

# SAMS PHOTOFACT<sup>®</sup>

## AUTO RADIO SERIES



AR-266

# 266

SEPTEMBER, 1978



### CONTENTS

CHRYSLER	4048076, 4048077
FORD/LINCOLN	D8DF-19A198AA, AB
JIL	871
PLYMOUTH	AR-1730CE, AR-1730CR-B



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

World Radio History





# SAMS PHOTOFACT<sup>®</sup>

## AUTO RADIO SERIES



VOLUME

**266**



by the *Howard W. Sams* ENGINEERING STAFF



**HOWARD W. SAMS & CO., INC.**  
INDIANAPOLIS INDIANA

**FIRST EDITION  
FIRST PRINTING—SEPTEMBER, 1978**

**PHOTOFACT®  
AUTO RADIO SERIES  
VOLUME 266**

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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.



For Supplier Address See PHOTOFACT Index

## NOTE

Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.

(Refer to FCC Rules and Regulations Part 95, Subpart C & D.)

The frequency of the transmitter should be checked periodically with a secondary frequency standard to insure proper and legal operation.

Best results will be obtained when adjusting the final RF output circuit if the antenna normally used is connected and the chassis is as nearly in the cabinet as possible.

Connect either 50-ohm dummy load or the normally used antenna system.



MODEL 4048077

## MANUFACTURER'S SPECIFICATIONS

### CB RADIO SPECIFICATIONS <sup>(1)</sup>

- Radio
  - Frequency Range: AM 535-1610 KHz  
FM 88-108 MHz
  - Intermediate Frequency: AM 455 KHz  
FM 10.7 MHz
  - Sensitivity: AM 11 uV Min.  
FM 6 uV
  - Stereo Separation: 25 dB (at 400 Hz)
- Common
  - Power Supply Voltage: 12 VDC (11-16V), Negative Ground
  - Power Consumption:
    - Radio AM: Approximately 8.3W
    - Radio AM/FM-MX: Approximately 8.3W
    - CB Transceiver: Approximately 11.0W
  - Audio Power Output: Greater than 4.0 Watts per channel for distortion less than 10%.
  - Speaker Impedance: 1.6-3.2 Ohms
- CB Receiver
  - Channels: 40
  - Frequency Range: 26.965 - 27.405 MHz
  - Intermediate Frequency: 1st (10.595 MHz)  
2nd (455 KHz)
  - Sensitivity: .7 uV input to produce at least 2 Watts audio output at 10 db S/N ratio or better
  - Adjacent Channel Rejection: 40 dB for less than 6 dB reduction in SINAD ratio.
  - Squelch Sensitivity (Full CW): 200 uV to 631 uV
  - AGC: 94 dB (output  $\pm$  2 db for inputs of 10 uV to 0.5 volts)

### CB RADIO SPECIFICATIONS <sup>(1)</sup> (continued)

- CB Transmitter
  - Channels: 40
  - Frequency Range: 26.965 - 27.405 MHz
  - Frequency Tolerance:  $\pm$  0.005%
  - RF Output Power: 4W (Maximum)
  - Modulation Capability: 80-100%
  - Spurious Suppression: -60 dB or more
  - Antenna Impedance: 50 Ohms

CHRYSLER MODEL 4048076

Courtesy of the Manufacturer

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

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## ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment. Maintain line voltage at 120V AC. Allow a 15-minute warm-up period. Adjustments made with 13.80-volt DC input. Connect low sides of test equipment to ground unless specified otherwise. Connect 50-ohm dummy load or antenna before keying transmitter.

Suggested Alignment Tools: GC ELECTRONICS:  
 C974 ..... 8276, 5000  
 L204, L206 ..... 9091, 8728A, 8728  
 T201, T202, T203, T301 thru T304, T906,  
 T907, T908, IFT301 thru IFT305 ..... 5009, 8728A, 8728

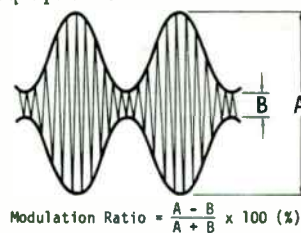


FIGURE 1

## SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter thru 5pF to TP10 (IC901 Pin 3).	Ch. 19	C974	Adjust for 10.240MHz.
Input of DC meter to TP1 (Junction of R967 & R968).	Ch. 19	T906	Adjust for 3.20 volts.
Input of oscilloscope to TP2 (Junction of T908 & R985).	Ch. 19	T907, T908	Adjust for Maximum.
Input of frequency counter to TP2 (Junction of T908 & R985).	Ch. 1		Check for 16.370MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP11 (IC901 Pin 2).	Ch. 1		Check for 1.010MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP12 (TR305 Base).	Ch. 19		Check for 10.140MHz.
Input of frequency counter thru 5pF to TP13 (TR207 Emitter).	Ch. 19, XMT		Check for 10.595MHz.
Input of frequency counter to antenna jack.	Ch. 19, XMT	C974	Check for 27.185MHz. If necessary readjust C974 for 27.185MHz.

## RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil. Adjust volume control to obtain a suitable indication. Set generator output low enough to prevent AGC limiting. Squelch MINIMUM, NB Off.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP12 (TR305 Base). 455kHz, 1000Hz @ 30% modulation.	Ch. 19	IFT305, IFT304, IFT303	Adjust for Maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	IFT302, IFT301, T303, T302, T301	Adjust for Maximum output. If necessary readjust IFT303, IFT304, IFT305.
Inject a 100pps, pulse width 1uSec signal at antenna jack. Input of oscilloscope to TP3 (TR310 Collector).	Ch. 19 NB On	T304	Adjust for Maximum.



## RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.  
Adjust volume control to obtain a suitable indication.  
Squelch MINIMUM, NB Off.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.185MHz,1000Hz @ 30% modulation. Output 500uV.	Ch. 19	VR302	AGC Adjust volume for 0db. Decrease generator output to 1uV. Adjust VR302 for 10db drop in audio.
Output of signal generator thru .01uF to antenna jack. 27.185MHz,1000Hz @ 30% modulation. Output 500uV.	Ch. 19 Squelch Maximum	VR303	SQUELCH RANGE Adjust so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz,1000Hz @ 30% modulation. Output 100uV.	Ch. 19	VR301	S METER Adjust for 9 on s scale of meter.
Output of signal generator thru .01uF to antenna jack. 27.185MHz,1000Hz @ 30% modulation. Output 1uV. Input of AC VTVM to TP14 (CN301 Pin 1).	Ch. 19	VR305	AUDIO GAIN Adjust for 90mV audio.

## TRANSMITTER ALIGNMENT

Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.  
NOTE: Be sure to check transmit frequency and power on all active channels after alignment of transmitter.  
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
	Ch. 19	T203,T202, T201,L206, L204,VR203	Adjust for Maximum.
	Ch. 19	VR202	Adjust for 3.8 watts.

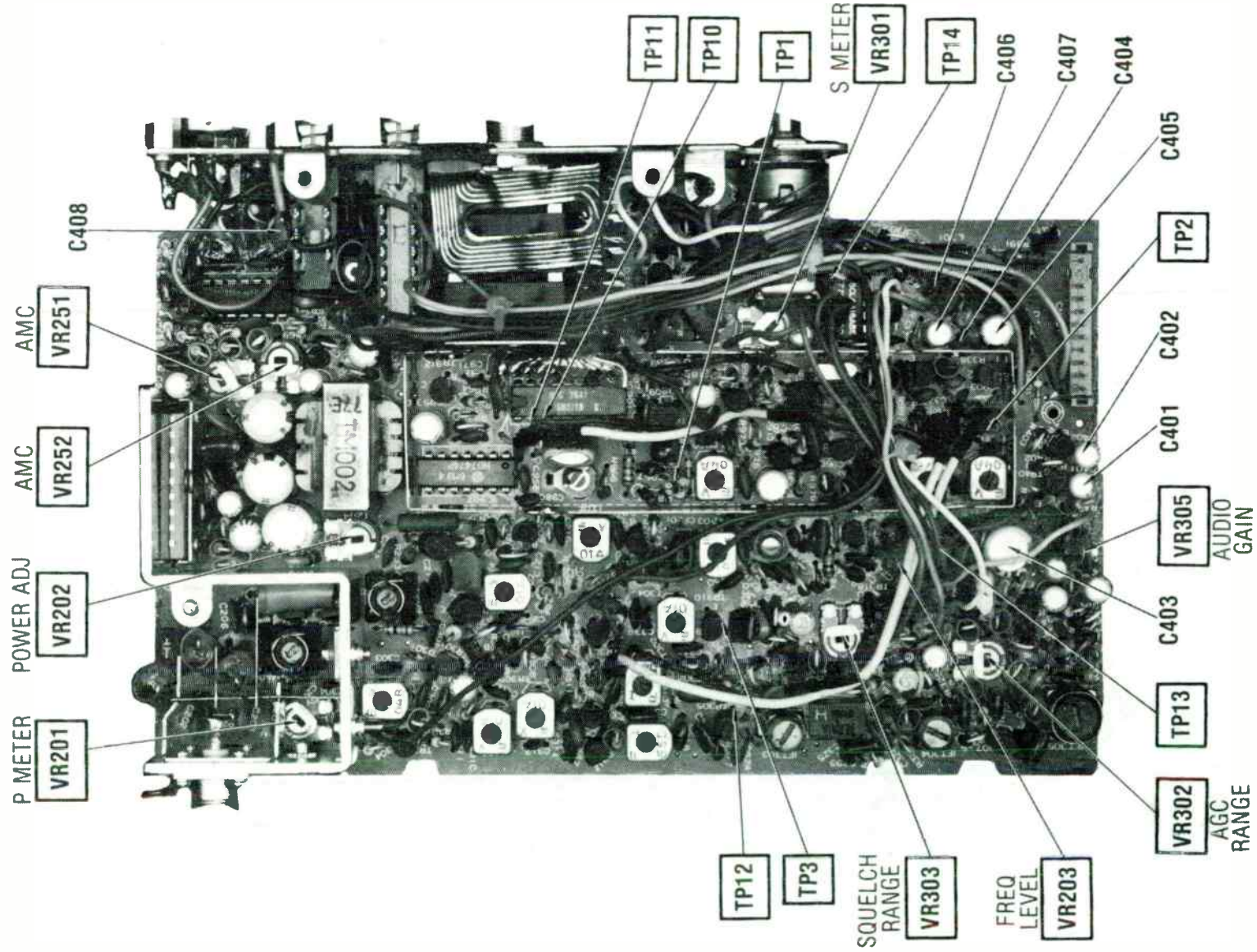
## TRANSMITTER ADJUSTMENTS

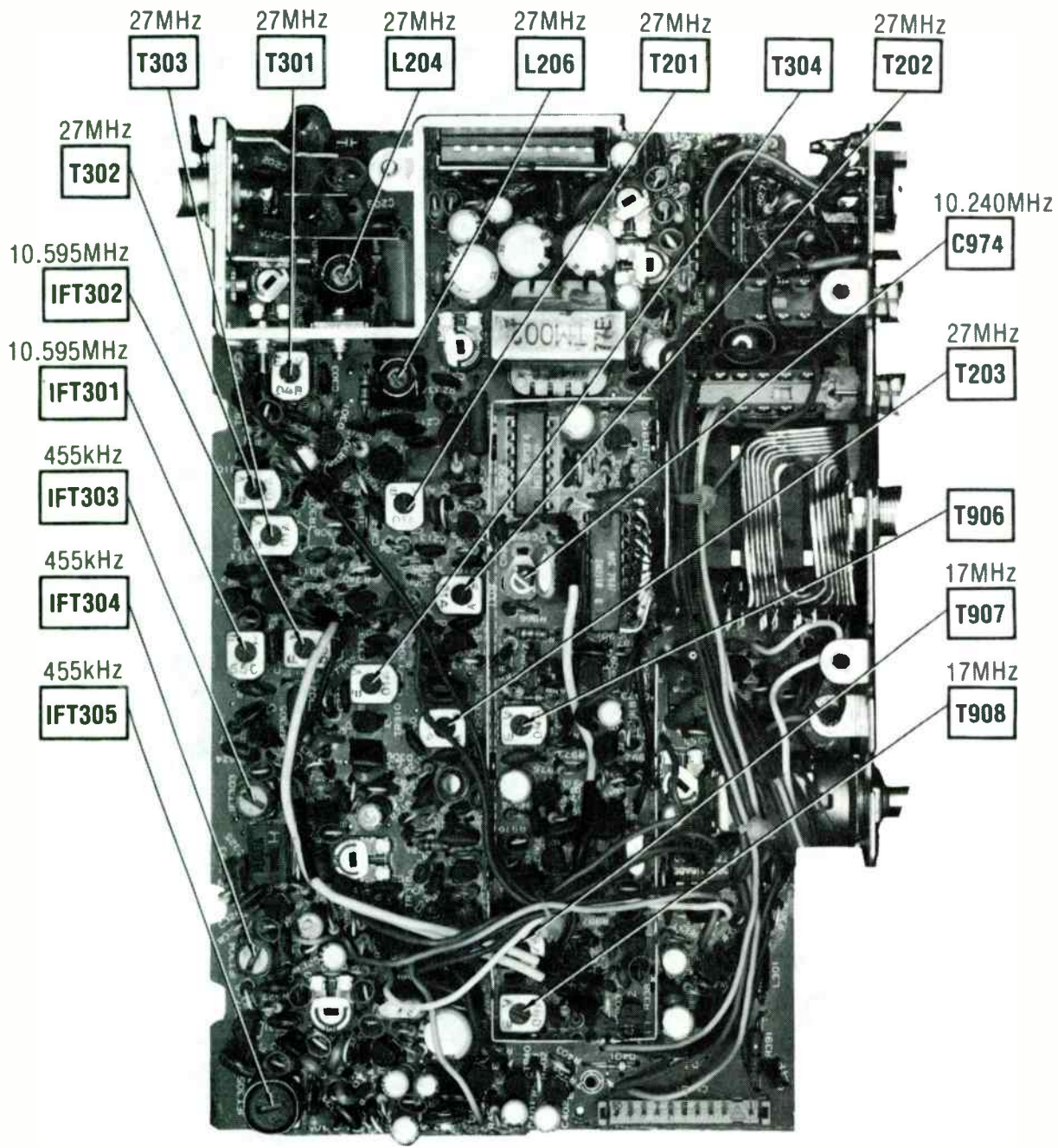
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.  
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.  
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope or modulation meter to antenna jack. Inject a 1000Hz, 70mV signal at Mic input.	Ch. 19	VR251,VR252	AMC Adjust VR252 for maximum modulation. Adjust VR251 for 100% modulation maximum. See Figure 1.
Connect an RF wattmeter and 50-ohm 25-watt dummy load to antenna jack.	Ch. 19	VR201	P METER Adjust VR201 so that P meter agrees with RF wattmeter.

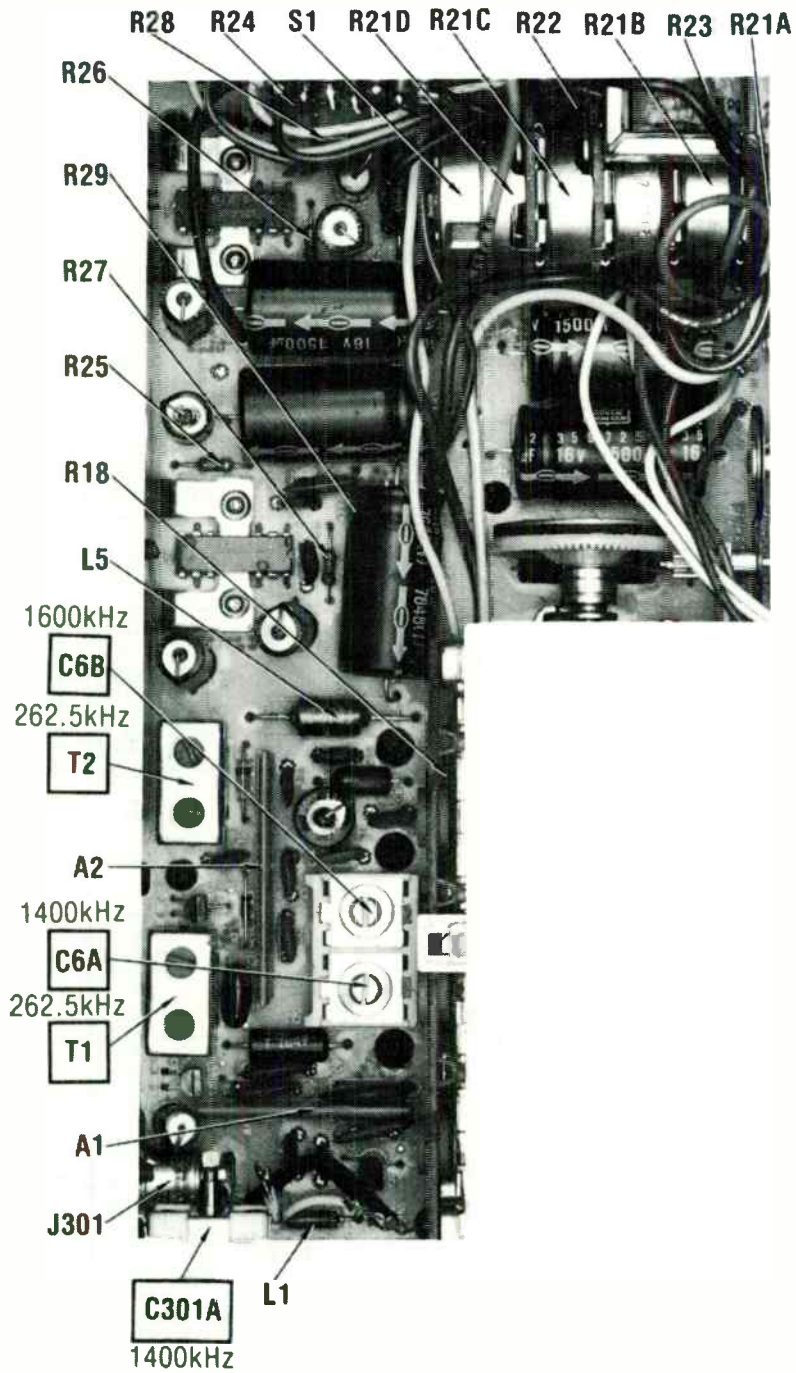
# TRUTH CHART

CHANNEL	1 = 5.00 Volts      0 = 0 Volts							REC & XMT SYNTHESIZER OUTPUT IN MHz AT TP2 (Junction T908 & R895)	DIVIDER INPUT VCO OUTPUT IN MHz AT TP11 (IC901, PIN 2)
	IC901 PROGRAM DIVIDER								
	PINS								
	11	12	13	14	15	16	17		
1	1	0	0	1	0	1		16.370	1.010
2	1	0	0	1	1	0		16.380	1.020
3	1	0	0	1	1	1		16.390	1.030
4	1	0	1	0	0	1		16.410	1.050
5	1	0	1	0	1	0		16.420	1.060
6	1	0	1	0	1	1		16.430	1.070
7	1	0	1	1	0	0		16.440	1.080
8	1	0	1	1	1	0		16.460	1.100
9	1	0	1	1	1	1		16.470	1.110
10	1	1	0	0	0	0		16.480	1.120
11	1	1	0	0	0	1		16.490	1.130
12	1	1	0	0	1	1		16.510	1.150
13	1	1	0	1	0	0		16.520	1.160
14	1	1	0	1	0	1		16.530	1.170
15	1	1	0	1	1	0		16.540	1.180
16	1	1	1	0	0	0		16.560	1.200
17	1	1	1	0	0	1		16.570	1.210
18	1	1	1	0	1	0		16.580	1.220
19	1	1	1	0	1	1		16.590	1.230
20	1	1	1	1	0	1		16.610	1.250
21	1	1	1	1	1	0		16.620	1.260
22	1	1	1	1	1	1		16.630	1.270
23	0	0	0	0	1	0		16.660	1.300
24	0	0	0	0	0	0		16.640	1.280
25	0	0	0	0	0	1		16.650	1.290
26	0	0	0	0	1	1		16.670	1.310
27	0	0	0	1	0	0		16.680	1.320
28	0	0	0	1	0	1		16.690	1.330
29	0	0	0	1	1	0		16.700	1.340
30	0	0	0	1	1	1		16.710	1.350
31	0	0	1	0	0	0		16.720	1.360
32	0	0	1	0	0	1		16.730	1.370
33	0	0	1	0	1	0		16.740	1.380
34	0	0	1	0	1	1		16.750	1.390
35	0	0	1	1	0	0		16.760	1.400
36	0	0	1	1	0	1		16.770	1.410
37	0	0	1	1	1	0		16.780	1.420
38	0	0	1	1	1	1		16.790	1.430
39	0	1	0	0	0	0		16.800	1.440
40	0	1	0	0	0	1		16.810	1.450





CB BOARD



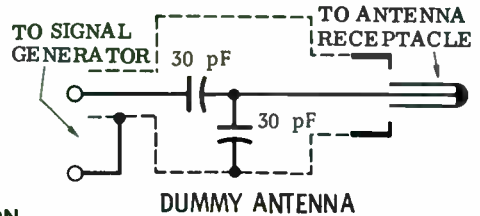
AM-AUDIO BOARD

## ALIGNMENT INSTRUCTIONS

<p>Check for specified source voltage.          Connect low sides of generator and indicator to ground unless specified otherwise.          Use only enough generator output to provide a usable indication.          Suggested Alignment Tools:</p>	<p>GC ELECTRONICS:          T1, T2, T103 ..... 5009, 8728A, 8728          C6, C301, C102, C108, C115 ..... 5000, 8276          T101, T102 ..... 9440</p>	<p><b>PUSH-BUTTON ADJUSTMENT</b></p> <ol style="list-style-type: none"> <li>1. Pull button out.</li> <li>2. Tune manually to desired station.</li> <li>3. Press button in firmly.</li> <li>4. Repeat for remaining buttons.</li> </ol>
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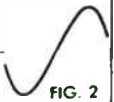
### AM ALIGNMENT—SELECTOR IN AM POSITION FM Board must be removed to gain access to AM IF Coils.

Connect output meter across speaker voice coil.				
GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	ADJUST	REMARKS
High side thru .1uF to antenna	262.5kHz 400-Hz mod.	High freq end stop	T2 T1	Adjust for maximum.
Thru dummy antenna to antenna input.	600kHz	600kHz	L4	"
Thru dummy antenna to antenna input.	1600kHz	1600kHz	C6B	"
Thru dummy antenna to antenna input.	1400kHz	1400kHz	C6A, C301 L3, L2	Adjust for maximum. Repeat alignment until no further improvement is noted.
<p>With radio installed in car and antenna extended 36", tune in a weak station near 1400kHz and adjust C301 for maximum output. Antenna adjustment is located right side of radio at rear.</p>				



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

<p>High side of generator thru .001uF to TP17 (Q102, G2).          Use 60-hertz, frequency-modulated signal, 450kHz sweep.          Use 60-hertz sawtooth voltage in scope for horizontal deflection.</p>				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
"	"	Vert input of scope to TP15	T102 T101	Adjust T101 & T102 for maximum amplitude and straightness of line, similar to Fig. 2.

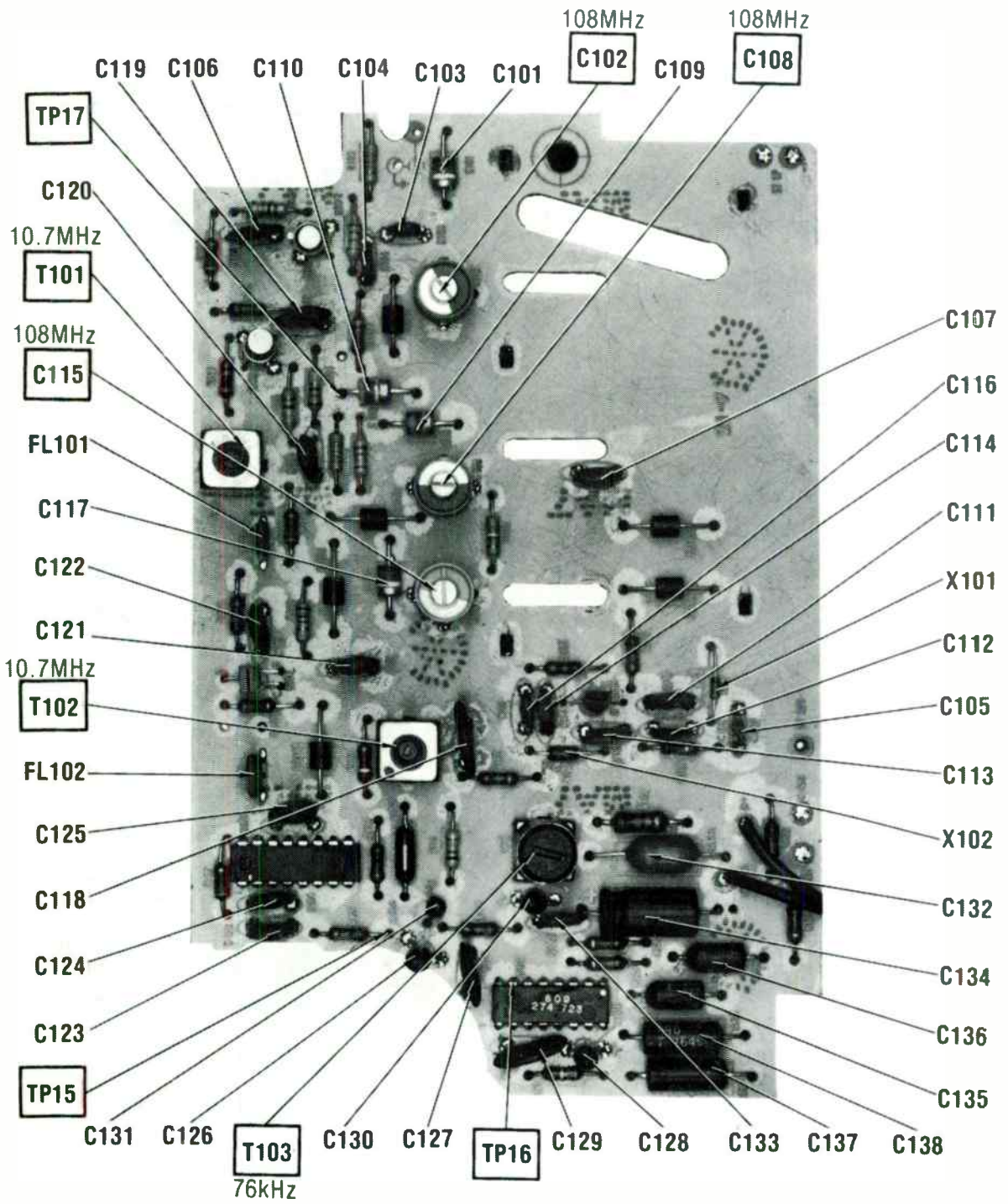


### FM RF ALIGNMENT—SELECTOR IN FM POSITION

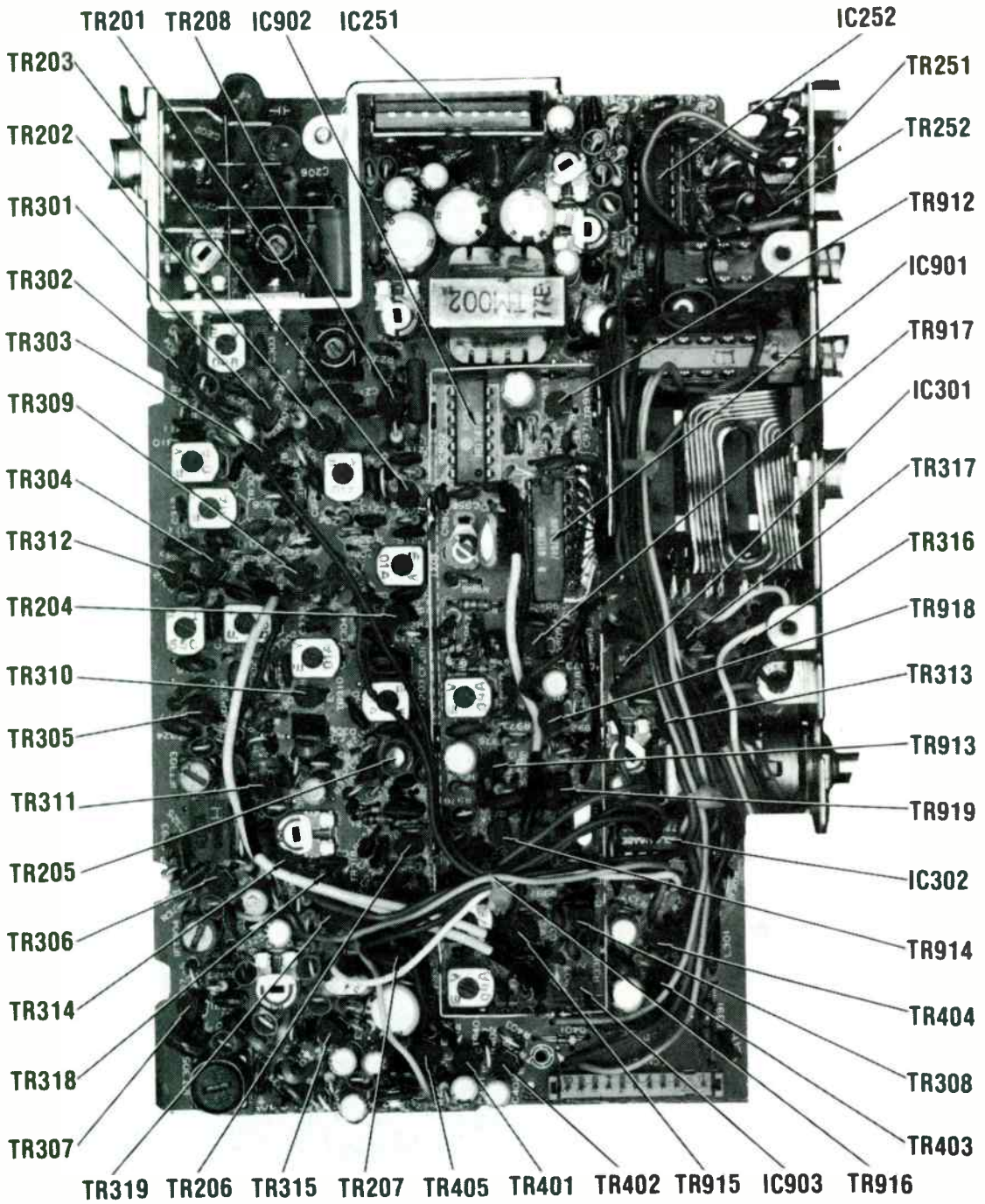
<p>Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead.          Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.</p>				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
88MHz Modulated	88MHz	AC probe of VTVM to voice coil	L103, L102, L101	Adjust for maximum.
108MHz Modulated	108MHz	"	C115, C108, C102	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

### FM STEREO ALIGNMENT

Connect a jumper from TP15 (junction of R125 and C126) to ground.			
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
	Input of frequency counter to TP16 (IC102 Pin 10).	T103	Adjust for 76kHz $\pm$ 20Hz.

