 (7935032)	140	52AFM49 (9340452)	190	92GPM58 69 1/2	69				
22AT411 (7307702)		32AFM52 (7935032)	140	52AFM50 (9340452)	190	92GPM59 69 1/2	69				
72 Firebird, Grand Prix, Tempest	112	32AFM53 (7935032)	140	52AFM51 (9340452)	190	92GPM60 69 1/2	69				
22BFMT1 (7930252)		32AFM54 (7935032)	140	52AFM52 (9340452)	190	92GPM61 69 1/2	69				
72 Pontiac	115	32AFM55 (7935032)	140	52AFM53 (9340452)	190	92GPM62 69 1/2	69				
22BFP1 (7930022)		32AFM56 (7935032)	140	52AFM54 (9340452)	190	92GPM63 69 1/2	69				
72 Pontiac	109	32AFM57 (7935032)	140	52AFM55 (9340452)	190	92GPM64 69 1/2	69				
22BFP2 (7930022)		32AFM58 (7935032)	140	52AFM56 (9340452)	190	92GPM65 69 1/2	69				
22BFP3 (7930212)		32AFM59 (7935032)	140	52AFM57 (9340452)	190	92GPM66 69 1/2	69				
72 Pontiac	109	32AFM60 (7935032)	140	52AFM58 (9340452)	190	92GPM67 69 1/2	69				
22BFP4 (See page 99)	109	32AFM61 (7935032)	140	52AFM59 (9340452)	190	92GPM68 69 1/2	69				
22BFPK1 (7930212)		32AFM62 (7935032)	140	52AFM60 (9340452)	190	92GPM69 69 1/2	69				
72 Pontiac	109	32AFM63 (7935032)	140	52AFM61 (9340452)	190	92GPM70 69 1/2	69				
22BPB1 (7930012)		32AFM64 (7935032)	140	52AFM62 (9340452)	190	92GPM71 69 1/2	69				
72 Pontiac	118	32AFM65 (7935032)	140	52AFM63 (9340452)	190	92GPM72 69 1/2	69				
22BPB2 (7930012)		32AFM66 (7935032)	140	52AFM64 (9340452)	190	92GPM73 69 1/2	69				
72 Pontiac	112	32AFM67 (7935032)	140	52AFM65 (9340452)	190	92GPM74 69 1/2	69				
22BPB2A, 22BPB2B		32AFM68 (7935032)	140	52AFM66 (9340452)	190	92GPM75 69 1/2	69				
72 1/2 Pontiac	138	32AFM69 (7935032)	140	52AFM67 (9340452)	190	92GPM76 69 1/2	69				
22BPBK1 (7930202)		32AFM70 (7935032)	140	52AFM68 (9340452)	190	92GPM77 69 1/2	69				
72 Pontiac	118	32AFM71 (7935032)	140	52AFM69 (9340452)	190	92GPM78 69 1/2	69				
22BPBK2 (7930202)		32AFM72 (7935032)	140	52AFM70 (9340452)	190	92GPM79 69 1/2	69				
72 Pontiac	115	32AFM73 (7935032)	140	52AFM71 (9340452)	190	92GPM80 69 1/2	69				
22BPBK3 (7930202)		32AFM74 (7935032)	140	52AFM72 (9340452)	190	92GPM81 69 1/2	69				
72 Pontiac	122	32AFM75 (7935032)	140	52AFM73 (9340452)	190	92GPM82 69 1/2	69				
22BPBT1 (7930242)		32AFM76 (7935032)	140	52AFM74 (9340452)	190	92GPM83 69 1/2	69				
72 Pontiac	117	32AFM77									

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Corvaire	19	FLH-16663A 60/63 Chev		TC-26G	221	LA-61-PB 61 Lark	17	CII-65PB 65 Chevy II	35	PD-65PB 65 Fury	34
FJB-6608A 61 Lancer	18	6 GMC Trucks	34	TC-30 (Pg.89)	164	LR-61-PB 61 Lancer	17	CII-66PB 66 Chevy II	37	PD-66PB 66 Fury	36
FJB-6609	19	FLH-16665A 64/65 Dodge		TC-30A	164	OF-61-PB 61 Olds	17	CII-67PB 66/67		PD-67PB 67 Fury	46
FJB-6609A	19	Truck	35			OL-61-PB 61 Buick	17	Chevy II	46	PL-63PB 62/63 Plym	26
FJB-6611 60-61		61-16509C	33			PL-60-M 60 Plym.	14	CA-67PB 67 Camaro	46	PL-64PB 64 Plymouth	23
Rambler	22	61-16584A 63 Rambler	26			PL-61-M 61 Plym.	18	CG-67PB 67 Cougar	46	PL-65PB 65 Plymouth	34
FJB-6612 61-6612 62				SOUNDEX		PO-61-PB 61 Pontiac	17	CH-63M/PB 63 Chev	26	PL-66PB 66 Plymouth	36
Chevrolet	18			CEP-764T 64 Chevelle	26	RA-61-PB 61 Rambler	17	CH-64M See page 136		PL-67PB 66/67 Plym.	46
FJB-6612A 61-62 Chev.	19			CHP-164T 64 Chev.	26	VA-60-M 60 Valiant	14	63/64 Chevrolet	23	PO-63PB 63 Pontiac	26
FJB-6613/A 60-61				CHP-165T 65 Chev.	32	VA-61-PB 61 Valiant	18	CII-64PB/RS 63/64 Chev.	23	PO-64PB 63/64 Pontiac	23
Falcon or Comet	18			CHP-166T 66 Chev.	40			CH-65M 65 Chev.	34	PO-65PB 65 Pontiac	35
FJB-6615A	27			CHP-654T 64 ChevyII	26			CH-65PB 65 Chev.	34	PO-65PB/A 65 Pontiac	35
FJB-6618A 61 Rambler	17			COP-60 60 Corvaire	16			CH-66M/PB 66 Chev.	37	W/Air Conditioning	35
FJB-6619/A	21			COP-60 60 Corvaire	16			CH-67PB 67 Chev.	46	PO-67PB 67 Pontiac	46
FJB-6643A 60-62 Comet,				COP-60 60 Corvaire	16			CHT-63M 63 ChevTruck	26	RA-63PB 63 Rambler	26
Falcon	19			COP-006T 66 Corvaire	40			CHT-64M See page 136		RA-64PB 64 Rambler	26
FJB-6649A Tractor	20			CTP-264T 64 Comet	26			64 Chev. Truck	23	RA-65PB 65 Rambler	32
FJB-6658	21			CTP-266T 66 Comet	39			CHT-65M 65 ChevTruck	35	RA-66PB 66 Rambler	32
FJB-6679A	10			CTP-166T 66	40			CHT-66PB 65 Chevrolet	35	Ambassador	37
FJB-6681A 59 Plym.	10			Chevrolet Truck	40			Truck	37	RA-67PB 67 Rambler	46
FJB-6682A, B				48H 64	30			CHT-66M/PB 66 Chevrolet	37	RU-101T	24
FJB-6684 59 Plym.	11			CYP-465T 65 Chrysler	32			Truck	37	RU-11TC 5-004	40
FJB-6686A 59 Plym.	12			CYP-466T 66 Chrysler	39			CHT-67M, PB 67 Chev.	46	RU-11TC 5-014	40
FJB-6687 59 Ford	11			CYP-565T 65 Chrysler	39			Truck	46	RU-11TC 5-016	40
FJB-6688 59 Chev.	11			DAP-864T 64 Dart	26			Truck	46	RU-11TC 5-018	40
FJB-6689A 59 Plym.	12			DAP-865T 65 Dart	32			Truck	46	RU-11TC 5-019	40
FJB-6690A 59 Buick	13			DAP-866T 66 Dart	39			Truck	46	RU-11TC 5-020	40
FJB-6691B Renault	12			DOP-864T 64 Dodge	26			Truck	46	RU-11TC 5-021	40
Dauphine	12			DOP-865T 65 Dodge	32			Truck	46	RU-11TC 5-022	40
FJB-6693B Renault	12			DOPP-465T 65 Polara	39			Truck	46	RU-11TC 5-023	40
Dauphine	12			DOPP-466T 66 Polara	39			Truck	46	RU-11TC 5-024	40
FJB-16590C	33			DPO-866T 66 Dodge	39			Truck	46	RU-11TC 5-025	40
FJB-16512A 64 VW	28			DAP-264T 64 Falcon	26			Truck	46	RU-11TC 5-026	40
FJB-16513A 64 VW	28			FAP-266T 66 Falcon	26			Truck	46	RU-11TC 5-027	40
FJB-16520A 63				FLP-264T 64 Fairlane	26			Truck	46	RU-11TC 5-028	40
Chrysler	23			FOP-264T 64 Ford	26			Truck	46	RU-11TC 5-029	40
FJB-16521A 63 Chev.	23			FOP-265T 65 Ford	32			Truck	46	RU-11TC 5-030	40
FJB-16522A 63 Dodge	23			FOP-266T 66 Ford	39			Truck	46	RU-11TC 5-031	40
FJB-16523A 63 Ford	23			MEP-264T 63/64 Merc.	26			Truck	46	RU-11TC 5-032	40
FJB-16524A 63 Merc.	23			MEP-265T 65 Merc.	32			Truck	46	RU-11TC 5-033	40