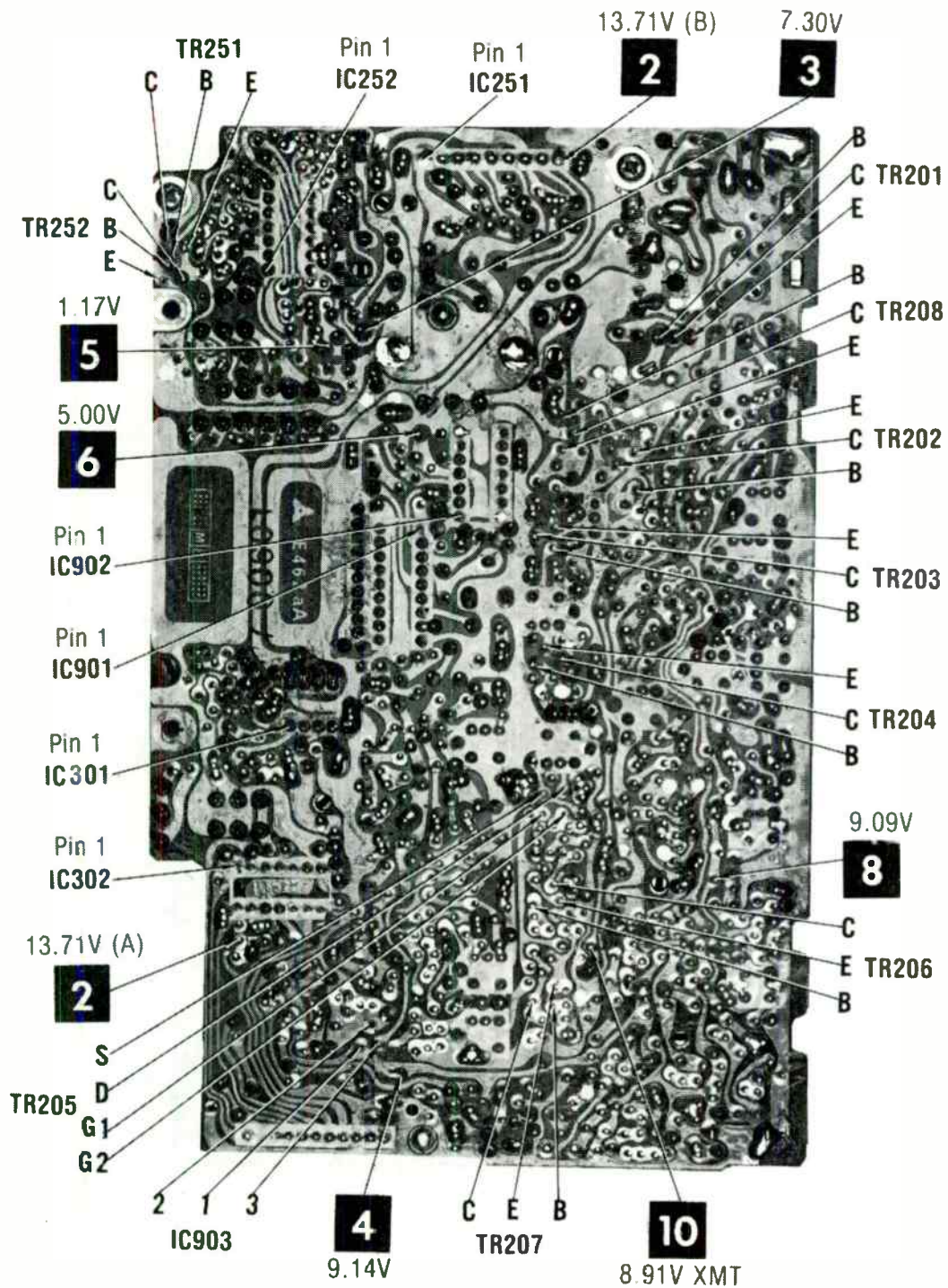


FM BOARD



**CB BOARD**

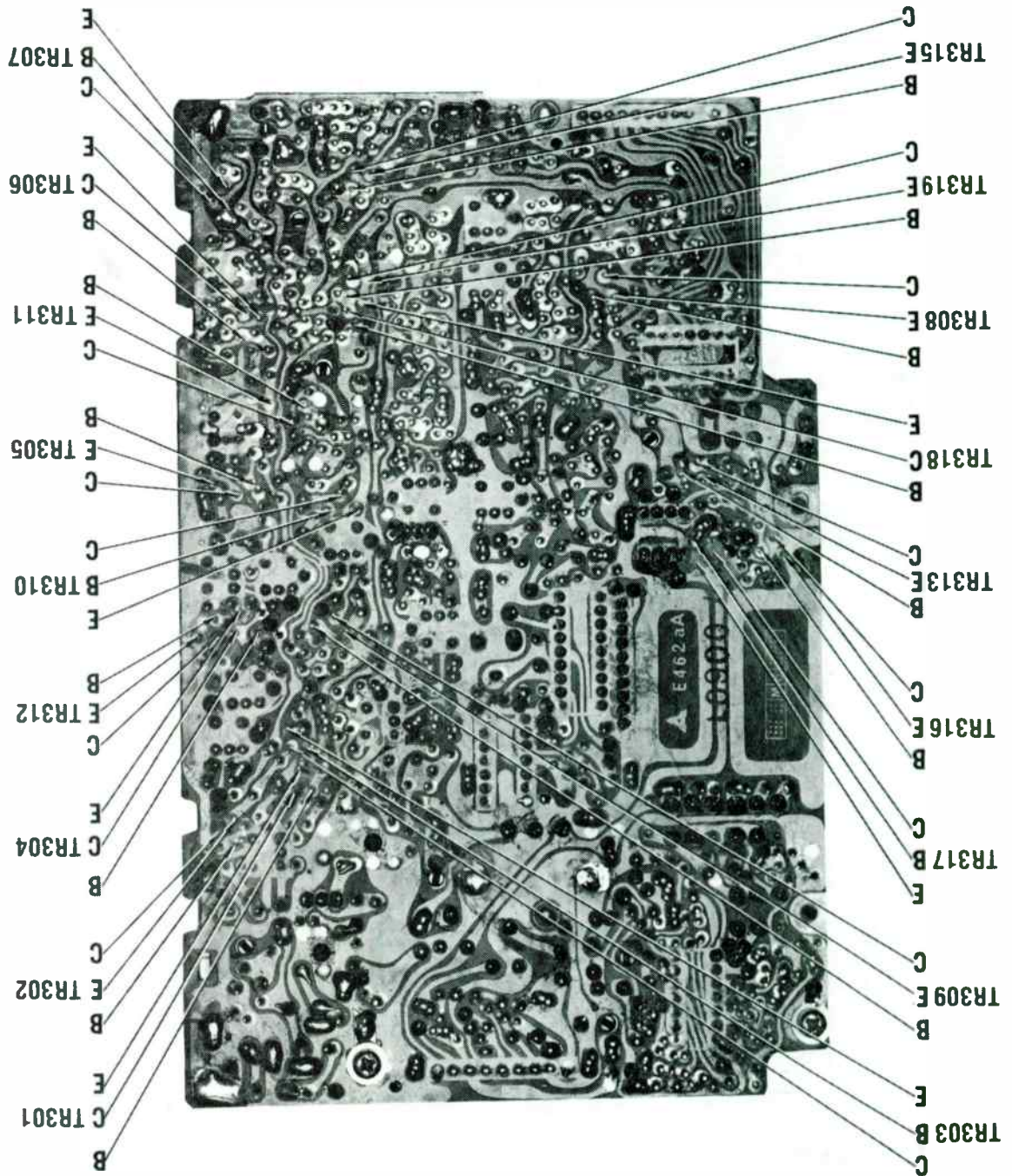


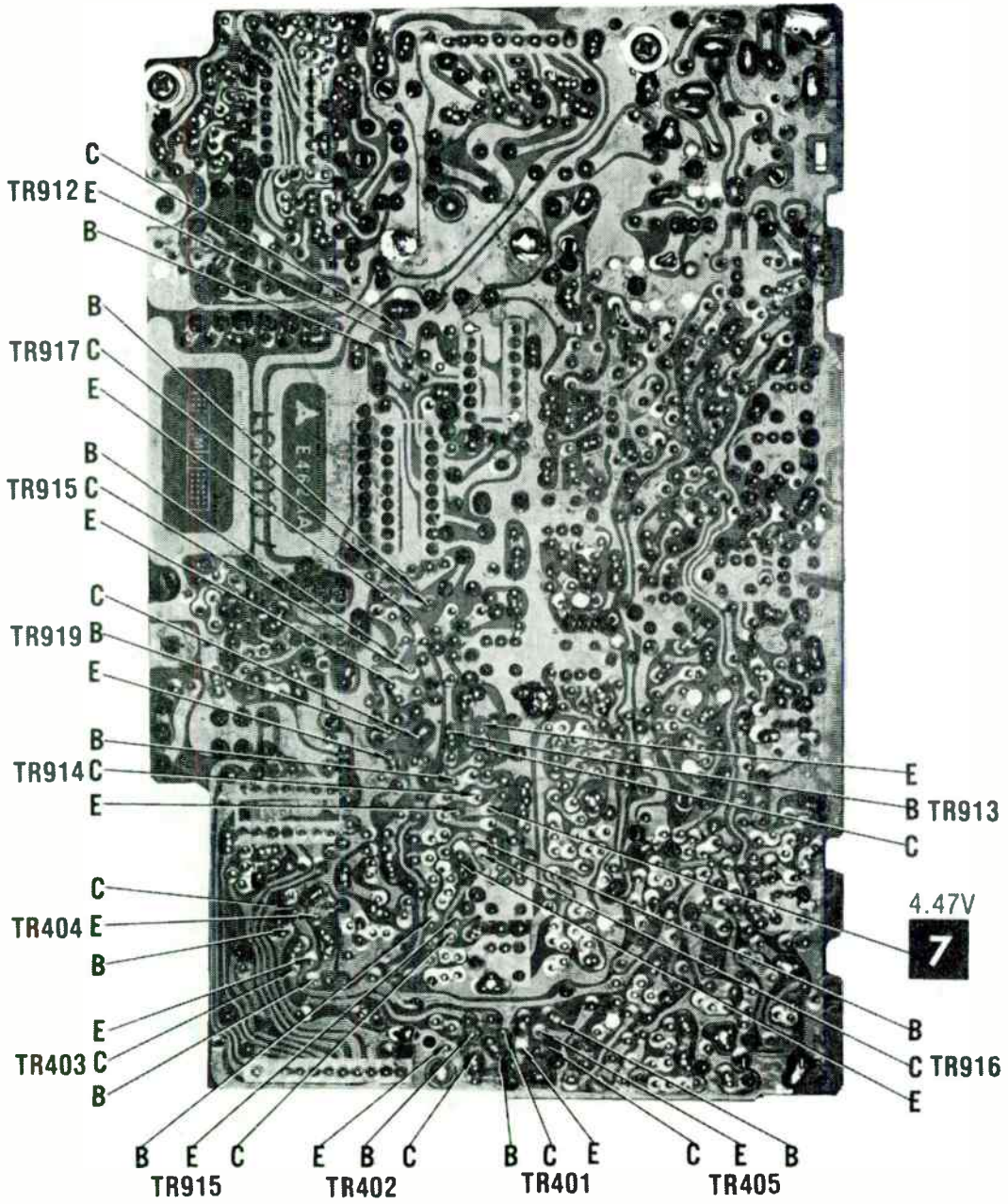


CHRYSLER MODEL 4048076

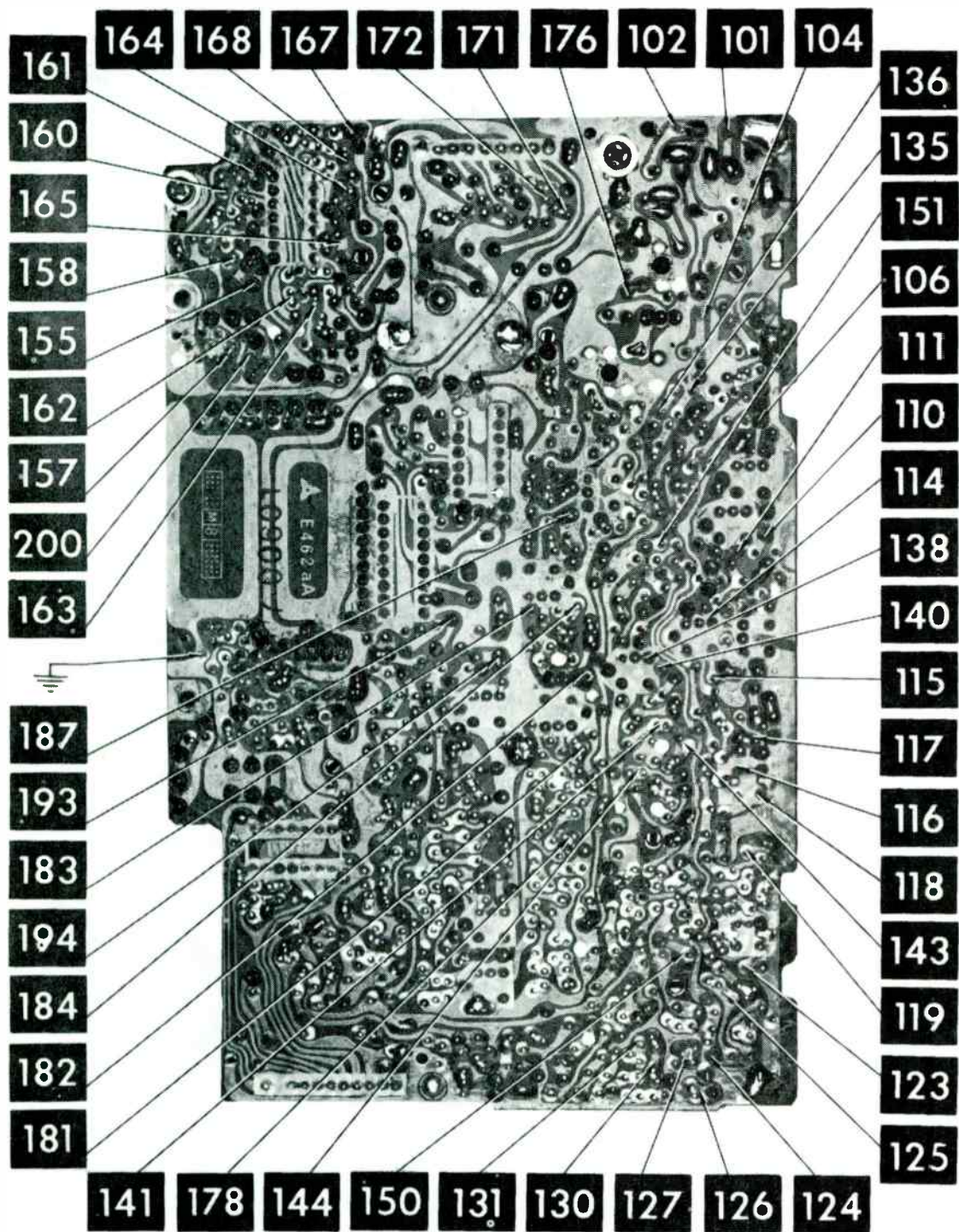
CB BOARD

CB BOARD

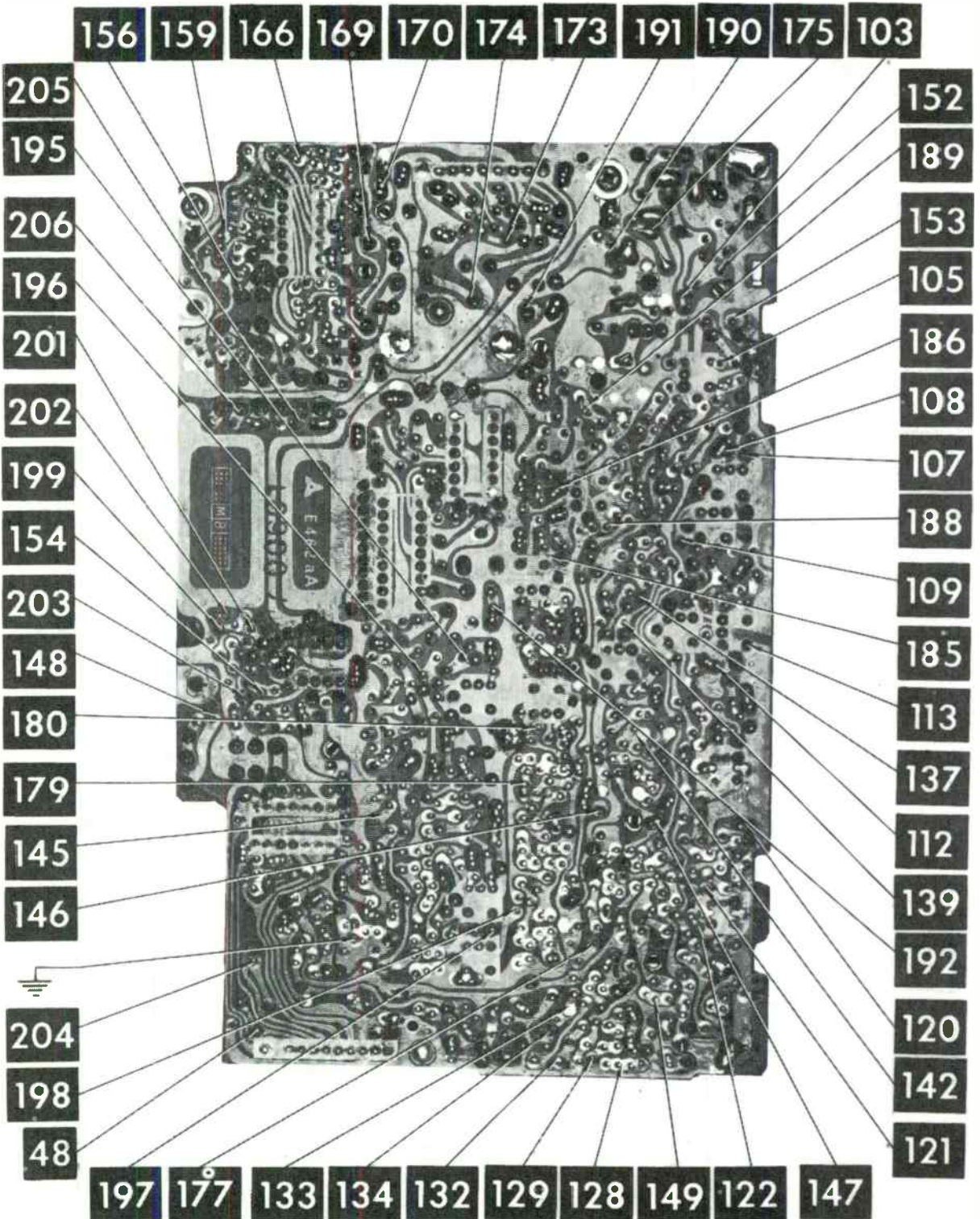




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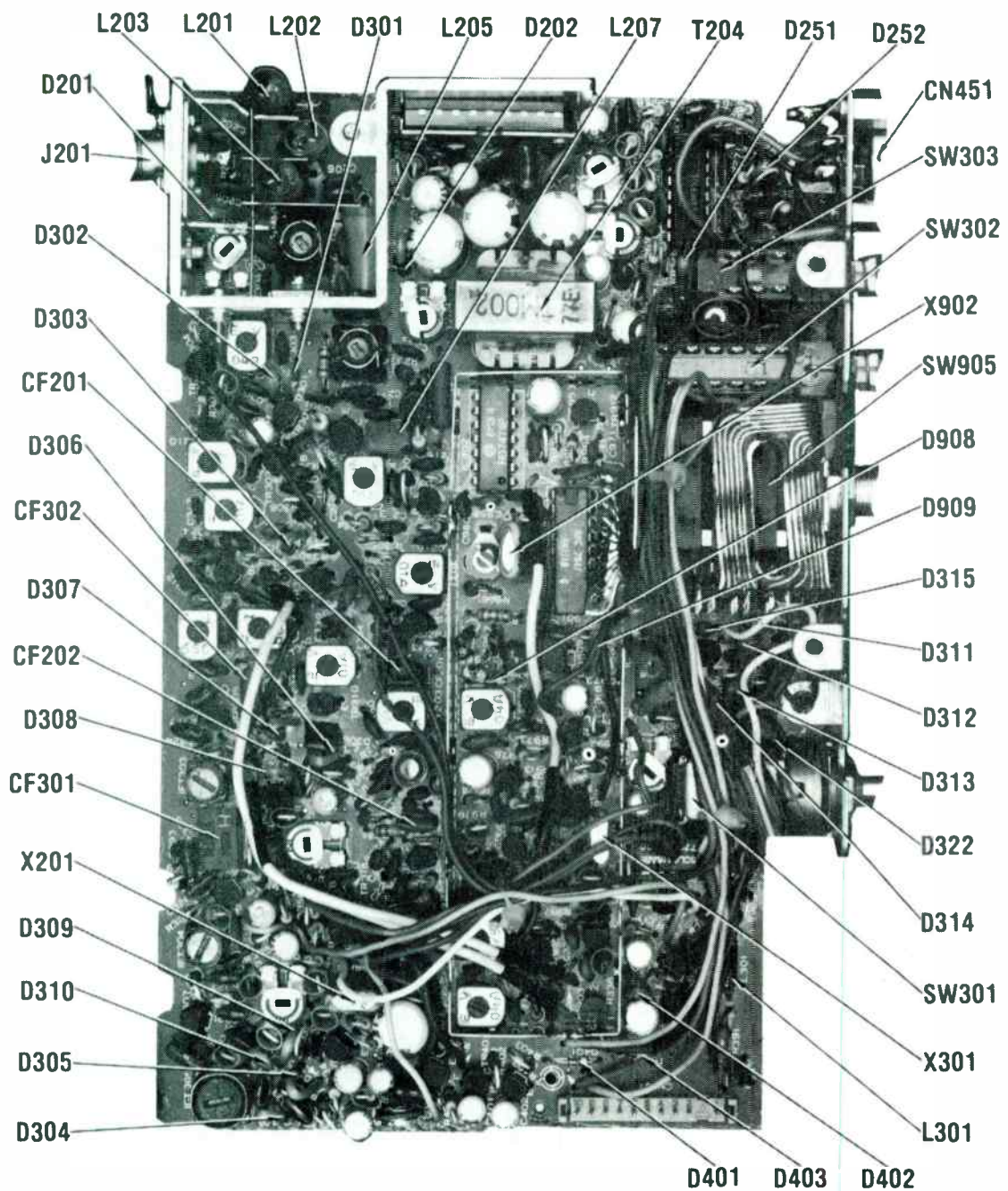


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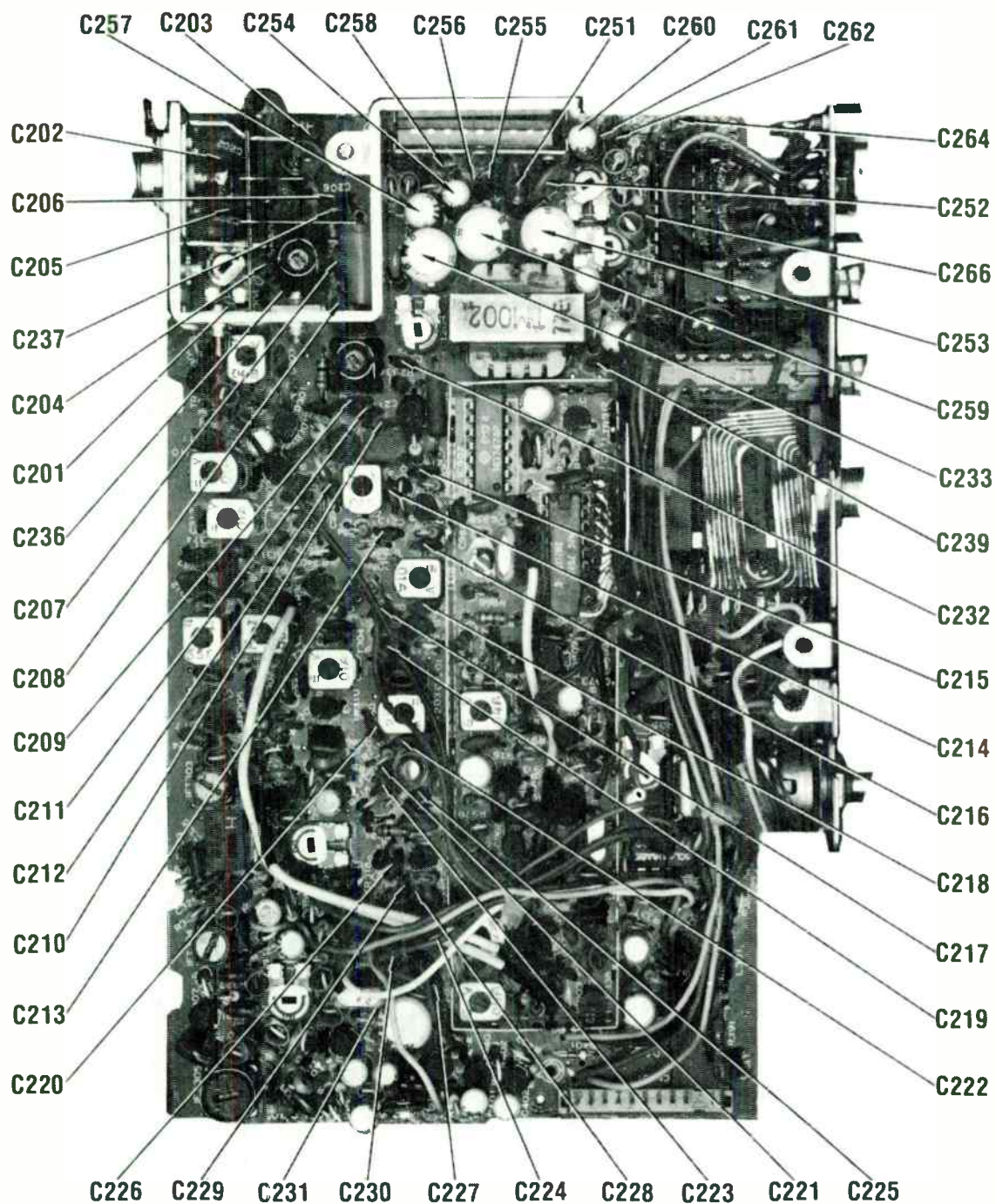


CHRYSLER MODEL 404807 6

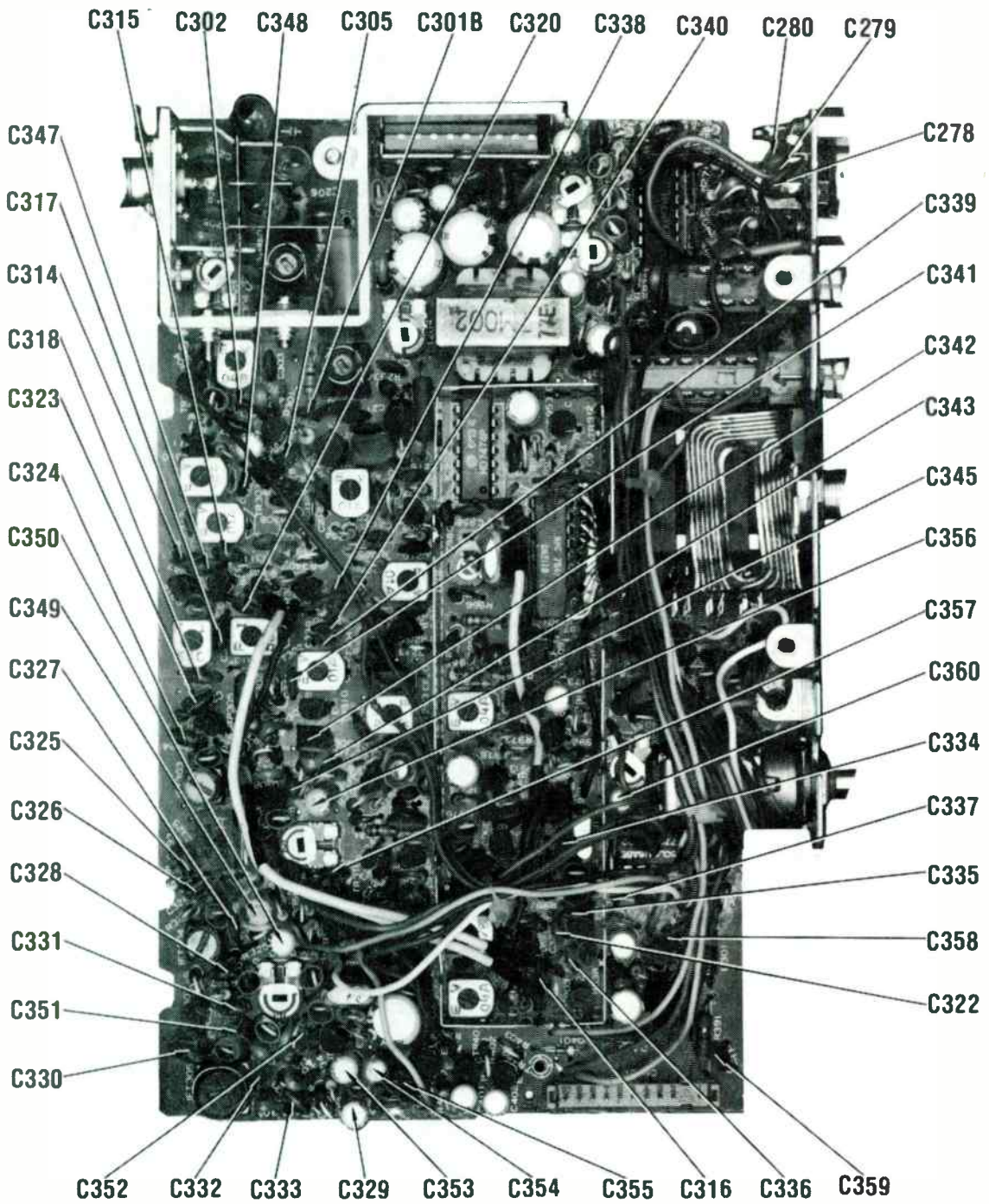
CB BOARD



CB BOARD

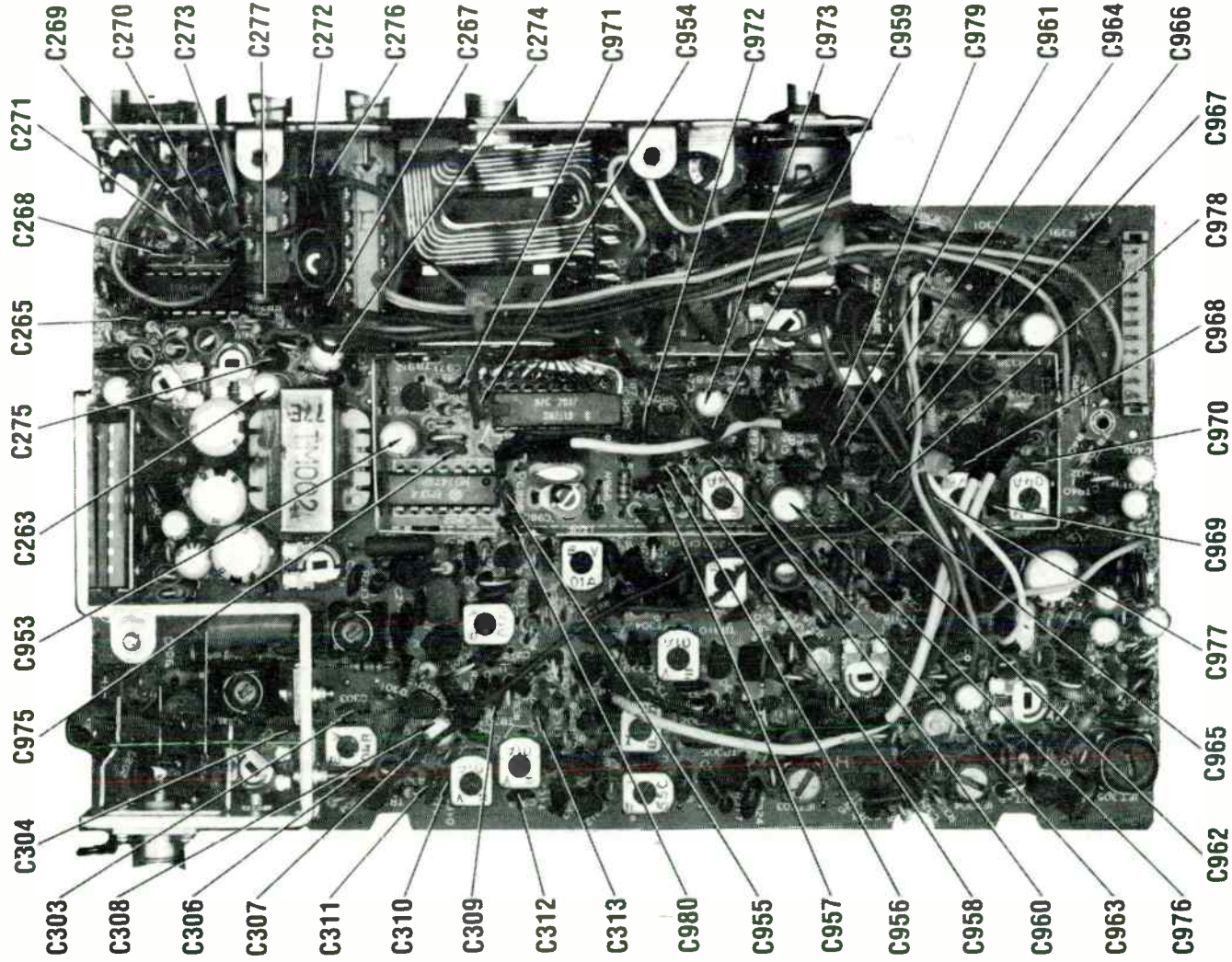


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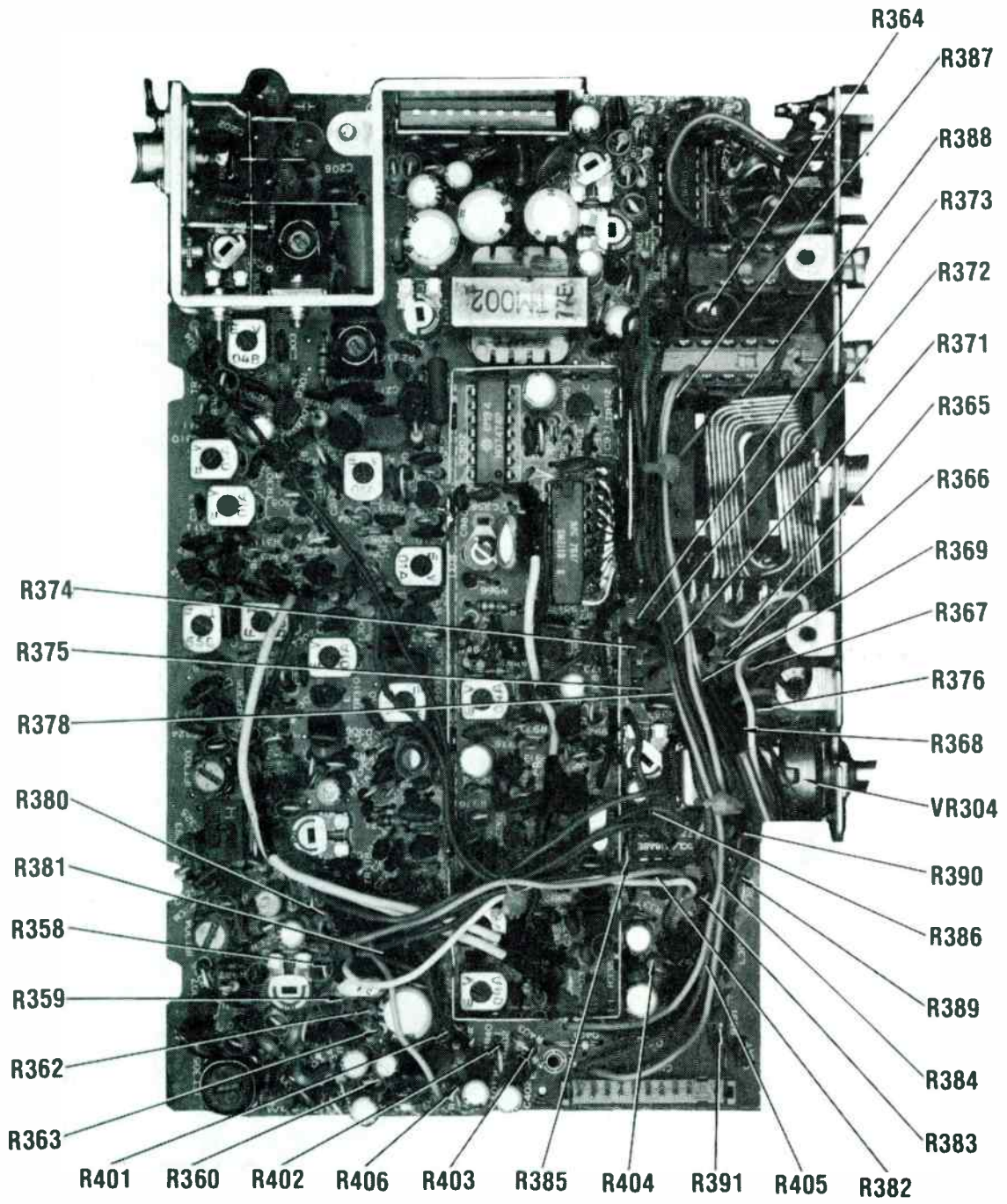


**CB BOARD**

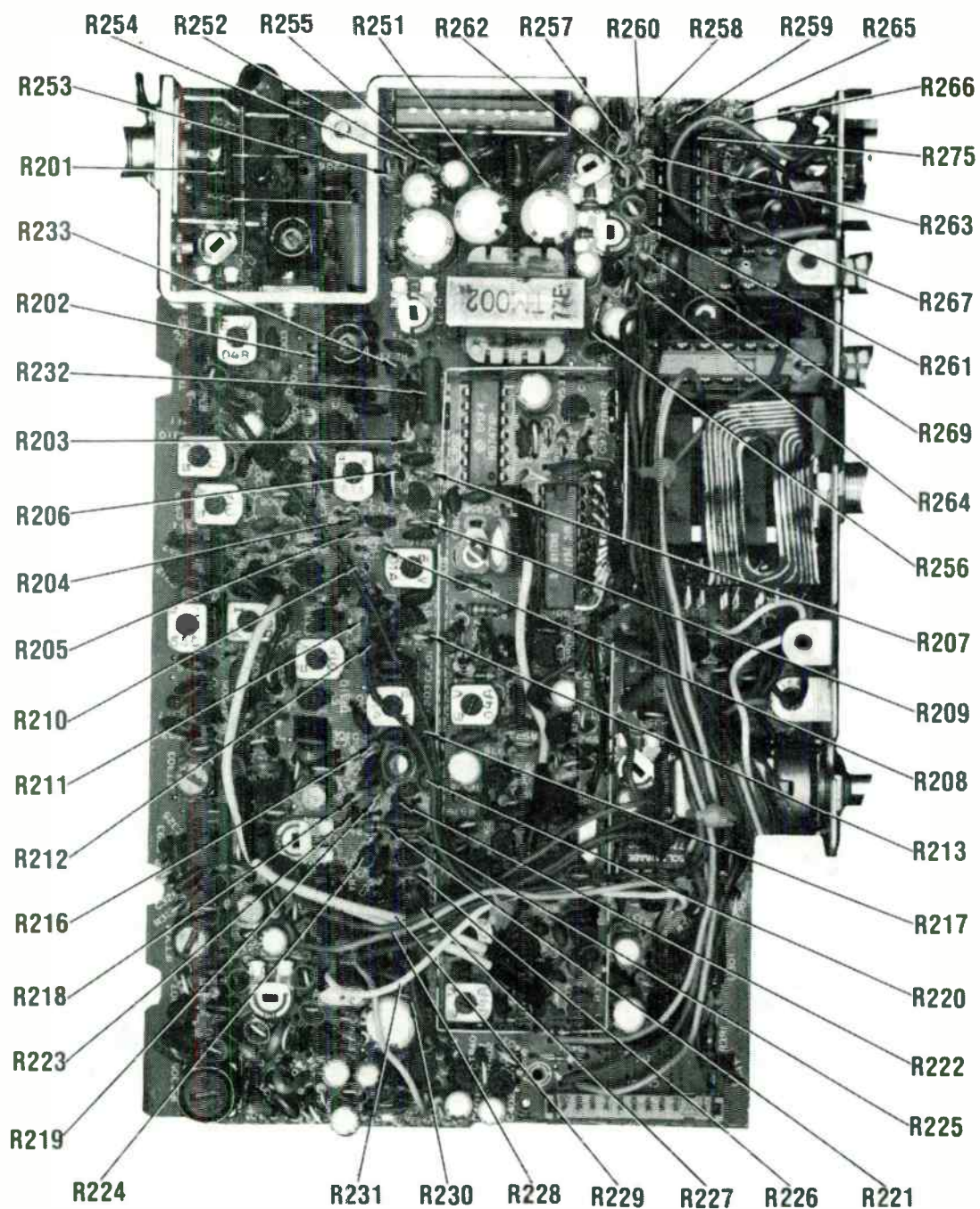




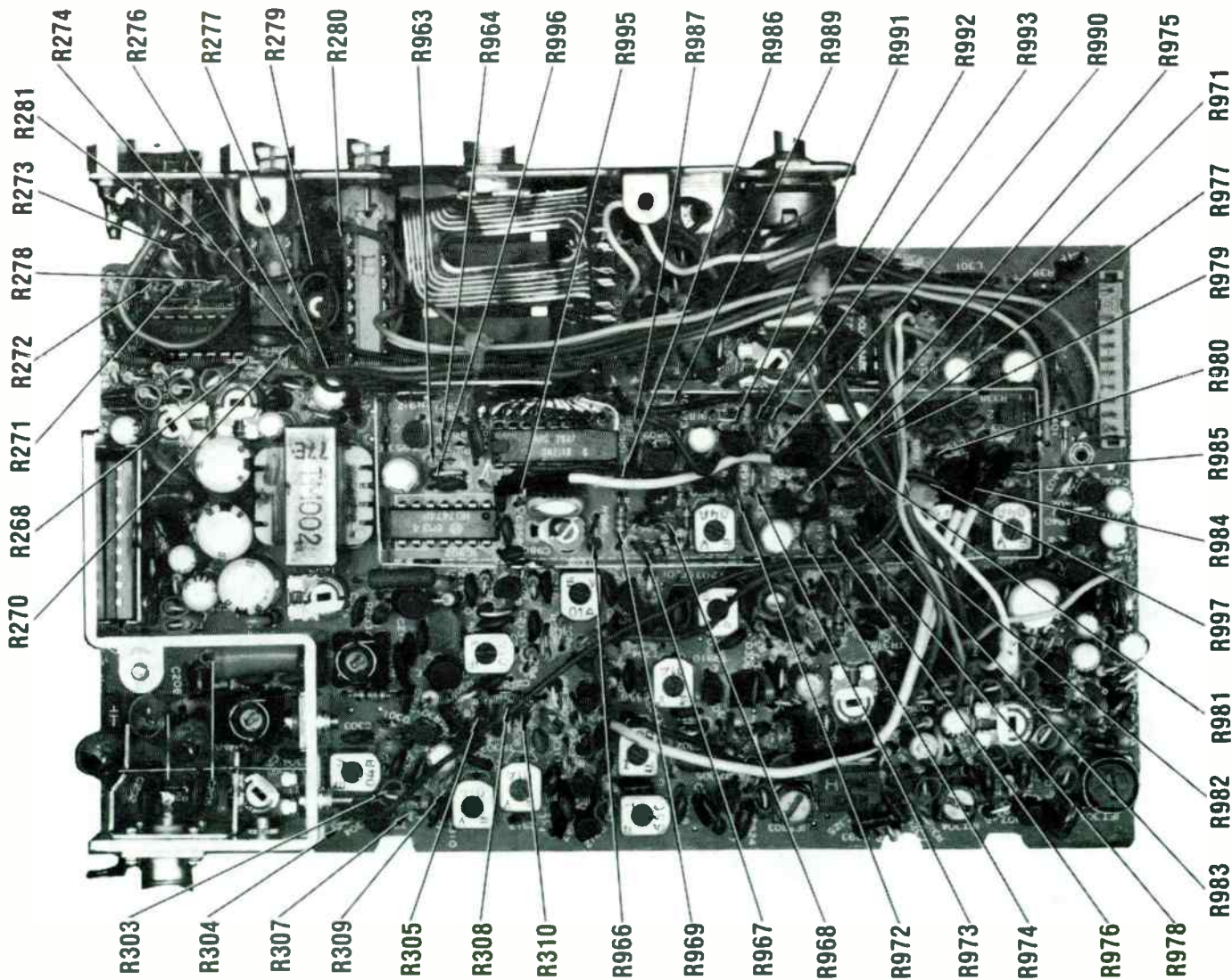
CB BOARD



CB BOARD

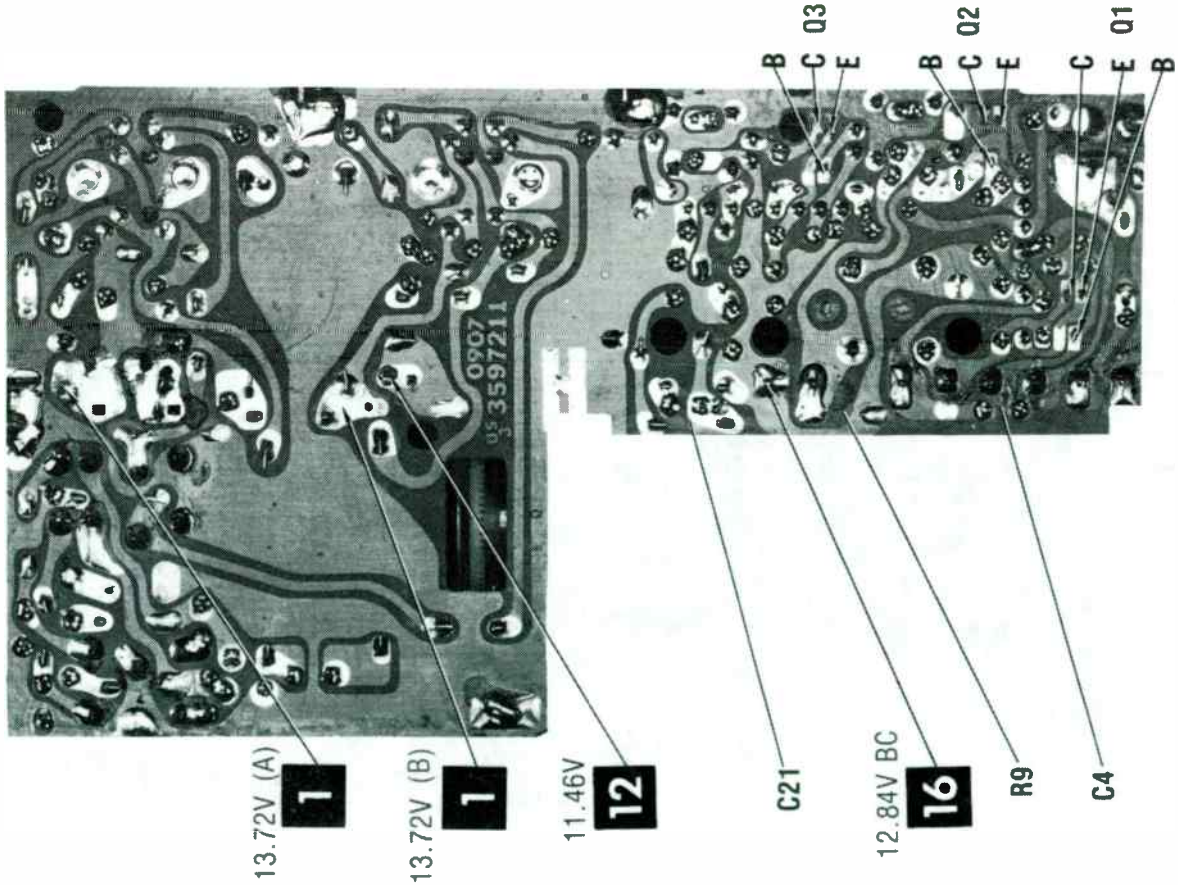


CB BOARD



CB BOARD





13.72V (A) **1**

13.72V (B) **1**

11.46V **12**

C21

12.84V BC **16**

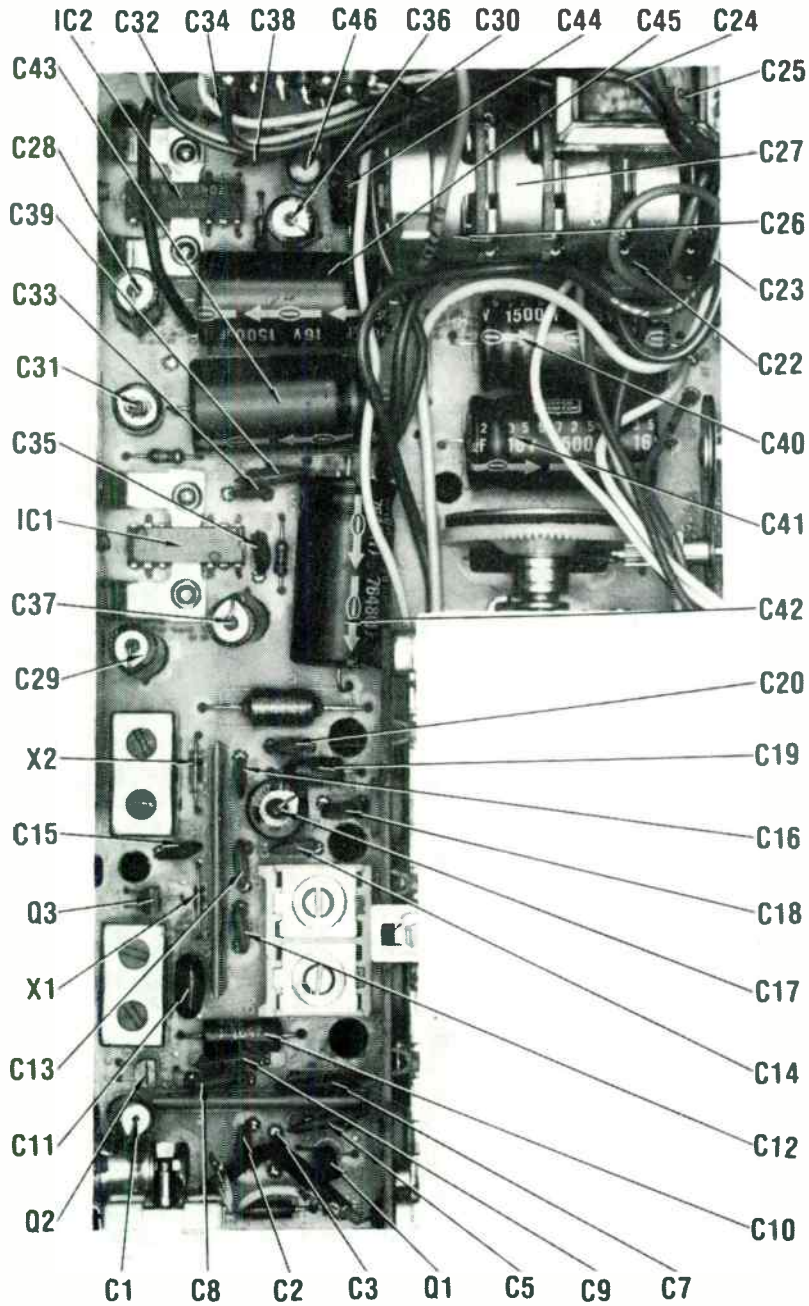
R9

C4

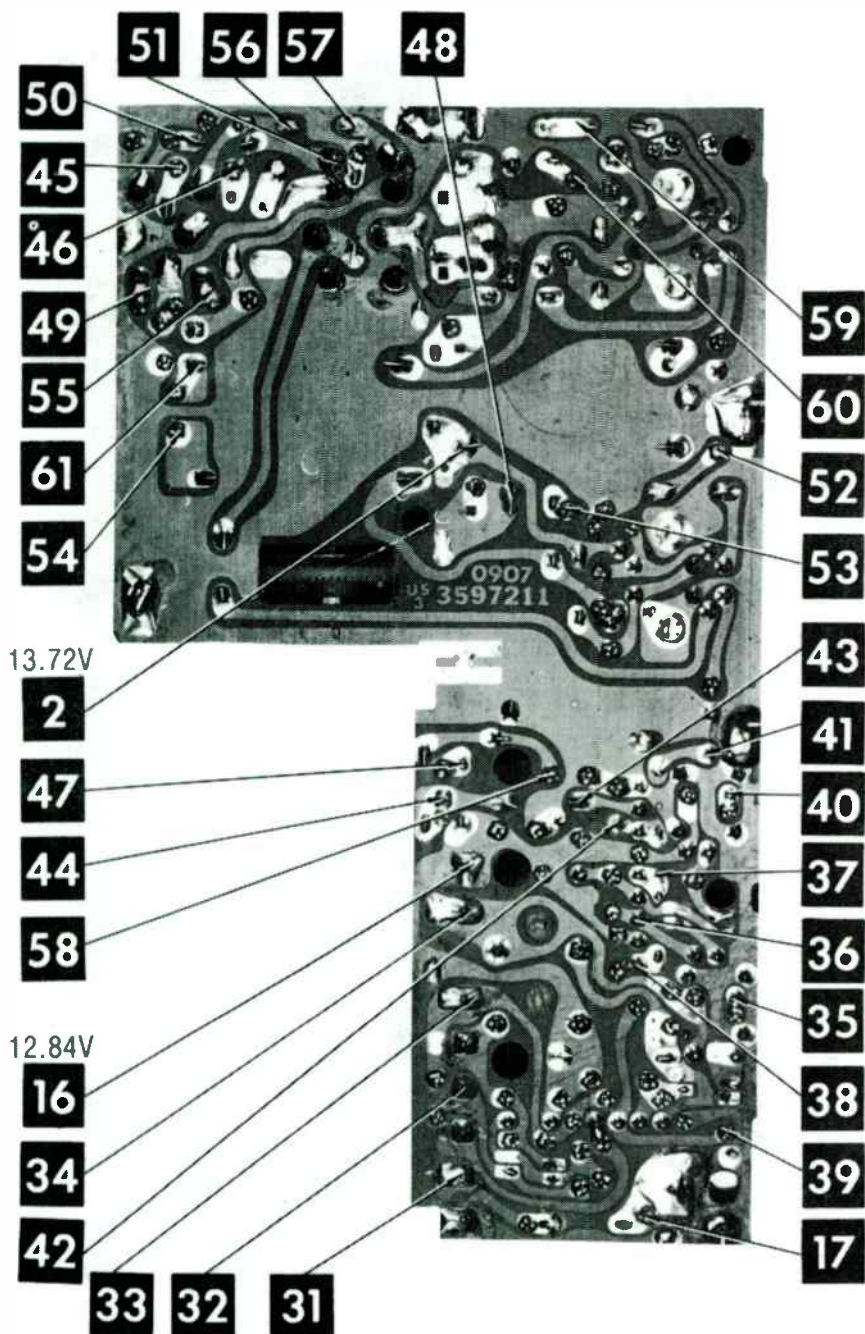
B C 03

B C 02

C E 01

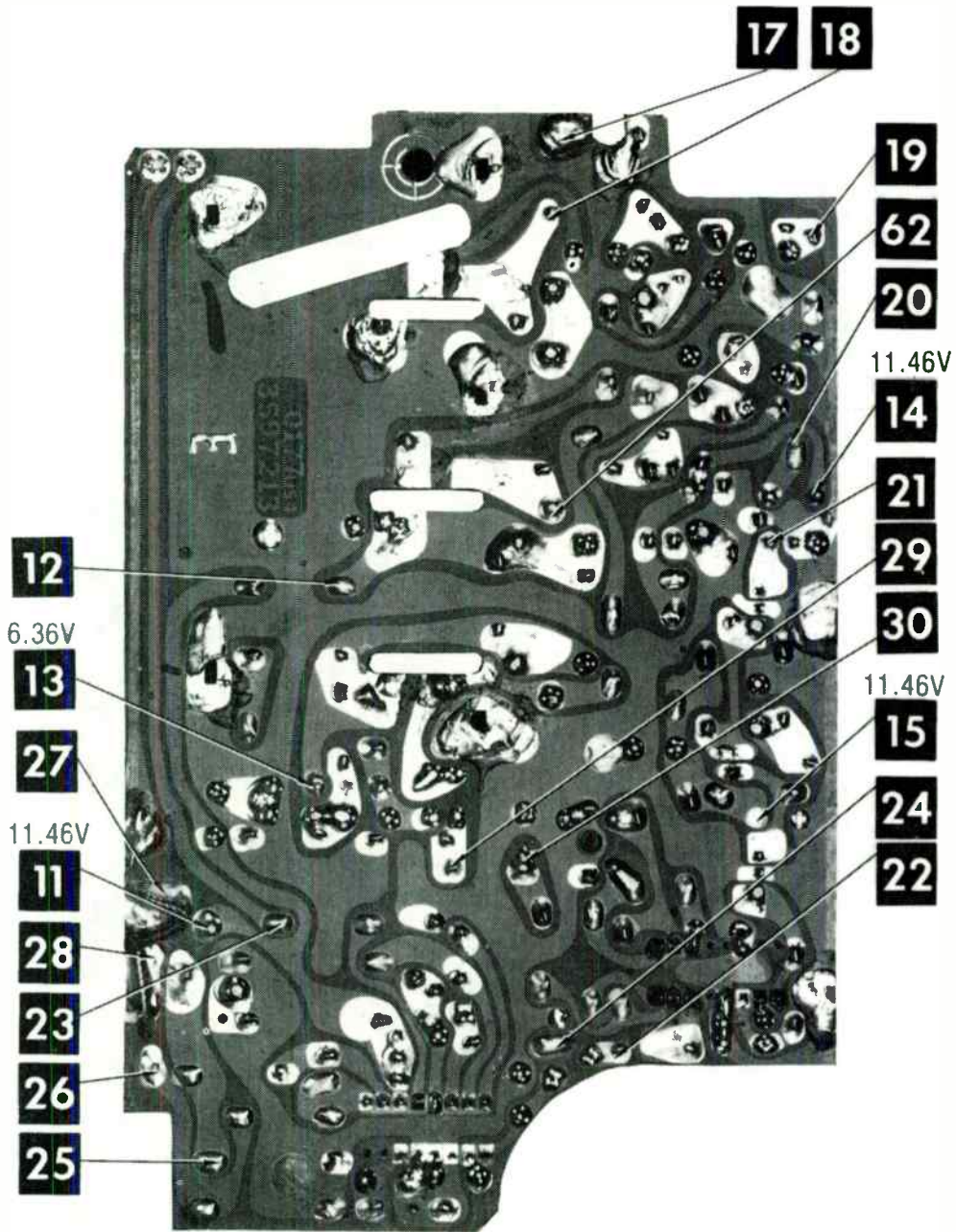


AM-AUDIO BOARD



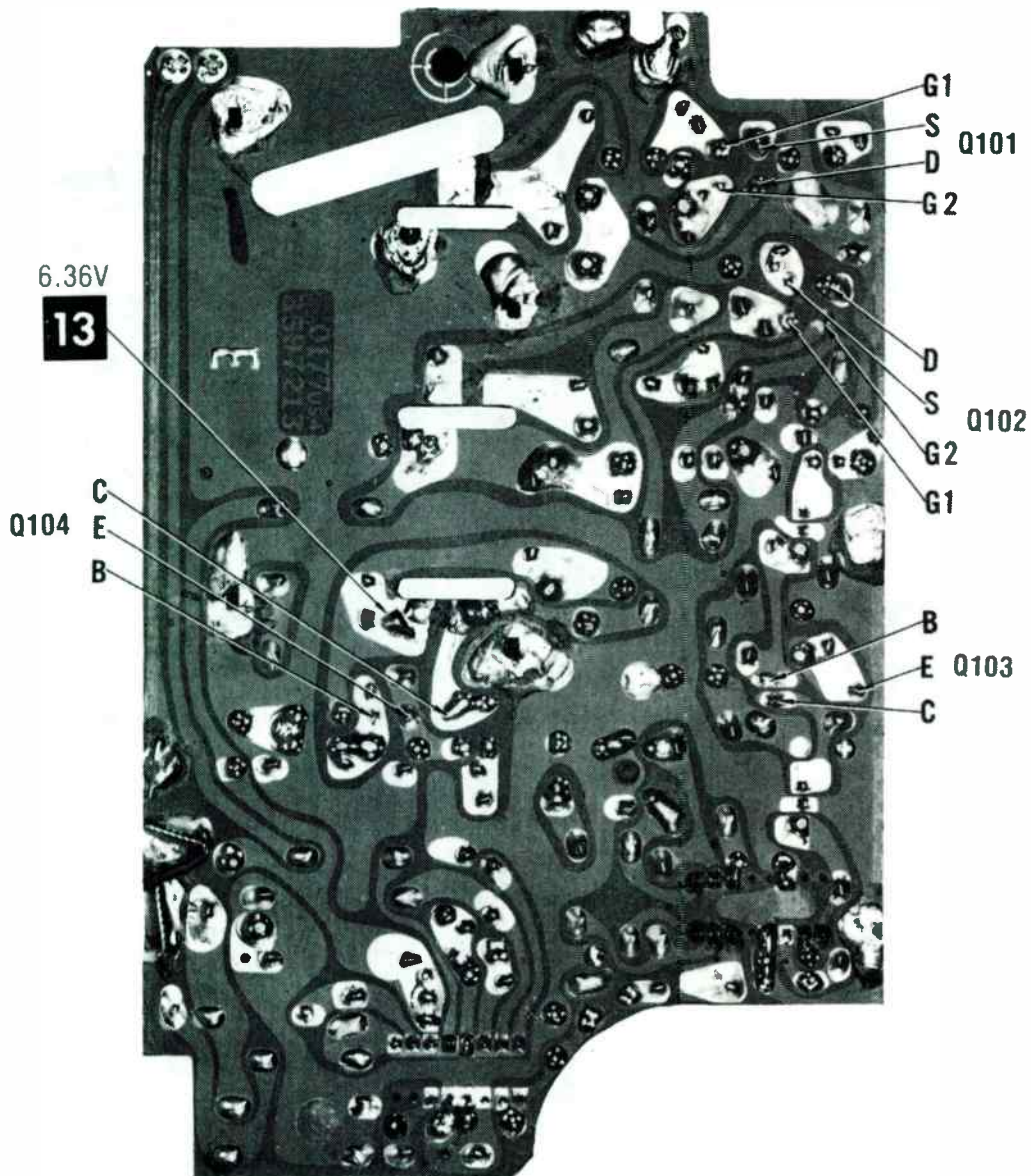
AM-AUDIO BOARD



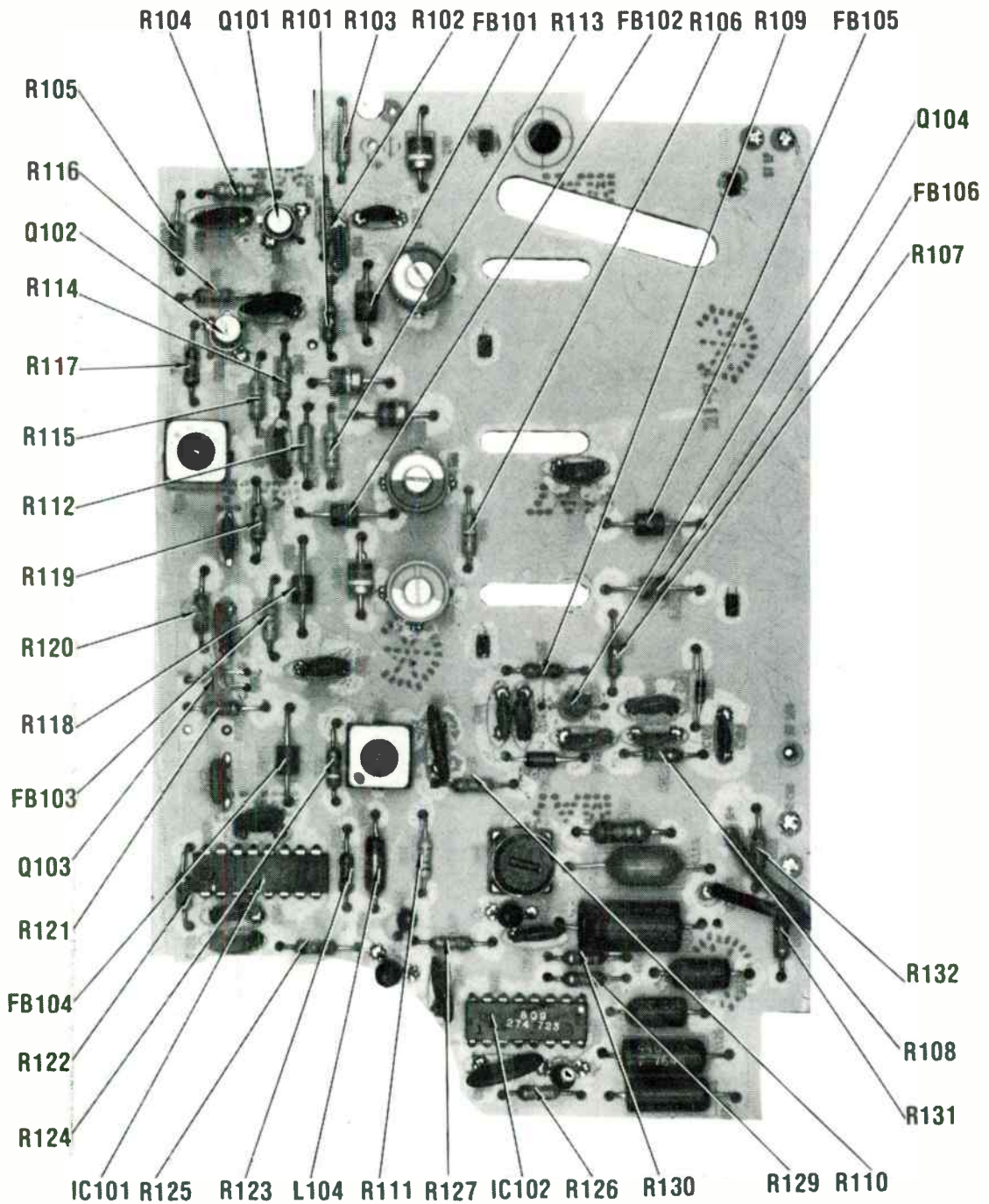


CHRYSLER MODEL 4048076

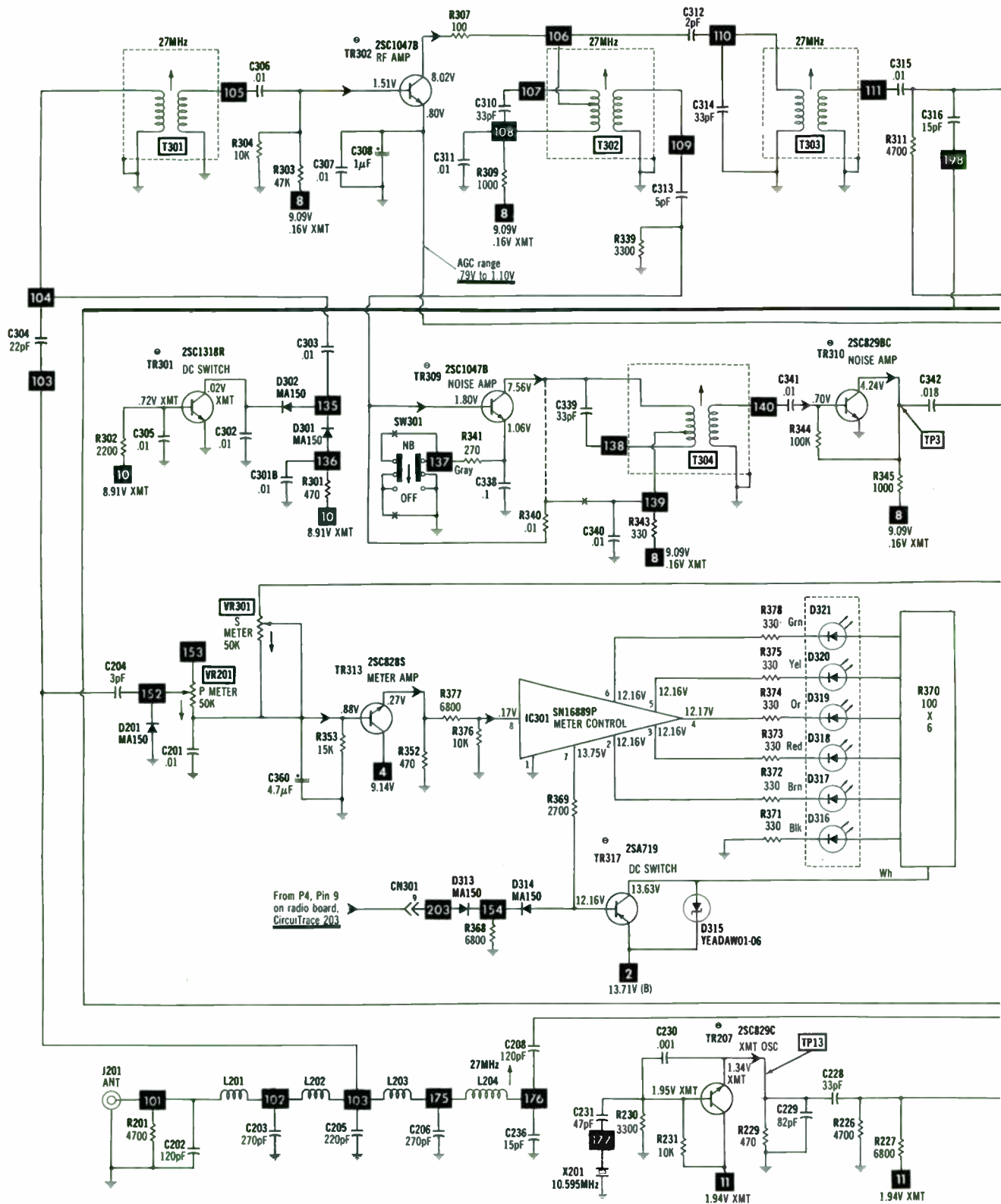
FM BOARD



FM BOARD



FM BOARD

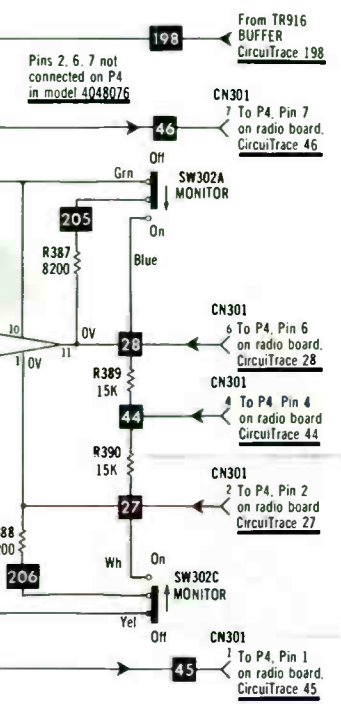
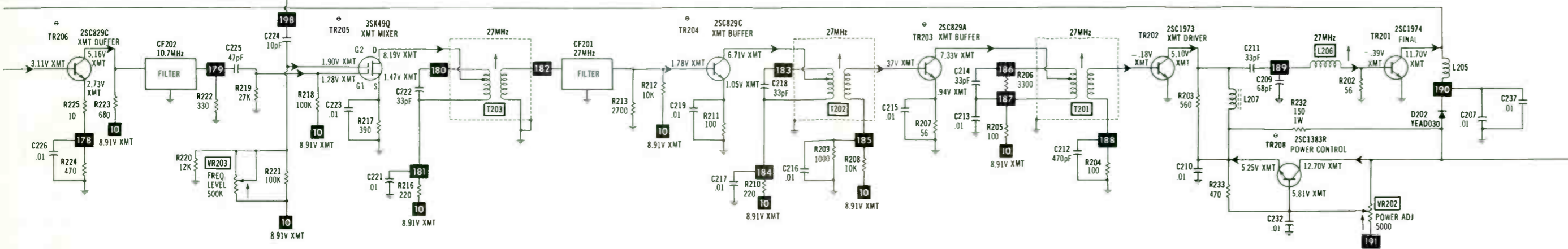
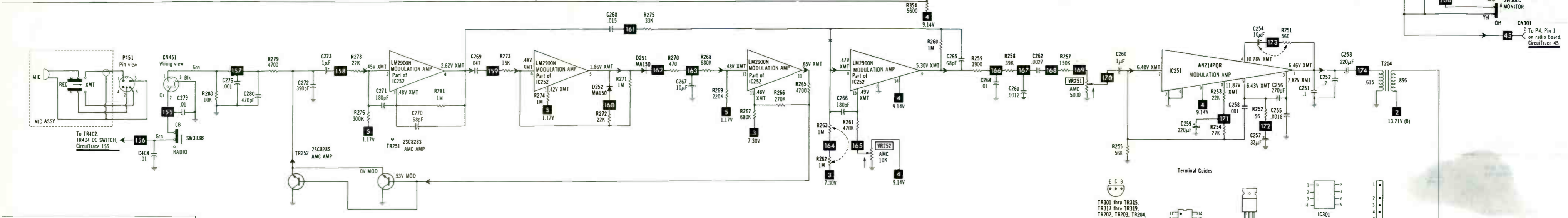
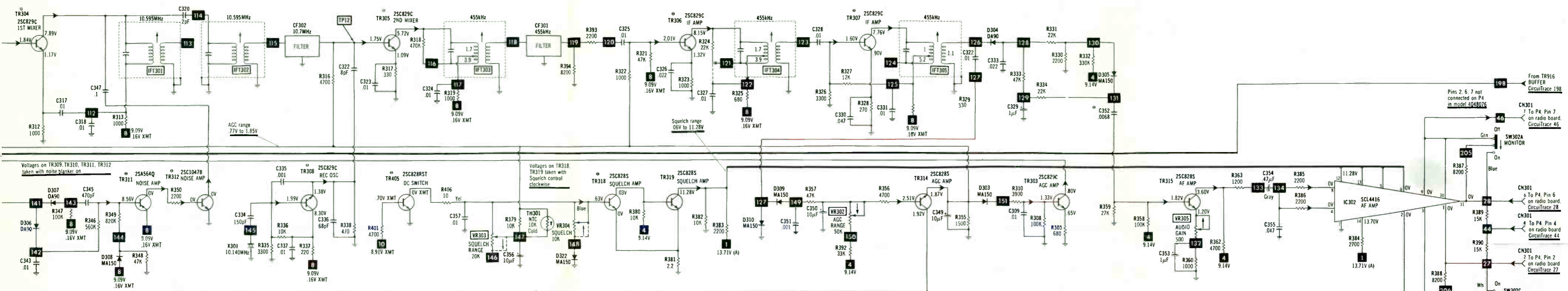


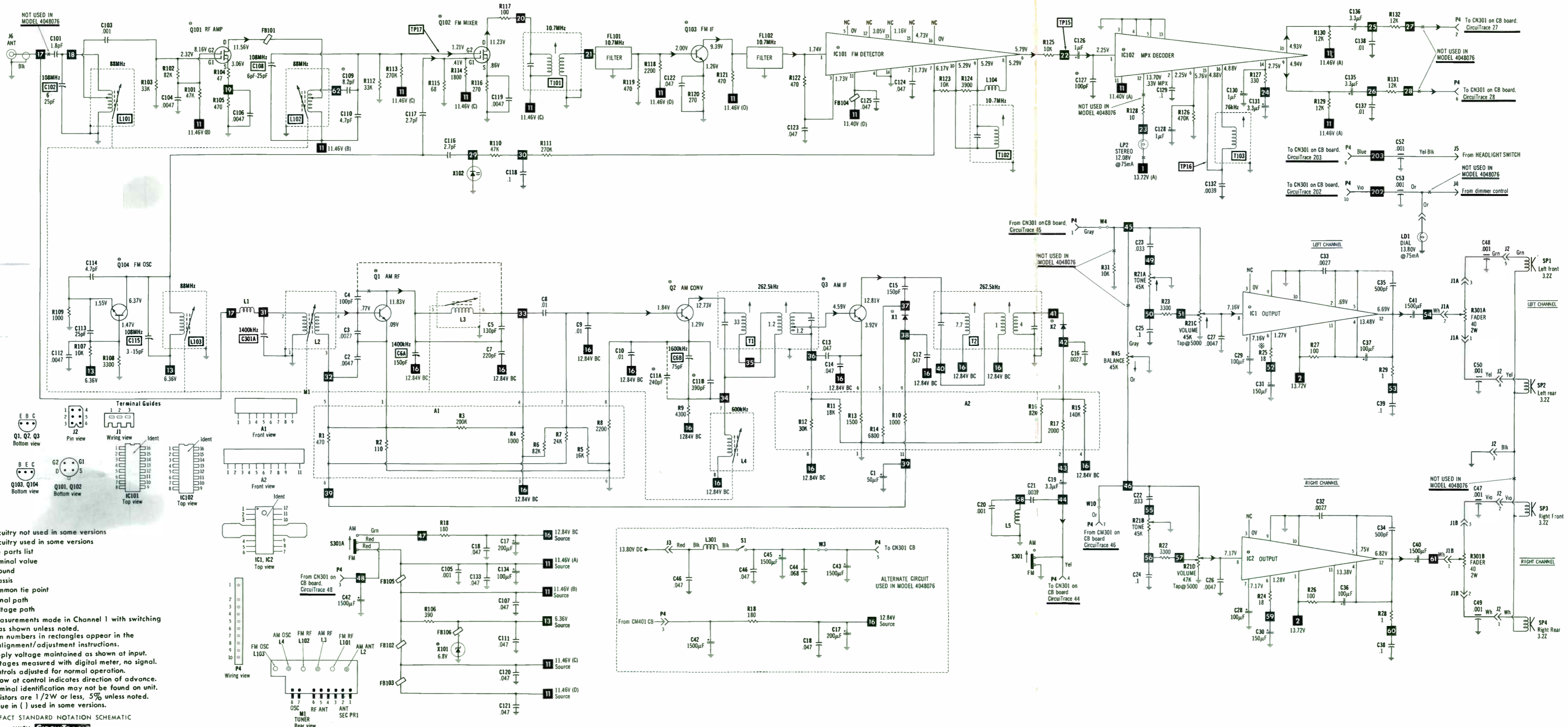
- \*— Circuitry not used in some versions
- - - Circuitry used in some versions
- ⊙ See parts list
- ⊛ Nominal value
- ⊕ Ground
- ⊞ Chassis
- ∇ Common tie point
- ⊳ Signal path
- ⊲ Voltage path

Measurements made in Channel 1 with switching as shown unless noted.  
 Item numbers in rectangles appear in the alignment/adjustment instructions.  
 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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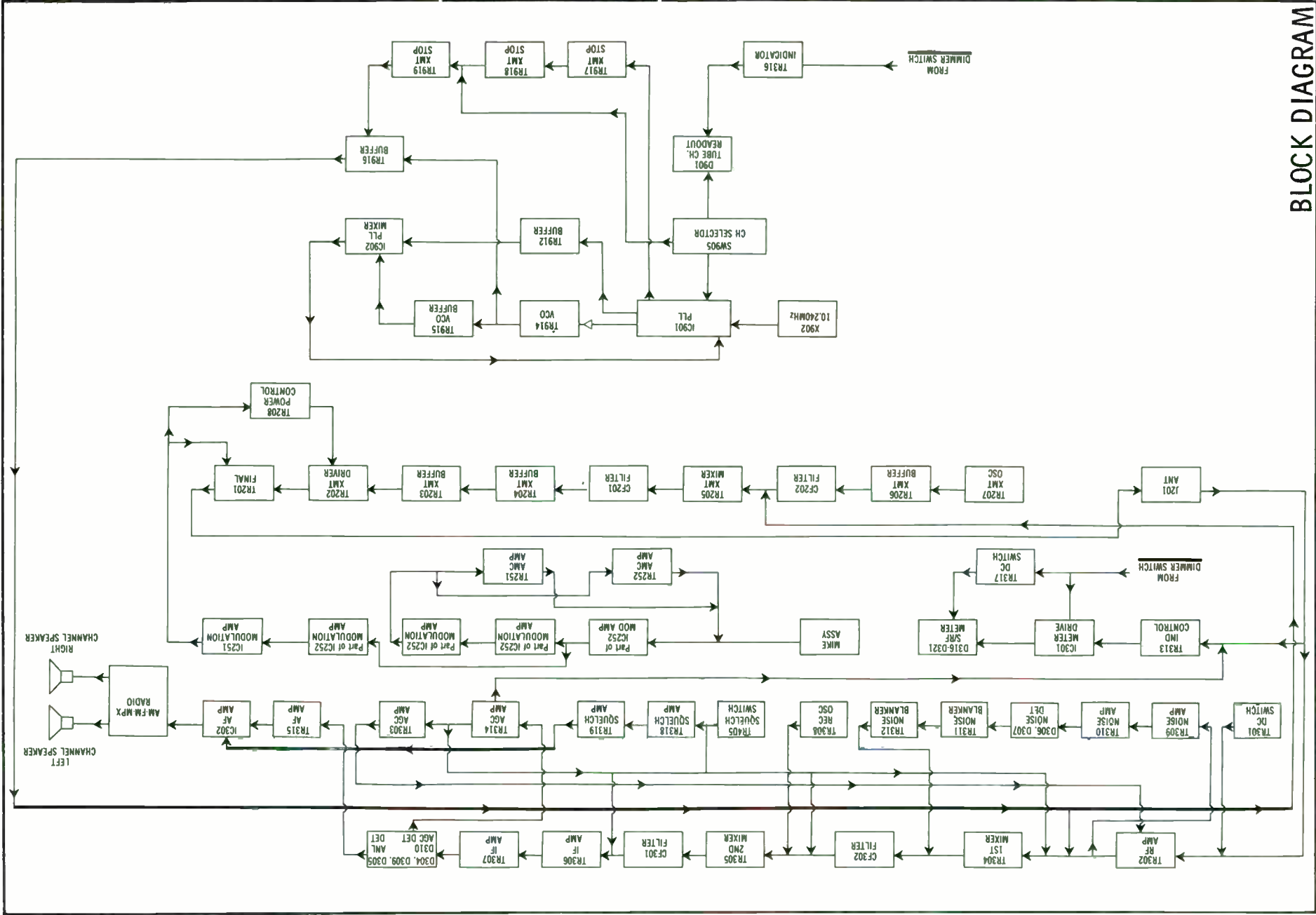




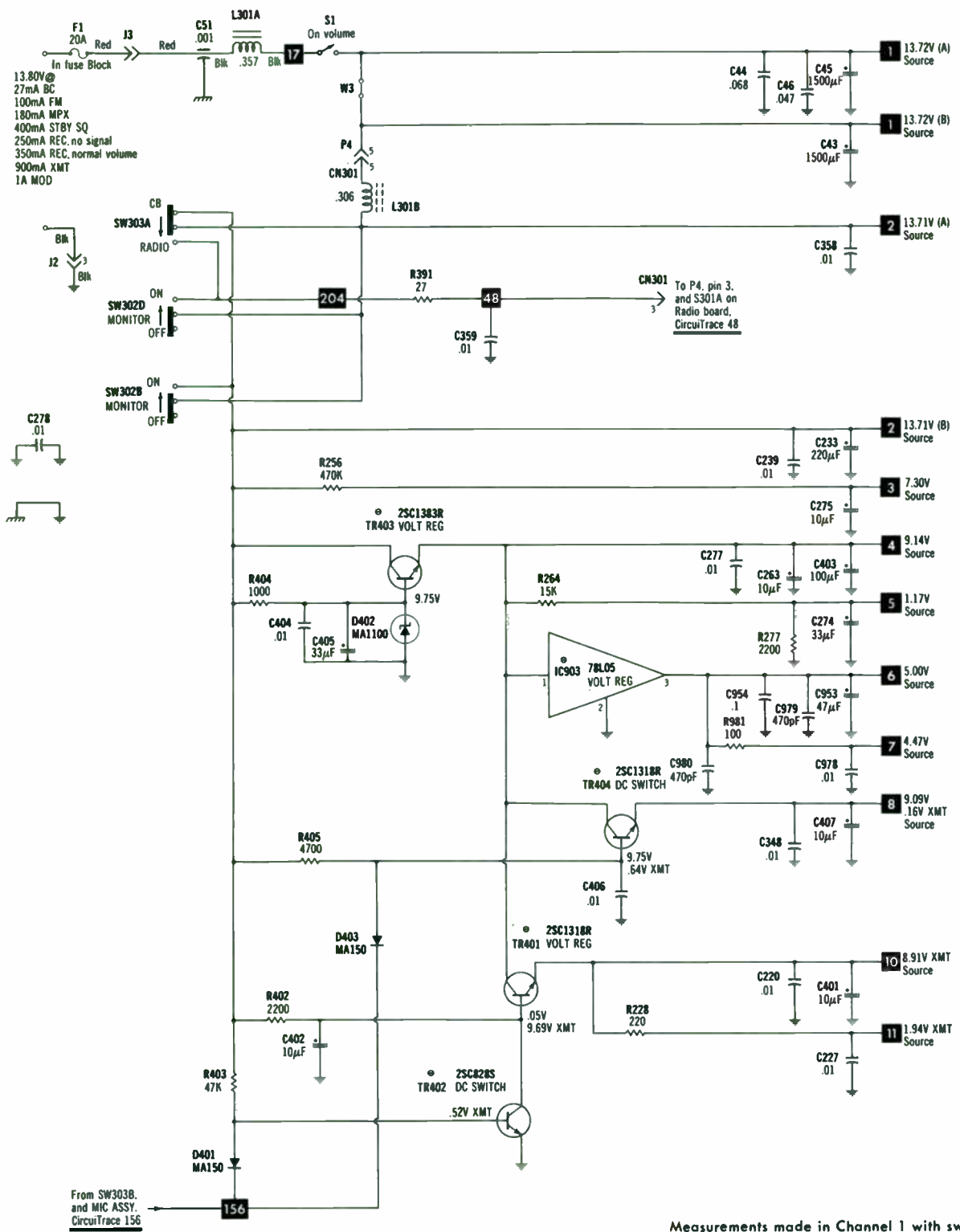
--- Circuitry not used in some versions  
 - - - Circuitry used in some versions  
 \* See parts list  
 ○ Nominal value  
 ⊕ Ground  
 ⊕ Chassis  
 ⊕ Common tie point  
 ⊕ Signal path  
 ⊕ Voltage path  
 Measurements made in Channel 1 with switching as shown unless noted. Item numbers in rectangles appear in the alignment/adjustment instructions. 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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CHRYSLER MODEL 4048076



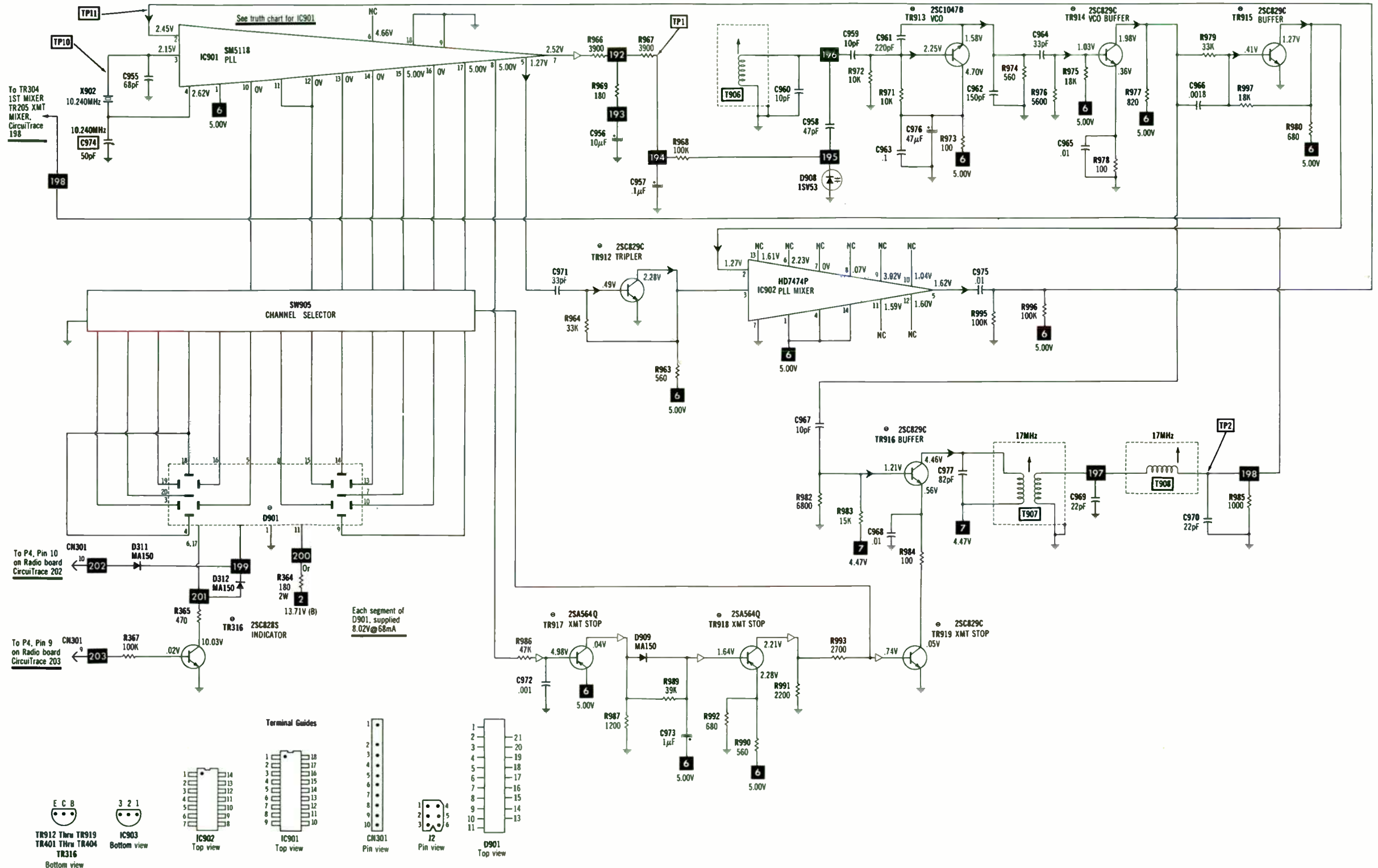
BLOCK DIAGRAM



- ×— Circuitry not used in some versions
- Circuitry used in some versions
- ⊙ See parts list
- ⊛ Nominal value
- ⊥ Ground
- ⊎ Chassis
- ∇ Common tie point
- ⤴ Signal path
- ⤵ Voltage path

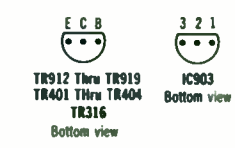
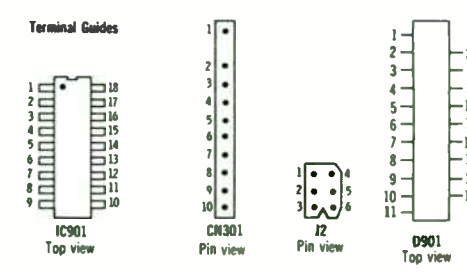
Measurements made in Channel 1 with switching as shown unless noted.  
 Item numbers in rectangles appear in the alignment/adjustment instructions.  
 Supply voltage maintained as shown at input.  
 Voltages measured with digital meter, no signal.  
 Controls adjusted for normal operation.  
 Arrow at 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.





To P4, Pin 10 on Radio board  
CircuitTrace 202

To P4, Pin 9 on Radio board  
CircuitTrace 203



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)

Table with columns: ITEM No., TYPE No., MFR. PART No., REPLACEMENT DATA (GENERAL ELECTRIC, MALLORY, MOTOROLA, RAYTHEON, RCA, SPRAGUE, SYLVANIA, THORDARSON, WORKMAN, ZENITH).

CHRYSLER MODEL 4048076

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.

SEMICONDUCTORS (Select replacement transistor for best results) (cont)

Table with columns: ITEM No., TYPE No., MFR. PART No., REPLACEMENT DATA (GENERAL ELECTRIC, MALLORY, MOTOROLA, RAYTHEON, RCA, SPRAGUE, SYLVANIA, THORDARSON, WORKMAN, ZENITH).

# 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.

## SEMICONDUCTORS (Select replacement transistor for best results) (Cont)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
TR916	25C829C		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-Z9021*
	25C8298C		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-Z9021*
TR917	25C829		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-Z9021*
	25A564Q		GE-65	PTC103*	HEPS0019*	REN 234	SK3114	RT-303	ECG234	TM234	WEP564	121-879
TR918	25A564PQR		GE-65	PTC103*	HEPS0019*	REN 234	SK3114	RT-303	ECG234	TM234	WEP564	121-879
	25A564		GE-65	PTC103*	HEPS0019*	REN 234	SK3114	RT-303	ECG234	TM234	WEP564	121-879
TR919	25A564Q		GE-65	PTC103*	HEPS0019*	REN 234	SK3114	RT-303	ECG234	TM234	WEP564	121-879
	25A564PQR		GE-65	PTC103*	HEPS0019*	REN 234	SK3114	RT-303	ECG234	TM234	WEP564	121-879
X1	25C829C	3596061	GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-Z9021*
	25C8298C		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	TM229/**	WEP829	121-Z9021*
X2	25C829C	3596062	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
X101	25C829C	3596398	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109	WEP134	103-Z9001
X102	25C829	3596435	GEZD-6.8	Z86.8A	HEPZ0409	REN 5071	SK3334	RT-238	ECG5071	TM5071/**	WEP1106	103-Z9001
			GE-90		HEPR2503	REN 614		RT-262	ECG614		WEP200	

\* Lead configuration may vary from original.  
/\*\* Also available as exact type replacement.

CHRYSLER MODEL 4048076

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C1	50 5V	3596823	WBR50-25	TT6X50A	QE1-351	TVA-1100
C17	200 16V	3597249	WBR250-16	TT15X200A	QE1-479	TVA-1160.6
C19	3.3 16V	3596255		TAC335K015P03	QDT1-41	SD15-3R39
C28	100 16V	3597043(1)	PC100-16	VTT100F16	QV1-95	EV-1230
C29	100 16V	3597043	PC100-16	VTT100F16	QV1-95	EV-1230
C30	150 8V	3597251(1)	NLW150-10	TT12X150A	QV1-103	EV-1135
C31	150 8V	3597250	NLW150-10	TT12X150A	QE1-457	TVA1180
C36	100 16V	3597043	PC100-16	VTT100F16	QV1-95	EV-1230
C37	100 16V	3597043	PC100-16	VTT100F16	QV1-95	EV-1230
C40	1500 16V	3597252(1)		TT15X1500A	QE1-609	TVA1175.2
C41	1500 16V	3597252		TT15X1500A	QE1-609	TVA1175.2
C42	1500 16V	3597252		TT15X1500A	QE1-609	TVA1175.2
C43	1500 16V	3597252		TT15X1500A	QE1-609	TVA1175.2
C45	1500 16V	3597252		TT15X1500A	QE1-609	TVA1175.2
C126	1 25V	3596256(1)		TDC105M035EL		SD35-19
C128	1 25V	3596256(1)		TDC105M035EL		SD35-19
C130	1 25V	3596256(1)		TDC105M035EL		SD35-19
C131	3.3 16V	3597231(1)		TDC335M015FL	QDT1-41	SD15-3R39
C134	100 16V	3597248(1)	WBR100-16	TT15X100A	QE1-423	TVA-1160
C135	3.3 15V	3596255(1)		TAC335K015P03	QDT1-41	SD15-3R39
C136	3.3 15V	3596255(1)		TAC335K015P03	QDT1-41	SD15-3R39
C233	220 16V	ECEA16V220L	PC250-25	VTT220H16	QV1-117	EV-1240
C253	220 16V	ECEA16V220L	PC250-25	VTT220H16	QV1-117	EV-1240
C254	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C257	33 10V	ECEA10V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C259	220 16V	ECEA16V220L	PC250-25	VTT220H16	QV1-117	EV-1240
C260	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C263	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C267	10 10V	ECSZ10EF10Q		TDC106M025FL	QDT1-64	SD25-109
C273	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C274	33 10V	ECEA10V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C275	10 10V	ECSZ10EF10Q		TDC106M025FL	QDT1-64	SD25-109
C308	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C329	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C350	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C353	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C354	.47 50V	ECEA50MR47	PC1-50	VTTA47A63	QV1-3	EV-1610
C356	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C360	4.7 25V	ECEA25V47L	PC5-50	VTT47B50	QV1-27	EV-1319
C401	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C402	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C403	100 16V	ECEA16V100L	PC100-16	VTT100F16	QV1-95	EV-1230
C405	33 16V	ECEA16V33L	PC30-25	VTT33D25	QV1-63	EV-1325
C407	10 16V	ECEA16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C953	47 10V	ECEA10V47L	PC50-16	VTT47D16	QV1-73	EV-1226
C956	10 10V	ECSZ10EF10Q		TDC106M025FL	QDT1-64	SD25-109
C957	.1 35V	ECSZ35EF10Q		TDC104M050EL	QDT1-2	SD50-R109
C973	1 50V	ECEA50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C976	47 10V	ECEA10V47L	PC50-16	VTT47D16	QV1-73	EV-1226

(1) Not used in model 4048076.