FJB-16525A 63 Olds.	23			MEP-266T 66 Merc.	39			Truck	46	RU-11TC 5-034	40
FJB-16526A 63 Plym.	23			MUP-266T 66 Mustang	39			Truck	46	RU-11TC 5-035	40
FJB-16527A 63				PLP-464T 64 Plym.	26			Truck	46	RU-11TC 5-036	40
Pontiac	23			PLP-465T 65 Plym.	32			Truck	46	RU-11TC 5-037	40
FJB-16563A	32			PLP-466T 66 Plym.	39			Truck	46	RU-11TC 5-038	40
FJB-16566A	20			PLP-466T 66 Plym.	39			Truck	46	RU-11TC 5-039	40
FJB-16567A	21			POP-666T 66 Pontiac	40			Truck	46	RU-11TC 5-040	40
FJB-16569A	28			RAAP-1065T 65				Truck	46	RU-11TC 5-041	40
FJB-16574A 63 Buick	23			Rambler American	32			Truck	46	RU-11TC 5-042	40
FJB-16576A 63				RAP-364T	27			Truck	46	RU-11TC 5-043	40
Corvaire	23			RAP-366T	39			Truck	46	RU-11TC 5-044	40
FJB-16577A 63 Dart	22			SM-150RPE	27			Truck	46	RU-11TC 5-045	40
FJB-16578A 63 Ford	23			STP-059 59 Lark	16			Truck	46	RU-11TC 5-046	40
FJB-16579A 63 Falcon	23			STP-059 59 Lark	16			Truck	46	RU-11TC 5-047	40
FJB-16580A 63 F-85	23			UN-120RPT	39			Truck	46	RU-11TC 5-048	40
FJB-16581A 63 Merc.	23			UN-220RPT	27			Truck	46	RU-11TC 5-049	40
FJB-16582A 62-63				VAP-464T 64 Valiant	26			Truck	46	RU-11TC 5-050	40
Plymouth	23			VAP-465T 65 Valiant	32			Truck	46	RU-11TC 5-051	40
FJB-16583A 63Tempest.	23			VAP-466T 66 Valiant	39			Truck	46	RU-11TC 5-052	40
FJB-16584A 63Rambler.	26			Vkp-19T	27			Truck	46	RU-11TC 5-053	40
FJB-16585A 63 Chev.	23			VMP-19T 65 Prod.	33			Truck	46	RU-11TC 5-054	40
FJB-16586A 63Corvaire.	23			VMP-19T 66 Prod.	41			Truck	46	RU-11TC 5-055	40
FJB-16587A 63 Falcon.	23			4TBR V-350 64	26			Truck	46	RU-11TC 5-056	40
FJB-16588A 63 Ford.	23			Triumph	26			Truck	46	RU-11TC 5-057	40
FJB-16589A	23							Truck	46	RU-11TC 5-058	40
FJB-16607A	32							Truck	46	RU-11TC 5-059	40
FLH-16518A 64-65 Chev.	35							Truck	46	RU-11TC 5-060	40
GMC Truck	35							Truck	46	RU-11TC 5-061	40
FLH-16519A 60-64 Dodge	34							Truck	46	RU-11TC 5-062	40
880	34							Truck	46	RU-11TC 5-063	40
FLH-16528A 63/64Chev.	34							Truck	46	RU-11TC 5-064	40
FLH-16529A 65 Chev.	35							Truck	46	RU-11TC 5-065	40
FLH-16530A 60-64								Truck	46	RU-11TC 5-066	40
Corvaire	34							Truck	46	RU-11TC 5-067	40
FLH-16531A 65Corvaire.	35							Truck	46	RU-11TC 5-068	40
FLH-16533A 62-65								Truck	46	RU-11TC 5-069	40
Chevy II	35							Truck	46	RU-11TC 5-070	40
FLH-16534A 64								Truck	46	RU-11TC 5-071	40
Chevelle	34							Truck	46	RU-11TC 5-072	40
FLH-16535A 65								Truck	46	RU-11TC 5-073	40
Chevelle	35							Truck	46	RU-11TC 5-074	40
FLH-16536A 63-64								Truck	46	RU-11TC 5-075	40
Galaxie	34							Truck	46	RU-11TC 5-076	40
FLH-16537A 65Galaxie.	35							Truck	46	RU-11TC 5-077	40
FLH-16538A 64								Truck	46	RU-11TC 5-078	40
Fairlane	34							Truck	46	RU-11TC 5-079	40
FLH-16539A 65								Truck	46	RU-11TC 5-080	40
Fairlane 500	35							Truck	46	RU-11TC 5-081	40