# 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.	
						Q-LINE	GENERAL LINE
C2	.0047 16V		DD-472	GP4700	GP247		5GA-047
C3	.0027 16V				GP227		10TS-D27
C4	100 NPO 100V		OTZ-100	NP0100	CN0310		10TCC-T10
C5	130 N22u 10% 100V	3597296			*		10TCR-T12
C6A	150	3597232					
C68	75	3597232					
C7	220 N470 10%	3596237			*		10TCT-T22
C8	.01 10% 16V		UK16-103		MAG1611		HY-420
C9	.01 10% 16V		UK16-103		MAG1611		HY-420
C10	.01 10%	(2)		WMF1S1	EFW1A110	QFT2-91	1FT-S10
C11	390 5%	(2)		CD15FD391J03	SX339	QW1-41	MMA-391
	130	(3)		CD15F0131J03	SX313	QW1-30	MMA-131
C11A	240	(3)					
C12	.047 16V		UK16-503		MAG1615		HY-635
C13	.047 16V		UK16-503		MAG1615		HY-635
C14	.047 16V		UK16-503		MAG1615		HY-635
C15	150		DD-151		GP315		10TS-T15
C16	.0027 16V				GP227		10TS-D27
C18	.047 16V		UK16-503		MAG1615		HY-635
C20	.001 16V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C21	.0039 50V			DPMS6D39	M192P3929R8	QFT2-51	1FT-039
C22	.033 16V		UK16-333		MAG16133		HY-630
C23	.033 16V		UK16-333		MAG16133		HY-630
C24	.1 12V		UK12-104		MAG1201		HY-360
C25	.1 12V		UK12-104		MAG1201		HY-360
C26	.0047	(1)		WMF1D47	M192P4729R8	QFT2-63	1FT-047
C27	.0047			WMF1D47	M192P4729R8	QFT2-63	1FT-047
C32	.0027 16V	(1)			GP227		10TS-027
C33	.0027 16V				GP227		10TS-D27
C34	500	(1)	DD-501	GP500	GP350		10TS-T50
C35	500		DD-501	GP500	GP350		10TS-T50
C38	.1 16V	(1)	UK16-104		MAG1601		HY-650
C39	.1 16V		UK16-104		MAG1601		HY-650
C44	.068 50V			WMF1S68	EFW1A168	QF1-195	1PB-S68
C46	.047 100V			DPMS2S47	EFW1A147	QFT2-171	1FT-S47
C47	.001	3598133 (1)					
C48	.001	3598133					
C49	.001	3598133 (1)					
C50	.001	3598133					
C51	.001	3598133					
C52	.001	3598133					
C53	.001	3598133					
C101	1.8 10%	3596840 (1)					
C102	6-25	3596539 (1)					
C103	.001 16V	(1)	DD-102G	GP1000	GP210	QC2-81	5GA-D10
C104	.0047 16V	(1)	DD-472	GP4700	GP247		5GA-D47
C105	.001 16V	(1)	DD-102G	GP1000	GP210	QC2-81	5GA-D10
C106	.0047	(1)	DD-472	GP4700	GP247		5GA-D47
C107	.047 16V	(1)	UK16-503		MAG1615		HY-635
C108	6-25	3596539 (1)					
C109	8.2 10%	3596843 (1)					10TCC-V82
C110	4.7 10%	(1)	DTZ-4R7	NP04P7	CN0547		10TCC-V47
C111	.047 16V	(1)	UK16-503		MAG1615		HY-635
C112	.0047 16V	(1)	DD-472	GP4700	GP247		5GA-D47
C113	25 NPO 10%	(1)	DTZ-25	NP025	CN0425		10TCC-Q25
C114	4.7 +.5 N750 16V	(1)			CN7547		10TCU-V47
C115	3-15	3597108 (1)					
C116	2.7 +.5 N330 16V	3596415 (1)					
C117	2.7 10%	3596841 (1)					
C118	.1 12V	(1)	UK12-104		MAG1201		10TCC-V27
C119	.0047	(1)	DD-472	GP4700	GP247		HY-360
C120	.047 16V	(1)	UK16-503		MAG1615		5GA-D47
C121	.047 16V	(1)	UK16-503		MAG1615		HY-635
C122	.047 16V	(1)	UK16-503		MAG1615		HY-635
C123	.047 16V	(1)	UK16-503		MAG1615		HY-635
C124	.047 16V	(1)	UK16-503		MAG1615		HY-635
C125	.047 16V	(1)	UK16-503		MAG1615		HY-635
C127	100 NPO 100V	(1)	DTZ-100	NP0100	CN0310		10TCC-T10
C129	.1 12V	(1)	UK12-104		MAG1201		HY-360
C132	.0039 5%	(1)		CD19FD392J03	SX239		MMA-392
C133	.047 16V	(1)	UK16-503		MAG1615		HY-635
C137	.01 10% 50V	(1)		WMF1S1	EFW1A147	QFT2-91	1FT-S10
C138	.01 10% 50V	(1)		WMF1S1	EFW1A147	QFT2-91	1FT-S10
C201	.01		UK50-103		MAG5011		
C202	120 10%		DTZ-120		CN0312		10TCC-T12
C203	270 5%		DTZ-270		CN0312		10TCC-T27
C204	3		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C205	220 10%		DD-221		GP322		10TS-T22
C206	270 5%		DTZ-270				10TCC-T27
C207	.01		UK50-103		MAG5011		
C208	120 10%		DTZ-120		CN0312		10TCC-T12
C209	68 NPO 10%		DTZ-68	NP068	CN0468		10TCC-Q68
C210	.01		UK50-103		MAG5011		
C211	33 NPO 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C212	470		DD-471	GP470	GP347		10TS-T47
C213	.01		UK50-103		MAG5011		
C214	33 N150 5%	YECCD1H330JP			*		10TCP-Q33
C215	.01		UK50-103		MAG5011		
C216	.01		UK50-103		MAG5011		
C217	.01		UK50-103		MAG5011		

# 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
C218	33 N150 5%	YECCD1H33QJP			*		10TCP-Q33
C219	.01		UK50-103		MAG5011		
C220	.01		UK50-103		MAG5011		
C221	.01		UK50-103		MAG5011		
C222	33 N150	YECCD1H33QJP			*		10TCP-Q33
C223	.01		UK50-103		MAG5011		
C224	10		DTZ-10	NP010	CN0410		10TCC-Q10
C225	47		DTZ-47	NP047	CN0447		10TCC-Q47
C226	.01		UK50-103		MAG5011		
C227	.01		UK50-103		MAG5011		
C228	33		DTZ-33	NP033	CN0433		10TCC-Q33
C229	82		DD-820		GP482		10TS-Q82
C230	.001 10% 50V			DPMS6D1	EFW1A210	QFT2-1	1FT-D10
C231	47		DTZ-47	NP047	CN0447		10TCC-Q47
C232	.01		UK50-103		MAG5011		
C236	15		DTZ-15	NP015	CN0415		10TCC-Q15
C237	.01 50V			WMF1S1	EFW1A110	QFT2-91	1FT-S10
C239	.01		UK50-103		MAG5011		
C251	.1 50V			WMF05P1	EFW05010	QFT2-215	1FT-P10
C252	.2 12V		UK16-204				HY-470
C255	.0018 10% 50V			OPMS602	PVC622		6PS-Q20
C256	270 5%		DTZ-270				10TCC-T27
C258	.001 10% 50V			DPMS6D1	EFW1A210	QFT2-1	1FT-D10
C261	.0012 10% 50V			DPMS6D12	PVC6212		6PS-D12
C262	.0027 10% 50V				M192P2729R8		192P2729R8
C264	.01 50V			WMF1S1	EFW1A110	QFT2-91	1FT-S10
C265	68		DD-680		GP468		10TS-Q68
C266	180 10%		DD-181		GP318		10TS-T18
C268	.015 50V			WMF1S15	M192P1539R8	QFT2-105	1FT-S15
C269	.047 50V			DPMS2S47	EFW1A147	QFT2-171	1FT-S47
C270	68		DD-680		GP468		10TS-Q68
C271	180 10%		DD-181		GP318		10TS-T18
C272	390 10%		DD-391		GP339		10TS-T39
C276	.001 10% 50V			DPMS6D1	EFW1A247	QFT2-1	1FT-D10
C277	.01		UK50-103		MAG5011		
C278	.01		UK50-103		MAG5011		
C279	.01		UK50-103		MAG5011		
C280	470		DD-471		GP347		10TS-T47
C301A		3598022 3596033 (4)		GP470			
C301B	.01		UK50-103		MAG5011		
C302	.01		UK50-103		MAG5011		
C303	.01		UK50-103		MAG5011		
C304	22 NPO		DTZ-22	NP022	CN0422		10TCC-Q22
C305	.01		UK50-103		MAG5011		
C306	.01		UK50-103		MAG5011		
C307	.01 50V			WMF1S1	EFW1A110	QFT2-91	1FT-S10
C309	.01		UK50-103		MAG5011		
C310	33 NPO 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C311	.01		UK50-103		MAG5011		
C312	2 NPO		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C313	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C314	33 NPO 10%		DTZ-33	NP033	CN0433		10TCC-Q33
C315	.01 50V			WMF1S1	EFW1A110	QFT2-91	1FT-S10
C316	15		DTZ-15	NP015	CN0415		10TCC-Q15
C317	.01 50V			WMF1S1	EFW1A110	QFT2-91	1FT-S10
C318	.01 50V			WMF1S1	EFW1A110	QFT2-91	1FT-S10
C320	2 NPO		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C322	8	YECC01H080DM					
C323	.01 50V			WMF1S1	EFW1A110	QFT2-91	1FT-S10
C324	.01 50V			WMF1S1	EFW1A110	QFT2-91	1FT-S10
C325	.01 50V			WMF1S1	EFW1A110	QFT2-91	1FT-S10
C326	.022 50V			OPMS2S22	EFW1A122	QFT2-127	1FT-S22
C327	.01		UK50-103		MAG5011		
C328	.01 50V			WMF1S1	EFW1A110	QFT2-91	1FT-S10
C330	.047 50V			OPMS2S47	EFW1A147	QFT2-171	1FT-S47
C331	.01 50V			WMF1S1	EFW1A110	QFT2-91	1FT-S10
C332	.01 50V			WMF1S1	EFW1A110	QFT2-91	1FT-S10
C333	.022 50V			OPMS2S22	EFW1A122	QFT2-127	1FT-S22
C334	150 10%		00-151		GP315		10TS-T15
C335	.001 10% 50V			DPMS6D1	EFW1A210	QFT2-1	1FT-D10
C336	68		DD-680		GP468		10TS-Q68
C337	.01		UK50-103		MAG5011		
C338	.1 12V		UK12-104		MAG1201		HY-360
C339	33		DTZ-33	NP033	CN0433		10TCC-Q33
C340	.01		UK50-103		MAG5011		
C341	.01		UK50-103		MAG5011		
C342	.018 50V				M192P1839R8		192P1839R8
C343	.01		UK50-103		MAG5011		
C345	470		DD-471	GP470			10TS-T47
C347	.1 12V		UK12-104		MAG1201		HY-360
C348	.01		UK50-103		MAG5011		
C351	.001 10% 50V			OPMS6D1	EFW1A210	QFT2-1	1FT-D10
C352	.0068 10% 50V			WMF1D68	EFW1A168	QFT2-73	1FT-D68
	.01			DPMS6D1	EFW1A210	QFT2-1	1FT-D10

CHRYSLER MODEL 4048076

## 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
C355	.047 50V			DPMS2S47	EFW1A147	QFT2-171	1FT-S47
C357	.01		UK50-103		MAG5011		
C358	.01		UK50-103		MAG5011		
C359	.01		UK50-103		MAG5011		
C404	.01		UK50-103		MAG5011		
C406	.01		UK50-103		MAG5011		
C408	.01		UK50-103		MAG5011		
C954	.1 12V		UK12-104		MAG1201		HY-360
C955	68		DD-680	GP6B	GP46B		10TS-Q68
C958	47		DTZ-47	NP047	CN0447		10TCC-Q47
C959	10 N470	YECCD1H100KT			*		10TCT-Q10
C960	10 N470	YECCD1H100KT			*		10TCT-Q10
C961	220 10%		DD-221		GP322		10TS-T22
C962	150 10%		DD-151		GP315		10TS-T15
C963	.1 12V		UK12-104		MAG1201		HY-360
C964	33		DTZ-33	NP033	CN0433		10TCC-Q33
C965	.01		UK50-103		MAG5011		
C966	.001B 10% 50V			DPMS6D2	PVC622		6PS-D20
C967	10		DTZ-10	NP010	CN0410		10TCC-Q10
C968	.01		UK50-103		MAG5011		
C969	22		DTZ-22	NP022	CN0422		10TCC-Q22
C970	22		DTZ-22	NP022	CN0422		10TCC-Q22
C971	33		DTZ-33	NP033	CN0433		10TCC-Q33
C972	.001 10% 50V		DTZ-33	NP033	CN0433	QFT2-1	1FT-D10
C974	50	ECV1ZM50X32		DPMS601	EFW1A210		
C975	.01-		UK50-103		MAG5011		
C977	82		DD-820		GP482		10TS-Q82
C978	.01		UK50-103		MAG5011		
C979	470		DD-471	GP470	GP347		10TS-T47
C980	470		DD-471	GP470	GP347		10TS-T47

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

(1) Not used in model 4048076.

(2) Used with GI Tuner.

(3) Used with SHOJI Tuner

(4) Used in some versions.

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
R21	Tone	45K	3598024(18)			
R21	Volume-Power Switch	45K Tap @ 15K				
	Tone	45K	3598223(19)			
R21A	Volume-Power Switch	45 Tap @ 15K				
	Tone-Left	45K	3598228(18)			
B	Tone-Right	45K	(22)			
C	Volume-Left	45K Tap @ 15K				
D	Volume-Right/Power Switch	45K Tap @ 15K				
R21A	Tone-Left	45K	3598140(19)			
B	Tone-Right	45K	(22)			
C	Volume-Left	45K Tap @ 15K				
D	Volume-Right/Power Switch	45K Tap @ 15K				
R301	Fader	40 2W	3598131(19)			
R301	Fader-L	40 2W	3598132(21)			
R301A	Fader-R	40 2W	3596258(19)(22)			
B	Fader-L	40 2W				
R301A	Fader-L	40 2W	3596795(22)(20)			
B	Fader-R	40 2W				
R302	Balance	45K	3597192(19)		MSD54L	US503L
R302	Balance	45K	3597216(18)		MSD54L	US503L
VR201	P Meter	50K	EVNK4AA00B54			U260R503B
VR202	Power ADJ	5000	EVNK4AA00B53			U260R502B
VR203	Freq Level	500K	EVNJ0AA00B55			U260R504B
VR251	AMC	5000	EVNK4AA00B53			U260R502B
VR301	S Meter	50K	EVNK4AA00B54			U260R503B
VR302	AGC Range	50K	EVNK4AA00B54			U260R503B
VR303	Squelch Range	20K	EVNK4AA00B24			U260R253B
VR304	Squelch/Switch	10K	EVHY93022B14			
VR305	Audio Gain	500	EVNJ0AA00B52			X260R501B

(18) Mallory part number.

(19) CTS part number.

(20) Centralab part number.

(21) Clarostat part number.

(22) Used in model 4048077.

## 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.

### RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
A1	Resistor Network		3597230(1)	R370	Resistor Network		EXBP86101K(3)
A2	Resistor Network		3597229(2)	TH301	10K Cold		ERTD2ZHK103S

- (1) Consists of one each 470, 110, 200K, 1K, 16K, 82K, 24K, 2.2K resistors.  
 (2) Consists of one each 1K, 18K, 30K, 1.5K, 6.8K, 140K, 82K, 2K resistors.  
 (3) Consists of six 100 ohm resistors.

### COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
I FT301	Rec Mixer (10.595MHz)	E1F7S755C			(1) Part of M1 (Tuner).
I FT302	Rec Mixer (10.595MHz)	E1F7S755C			
I FT303	Rec Mixer (455kHz)	YEIA07S70750			
I FT304	Rec IF (455kHz)	YEIA07S70750			
I FT305	Rec IF (455kHz)	YEIA10S7386	EIA086		
L1	RF Choke (2.2uH)	3596331			
L2	AM Antenna	(1)			
L3	AM RF	(1)			
L4	AM Osc.	(1)			
L5	RF Choke (50mH)	3596247			
L101	FM Antenna	(1)			
L102	FM RF	(1)			
L103	FM Osc.	(1)			
L104	RF Choke (27uH)	3597235			
L201	Antenna Matching	YELT04H017			
L202	Pi Filter	YELT04N017			
L203	Pi Filter	YELT04N017			
L204	Final Tuning (27MHz)	E1V10H43			
L205	RF Choke	YELT04N018			
L206	XMT Driver (27MHz)	E1V10H43			
L207	RF Choke	YELQ04N009			
L3018	RF Choke	YELT04C021			
T1	AM IF (262.5kHz)	3597234			
T2	AM IF (262.5kHz)	3597247			
T101	FM IF (10.7MHz)	3596400	7703HK		
T102	FM Detector (10.7MHz)	3596807			
T103	FM MPX Coil (76kHz)	3596806			
T201	XMT Buffer (27MHz)	E1V7E701A			
T202	XMT Buffer (27MHz)	E1V7E701A			
T203	XMT Mixer (27MHz)	E1V7E701A			
T301	Rec Antenna (27MHz)	E1V7E7048			
T302	Rec RF (27MHz)	E1V7E701A			
T303	Rec RF (27MHz)	E1V7E701A			
T304	Noise Blanker	E1V7E701A			
T906	VCO	E1V7E704A			
T907	VCO Buffer (17MHz)	E1F7S7578			
T908	VCO Buffer (17MHz)	E1V7E704A			

### 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	1A	.306	3.8mH	YELT04N021 3597201(1)			(1) Number on unit.

CHRYSLER MODEL 4048076

## 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.

### TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T204	B	38.42	YETM124X002 TM002(1)			(1) Number on unit.

### MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA							
	MFR. PART No.	GC PART No.	GC NOISE CANCEL	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black	
MIC	WM2291X	1B-032	1B-034	1B-010	1B-105	1	3	2	NC	NC	5	

### MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF201	Filter	EFCS27MT1	27MHz
CF202	Filter	YEIN09N5004D	10.7MHz
CF301	Filter	YEIC07D2006A	455kHz
CF302	Filter	YEIN09N5004D	10.7MHz
CN301	Connector	EMCS1001	10 Pin, on CB board.
CM451	Jack	YEAT07022	Mic
D316-D321	LED	YEADMV5274B	Meter S/Rf
FB101	Ferrite Bead	3596355	
FB102	Ferrite Bead	3596355	
FB103	Ferrite Bead	3596355	
FB104	Ferrite Bead	3596355	
FB105	Ferrite Bead	3596355	
FB106	Ferrite Bead	3596355	
FL101	Filter	3598430	10.7MHz
	Filter	3597298	10.7MHz, Optional
FL102	Filter	3598430	10.7MHz
	Filter	3597298	10.7MHz, Optional
J2	Cable Assembly	3598127	Speakers, Model 4048076
	Cable Assembly	3598134	Speakers, Model 4048077
J3	Cable Assembly	3598139	DC Power
J4	Cable Assembly	3598135	Dial Lamp
J5	Cable Assembly	3598229	Display Dimmer
J6	Socket	3597202	Radio Antenna
J201	Connector	YEAEO1096	CB Antenna
LP1	Lamp	3598235	Dial, #1B15 (13.80V @ 75mA)
LP2	Lamp	3598270	Stereo Indicator #73 (12.08V @ 75mA)
M1	Tuner	3598031	Model 4048076
	Tuner	3598338	Model 4048076, Optional
	Tuner	3598032	Model 4048077
	Tuner	3598339	Model 4048077, Optional
	Coil Deck Assembly	3598056	Model 4048076
	Coil Deck Assembly	3598057	Model 4048077
M2	Digital Display	YEAL992BT04	Channel Readout, 7-Segment Gas Tube
P4	Cable Assembly	3598138	10 Pin; Radio-to-CB Subassembly, Model 4048076
	Cable Assembly	3598137	Radio-to-CB Subassembly, Model 4048077



## 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.

### MISCELLANEOUS (cont)

ITEM No.	PART NAME	PART No.	NOTES
S1	Switch	3597167	Power (Part of volume control)
S301	Switch	3597168	AM/FM
Sw301	Switch	YEAS09066	AM/FM, Optional
Sw302	Switch	YEAS09067	NB (Part of squelch control)
Sw303	Switch	YEAS07051	Monitor
Sw905	Switch	YEXLHC18U016	CB/Radio
X201	Crystal	YEXLHC18U018	Channel Selector
X301	Crystal	YEXLHC18U015	10.595MHz
X902	Crystal	3598231	10.140MHz
	Printed Circuit Board	3598232	10.240MHz
	Printed Circuit Board	YEAP464	AM/Audio, Model 4048076
	Printed Circuit Board	3598234	AM/Audio, Model 4048077
	Printed Circuit Board	3598011	Flexible (Channel Display)
	Subassembly		FM
			CB, Complete

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

ITEM	PART No.	ITEM	PART No.
Cover, Bottom, CB Subassembly	YEFA05137	Knob, AM/FM	3598048 (2)
Cover, Top, Main Chassis	3597182	Knob, Balance Control	3598049
Cover, Upper, CB Subassembly	YEFA03243	Push-button, CB + Monitor	3598050
Escutcheon Assembly	3598044 (1)	Push-button, Tuner	3596860
Escutcheon Assembly	3598043 (2)	Sub-escutcheon Assembly	3598046 (1)
Front Plate, CB Subassembly	YEFA07027	Sub-escutcheon Assembly	3598047 (2)
		Tuner Pointer Assembly	3598052

(1) Model 4048076.  
(2) Model 4048077.

### WIRING DATA

General-use Hook-up Wire (available in 5 colors)	BELDEN No. 8523	Coiled Microphone Cable	
Shielded Hook-up Wire (spiral wrapped)	BELDEN No. 8421	3-conductor (1 shielded)	23AWG BELDEN No. 9471 (5')
(braided)	BELDEN No. 8401		BELDEN No. 8497 (6')
Speaker Cable (available in 4 colors)	BELDEN No. 8782		BELDEN No. 9472 (7-1/2')
Bonding Strap	BELDEN No. 8672		28AWG BELDEN No. 9466 (6')
AC Power Cord	(6') BELDEN No. 17106		31AWG BELDEN No. 9468 (10')
	(9') BELDEN No. 17109	4-conductor (unshielded)	23AWG BELDEN No. 9415 (6')
		5-conductor (1 shielded)	28AWG BELDEN No. 9467 (6')
			BELDEN No. 9465 (7-1/2')

CHRYSLER MODEL 4048076

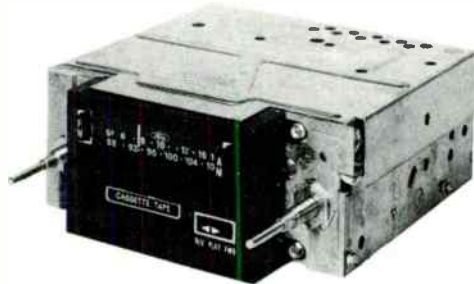




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MODEL D8DF-19A198AA, AB(78 Ford, Mercury)

FORD/LINCOLN MODEL D8DF-19A198AA, AB

**ALIGNMENT INSTRUCTIONS**

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

Suggested Alignment Tools: GC ELECTRONICS:  
 T101, T102, T103, T201, T202 ..... 9296, 9297, 9300  
 T104, T105 ..... 9440  
 VC101, VC102, VC103 ..... 5000, 8277, 9089

**PUSH-BUTTON ADJUSTMENT**

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

**FM STEREO ALIGNMENT USING AUDIO GENERATOR**

High side of generator to junction of D202, Pin 1 of N202

GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
400Hz	Output meter on VTVM from J202 (71) to J202 (72).	VR504	Adjust for MINIMUM.

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

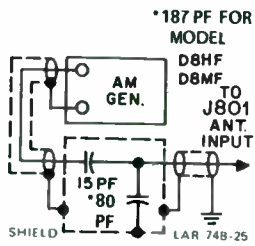
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**AM ALIGNMENT**  
**AM-FM STEREO RADIO/TAPE PLAYER MODEL D8DF**  
**PRELIMINARY INFORMATION**

1. Disassemble radio as required.
2. Connect +14 VDC output from power supply to A+ cable lead, and negative lead of power supply to chassis ground.
3. Connect VTVM or scope to R203 for indication of AM audio output (junction of C212, C213 and R203). (See step 5.)
4. Connect AM signal generator as directed in AM ALIGNMENT procedure. (See diagram D for the dummy antenna circuit and for value of shunt capacitor to be used to obtain desired antenna pre-trim.)
5. Depress AM mode push button for AM operation.

NOTE: Antenna trimmer VC104 is preset using a dummy antenna of total series and shunt capacitance as specified in diagram D. No further adjustment in the vehicle is recommended.

**AM ALIGNMENT PROCEDURE**

STEP	SPECIAL INSTRUCTIONS	SIGNAL GENERATOR		RECEIVER	
		CONNECTION TO RECEIVER	DIAL SETTING	DIAL SETTING	ADJUST
1	Follow preliminary instructions.	To Q202 base (converter) thru .1MF capacitor.	262.5KHz	1000KHz	T202 for max.
2	Same as step 1.	Same as step 1.	262.5KHz	1000KHz	T202 for max.
3	Same as step 1.	Same as step 1.	262.5KHz	1000KHz	T201 for max.
4	Same as step 1.	Same as step 1.	262.5KHz	1000KHz	T201 for max.
5	Reassemble radio with exception of cover. Connect +14 VDC to A+ cable lead of radio. Remove J202 from P401 on fader panel & connect a 3.2 ohm load resistor between the blue or yellow lead of J202 & black leads or set fader control to mid-range & connect the 3.2 ohm load resistor between either pin 4 or pin 5 of output socket P804 & chassis gnd. Connect VTVM or scope across load resistor. Set volume control to max. & adjust generator as the alignment proceeds to maintain 1.8V RMS across the load resistor.	Thru dummy antenna (diagram D) to antenna input  	1610KHz	1610KHz	1. VC201 (osc.) max. 2. VC202 (R. F.) max. 3. VC104 (ant.) max. (Repeat)
<b>PERFORM THE FOLLOWING ALIGNMENT PROCEDURE ONLY IF TUNING COIL OR CORES HAVE BEEN REPLACED, FACTORY INSTALLED TUNER ASSEMBLIES ARE FACTORY ALIGNED.</b>					
1 - 4	Same as above.				
5	Remove bezel & sub dial. Rotate screw part of all three AM cores counterclockwise as much as possible; then follow step 5 above except do not reassemble bezel and sub dial. **	Thru dummy antenna to antenna input. (Refer to diagram D for dummy antenna.)	1610KHz	1610KHz	1. VC201 (osc.) max. 2. VC202 (R. F.) max. 3. VC104 (ant.) max. (Repeat)
6	Tune coils by adjusting screw part of each core.	Same as step 5.	1000KHz	1000KHz	1. L302 (osc.) max. 2. L303 (R. F.) max. 3. L301 (ant.) max. (Repeat)
7	Repeat adjustments in steps 5 and 6, if necessary, to improve dial tracking.				
8	After dial tracking is completed, cement brass screw part of each core to its grommet on carriage housing. Reassemble sub dial, bezel, and cover.				

\*\*CAUTION: Avoid scratching sub dial on removal.

Courtesy of the Manufacturer

## ALIGNMENT INFORMATION

### FM ALIGNMENT

AM-FM STEREO RADIO/TAPE PLAYER MODEL D8DF

#### EQUIPMENT

1. Power Supply — Hewlett Packard 6285A or equivalent.
2. A-C VTVM — Hewlett Packard 400H or equivalent.
3. FM Generator — Boonton 202H or equivalent.
4. Oscilloscope — Tektronix 504 or equivalent.
5. RF Voltmeter or Detector Probe (See diagram A for information on building an RF detector probe.).
6. Varactor supply voltage from AM tuner panel.
7. Distortion Analyzer — Hewlett Packard 330B or equivalent.

#### SERVICE NOTES

Before proceeding with the FM alignment, read the Service Notes and follow preliminary information steps 1 through 3 under VARACTOR POWER SUPPLY ALIGNMENT to determine whether the varactor voltages are within acceptable limits.

Use a VTVM with an input impedance of 1 megohm or greater for voltage measurements. A wiring method as shown in Figure 22 can be used when performing FM alignment.

#### PRELIMINARY INFORMATION

1. Connect RF signal generator through dummy antenna to antenna input jack J801. (Refer to Diagram C for dummy antenna configuration.) Use 400 Hz modulation,  $\pm 25$  kHz deviation signal at frequency indicated and keep generator output at 1 millivolt in complete FM alignment procedure (except where otherwise indicated).
2. Use test point P102 (22) for indication of FM audio output.

#### PARTIAL FM ALIGNMENT PROCEDURE FOLLOWING PARTS REPLACEMENT

When replacing a component on the FM tuner panel, alignment should be performed only on the component replaced. The procedure in each case is shown in simplified chart form below.

PART REPLACED	GENERATOR SETTING	ADJUSTMENT FOR MAX. OUTPUT
T103	88MHz	T103
VC103	108 MHz	VC103
VC101, VC102	108MHz	Only the capacitor or capacitors replaced
T101, T102	88 MHz	Only the coil or transformer replaced
VRAC103	108 MHz	VC103
	88 MHz	T103
VRAC101	108MHz	The associated capacitor (VC101 or VC102)
VRAC102	92MHz	The associated coil or transformer (T101 or T102)
T105 FM Detector Coil	Follow procedure as explained in step 14 of COMPLETE FM ALIGNMENT PROCEDURE.	

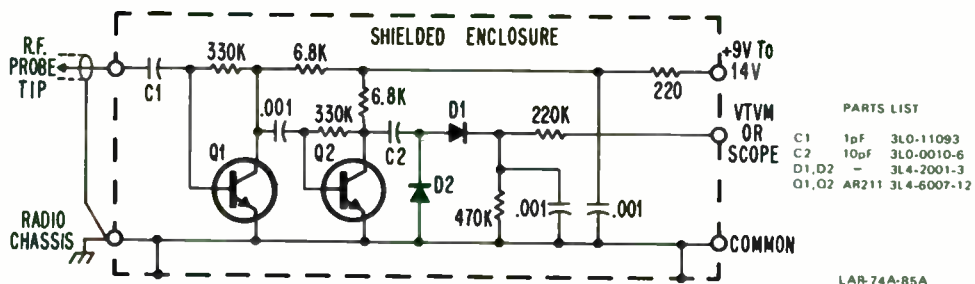


DIAGRAM A. RF DETECTOR PROBE SCHEMATIC

Courtesy of the Manufacturer

FORD/LINCOLN MODEL D8DF-19A198AA,AB

### COMPLETE FM ALIGNMENT PROCEDURE

STEP	PROCEDURE
1	Connect VTVM or scope to test point P102 (22) for indication of FM audio output.
2	Apply 1.8 to 2.0 VDC from low impedance source (50 ohms or less) to base of Q101 to defeat AGC or ground collector of Q104.
3	Connect RF voltmeter or scope to output of F102 (junction of F102 and R132). (If RF voltmeter is not available, use detector probe suggested in Diagram A.)
4	Pull out high end pushbutton to unlock. Manually tune radio to 108 MHz for varactor tuning voltage into FM panel P101 (14) of +6.5 VDC on VTVM. Push the button in to lock-in voltage setting.
5	Set generator to 108MHz.
6	Adjust oscillator trimmer VC103, antenna trimmer VC101, and RF trimmer VC102 for max. output on scope or meter. Adjust generator output as needed to prevent limiting in N101.
7	Pull out low end pushbutton to unlock. Manually tune radio to 88MHz for varactor tuning voltage of 0.75 VDC on VTVM. Push the button in to lock-in voltage setting.
8	Set generator to 88MHz.
9	Adjust oscillator transformer T103, antenna coil T101 and RF transformer T102 for max. output on scope or meter.
10	Repeat steps 5 and 6. If output reading on scope or meter is within 1 dB of max. output, no further tuning is required. If output reading is not within limit specified, repeat steps 6 through 10 until output is within the limit.
11	Tune radio to 98MHz. Set generator to 98MHz, 75KHz deviation, and 1 millivolt output. Record audio output level.
12	Align FM detector as follows: a. Adjust generator frequency for max. output at pin 4-of IC101. b. Set generator to 75KHz deviation, 400Hz modulated signal at 1 millivolt output. c. Adjust FM detector coil T105 for max. output on scope of meter. d. Adjust generator frequency for min. distortion in output indication. e. At null point, readjust T105 for max. output on scope or meter.

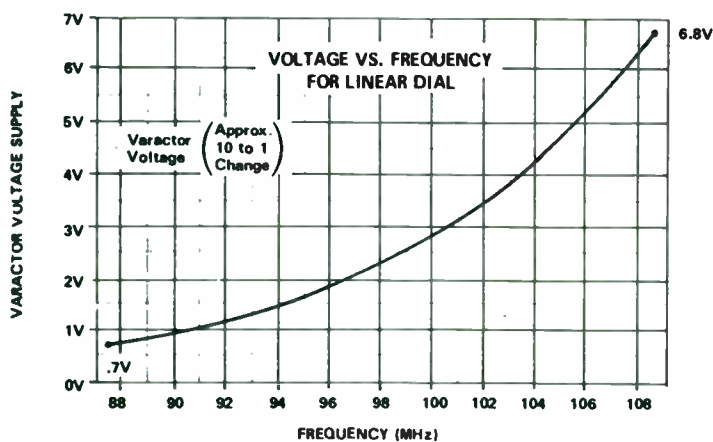


DIAGRAM B. FM VOLTAGE TUNING CHART

Courtesy of the Manufacturer

**VARACTOR POWER SUPPLY ALIGNMENT**  
**AM-FM STEREO RADIO/TAPE PLAYER MODEL D8DF**

**SERVICE NOTES**

Follow preliminary information steps 1 through 3 below to determine whether the varactor power supply requires complete alignment.

The FM voltage tuning chart in Diagram B can be used as a visual aid to determine whether complete alignment is required.

**PRELIMINARY INFORMATION**

1. Disconnect J301 from FM panel and connect +14 VDC output from power supply to A+ cable lead, and negative lead of power supply to radio chassis.
2. Depress FM mode push button for FM operation.
3. To determine whether varactor power supply alignment is necessary, use VTVM to measure VRAC tuning voltage at P101 (14) under conditions listed below. (If any voltage measured is not within limits specified, proceed with COMPLETE VARACTOR ALIGNMENT procedure.)
  - a. Dial pointer set to extreme high end (at stop) — output on VTVM should be 6.6VDC or greater.
  - b. Dial pointer set to 94MHz — output on VTVM should be 1.4 to 1.6 VDC.
  - c. Dial pointer set to extreme low end (at stop) — output on VTVM should be 0.72 VDC or less.

STEP	PROCEDURES
1	Dissassemble radio as required
2	Set pointer to 98 MHz (lightly press a push button to release clutch).† Adjust core of L304 for 2.30 VDC on VTVM at J301 (14).
3	Check voltages at extreme ends of tuner travel. These voltages should be 0.72 VDC, or less at low end, and 6.6 VDC, or greater at the high end.
4	Adjustment of the core can be made at 98 MHz to meet this minimum tuning voltage range or to center the tuning voltage range.

† It is necessary to release the clutch in order to remove the spring tension on the paddle bar at the extreme ends of the dial. This is done to get repeatability of dial end setting.

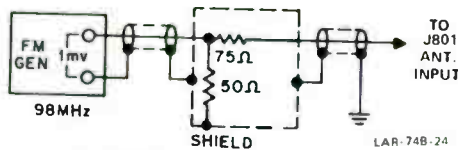


DIAGRAM C. FM DUMMY ANTENNA

Courtesy of the Manufacturer

FORD/LINCOLN MODEL D8DF-19A198AA AB

**MPX ALIGNMENT**  
**AM-FM STEREO RADIO/TAPE PLAYER MODEL D8DF**

**EQUIPMENT**

Frequency Counter — Itron 600 or equivalent.

**SERVICE NOTES**

Good multiplex operation requires proper alignment of FM RF, I. F., and detector circuits.

This phase-locked loop IC multiplex decoder system is quite simple to align as only adjustment of the 76KHz oscillator is required. This system also provides inherent rejection of unwanted signals, such as SCA, and rejection of supply line transients since the IC has an internal power supply regulator.

**PRELIMINARY INFORMATION**

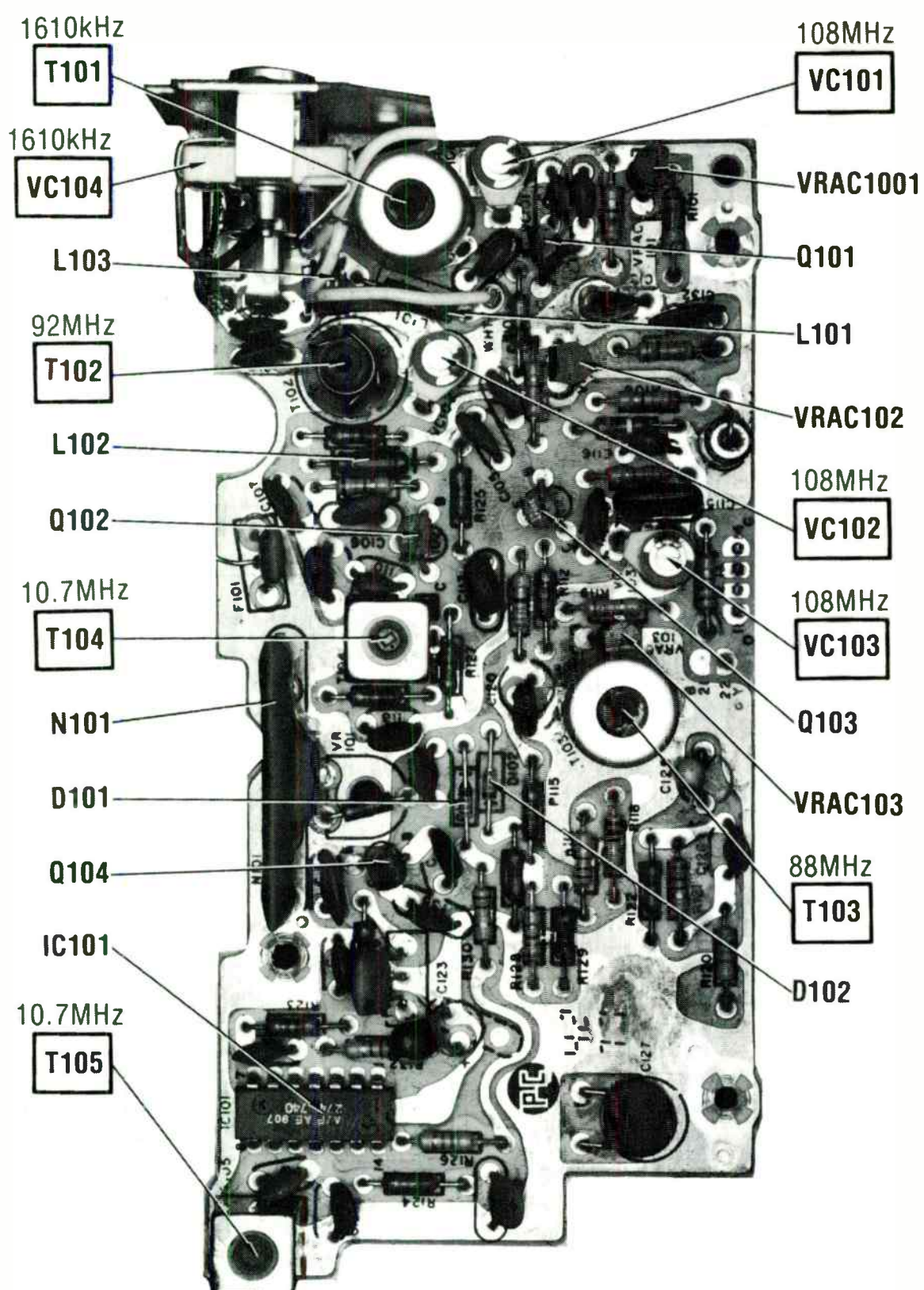
1. Connect +14 VDC output from power supply to A+ cable lead, and negative lead of power supply to radio chassis.
2. Use 76KHz oscillator test point (pin 11, IC201) for indication of oscillator output. (Do not short to adjacent pins when using pin 11 as test point.) (FM Mode)
3. Tune radio to unmodulated FM signal of about 1.0 mv (to quiet FM noise) or disconnect J201 (21 and 22) connector from FM panel.

**MPX ALIGNMENT PROCEDURE**

STEP	PROCEDURE
1	Connect frequency counter to 76KHz osc. test point.
2	Adjust 76KHz osc. control VR201 for 18,950 to 19,050 Hz on frequency counter.

**Courtesy of the Manufacturer**





FORD/LINCOLN MODEL D8DF-19A198AA,AB

FM BOARD

# CLEANING                      LUBRICATING HEAD DEMAGNETIZING

Refer to "General Servicing Information"  
on page 4.

## 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 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 in. 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 3/4 oz. No adjustment provided.
Fast Forward Torque	Nominal value 1 oz. No adjustment provided.
Rewind Torque	Nominal value 1 oz. No adjustment provided.
Pressure Roller Pressure	Nominal value 14 oz. No adjustment provided.
Head Azimuth	Connect meter across left (right) output; play an azimuth-test tape and adjust screw 8 for maximum output.

## 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 2 dirty, worn or binding. Gears 16C, 16D dirty, worn or binding. Pulley 16E dirty, worn or binding.
Take-up erratic or inoperative in fast forward	Spindle 2 dirty, worn or binding. Gear 16A dirty, worn or binding.
Rewind erratic or inoperative	Spindle 3 dirty, worn or binding. Gears 16A, 16B dirty, worn or binding.
Capstan does not rotate	Belt 1 dirty, worn or broken. Flywheel binding. Motor defective or not supplied with power.
Wow or flutter	Roller 16H dirty or worn. Belt 1 dirty or worn. Bearing 16G binding. Cassette defective. Motor defective. Excessive take-up torque.

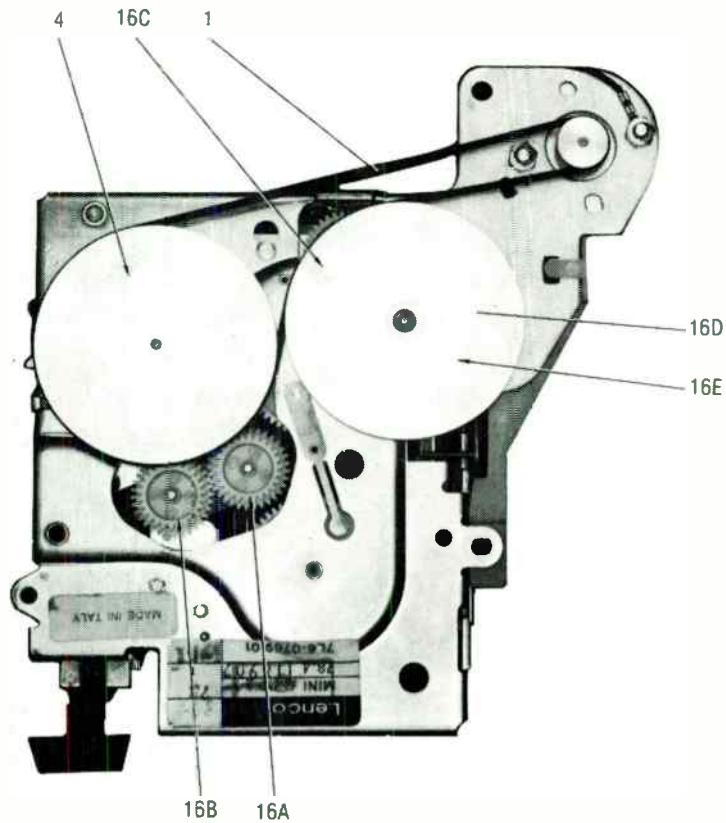
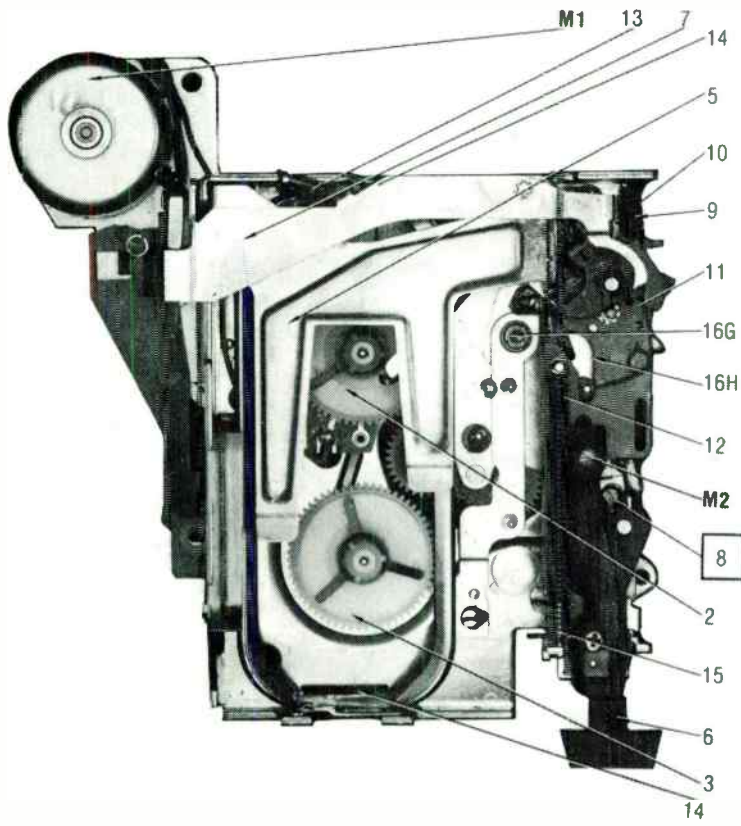
## MECHANICAL PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1*	7L6-0742-17*	Flywheel Drive Belt*	13	7L6-0742-7	Latch Lever Spring
2	7L6-0742-14	Take-up Spindle	14	7L6-0742-9	Lifting Arm Springs (2 Used)
3	7L6-0742-14	Supply Spindle	15	7L6-0742-23	Slide Spring
4	7L6-0742-16	Flywheel Assembly	16	7L6-0688-1	Cassette Assembly
5	7L6-0742-31	Cassette Lever	16A	(1)	Fast Forward Idler Gear
6	7L6-0742-21	Pause Lever	16B	(1)	Rewind Idler Gear
7	7L6-0742-15	Latch Lever	16C	(1)	Take-up Drive Gear
8	7L6-0742-30	Azimuth Adjust Screw	16D	(1)	Take-up Gear
9	7L6-0742-10	Eject Spring	16E	(1)	Take-up Flywheel Pulley
10	7L6-0742-29	Idler Spring	16G	(1)	Capstan Bearing
11	7L6-0742-10	Bracket Spring	16H*	(1)*	Pinch Roller*
12	7L6-0742-7	Pause Lever Spring			

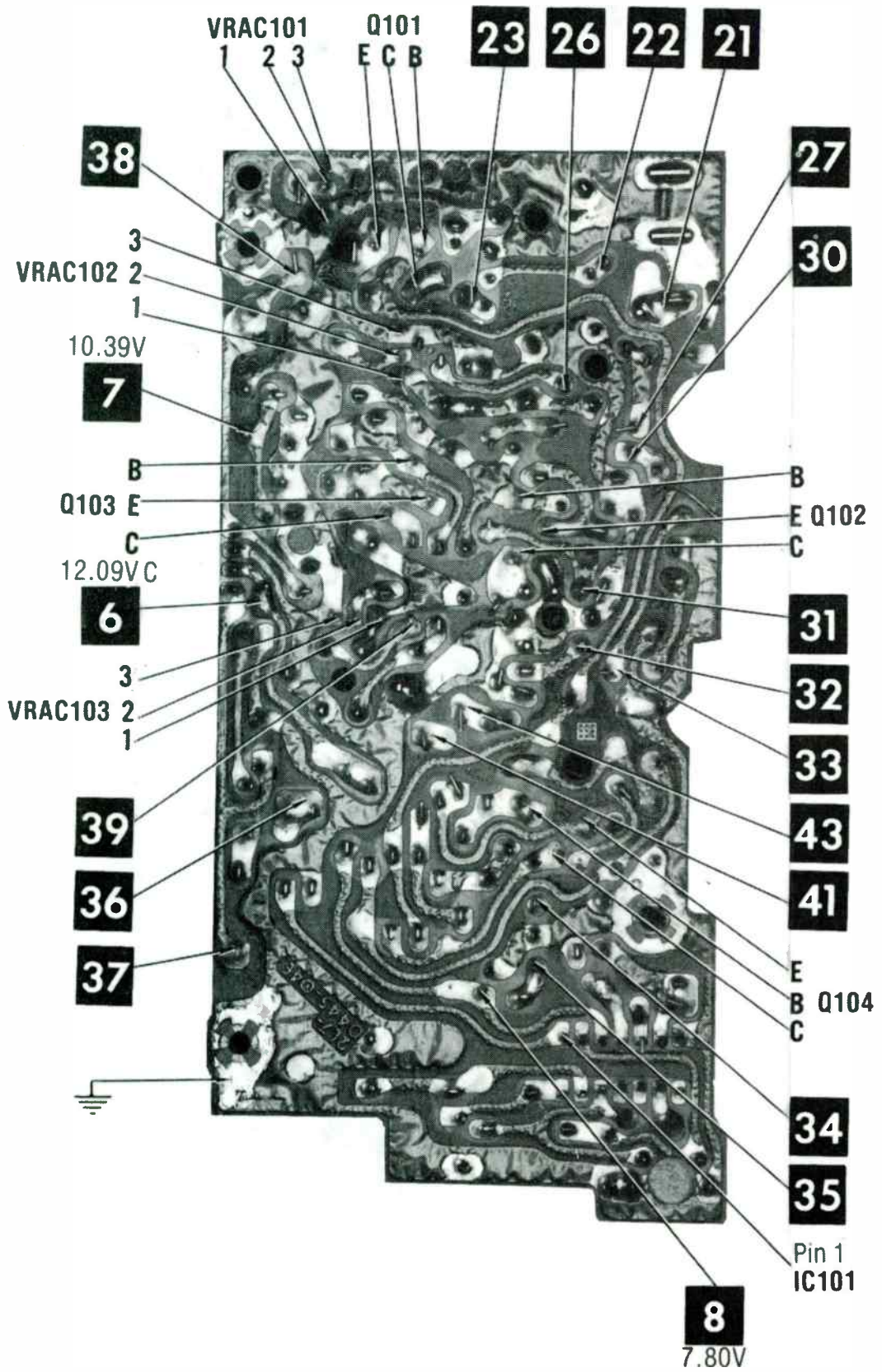
(1) Part of Assembly #16.