FLH-16541A 64/65								Truck	46	RU-11TC 5-082	40
Falcon, 64 Comet	35							Truck	46	RU-11TC 5-083	40
FLH-16543A 65 Comet	35							Truck	46	RU-11TC 5-084	40
FLH-16544A 63/64Merc.	35							Truck	46	RU-11TC 5-085	40
FLH-16545A 65 Merc.	35							Truck	46	RU-11TC 5-086	40
FLH-16546A 63/64								Truck	46	RU-11TC 5-087	40
Ambassador, Classic	34							Truck	46	RU-11TC 5-088	40
FLH-16547A 65								Truck	46	RU-11TC 5-089	40
Ambassador, Classic	34							Truck	46	RU-11TC 5-090	40
FLH-16549A 64 Plym.	34							Truck	46	RU-11TC 5-091	40
FLH-16550A 65								Truck	46	RU-11TC 5-092	40
Belvedere	39							Truck	46	RU-11TC 5-093	40
FLH-16551A 65 Fury	39							Truck	46	RU-11TC 5-094	40
FLH-16552A 64Valiant.	39							Truck	46	RU-11TC 5-095	40
FLH-16553A 65Valiant.	39							Truck	46	RU-11TC 5-096	40
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FLH-16555A 65Coronet.	39							Truck	46	RU-11TC 5-098	40
FLH-16556A 64 Dart	34							Truck	46	RU-11TC 5-099	40
FLH-16557A 65 Dart	39							Truck	46	RU-11TC 5-100	40
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CR-652BTR (86011-20200) Corona	180	D4425B	5	4DC7510	214	1VM3401 74 Custom		5VM4309 (Sapphire XXI)		9FBV0 60 Volvo	
CR-652FUT (00852-20250) Corona	180	D4426A	5	4DC7606	217	Beetle, Dasher, Karmann		73 Karmann Ghia,		9FBVOC 69 Coupe 140,	
CR-652T (86120-20150) Corona	180	D4623A	7	4DX7140	136	Ghia, Super Beetle,		Volkswagen	179	9FBVOD 69 Coupe P1800.112	
CR-753.FUTA (00852-20270) Corona	180	D4624A	7	25-5564-2	234	Sedan 412, Transporter.193		5VM4419 (Sapphire XXI)		279956 (88V0) 68	
CR-753.TA (86120-20190) Corona	180	D4625A	7	VALIANT (See MoPar)		1VM112 (Sapphire XVII)		75 Custom Beetle,		Model 144 (Similar to	
CR-754.FUTA (00852-20280) Corona	180	D4726A	7	VAUXHALL		71 All Models	124	Dasher, Karmann Ghia,		page 109)	67
CR-755.T	214	D4826A	7			1VM3309 (Sapphire XXI)		Super Beetle, Trans-		279958 (88V0) 68	
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CX-176FUT/.T	214	DC4050C	136			Volkswagen	179	68V6 Karmann		page 109)	67
CX-361.T (86260-20020)	208	DC4051	167			1VM4412, 5VM4412		Ghia	37	279959 (88V0) Similar	
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CX-363FUT (86021-21030) Van	180	DC4055	76			Transporter	201	68V3 66 Type 3		Universal (Similar to	
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SS-90A	41	DC4060C	160			75 Custom Beetle,		68V6 66 Karmann			
TO-71-FM	135	DC4200	18			Dasher, Karmann Ghia,		Dasher, Karmann Ghia,	40		
TO-71-HPX		DC4203	26			Super Beetle, Trans-		68V7 66 Transporter	40		
73 Corolla, Corona	156	DC4203B	31			porter, 412	191	68V8 66 Sedan	40		
TO-71-PB Corolla/		DC4203C	35			2B6	102	68V3 Type 3	40		
Corolla	135	DC4205B	18			2B7 62 Transporter	102	68V6 66 Karmann			
08600-20010 Corona	41	DC4206B	18			2B8 62 Sedan	102	Ghia	39		
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