\* Flywheel Drive Belt E-V/Game Replacement Number 1407-49.  
Walsco Replacement Number 1425-34.

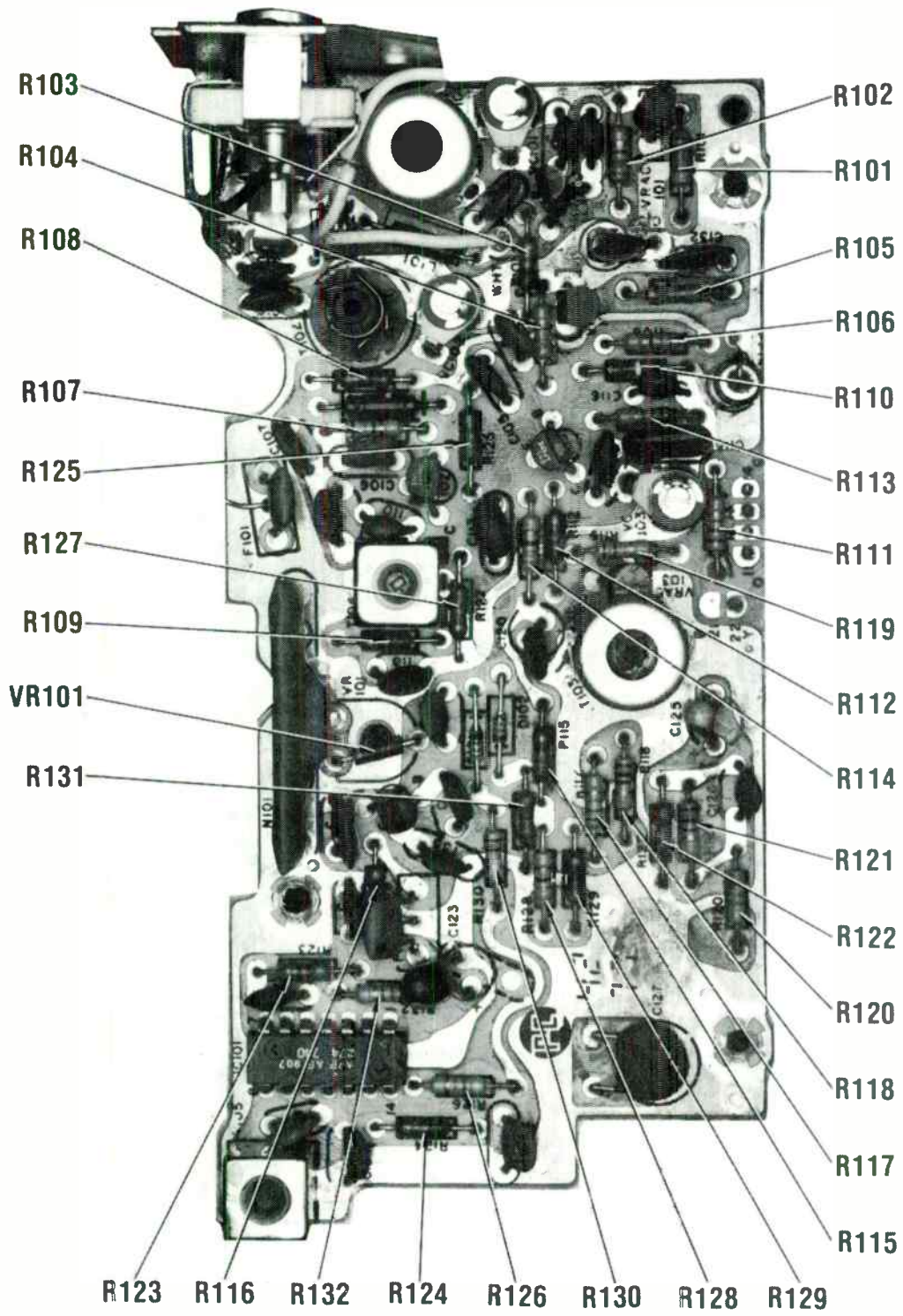
\* Pinch Roller E-V/Game Replacement Number 1499-70.  
Walsco Replacement Number 1499-70.



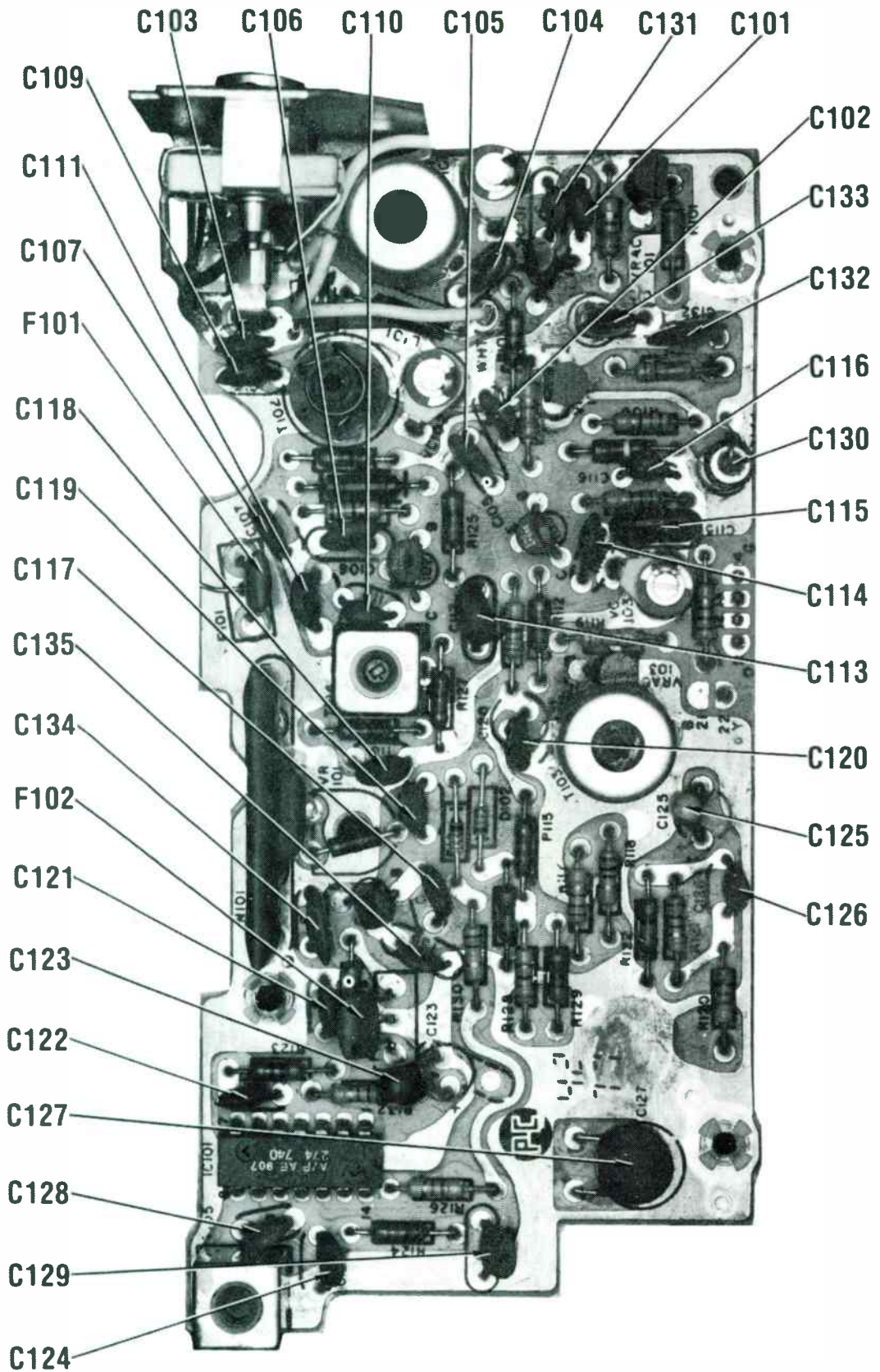
TAPE DECK-TOP/BOTTOM



FM BOARD

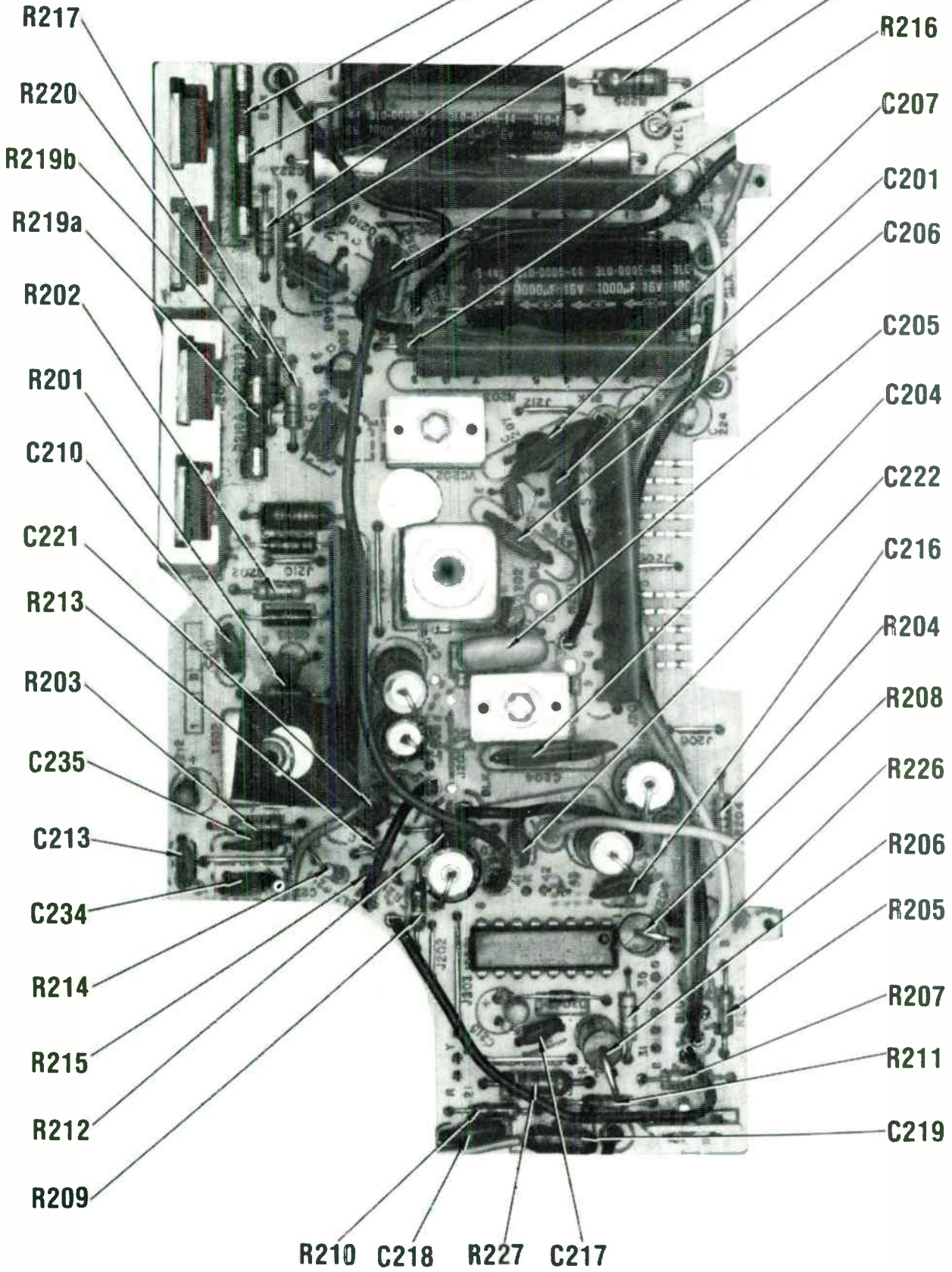


FM BOARD

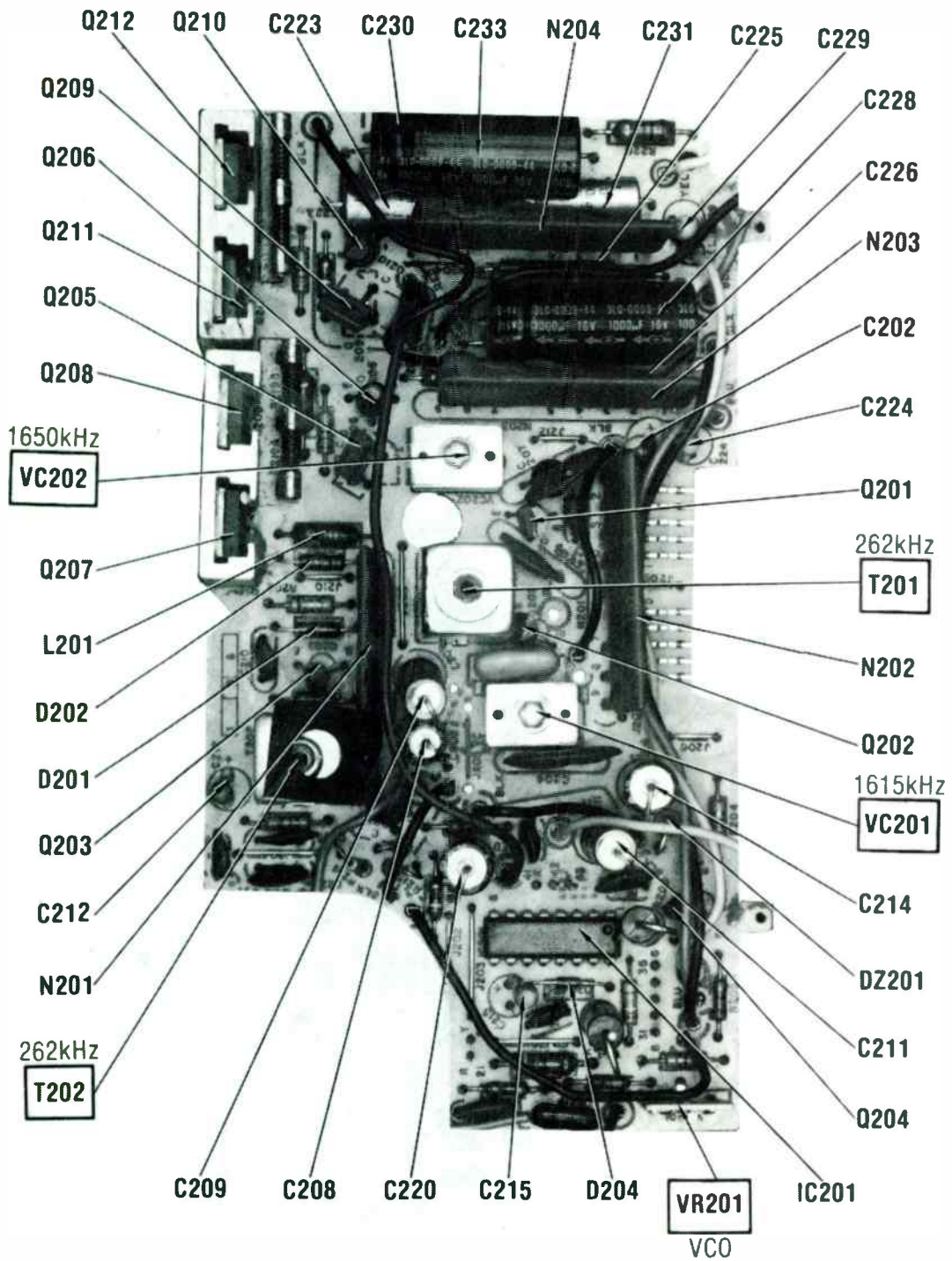


FM BOARD

R224b R224a R222 R221 R225 C203

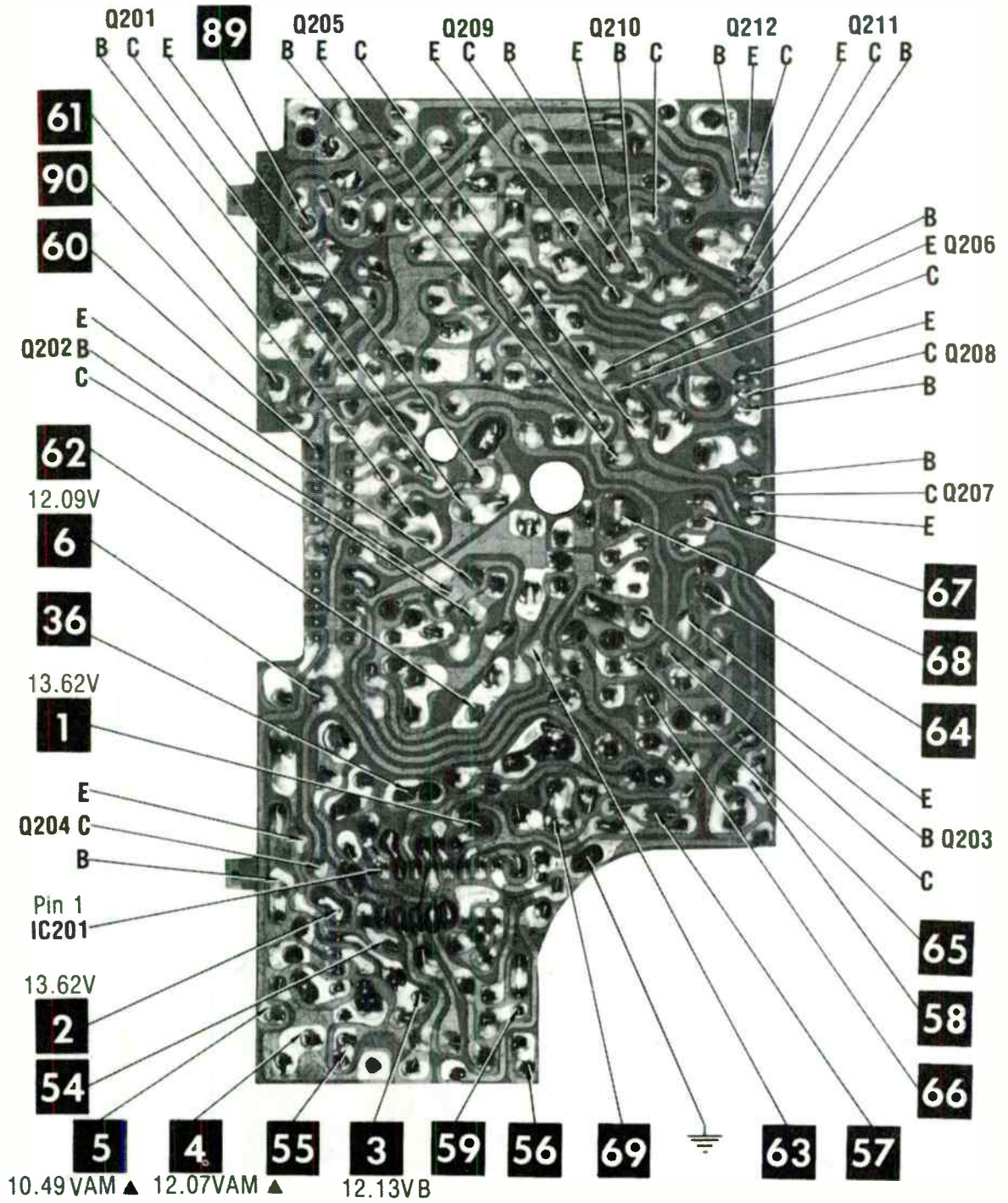


MAIN BOARD



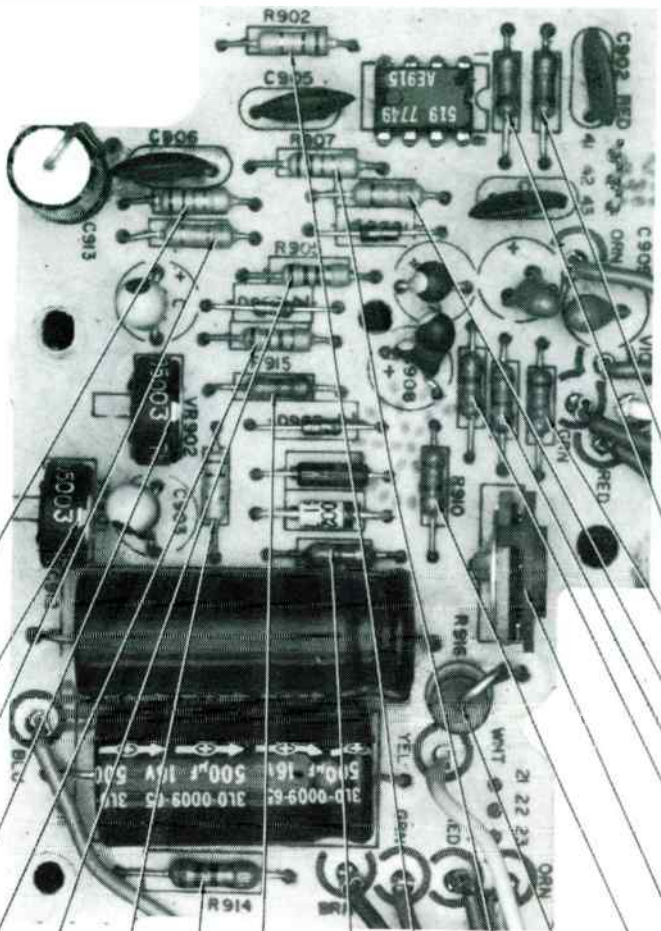
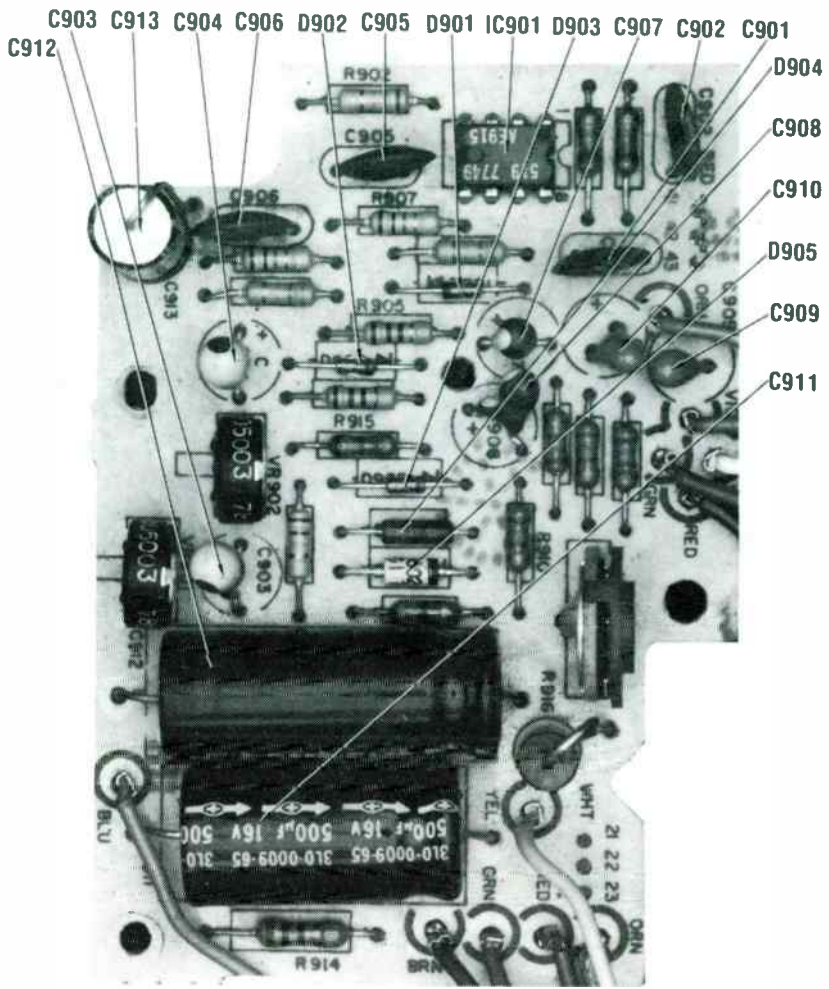
**MAIN BOARD**



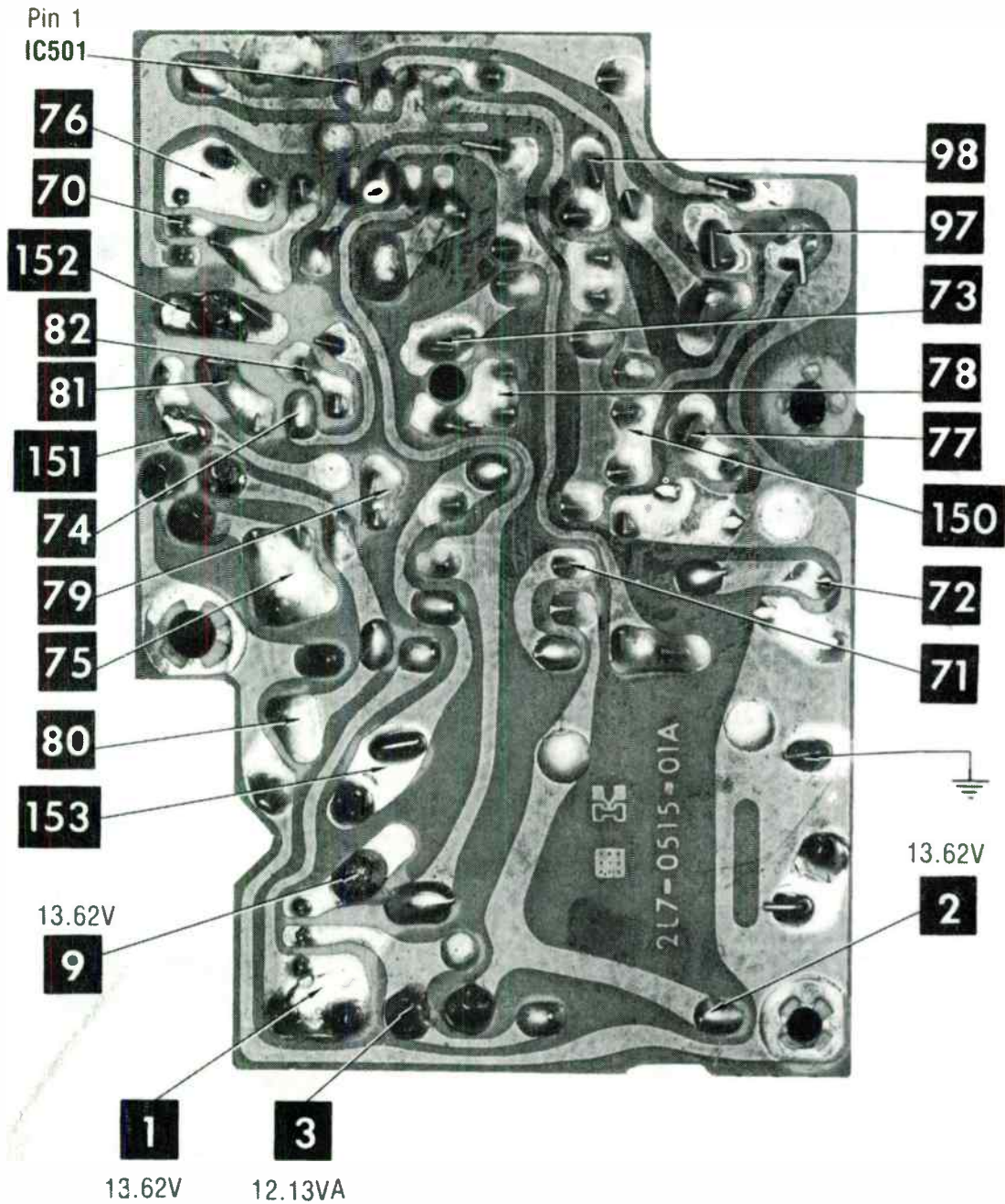


FORD/LINCOLN MODEL D8DF-19A198AA, AB

MAIN BOARD

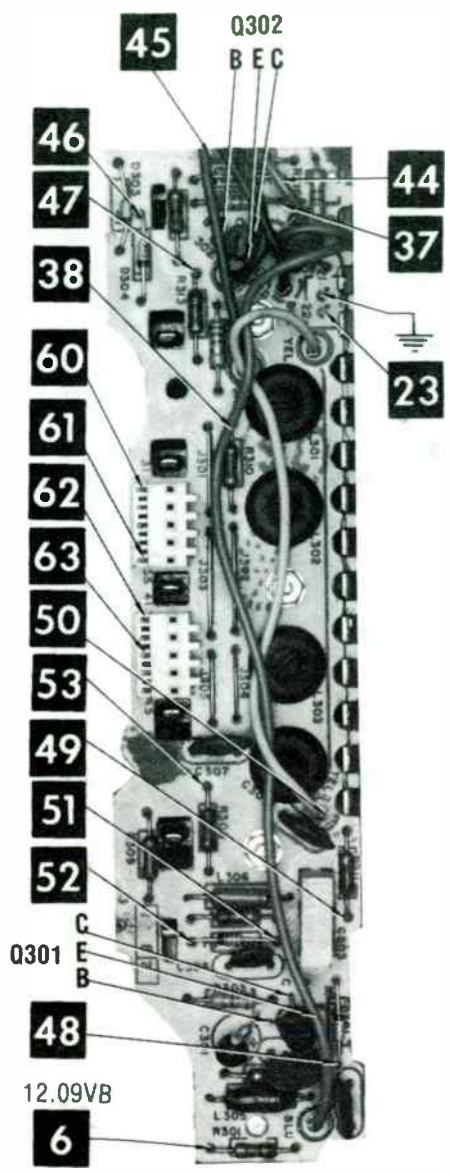
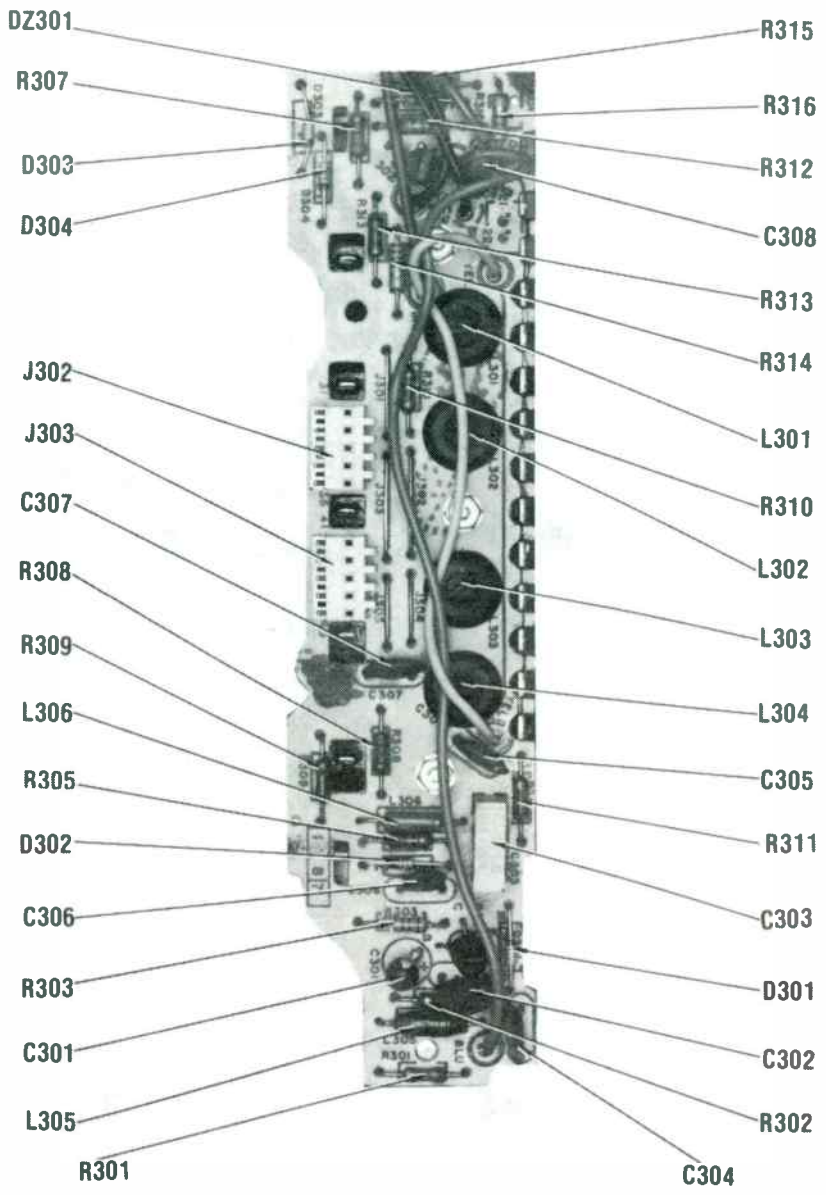


PREAMP BOARD

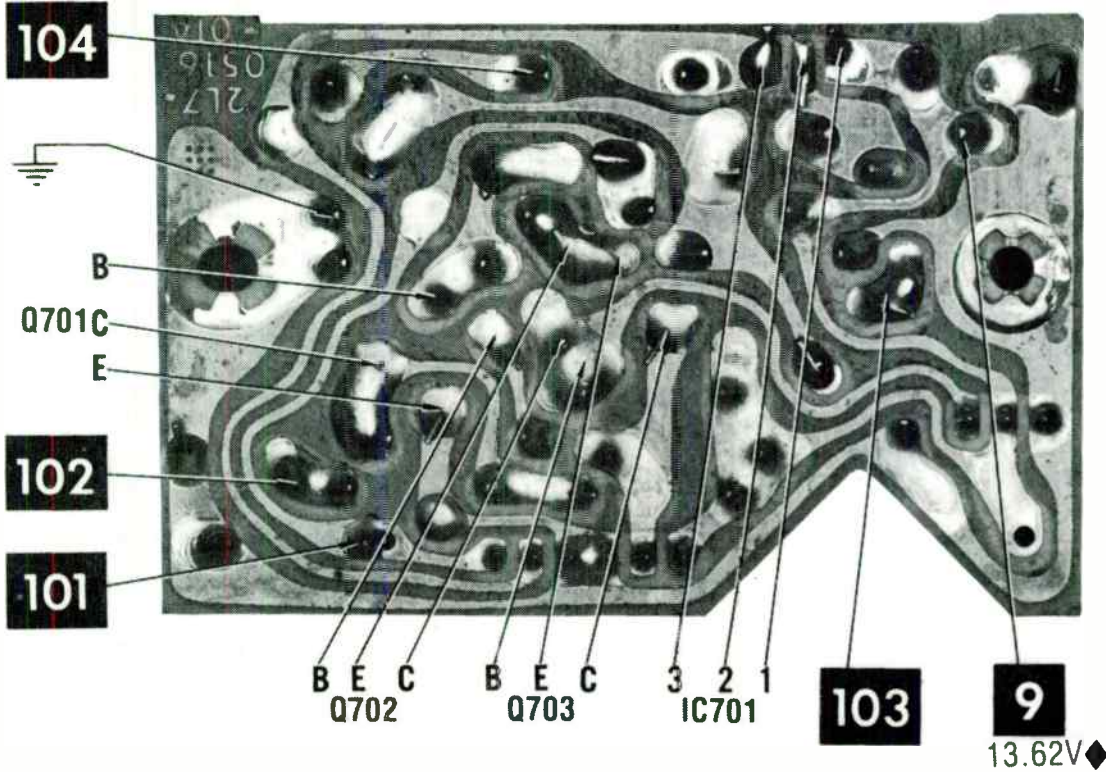


FORD/LINCOLN MODEL D8DF-19A198AA,AB

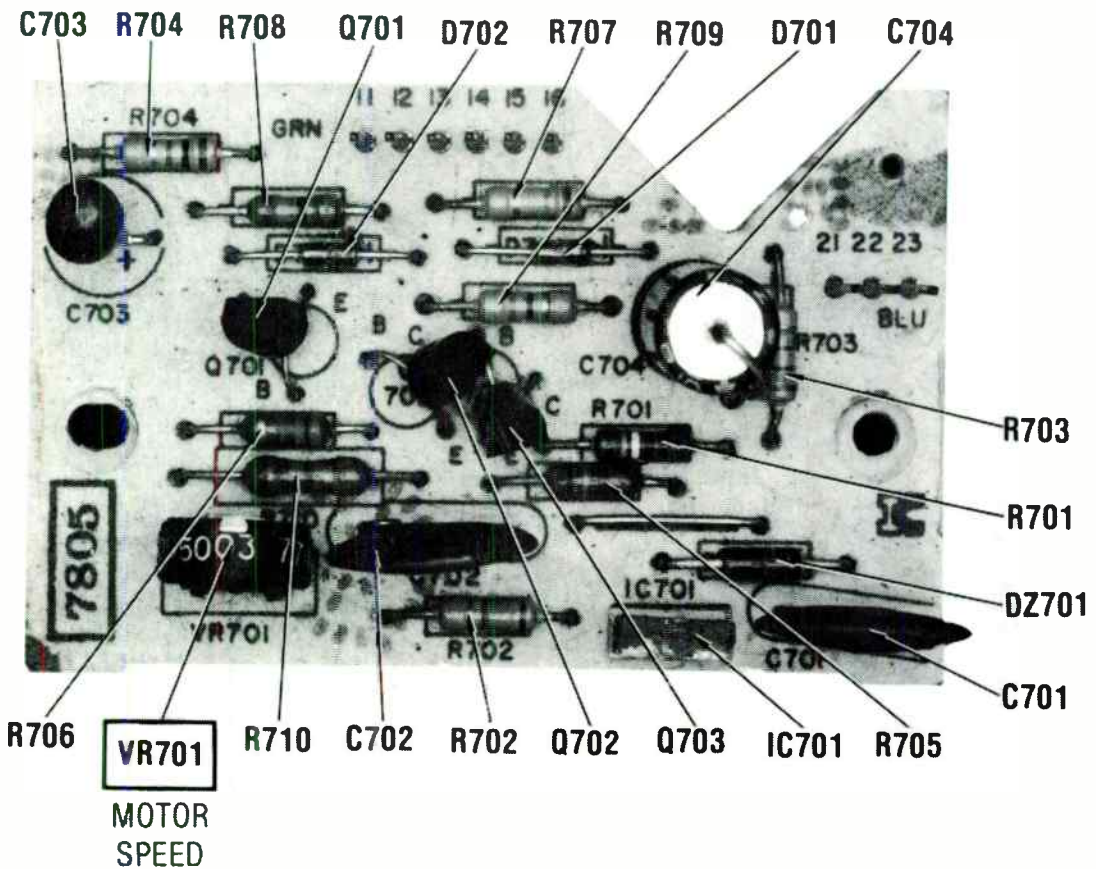
PREAMP BOARD



**POWER SUPPLY BOARD**

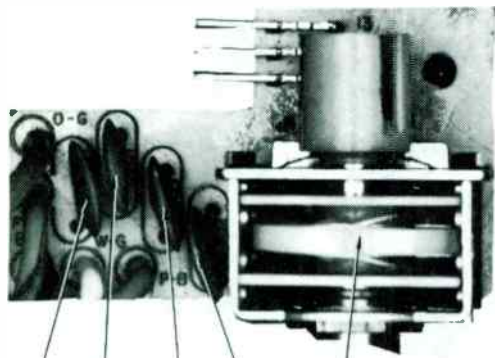


◆ TAPE

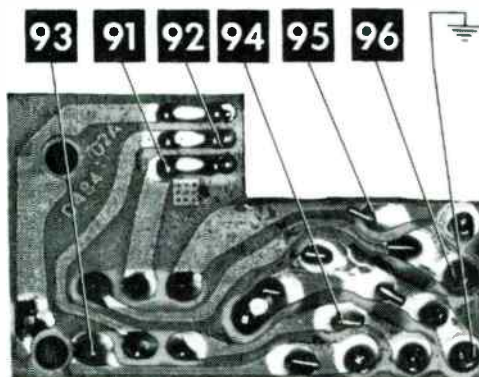


MOTOR CONTROL BOARD

FORD/LINCOLN MODEL D8DF-19A198AA,AB

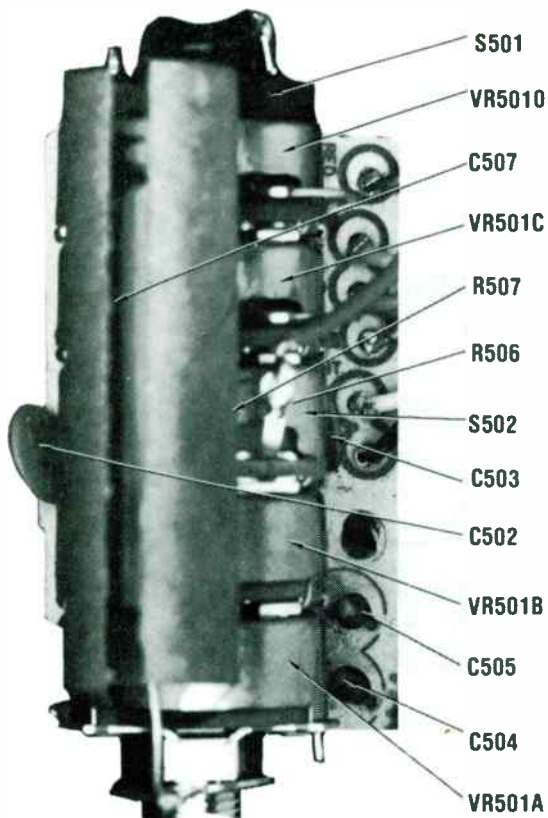


C404 C401 C403 C402 VR401

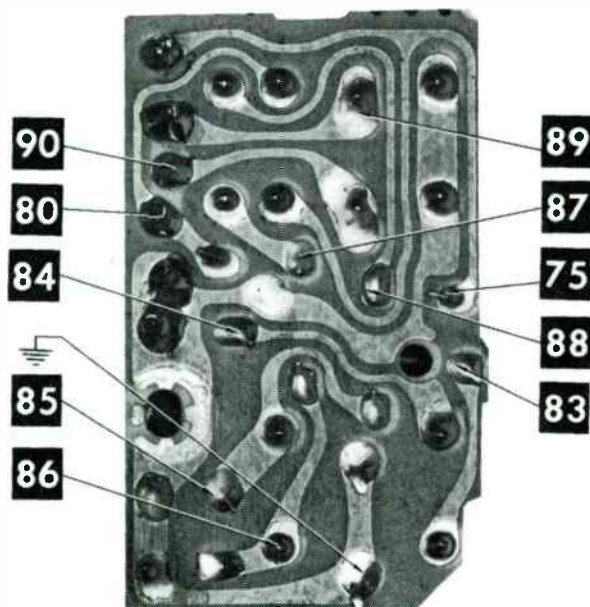


93 91 92 94 95 96

## FADER BOARD



S501  
VR5010  
C507  
VR501C  
R507  
R506  
S502  
C503  
C502  
VR501B  
C505  
C504  
VR501A



90 89  
80 87  
84 75  
85 88  
86 83

## VOLUME CONTROL 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 Jnshielded 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.)

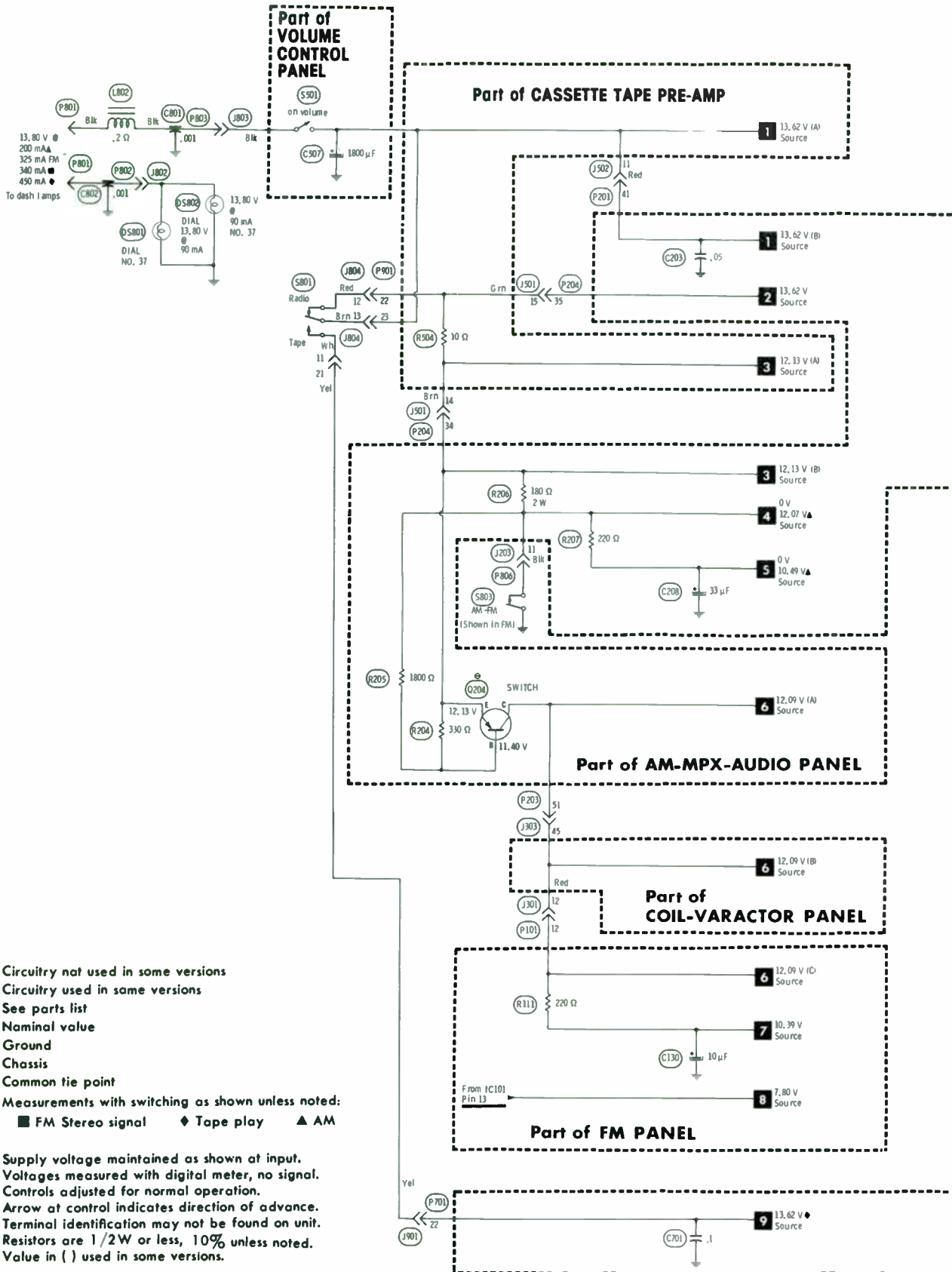
## SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D101		3L4-3002-31	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEPI062	
D102		3L4-3002-31	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEPI062	
D201		3L4-2003-1	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEPI134	ZEN-430
D202		3L4-2003-1	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEPI134	ZEN-430
D204		3L4-3002-10	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEPI062	
D301		3L4-3002-32	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEPI062	
D302		3L4-3002-32	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEPI062	
D303		3L4-3002-7	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEPI062	
D304		3L4-3002-7	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEPI062	
D701		3L4-3002-30	GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	ECG116	1N4004	WEPI156	212-76-02
D702		3L4-3002-30	GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	ECG116	1N4004	WEPI156	212-76-02
D901		3L4-3002-30	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEPI062	
D902		3L4-3002-30	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEPI062	
D903		3L4-3002-30	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEPI062	
D904		3L4-2003-7	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEPI134	ZEN-430
D905		3L4-3002-20	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEPI062	
DZ201		3L4-3506-49	GEZD-27	ZB27A	HEPZ0424	REN 5071	SK3064	RT-249	ECG146	1N4750A	WEPI120	
DZ301		3L4-3506-43	GEZD-6.8	ZB6.8A	HEPZ0409	REN 5077	SK3334	RT-238	ECG5071	1N4736A	WEPI106	
DZ701		3L4-3506-45	GEZD-18	ZB18A	HEPZ0420	REN 5077	SK3145	RT-258	ECG5077	1N4746A	WEPI116	
IC101	AE907	3L4-9007-1	GE1C-16			REN 737	SK3144	TVCM-18	ECG737		WEPI2015	
IC201	AE904-04											
	AE904-4	3L4-9004-4										
	AE904-6	3L4-9004-6										
IC701	AE922	3L4-9022-1										
IC901	AE915	3L4-9015-1										
Q101		3L4-6007-35	GE-11	PTC121	HEPS0025	REN 107	SK3018	RT-108A	ECG107	2SC535	WEPS35	121-925
Q102		3L4-6007-21	GE-11	PTC121	HEPS0025	REN 107	SK3018	RT-108A	ECG107	2SC535	WEPS35	121-925
Q103		3L4-6007-23	GE-11	PTC121	HEPS0025	REN 107	SK3018	RT-108A	ECG107	2SC535	WEPS35	121-925
Q104		3L4-6007-4	GE-243	PTC144	HEPS5014	REN 128	SK3024	RT-114	ECG128		WEPS59	121-792
Q201		3L4-6007-1	GE-20	PTC110	HEPS0014*	REN 108	SK3444	RT-102	ECG123A		WEPS36	
Q202		3L4-6007-2	GE-20	PTC121	HEPS0014*	REN 108	SK3444	RT-102	ECG123A		WEPS36	
Q203		3L4-6007-3	GE-20	PTC121	HEPS0014*	REN 108	SK3444	RT-102	ECG123A		WEPS36	
Q204		3L4-6010-8	GE-82	PTC144	HEPS5013	REN 129	SK3025	RT-115	ECG129		WEPS74	
		3L4-6010-4	GE-244	PTC141	HEPS5013	REN 129	SK3025	RT-115	ECG129		WEPS60	
Q205		3L4-6011-9	GE-69	PTC111	HEPS5028	REN 153	SK3084	RT-153	ECG153		WEPS746	121-969
		3L4-6011-14	GE-69	PTC111	HEPS5028	REN 153	SK3084	RT-153	ECG153		WEPS746	121-969
Q206		3L4-6010-6	GE-20	PTC121	HEPS5033	REN 123A	SK3444	RT-172	ECG123A		WEPS736	
Q207	AR24	3L4-6012-5	GE-241	PTC110	HEPS3060	REN 196	SK3041	RT-154	ECG196		WEPS756	
	AR28	3L4-6012-6	GE-241	PTC110	HEPS3060	REN 196	SK3041	RT-154	ECG196		WEPS756	
	AR38	3L4-6012-8	GE-241	PTC110	HEPS3060	REN 196	SK3041	RT-154	ECG196		WEPS756	
Q208	AR25	3L4-6013-5	GE-69	PTC111	HEPS3054	REN 197	SK3084	RT-196	ECG153		WEPS746	
	AR27	3L4-6013-6	GE-250	PTC111	HEPS3055	REN 197	SK3084	RT-196	ECG197		WEPS757	
	AR37	3L4-6013-8	GE-250	PTC111	HEPS3055	REN 153	SK3084	RT-196	ECG197		WEPS757	
Q209		3L4-6011-9	GE-69	PTC111	HEPS5028	REN 153	SK3084	RT-153	ECG153		WEPS746	
		3L4-6011-14	GE-69	PTC111	HEPS5028	REN 153	SK3084	RT-153	ECG153		WEPS746	
Q210		3L4-6010-6	GE-20	PTC121	HEPS5033	REN 123A	SK3444	RT-172	ECG123A		WEPS736	
Q211	AR24	3L4-6012-5	GE-242	PTC110	HEPS3060	REN 196	SK3041	RT-154	ECG196		WEPS756	
	AR28	3L4-6012-6	GE-242	PTC110	HEPS3060	REN 196	SK3041	RT-154	ECG196		WEPS756	
	AR38	3L4-6012-8	GE-242	PTC110	HEPS3060	REN 196	SK3041	RT-154	ECG196		WEPS756	
Q212	AR25	3L4-6013-5	GE-69	PTC111	HEPS3054	REN 153	SK3084	RT-196	ECG153		WEPS746	
	AR27	3L4-6013-6	GE-250	PTC111	HEPS3055	REN 197	SK3084	RT-196	ECG197		WEPS757	
	AR37	3L4-6013-8	GE-250	PTC111	HEPS3055	REN 153	SK3084	RT-196	ECG197		WEPS757	
Q301		3L4-6007-14	GE-39	PTC121	HEPS0040	REN 161	SK3018	RT-187	ECG161		WEPS63	
Q302		3L4-6007-41	GE-63			REN 128	SK3024		ECG229		WEPS753	
Q701		3L4-6007-9										
Q702		3L4-6007-15	GE-62			REN 199					WEPS66	
Q703		3L4-6010-3							ECG199			
VRAC10		3L4-3508-2							ECG153			
VRAC10		3L4-3508-2										
VRAC10		3L4-3508-1										

\* Lead configuration may vary from original.

FORD/LINCOLN MODEL D8DF-19A198AA,AB

NOTE: DEMAGNETIZE HEADS AFTER SERVICING



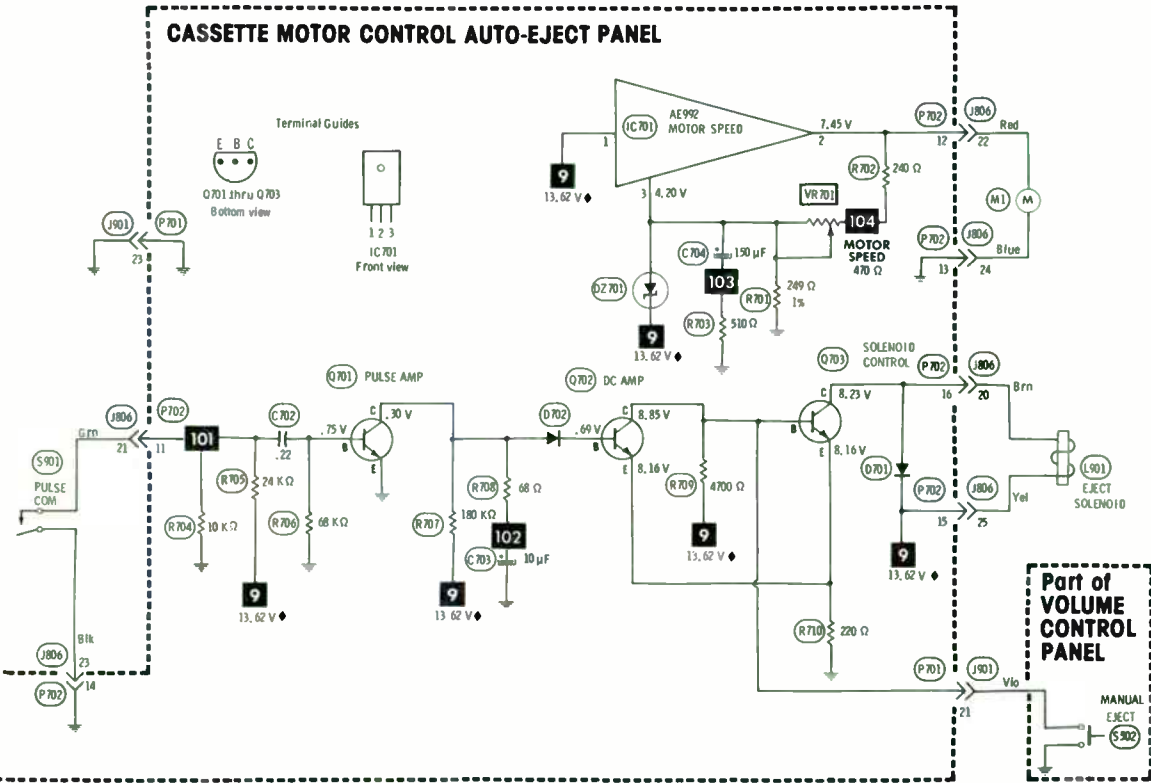
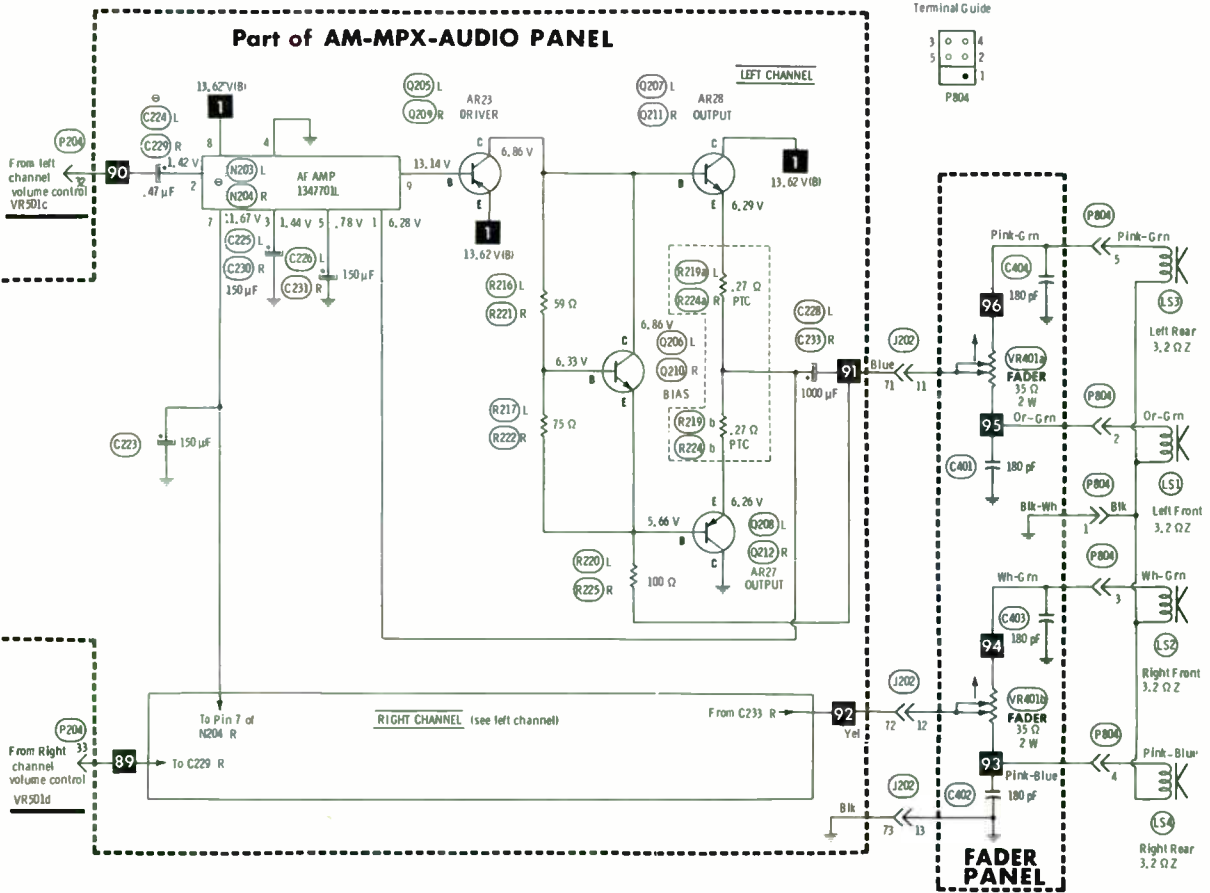
- ✖ Circuitry not used in some versions
  - Circuitry used in some versions
  - ⊙ See parts list
  - ⊛ Nominal value
  - ⊥ Ground
  - ⏏ Chassis
  - ▽ Common tie point
- Measurements with switching as shown unless noted:  
 ■ FM Stereo signal    ♦ Tape play    ▲ AM

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, 10% unless noted.  
 Value in ( ) used in some versions.

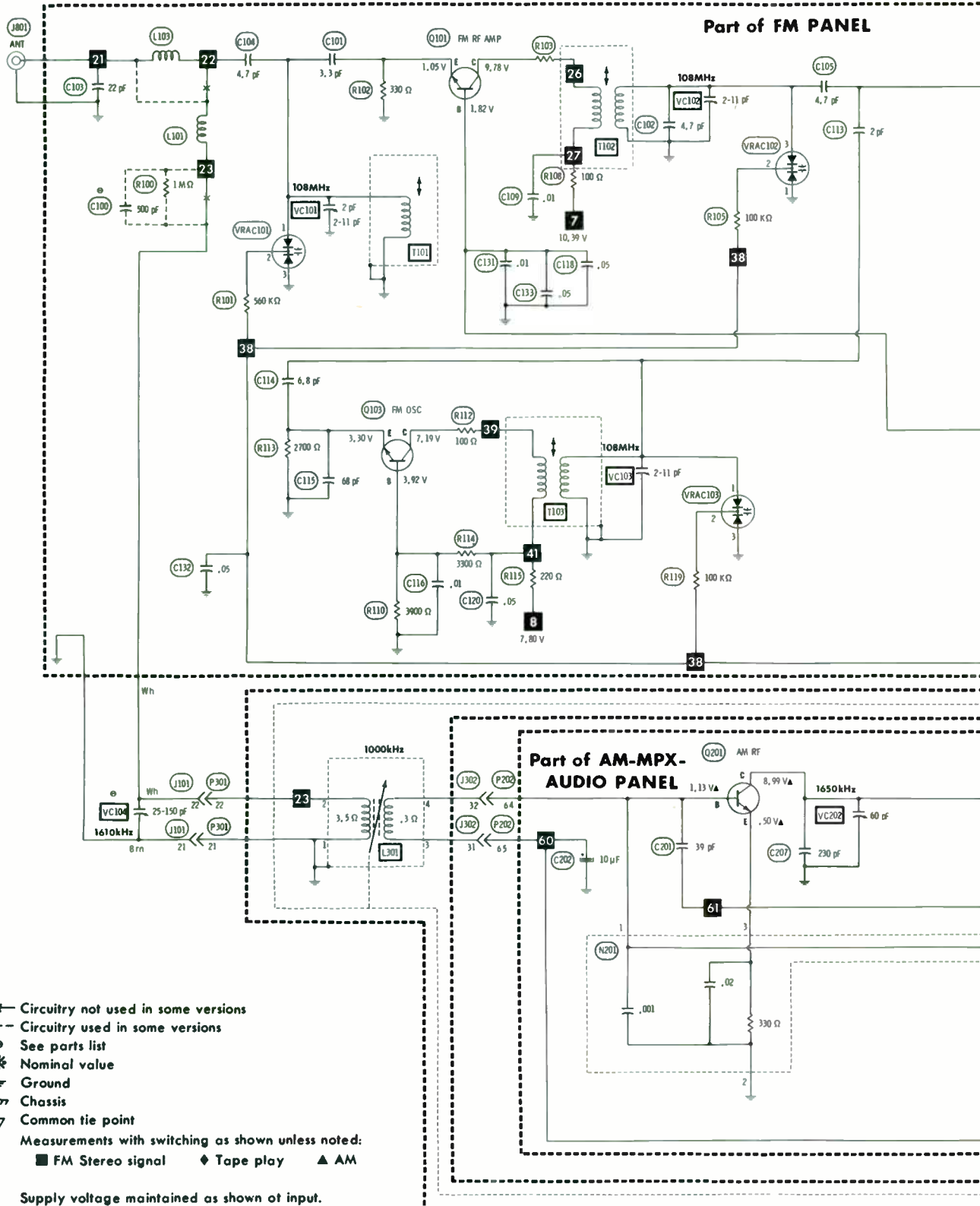
A PHOTOFACIT STANDARD NOTATION SCHEMATIC  
 WITH **CIRCUITRACE**

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**NOTE: DEMAGNETIZE HEADS AFTER SERVICING**

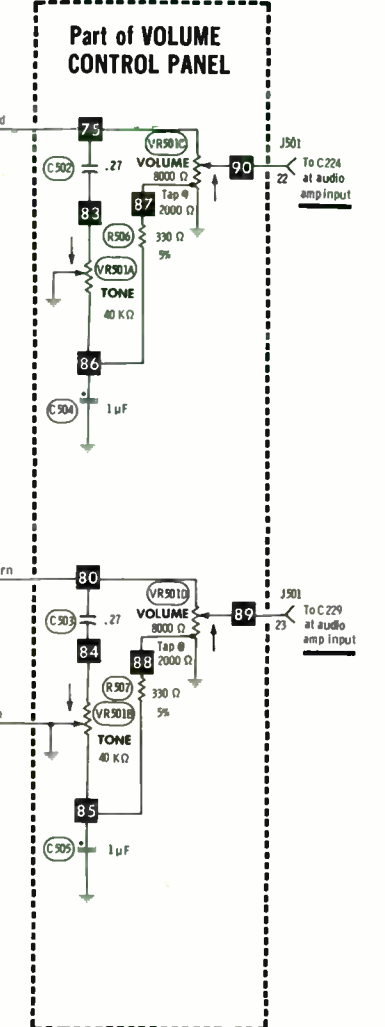
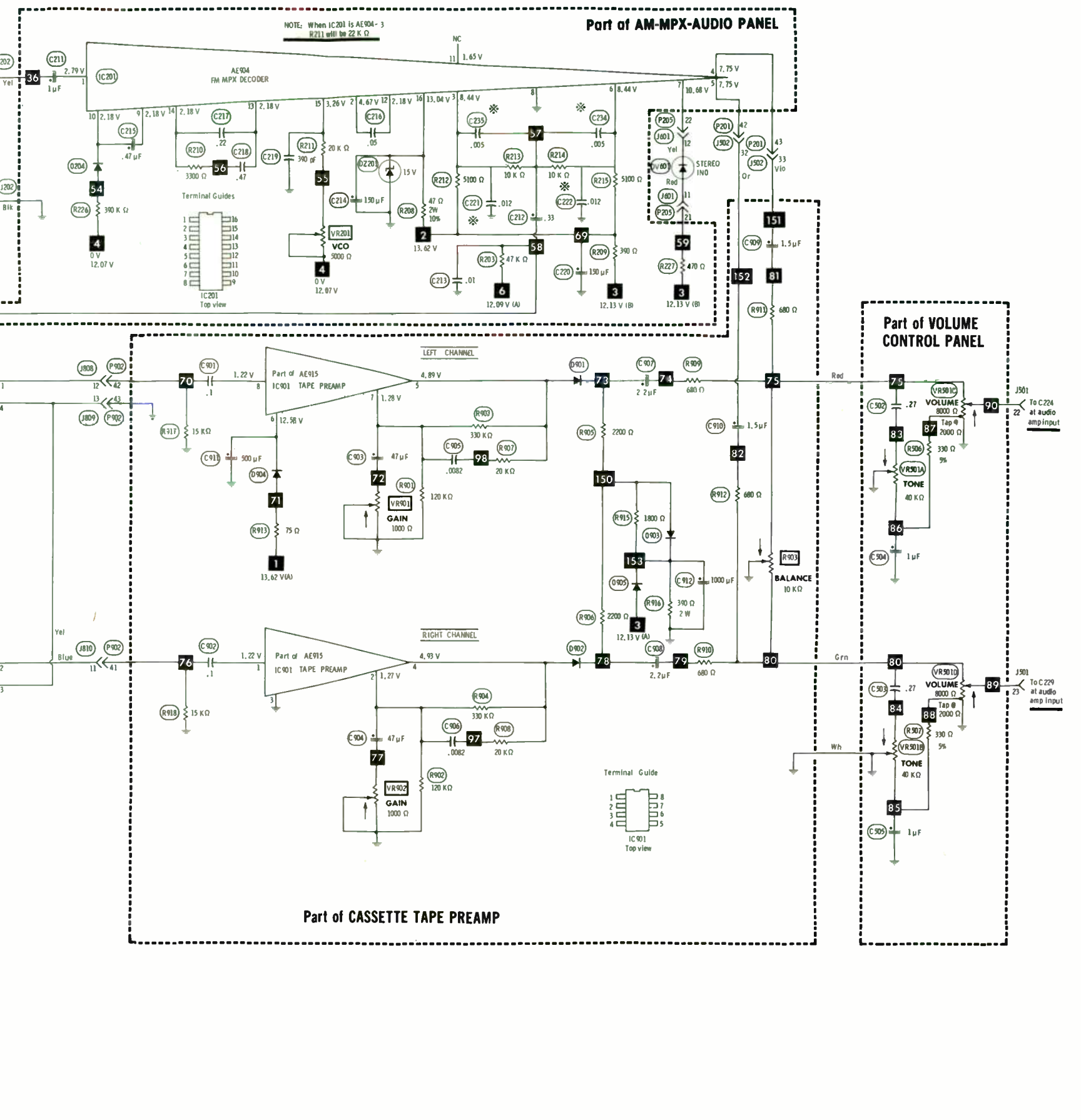
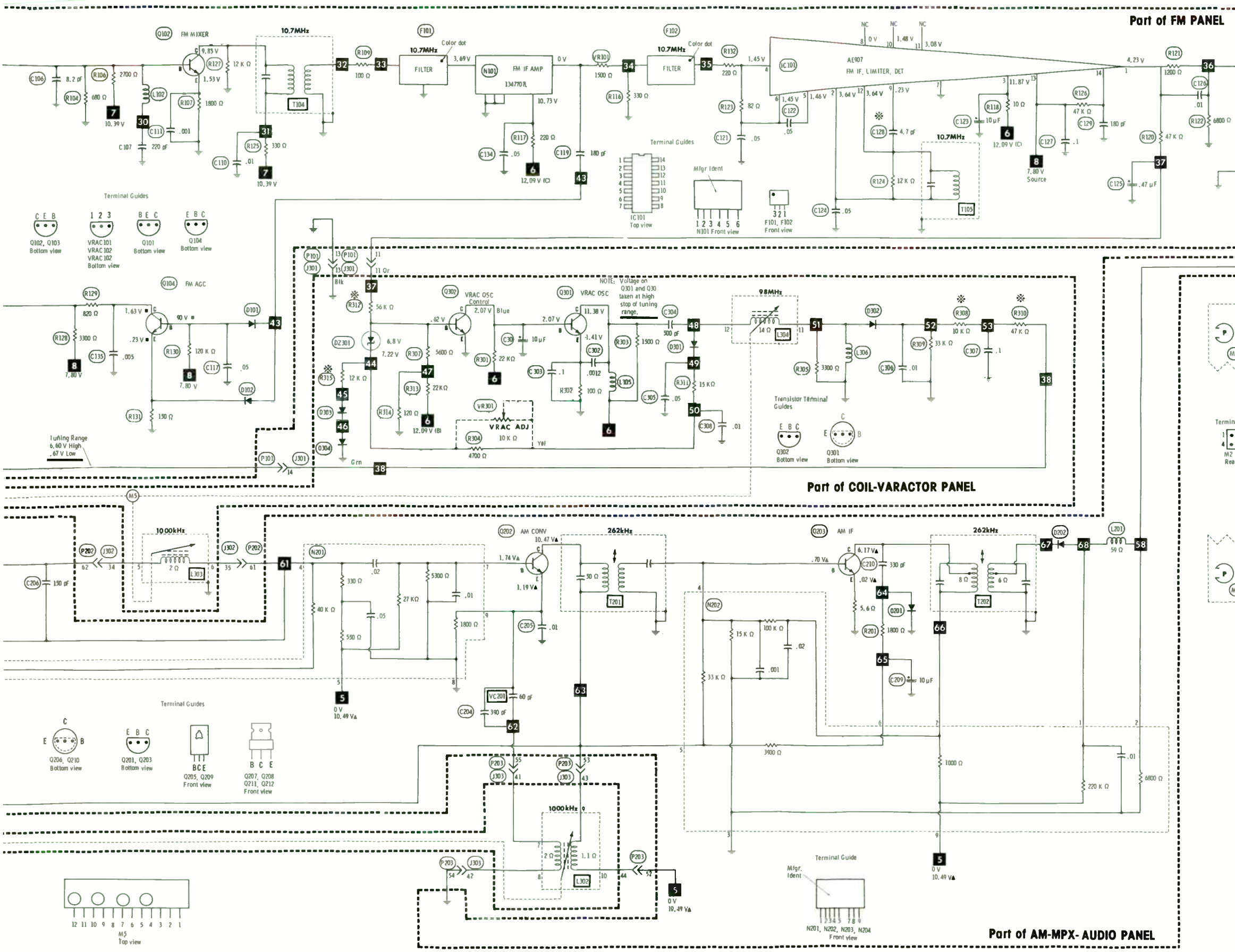


- ✖ Circuitry not used in some versions
  - Circuitry used in some versions
  - ⊙ See parts list
  - ⊛ Nominal value
  - ⊥ Ground
  - ⊞ Chassis
  - ▽ Common tie point
- Measurements with switching as shown unless noted:  
 ■ FM Stereo signal    ♦ Tape play    ▲ AM

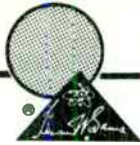
Supply voltage maintained as shown on input.  
 Voltages measured with digital meter, no signal.  
 Controls adjusted for normal operation.  
 Arrow at control indicates direction of advance.  
 Terminal identification may not be found on unit.  
 Resistors are 1/2W or less, 10% unless noted.  
 Value in ( ) used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC  
 WITH **CIRCUITRACE**

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# PHOTOFACT<sup>®</sup> with

# CIRCUITRACE<sup>®</sup>

For Supplier Address See PHOTOFACT Index



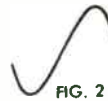
MODEL 871

JIL MODEL 871

## ALIGNMENT INSTRUCTIONS

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

Suggested Alignment Tools: GC ELECTRONICS:  
 All Coils and Trimmers ..... 5000, 8277, 9089

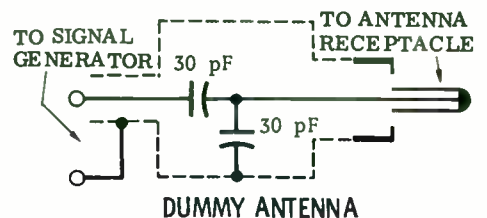


### AM ALIGNMENT—SELECTOR IN AM POSITION

Connect output meter across speaker voice coil.

GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	ADJUST	REMARKS
High side thru .1uF to antenna	262kHz 400-Hz mod.	High freq end stop	ITT-201	Adjust for maximum.
Thru dummy antenna to antenna input.	1610kHz 400Hz Mod.	1610kHz	CT-202	"
Thru dummy antenna to antenna input.	530kHz 400Hz Mod.	530kHz	L201	"
Thru dummy antenna to antenna input.	1400kHz 400Hz Mod.	1400kHz	CT201, CT401	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 CT401 for maximum output. Antenna adjustment is located inside tape compartment at right rear.



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## ALIGNMENT INSTRUCTIONS

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

High side of generator thru .001uF to TP3.				
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to TP1	IFT101 IFT	Adjust for maximum.

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

High side of generator thru .001uF to TP3. 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
"	"	Vert input of scope to TP1	(1) IFT101 IFT	Adjust IFT101 for maximum amplitude and straightness of line, similar to Fig. 2.

### 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	108MHz	DC probe of VTVM to speaker	OT,AT,RT	Adjust for maximum.

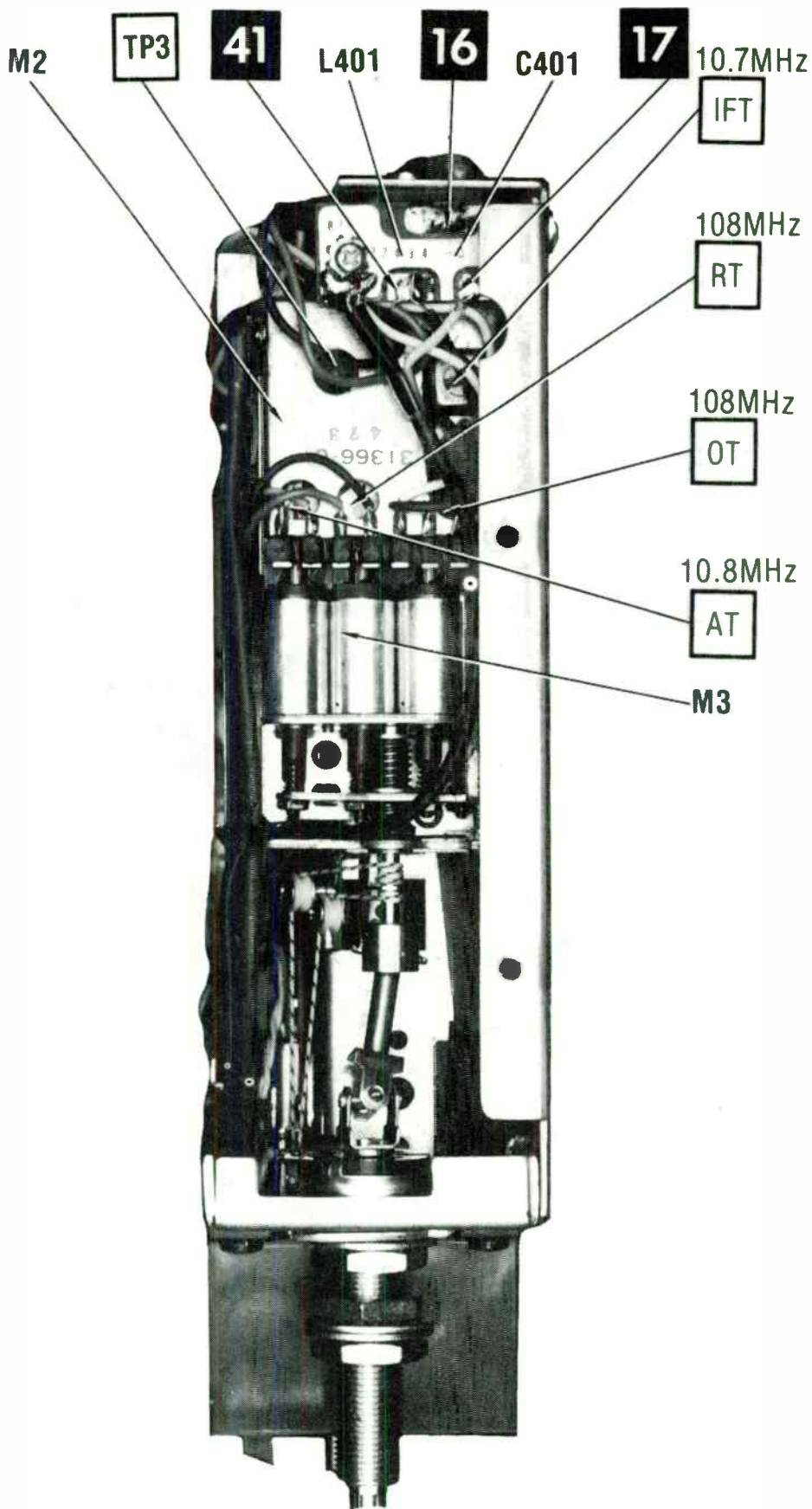
(1) Before adjusting, vary generator frequency slightly. Maximum output indicates exact IF.

### FM STEREO ADJUSTMENT

Tune receiver for a stereo signal. Adjust balance control for equal channel output. Adjust Separation control VR101 for best separation.

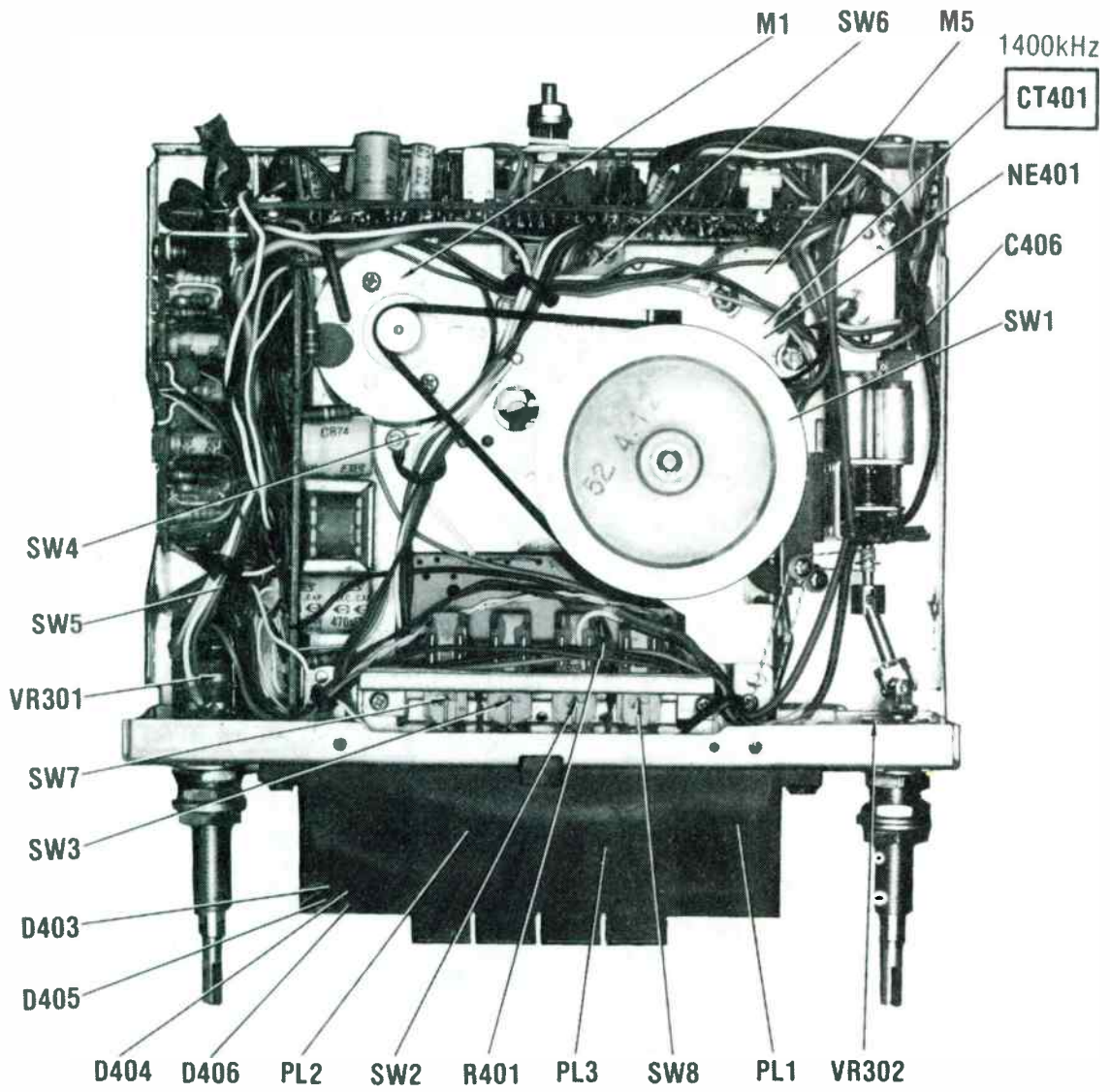
### FM STEREO ALIGNMENT USING AUDIO GENERATOR

Tune in stereo signal.				
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS	
	Frequency counter to TP2	VR103	Adjust for 19kHz $\pm$ 20Hz.	
		VR102	Adjust till stereo light comes on.	



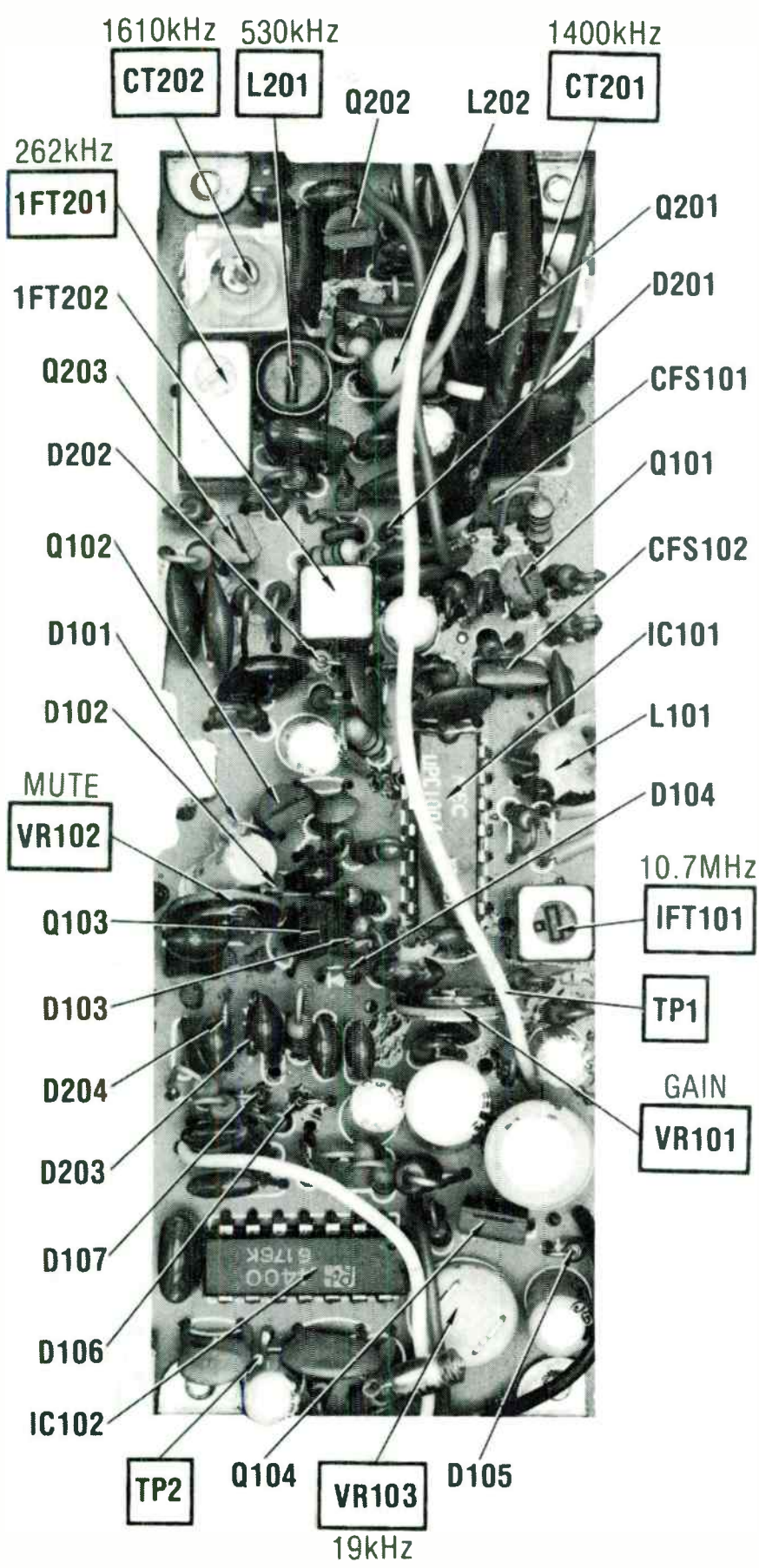
JIL MODEL 871

CHASSIS-SIDE



CHASSIS-TOP





MAIN BOARD

## CLEANING      LUBRICATING HEAD DEMAGNETIZING

Refer to  
"General Servicing Information"  
on page 4.

### ADJUSTMENTS

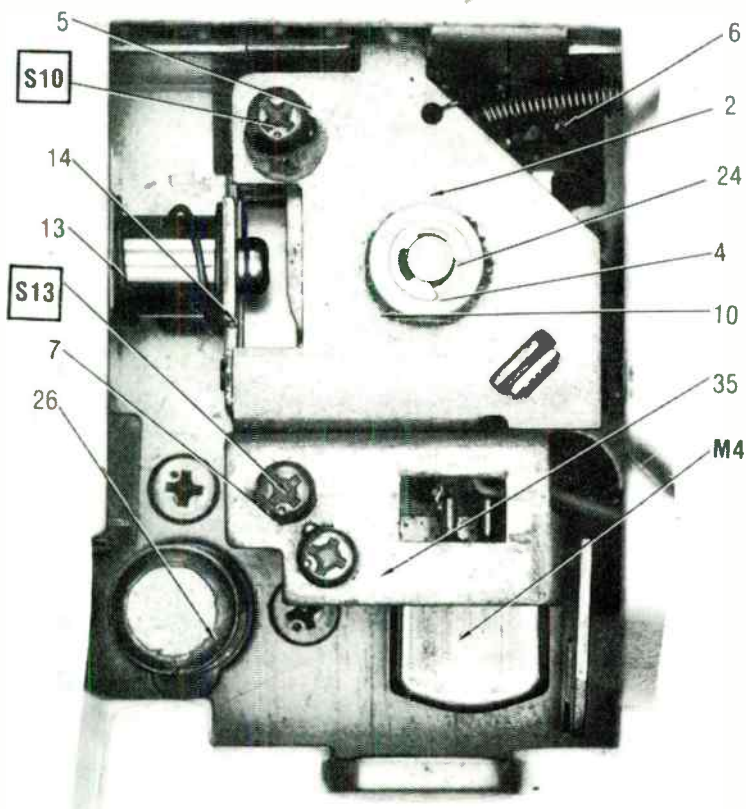
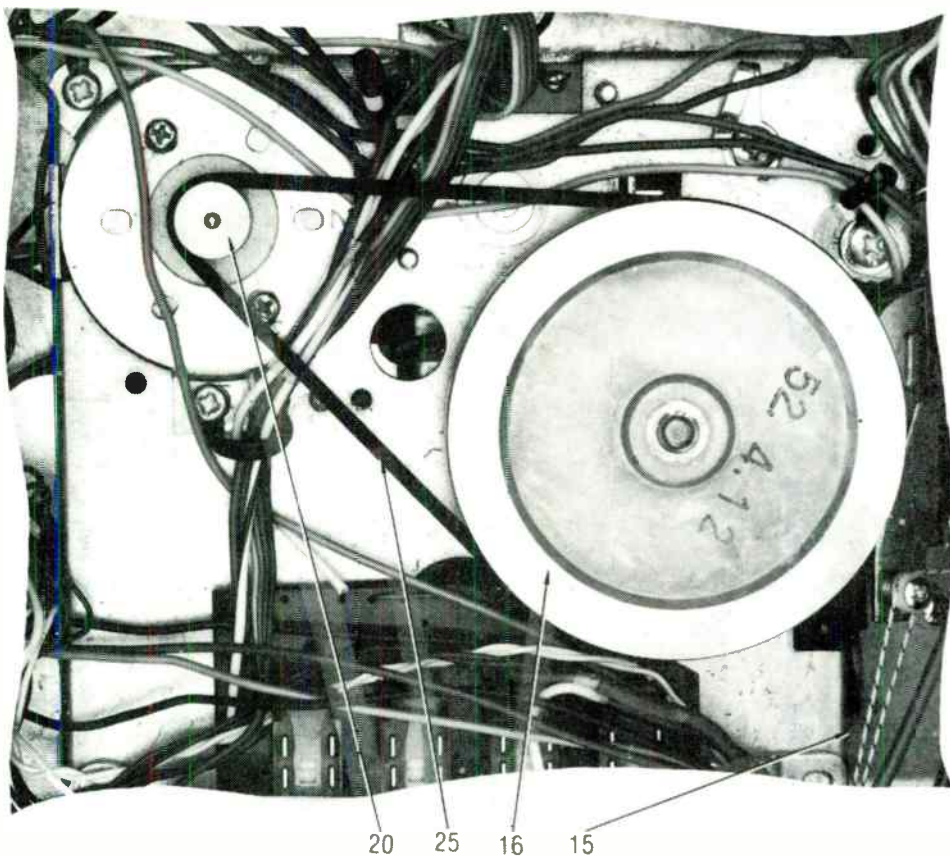
ADJUST	REMARKS
Head Azimuth	Play a test cartridge and adjust S13 for maximum on meter across output.
Head Height	Play a test cartridge, follow instructions with cartridge, and adjust S10 for proper response.

### TROUBLE CHART

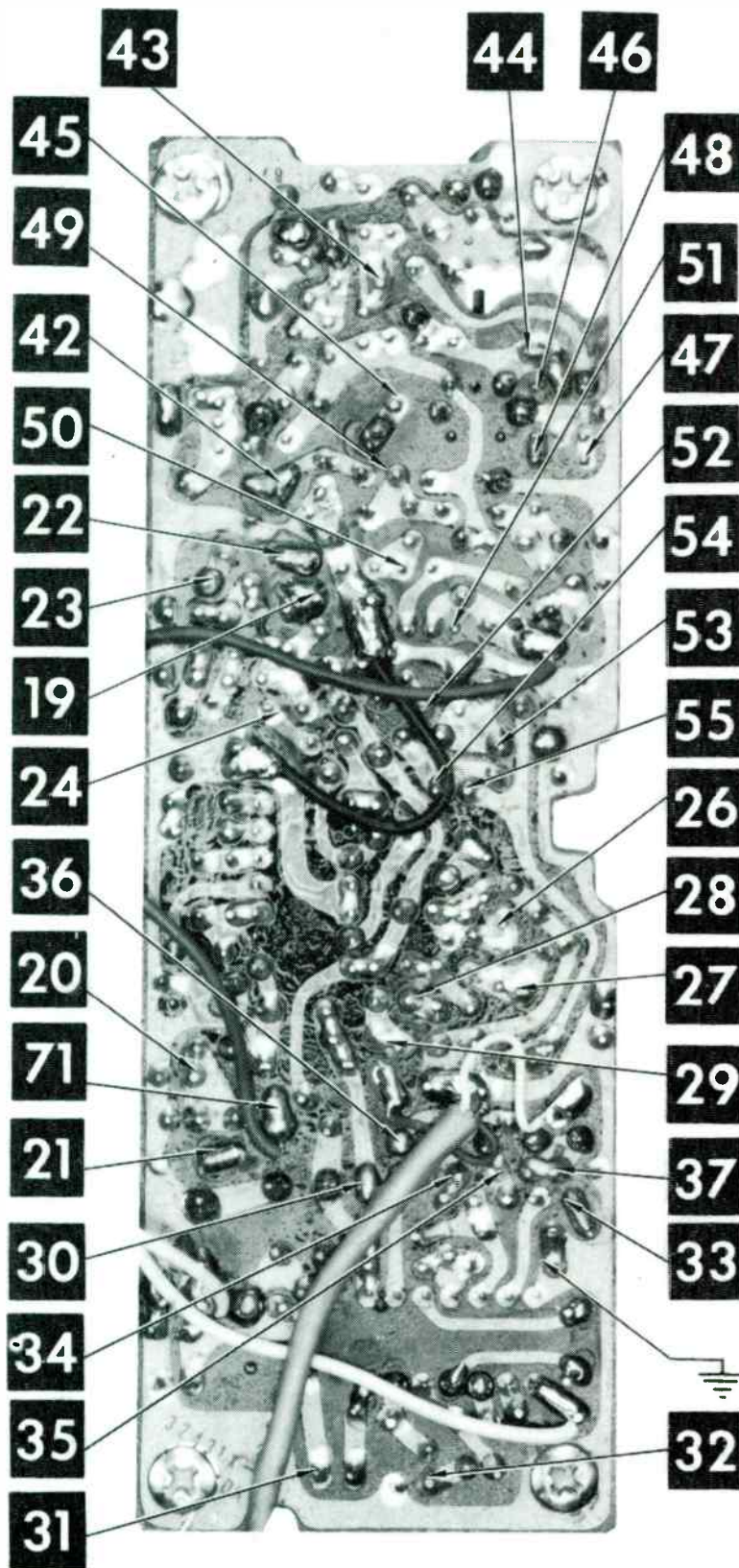
SYMPTOM	REMARKS
Capstan does not rotate.	Belt 25 dirty, worn, or broken. Assembly 26 binding. Motor defective or not supplied with power.
Track-shift mechanism inoperative	Switch SW4 dirty. Cam 10 binding or worn. Pawl 14 worn. Assembly 2 binding. Solenoid M5 defective or not supplied with power. Cartridge defective.
Wow or flutter	Belt 25 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.

### MECHANICAL PARTS LIST

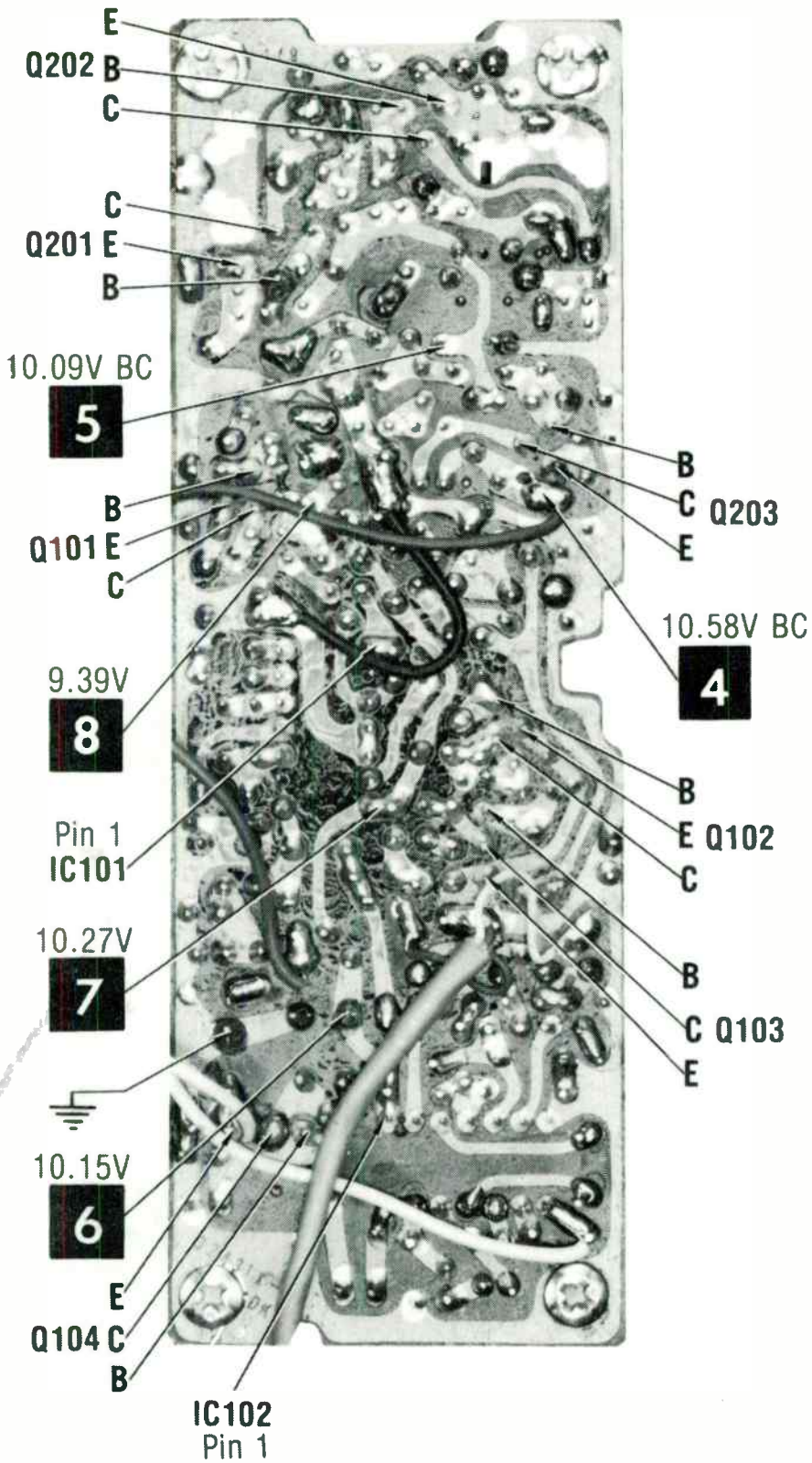
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
2	21380	Head Shifting Assembly	16	21375	Flywheel
4	23589	Head Lifting Spring	20	23580	Motor Pulley
5	23600	Height Spring	24	23586	Head Bracket Spring
6	23605	Head Assembly Spring	25	23590	Flywheel Drive Belt
7	23588	Azimuth Spring	26	23592	Flywheel Bearing Assembly
10	21372	Track Changing Cam	35	23575	Head Clamp
13	23585	Solenoid Spring	S10	023042	Height Adjust Screw
14	21381	Pawl Assembly	S13	023052	Azimuth Adjust Screw
15	21390	Detent Arm			



TAPE DECK-BOTTOM/TOP

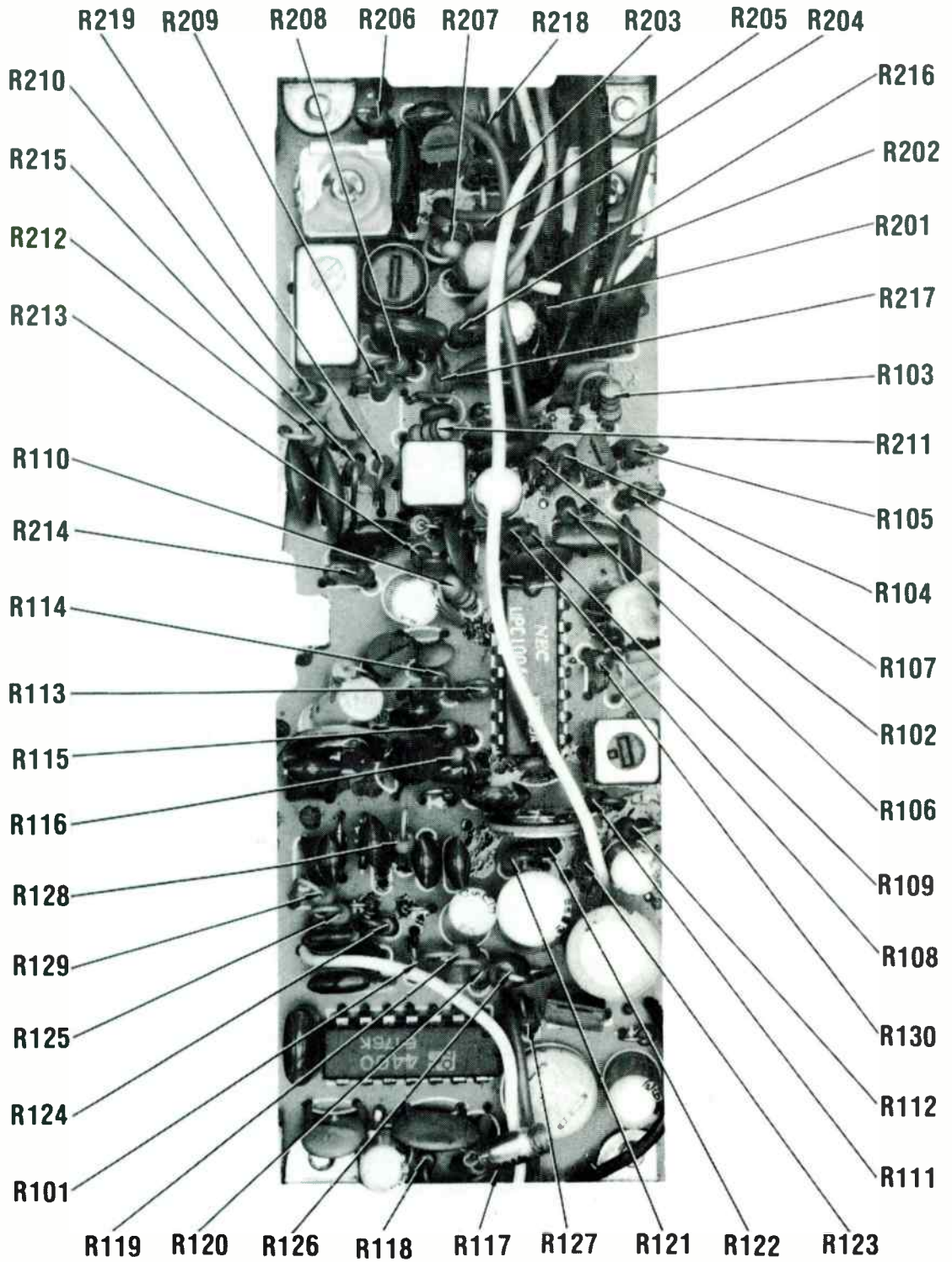


MAIN BOARD

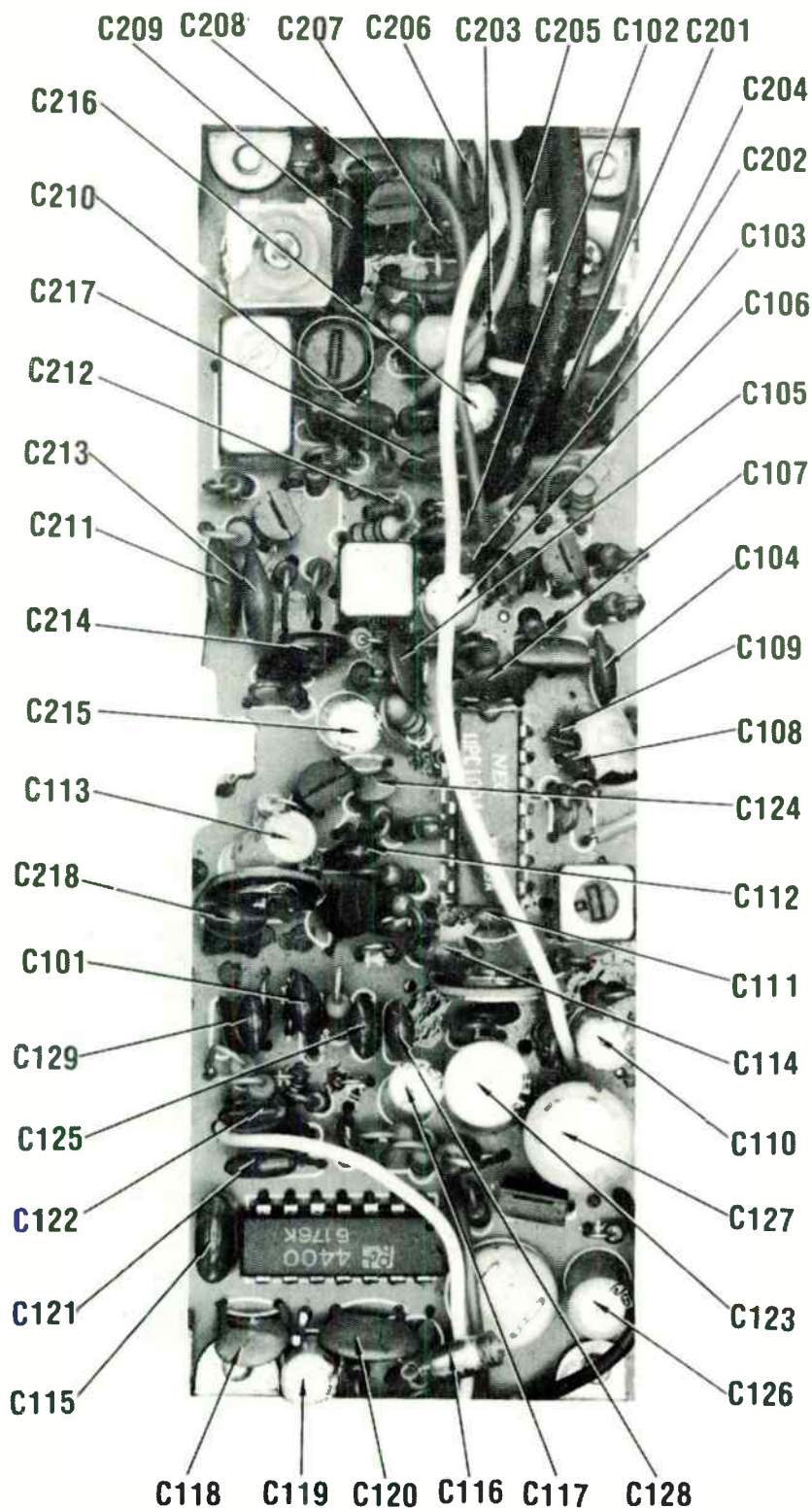


J1L MODEL 871

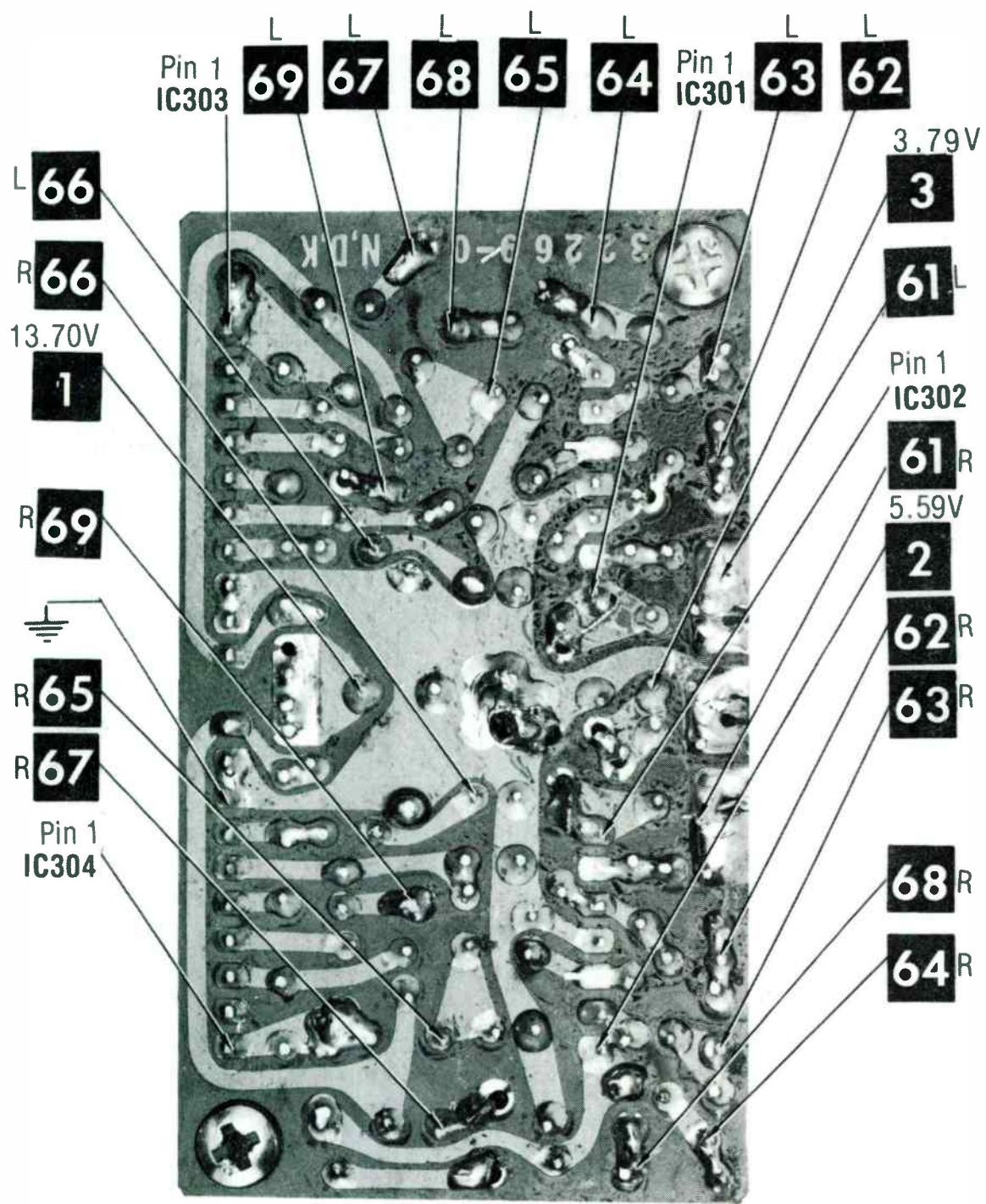
MAIN BOARD



**MAIN BOARD**

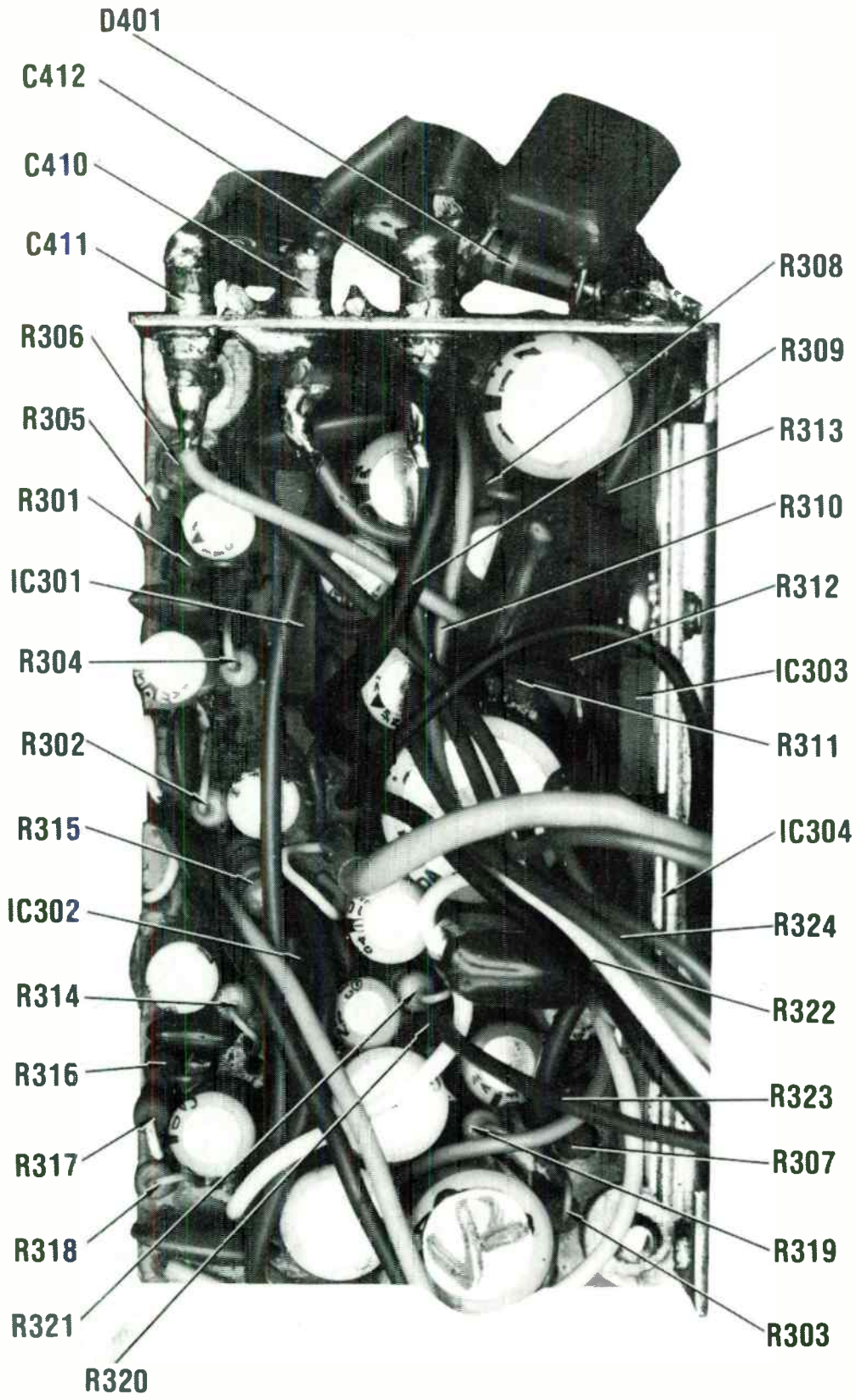


MAIN BOARD

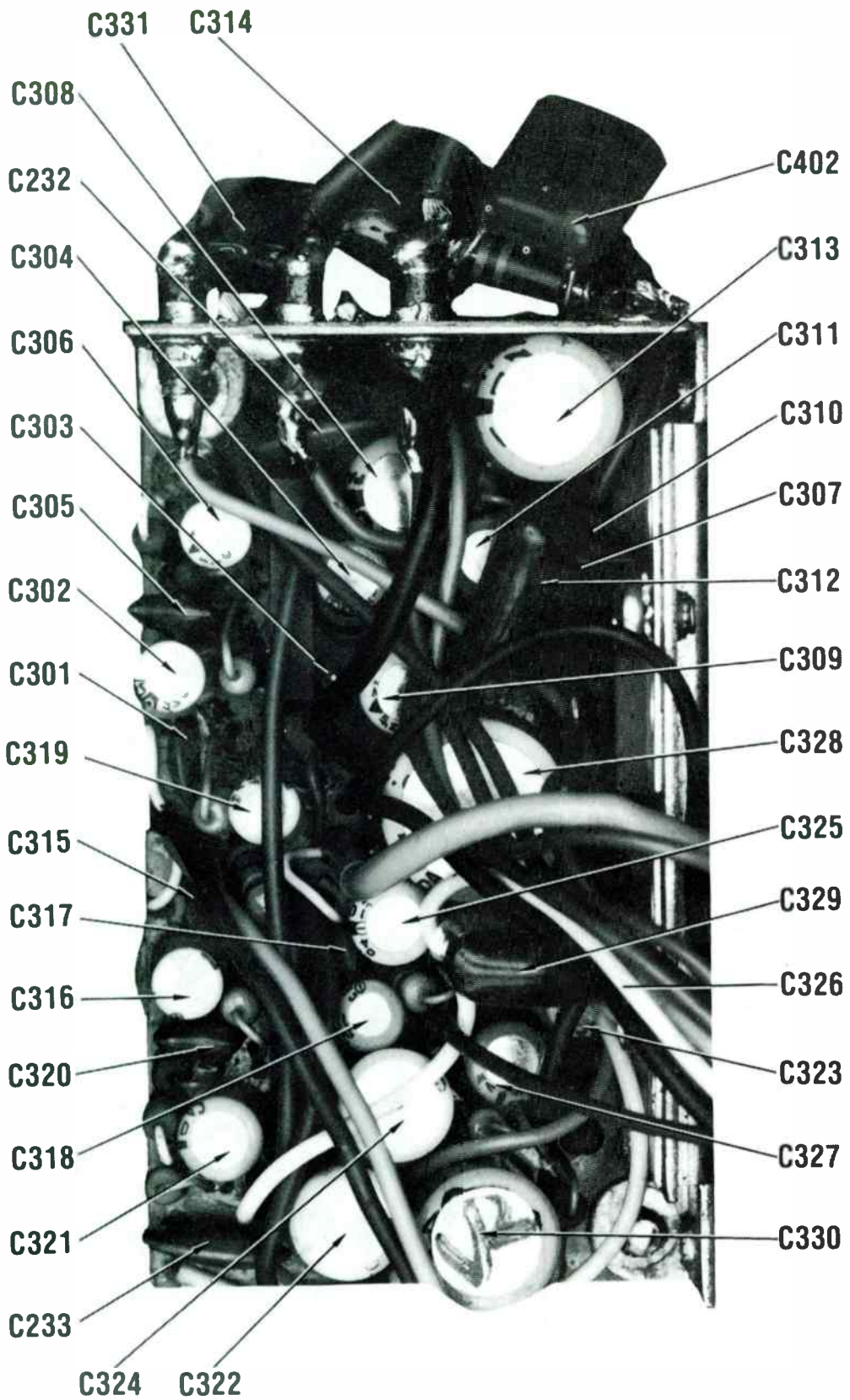


# AUDIO BOARD

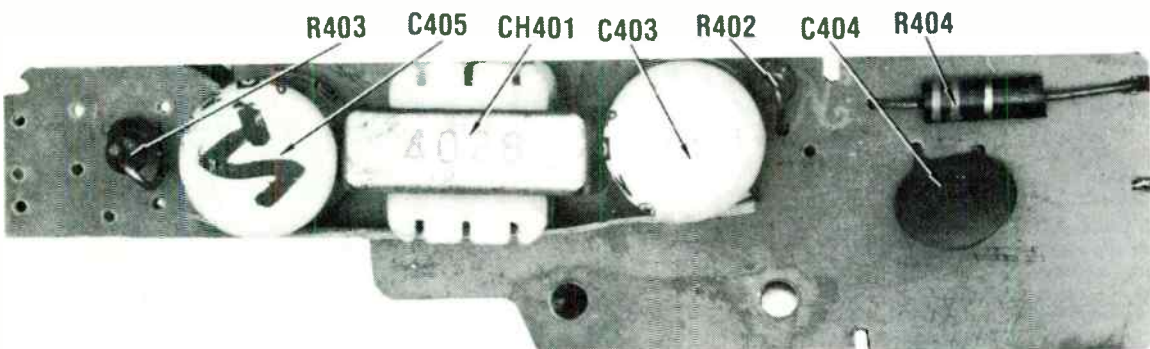
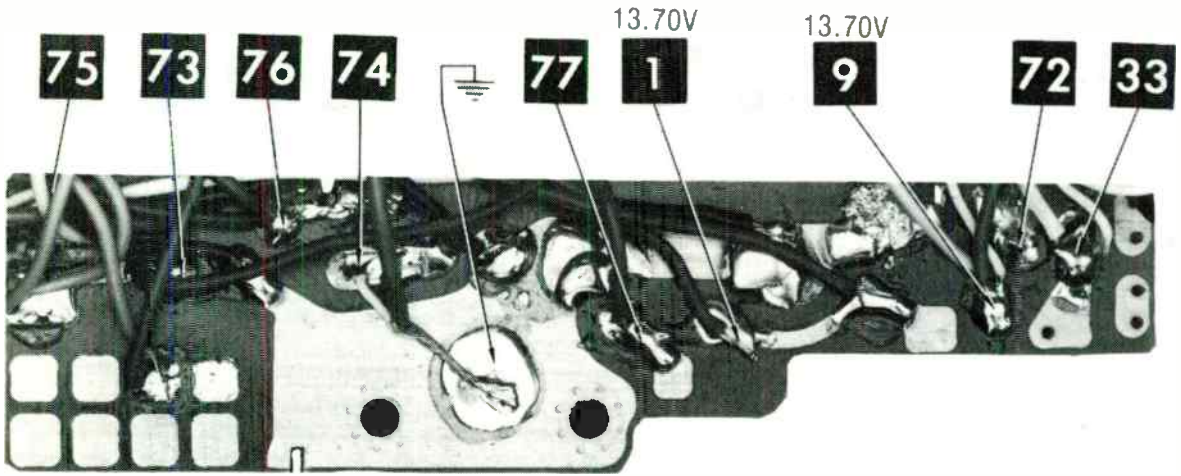




AUDIO BOARD



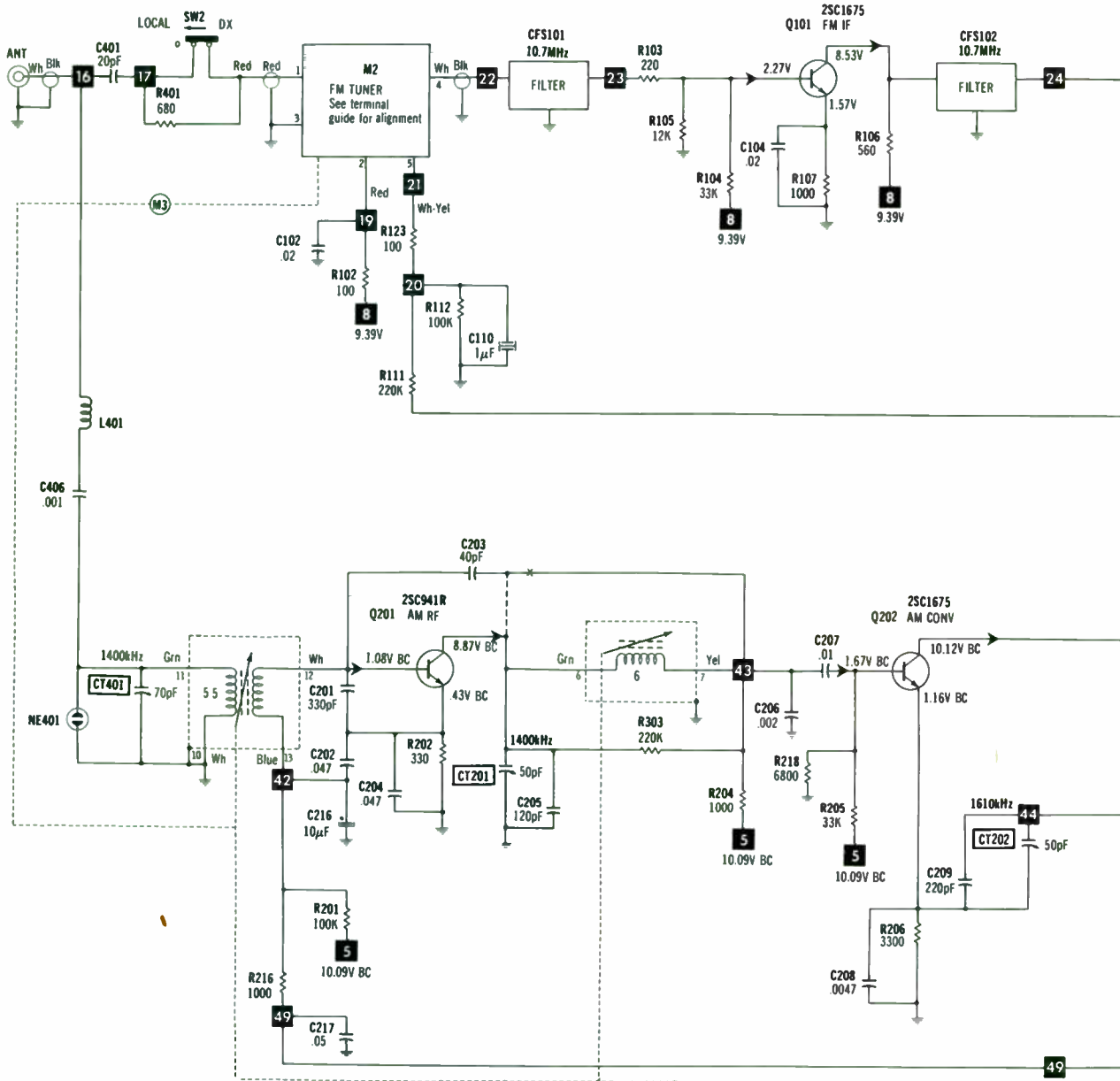
AUDIO BOARD



POWER BOARD

J1L MODEL 871

**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
- Signal path
- ↪ Voltage path

Measurements with switching as shown unless noted.

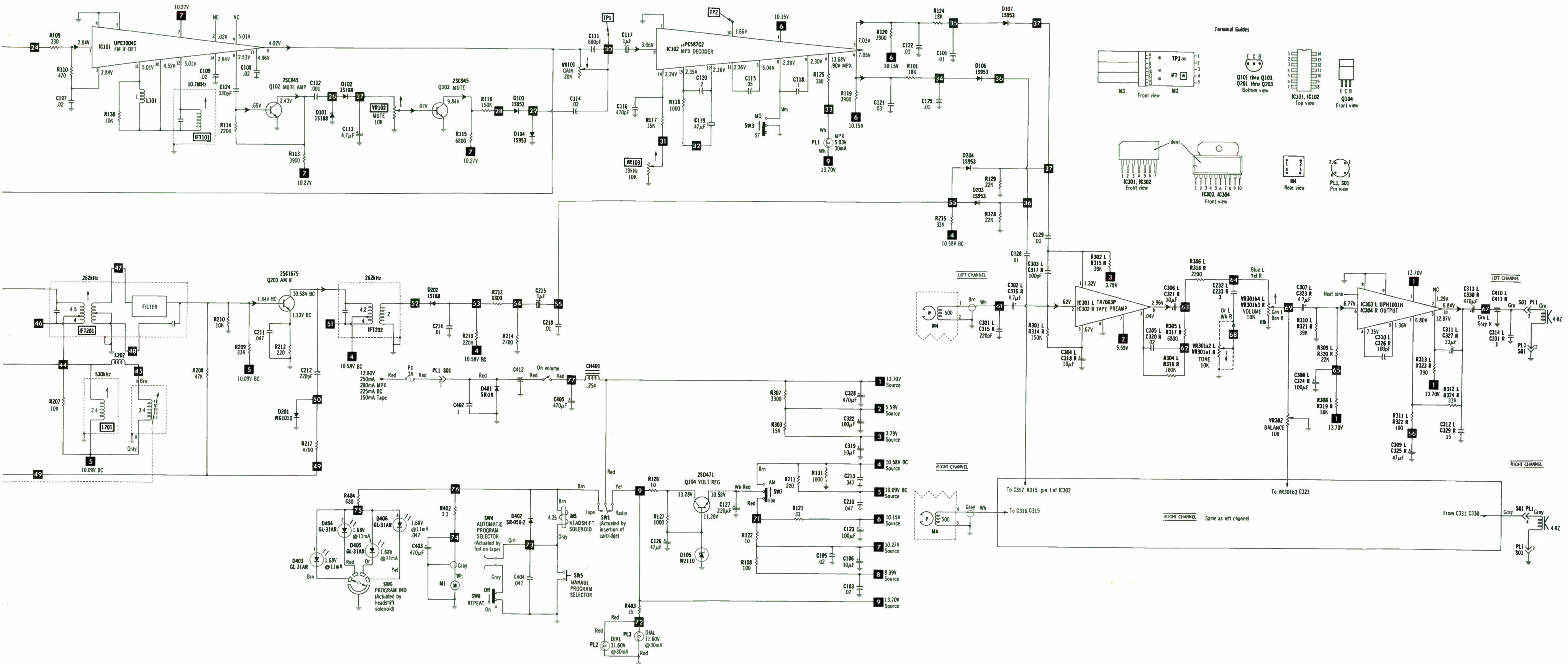
Item numbers in rectangles appear in the alignment/adjustment instructions.

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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### 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. 8782 (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.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D101	1S188	922604	1N34AS	PTC207	HEPR134A	REN 109	SK3087	RT-200	ECG109	TM109	WEP134	103-29001
D102	1S188	922604	1N34AS	PTC207	HEPR134A	REN 109	SK3087	RT-200	ECG109	TM109	WEP134	103-29001
D103	1S953	923147	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D104	1S953	923147	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D105	WZ110	923233	GEZD-11	ZB118	HEPR0602	REN 5074	SK3139	RT-242	ECG8074A	TM4741A	WEP1156	103-131
D106	1S953	923147	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D107	1S953	923147	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D201	WG1010	922433	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D202	1S188	922604	1N34AS	PTC207	HEPR134A	REN 109	SK3087	RT-200	ECG109	TM109	WEP134	103-29001
D203	1S953	923147	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D204	1S953	923147	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D401	SR1K-1	922860	GE-504A	PTC201	HEPR0052	REN 116	SK3311	RT-213	ECG116	TM116	WEP156	212-76-02
D402	SR05K-2	922799	GE-504A	PTC201	HEPR0052	REN 116	SK3311	RT-213	ECG116	TM116	WEP156	212-76-02
IC101	UPC1004C	916154	GEIC-94			REN 1103	SK3281	TVCM-79	ECG1103	TM1103	WEP943	
IC102	4400	916155	GEIC-94			REN 1103	SK3281	TVCM-79	ECG1103	TM1103	WEP943	
IC301	TA7063P	916067	GEIC-197			REN 1122	SK3243		ECG1127	TM1127	WEP956*	121-29021
IC302	TA7063P	916067	GEIC-197			REN 1122	SK3243		ECG1127	TM1127	WEP956*	121-29021
IC303	UPC1001H	916101	GEIC-197			REN 1122	SK3243		ECG1127	TM1127	WEP956*	121-29021
IC304	UPC1001H	916101	GEIC-197			REN 1122	SK3243		ECG1127	TM1127	WEP956*	121-29021
Q101	2SC1675	916144	GE-213	PTC132*	HEPS0025*	REN 123A*	SK3246	RT-308	ECG229*	TM229*	WEP956*	121-29021
Q102	2SC945	916033	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
Q103	2SC945	916033	GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
Q104	2SD471	916126	GE-268	PTC144*	HEPS3001*	REN 289	SK3124	RT-114*	ECG289	TM289	WEP910	121-773
Q201	2SC941R	916127	GE-210*	PTC132*	HEPS0016*	REN 123A*	SK3122	RT-107A	ECG123A*	TM123A*	WEP66	121-29000A*
Q202	2SC1675	916144	GE-213	PTC132*	HEPS0025*	REN 123A*	SK3246	RT-308	ECG229*	TM229*	WEP956*	121-29021
Q203	2SC1675	916144	GE-213	PTC132*	HEPS0025*	REN 123A*	SK3246	RT-308	ECG229*	TM229*	WEP956*	121-29021

\* Lead configuration may vary from original.  
/\*\* Also available as exact type replacement.

### ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	Q-LINE
C106	10 16V	913175	PC10-25	VTT10825	QV1-41	EV-1222
C110	1 NP 50V	913349	WNP1-50	TN501A	QEN1-20	EV-1222
C113	4.7 25V	913148	PC5-50	VTT4R7B50	QV1-27	EV-1319
C117	1 NP 50V	913349	WNP1-50	TN501A	QEN1-20	EV-1222
C119	.47 NP 50V	913348	PC1-50	VTR47A63	QV1-3	EV-1610
C123	100 16V	913097	PC100-16	VTT100F16	QV1-95	EV-1226
C124	47 16V	913180	PC50-16	VTT47016	QV1-73	EV-1226
C127	220 16V	913069	PC250-25	VTT220H16	QV1-117	EV-1240
C215	1 NP 50V	913349	WNP1-50	TN501A	QEN1-20	EV-1222
C216	10 1 16V	913175	PC10-25	VTT10825	QV1-41	EV-1222
C302	4.7 16V	913148	PC5-50	VTT4R7B50	QV1-27	EV-1319
C304	10 16V	913175	PC10-25	VTT10825	QV1-41	EV-1222
C306	10 16V	913175	PC10-25	VTT10825	QV1-41	EV-1222
C307	4.7 16V	913148	PC5-50	VTT4R7B50	QV1-27	EV-1319
C308	100 10V	913013	PC100-10	VTT100E10	QV1-93	EV-1130
C309	47 10V	913196	PC50-16	VTT47016	QV1-73	EV-1226
C311	33 10V	913035	PC30-25	VTT3810	QV1-61	EV-1125
C313	470 16V	913156	PC500-16	VTT470K16	QV1-151	EV-1250
C316	4.7 16V	913148	PC5-50	VTT4R7B50	QV1-27	EV-1319
C318	10 16V	913175	PC10-25	VTT10825	QV1-41	EV-1222
C319	10 16V	913175	PC10-25	VTT10825	QV1-41	EV-1222
C321	10 16V	913175	PC10-25	VTT10825	QV1-41	EV-1222
C322	100 10V	913013	PC100-10	VTT100E10	QV1-93	EV-1130
C323	4.7 16V	913148	PC5-50	VTT4R7B50	QV1-27	EV-1319
C324	100 10V	913013	PC100-10	VTT100E10	QV1-93	EV-1130
C325	47 10V	913196	PC50-16	VTT47016	QV1-73	EV-1226
C327	33 10V	913035	PC30-25	VTT3810	QV1-61	EV-1125
C328	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1250
C330	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1250
C403	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1250
C405	470 16V	913030	PC500-16	VTT470K16	QV1-151	EV-1250

### 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.		
						Q-LINE	GENERAL LINE	
C101	.01 50V							
C102	.022		UK25-223	WMF1S1	EMF1A110	QFT2-91	1FT-S10	
C103	.022		UK25-223				HY-725	
C104	.022		UK25-223				HY-725	
C105	.022		UK25-223				HY-725	
C107	.022		UK25-223				HY-725	
C108	.022		UK25-223				HY-725	
C109	.022		UK25-223				HY-725	
C111	.680		DD-681	GP680	GP368		10TS-T68	
C112	.001			DPMS601	EMF1A210	QFT2-1	1FT-D10	
C114	.022			DPMS2522	M192P239R8	QFT2-127	1FT-S22	
C115	.047			DPMS2547	EMF1A147	QFT2-171	1FT-S47	
C116	470 5X			CD15FD471J03	MX347	QW1-42	MMA-471	
C118	.1 12V				MAG1201		HY-360	
C120	.2 12V		UK12-104 UK16-204				HY-470	
C121	.033			DPMS6533	M192P339R8	QFT2-149	1FT-S33	
C122	.033			DPMS6533	M192P339R8	QFT2-149	1FT-S33	
C124	330		DD-331	GP330	GP333		10TS-T33	
C125	.01			WMF1S1	EMF1A110	QFT2-91	1FT-S10	
C128	.01			WMF1S1	EMF1A110	QFT2-91	1FT-S10	
C129	.01			WMF1S1	EMF1A110	QFT2-91	1FT-S10	
C201	.330		DD-331	GP330	GP333		10TS-T33	
C202	.047 50V 10X	913172		DPMS2547	EMF1A147	QFT2-171	1FT-S47	
C203	40 N330 10X	913115	UK50-503				10TCS-047	
C204	.047				MAG5015		5GA-T12	
C205	120				GP312		6PS-020	
C206	.002 10X			DPMS602	PVC622	QFT2-91	1FT-S10	
C207	.01			WMF1D47	EMF1A110	QFT2-63	1FT-D47	
C208	.0047			CO15FD221J03	MX322	QW1-35	MMA-221	
C209	220 10X			DPMS2547	EMF1A147	QFT2-171	1FT-S47	
C210	.047							
C211	.047		UK50-503		MAG5015		10TS-T22	
C212	220		DD-221					
C213	.047		UK50-503		GP322			
C214	.022		UK50-103		MAG5015		HY-725	
C217	.047		UK50-503					
C218	.01			WMF1S1	EMF1A110	QFT2-91	1FT-S10	
C301	220 10X		DD-221		GP322		10TS-T22	
C303	100		DD-101	GP100	GP310		10TS-T10	
C305	.022		DD-101	DPMS2522	M192P239R8	QFT2-127	1FT-S22	
C310	100		DD-101	GP100	GP310		10TS-T10	
C312	.1 100V ±10X			WMF05P1	EMF05010	QFT2-215	1FT-S10	
C314	.1 100V 10X			WMF05P1	EMF05010	QFT2-215	431P1549R5	
C315	220 10X				GP322		1FT-P10	
C317	100		DD-221	GP100	GP310		10TS-T22	
C320	100		DD-101				10TS-T10	
C326	.02		UK50-223		MAG5012			
C329	.1 100V ±10X		DD-101	GP100	GP310		10TS-T10	
C331	.1 100V 10X			WMF05P1	EMF05010	QFT2-215	1FT-P10	
C401	20 NPO 10X		DTZ-20	NPO20	CM0420	QFT2-215	431P1549R5	
C402	.1 50V			WMF05P1	EMF05010	QFT2-215	1FT-P10	
C404	.047		UK50-503		MAG5015		10TS-D10	
C406	.001		DD-102		GP210			
C410								
C411								
C412								



# PHOTOFACT<sup>®</sup> with

# CIRCUITRACE<sup>®</sup>

For Supplier Address See PHOTOFACT Index



MODEL AR-1730CR-B

Models AR-1730CR-B (Plymouth Arrow)  
AR-1730CE (Plymouth Arrow)

PLYMOUTH MODELS AR-1730CE/-1730CR-B

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

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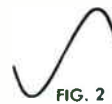
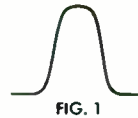
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8AK1131

## ALIGNMENT INSTRUCTIONS

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

Suggested Alignment Tools: GC ELECTRONICS:  
 ALL Coils and Trimmers ..... 5000,8277,9089



### PUSH-BUTTON ADJUSTMENT

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

### AM ALIGNMENT—SELECTOR IN AM POSITION

Connect output meter across speaker voice coil.

GENERATOR COUPLING	GENERATOR FREQUENCY	RADIO DIAL SETTING	ADJUST	REMARKS
High side thru .1uF to antenna.	455kHz 400-Hz mod.	High freq end stop	T11,T10, T9,T8	Adjust for maximum.
Thru dummy antenna to antenna input.	1615kHz 400-Hz mod.	"	TC6	"
Thru dummy antenna to antenna input.	540kHz 400-Hz mod.	Low end stop	T7	"
Thru dummy antenna to antenna input.	1400kHz 400-Hz mod.	1400kHz	TC5,TC4	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 TC4 for maximum output. Antenna adjustment is located thru front plate at left end of dial plate.				

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

High side of generator thru .001uF to TP1.  
 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 TP2.	(1)T3,T2,T1, VR1	Disconnect stabilizing capacitor Adjust for maximum gain and symmetry of response similar to Fig. 1. Reconnect
"	"	Vert input of scope to TP3.	T4,VR2	Adjust T4 for maximum amplitude and straightness of line, similar to Fig. 2.

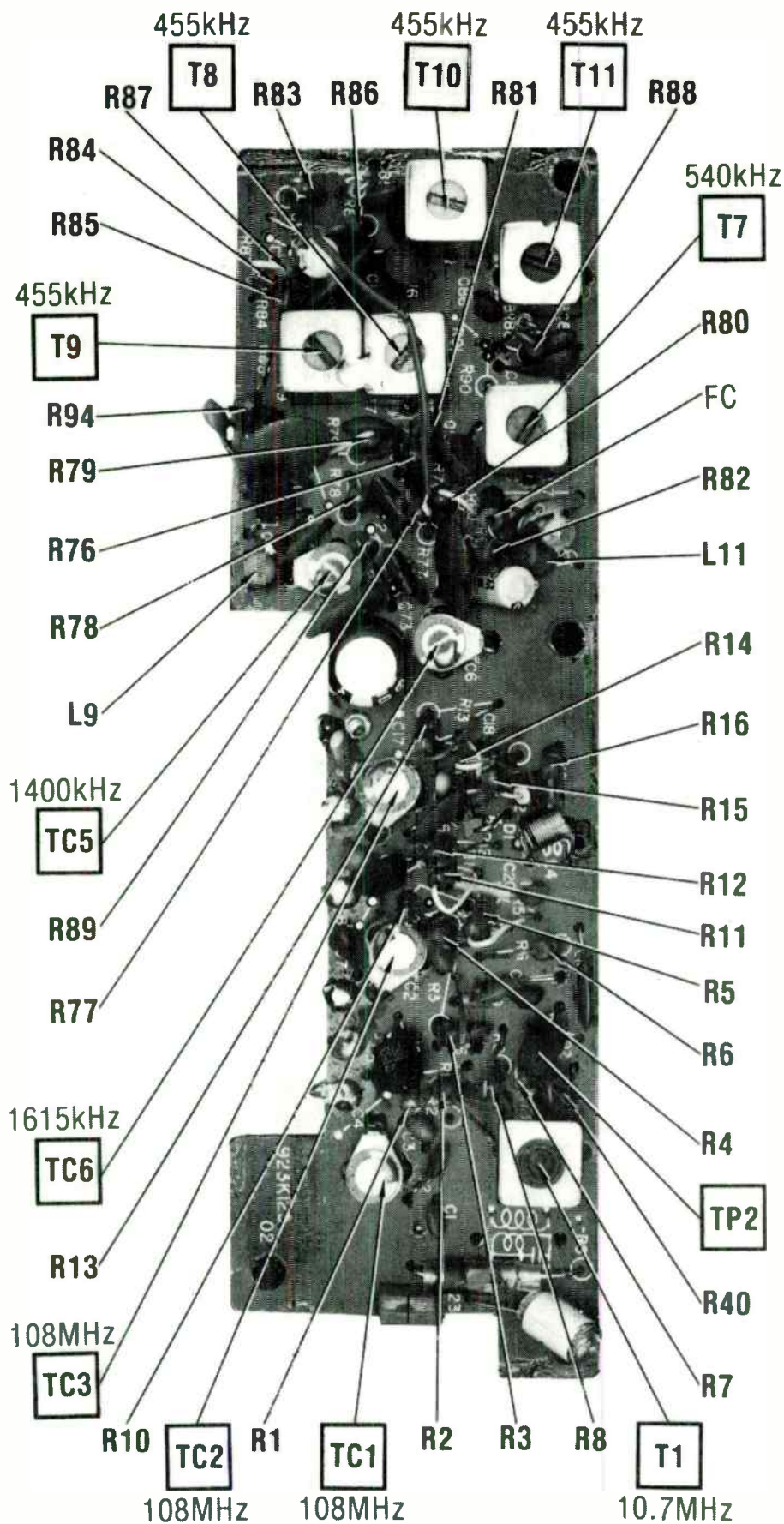
### FM RF ALIGNMENT—SELECTOR IN FM POSITION

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.

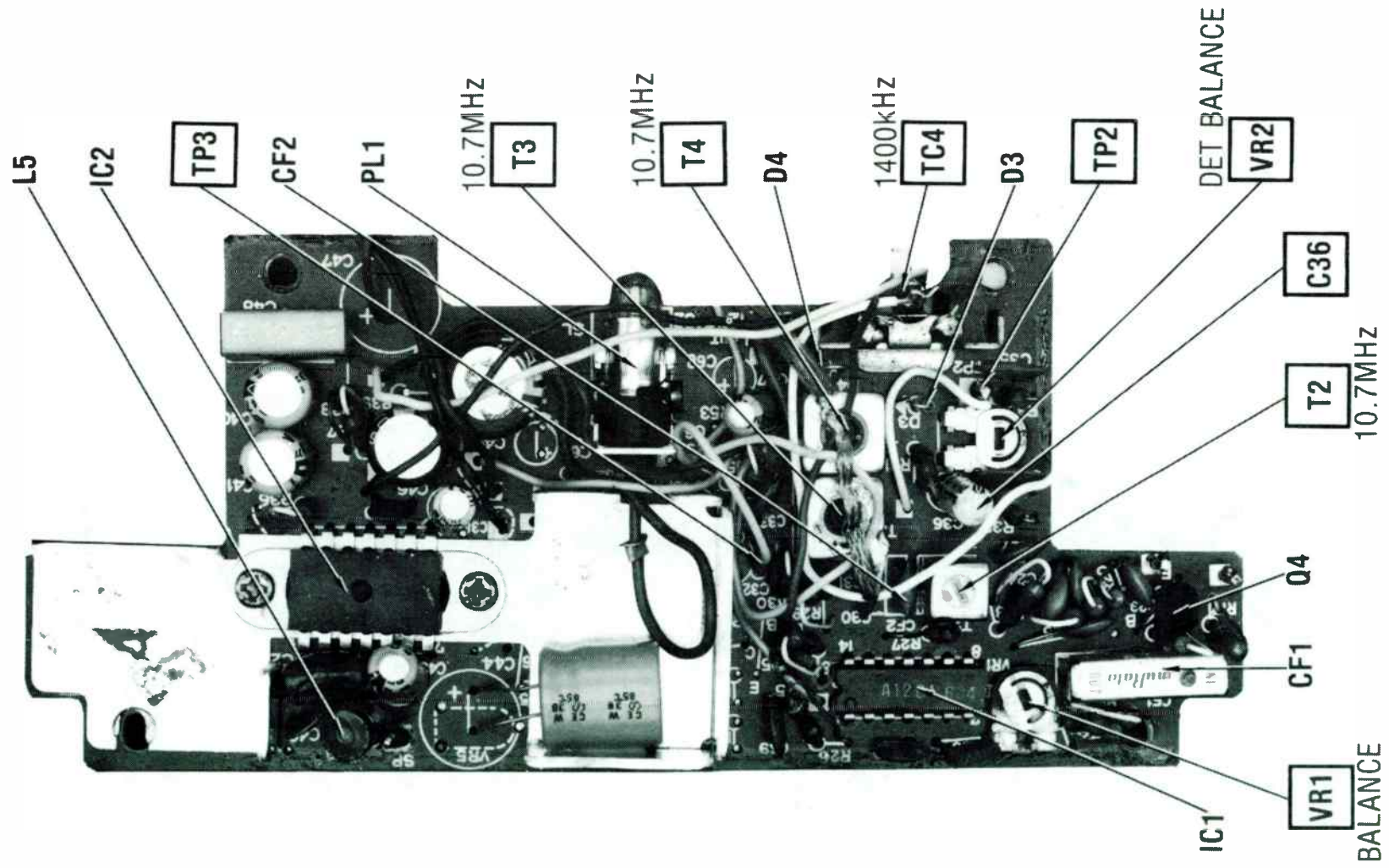
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
108MHz Modulated	108MHz	DC probe of VTVM to speaker.	TC3,TC2,TC1	Adjust for maximum.

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

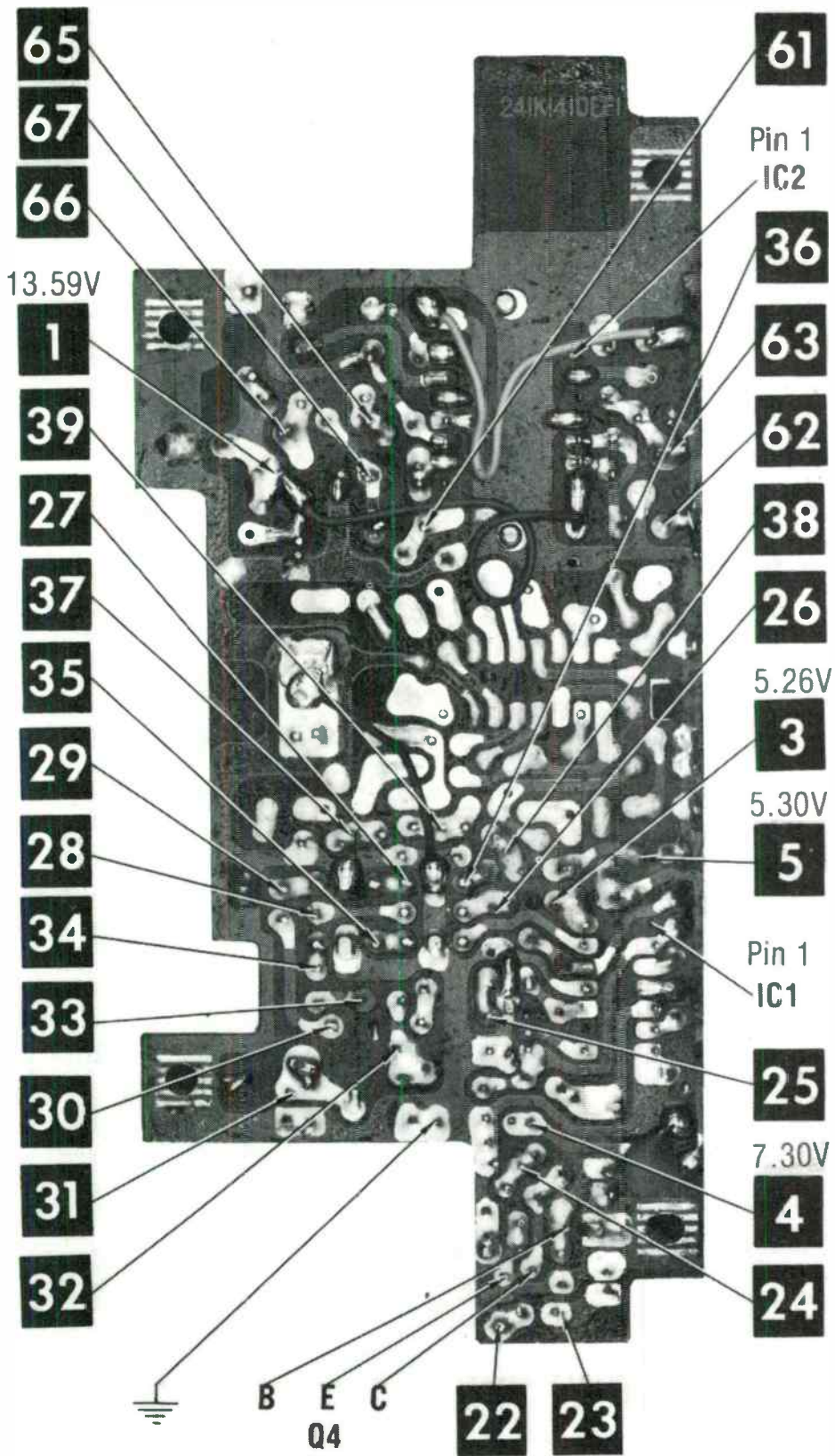




MAIN BOARD

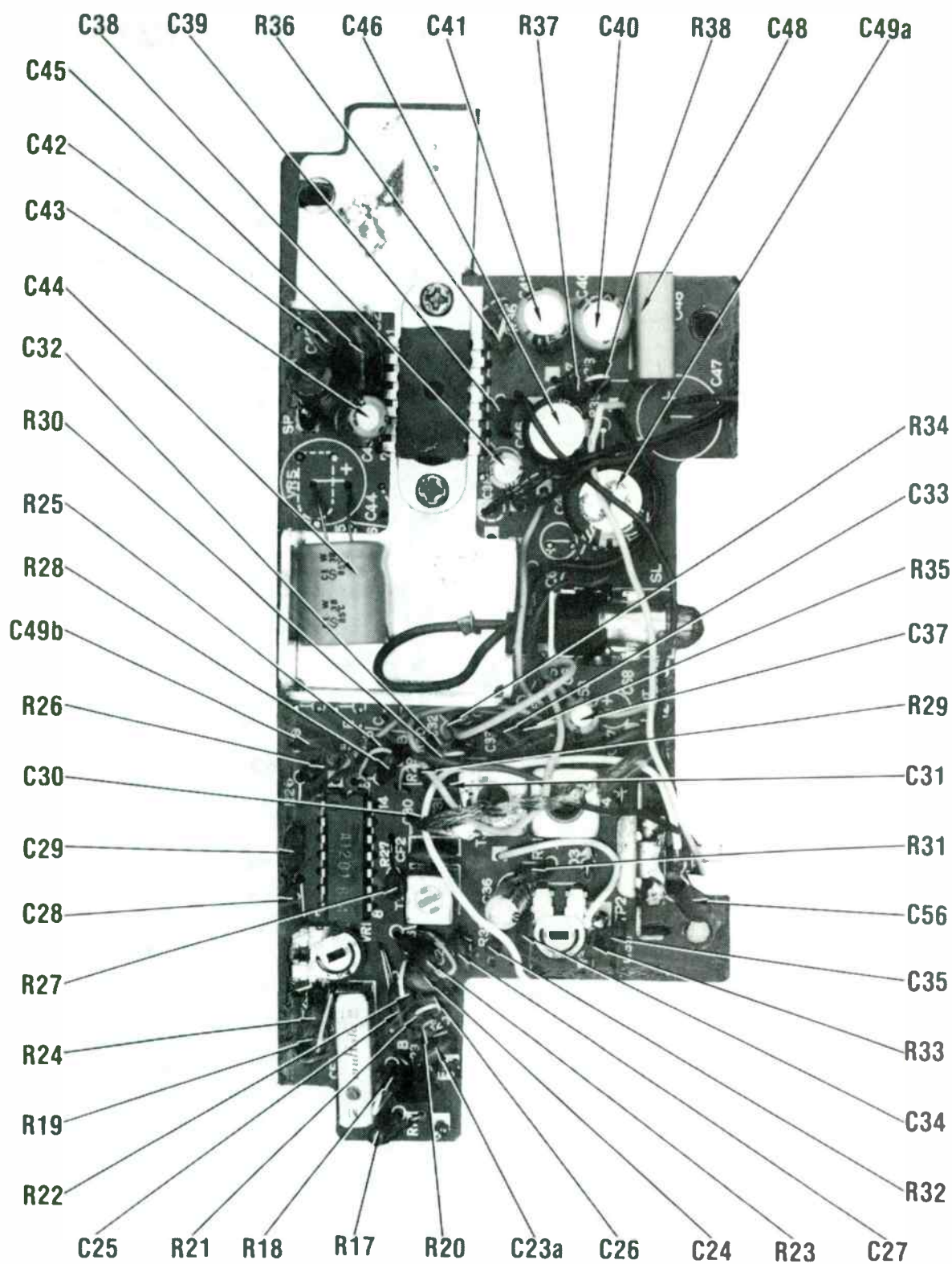


IF/AUDIO BOARD

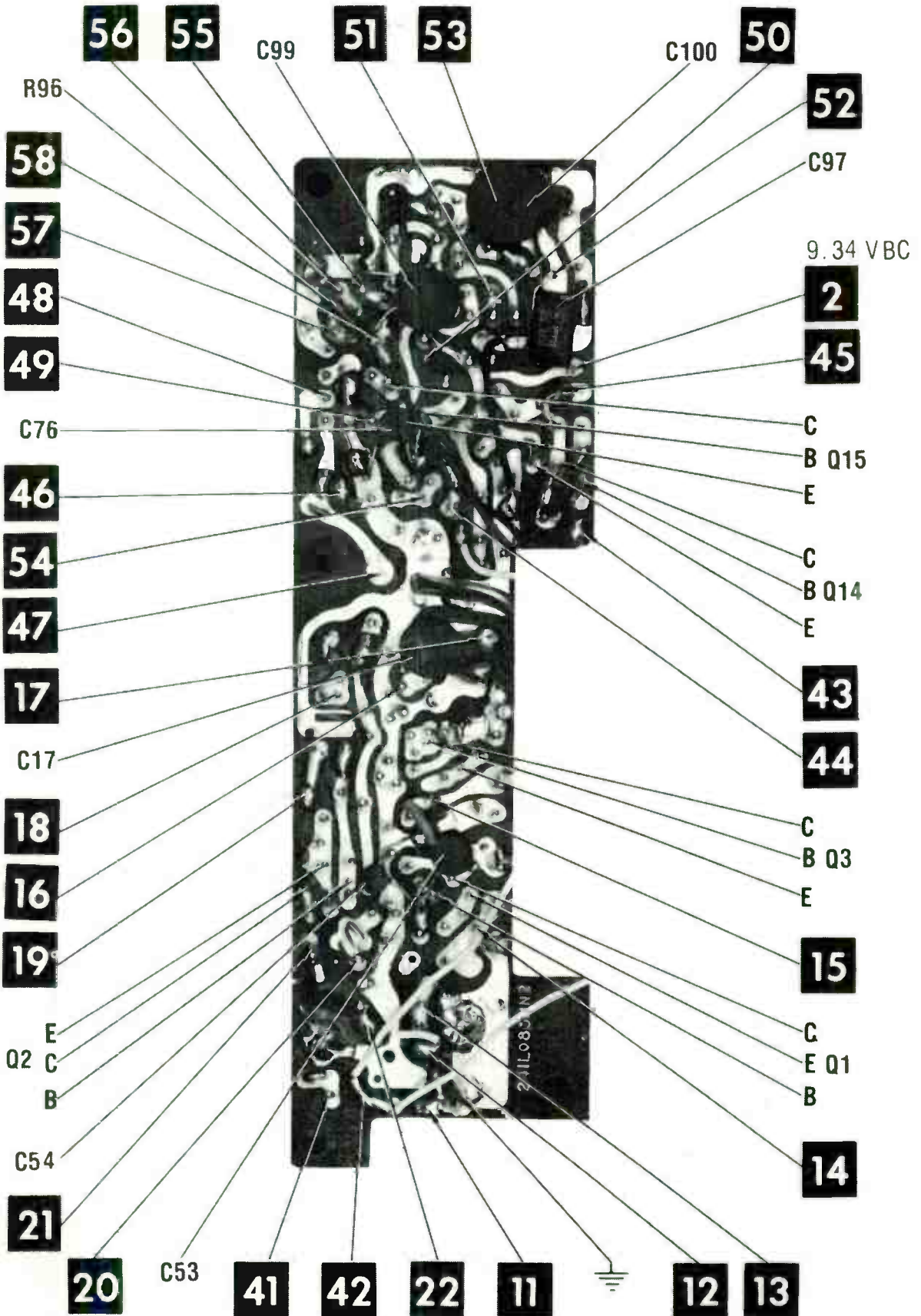


PLYMOUTH MODELS AR-1730CE/-1730CR-B

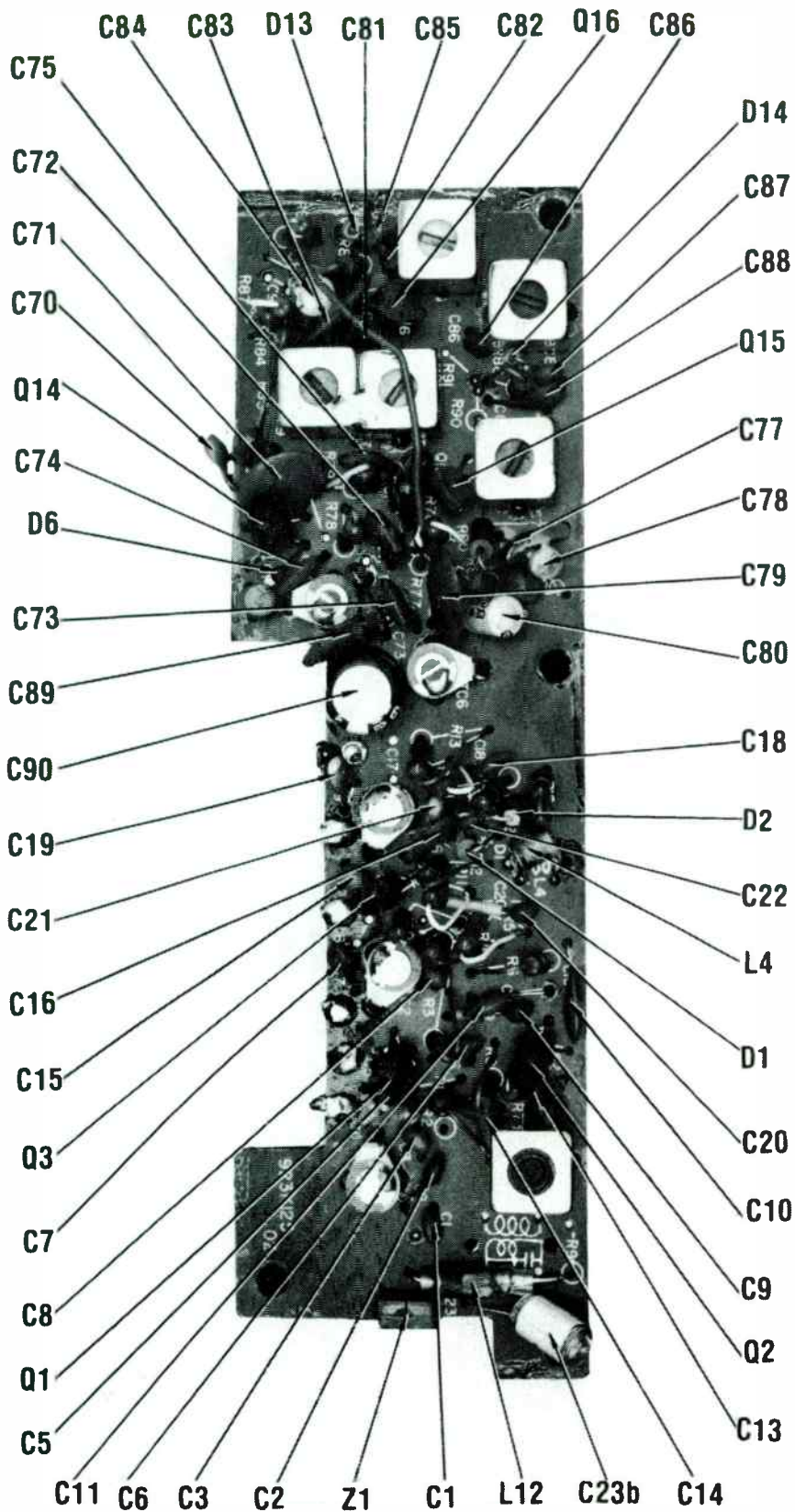
IF/AUDIO BOARD



IF/AUDIO BOARD



MAIN BOARD



MAIN 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<sup>®</sup> 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. 87B2 (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)

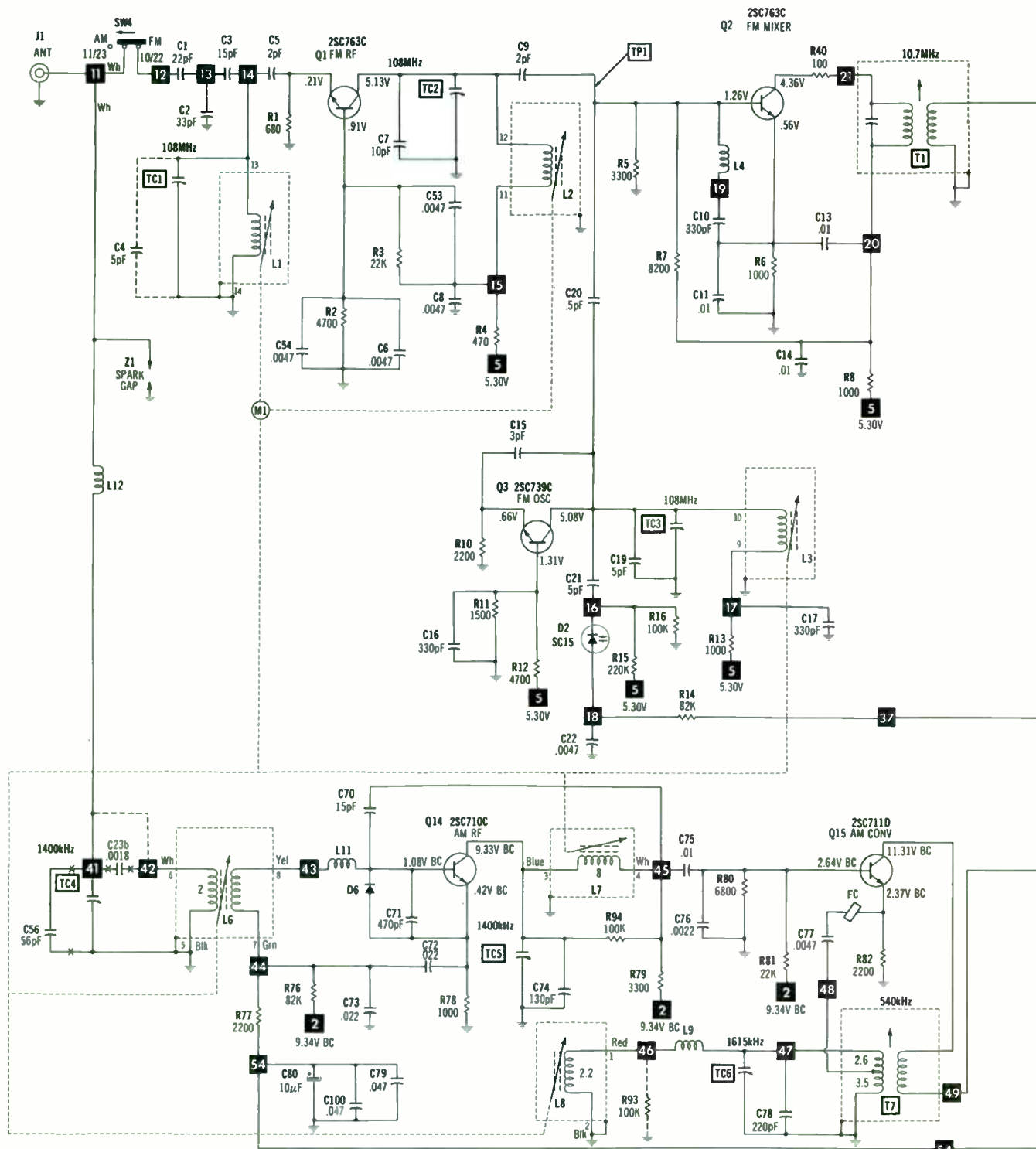
ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D1	EQA01-05T	264P11001	GEZD-5.6	ZB5.6B		REN 136	SK3057	RT-236	ECG136A	1N4734A	WEP110 <sup>4</sup>	103-79007
D2	SC-15	264P07501	GE-90		HEPR2503	REN 614		RT-262	ECG614		WEP200	
D3	MD-60A	264P03802	1N34AS(7)	PTC207M(6)	HEPR9134A(7)	REN 110(6)	SK3087(7)	RT-200(7)	ECG110(6)	TM110(6)	WEP134(7)	103-29001(7)
D4	MD-60A	264P03802										
D6	WV-1	265P03301		PTC301		REN 601	SK3463		ECG601			
D13	MD-34	264P00401	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	TM109	WEP134	103-29001
D14	MD-34	264P00401	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	TM109	WEP134	103-29001
IC1	LA1201		GEIC-43		HEPS6063P	REN 1003	SK3288	TVCM-75	ECG1003	LA1201	WEP2122	221-48
	LA1201FM-C	266P30402	GEIC-43		HEPC6063	REN 1003	SK3288	TVCM-75	ECG1003	LA1201	WEP2122	221-48
IC2	M5151RE	266P30801										
Q1	2SC763C	260P17603	GE-61*	PTC115	HEPS0020*	REN 229*	SK3018*	RT-309	ECG229*	TM229*	WEP56	121-29021
Q2	2SC763C	260P17603	GE-61*	PTC115	HEPS0020*	REN 229*	SK3018*	RT-309	ECG229*	TM229*	WEP56	121-29021
	2SC763B	260P17602	GE-61*	PTC115	HEPS0016*	REN 107	SK3122	RT302	ECG107	TM107	WEP56*	121-522
Q3	2SC739C	260P10403	GE-61*	PTC115	HEPS0016*	REN 107	SK3122	RT302	ECG107	TM107	WEP56*	121-522
Q4	2SC710C	260P17103	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	TM123A*/**	WEP710	
Q14	2SC710		GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	TM123A*/**	WEP710	
	2SC710BC	260P17101	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	TM123A*/**	WEP710	
Q15	2SC711D	260P17503	GE-62*	PTC121	HEPS0024*	REN 199*	SK3124*	RT-302*	ECG199*	TM199*/**	WEP66*	121-972
Q16	2SC710		GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	TM123A*/**	WEP710	
	2SC710CD	260P17102	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	TM123A*/**	WEP710	

\* Lead configuration may vary from original.  
 /\*\* Also available as exact type replacement.  
 (6) Matched pair.  
 (7) Two required - select matched pair.

PLYMOUTH MODELS AR-1730CE/-1730CR-B

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C36	10 16V	181P06709	PC10-25	VTT10825	QV1-41	EV-1222
C37	2.2 50V	181P06200	PC2-100	VTT2R2A50	QV1-19	EV-1517
C38	.47 16V	181P06600	PC1-50	VTT47A63	QV1-3	EV-1610
C40	47 16V	181P06206	PC50-16	VTT47D16	QV1-73	EV-1226
C41	47 16V	181P06206	PC50-16	VTT47D16	QV1-73	EV-1226
C43	47 10V	181P06009	PC50-16	VTT47D16	QV1-73	EV-1226
C44	470 10V	181L01102	PC500-16	VTT470K16	QV1-149	EV-1150
C46	220 16V	181L01206	PC250-25	VTT220H16	QV1-117	EV-1240
C49a	330 16V		WBR300-35*	VTT330H16	QV1-133	EV-1245
C80	10 16V	181P06709	PC10-25	VTT10825	QV1-41	EV-1222
C84	.47 50V	181P06600	PC1-50	VTT47A63	QV1-3	EV-1610
C90	100 16V	181L01202	PC100-16	VTT100F16	QV1-95	EV-1230

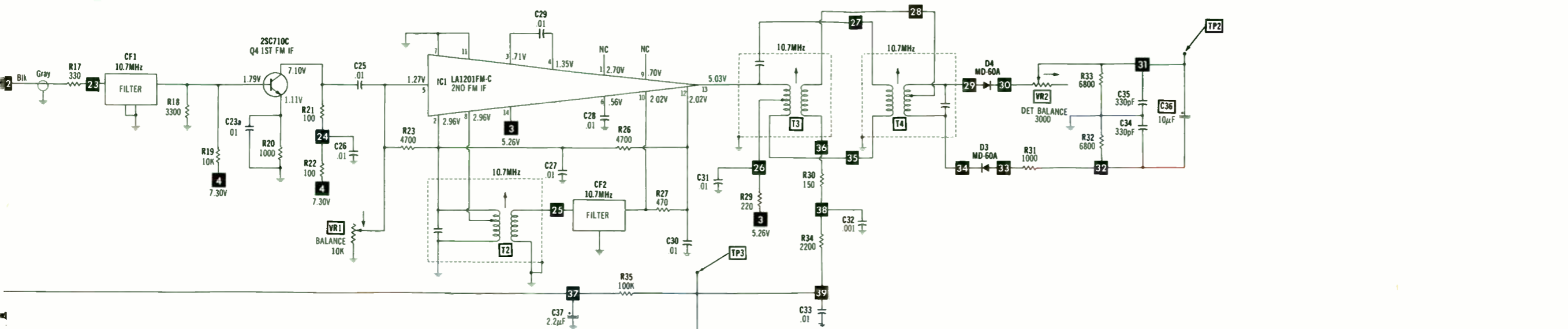


- ✖ Circuitry not used in some versions
- Circuitry used in some versions
- ⊙ See parts list
- ⊛ Nominal value
- ⊕ Ground
- ⏏ Chassis
- ▽ Common tie point

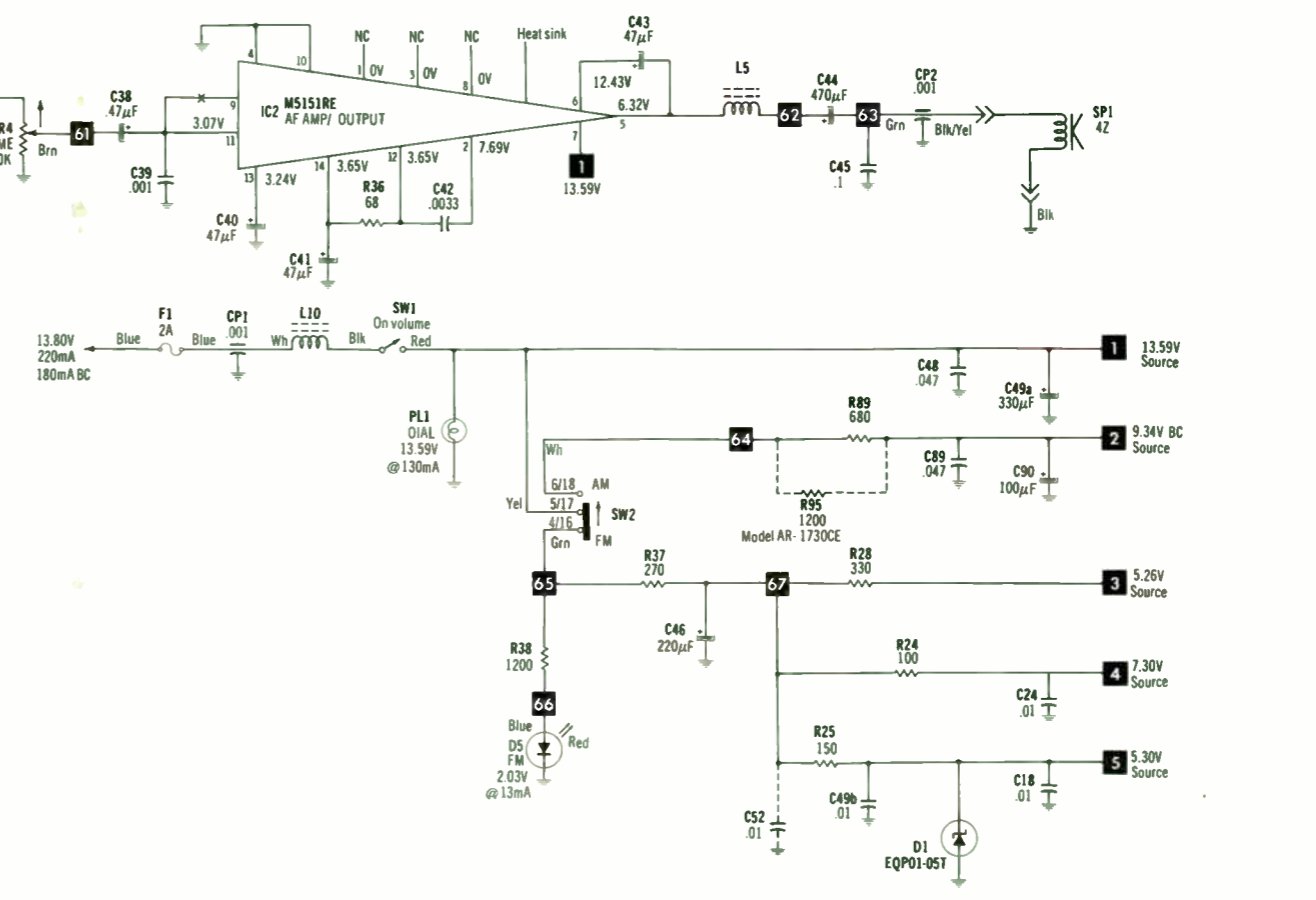
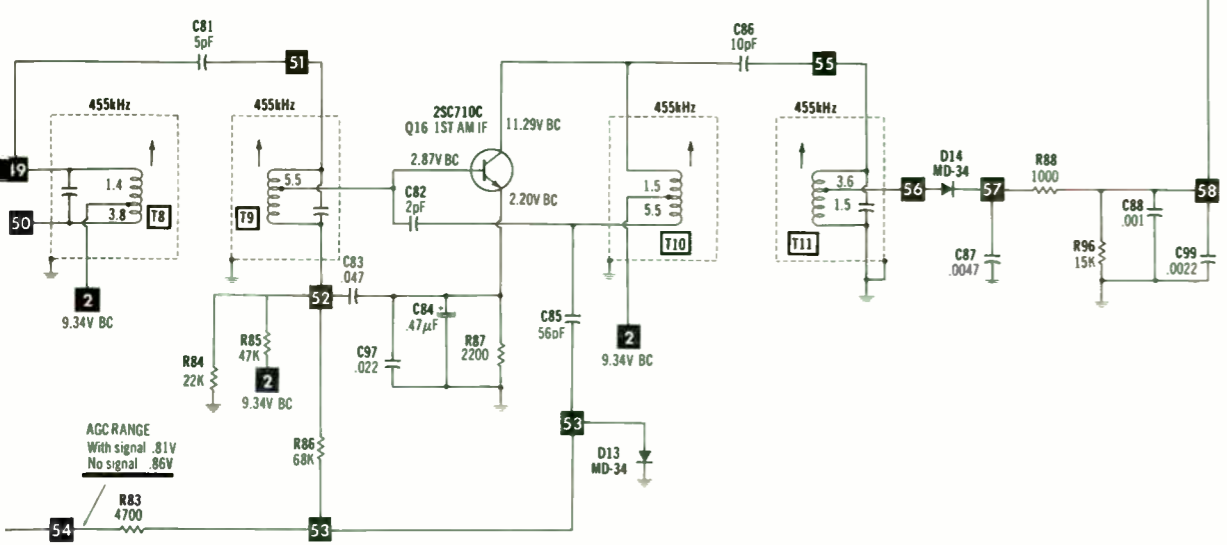
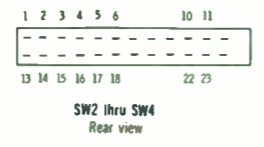
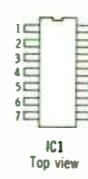
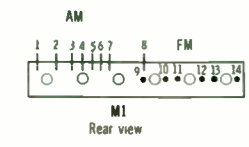
A PHOTOFACIT STANDARD NOTATION SCHEMATIC  
WITH **CIRCUITRACE**<sup>®</sup>  
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Supply voltage maintained as shown at input.  
Voltages measured with digital meter, no signal.  
Controls adjusted for normal operation.  
Arrow at control indicates direction 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.





Terminal Guides



**PARTS LIST AND DESCRIPTION (CONTINUED)**

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

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**CAPACITORS**

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
C1	22 5%		DTZ-22	NP022	CNO422		10TCC-Q22
C2	33 5%		DTZ-33	NP033	CNO433		10TCC-Q33
C3	15 5%		DTZ-15	NP015	CNO415		10TCC-Q15
C4	5 +.5		DTZ-4R7	NP04P7	CNO547		10TCC-V47
C5	2 .5		DTZ-2R2	NP02P2	CNO522		10TCC-V22
C7	10 +1	154P02509					
C8	.0047		DD-472	GP4700	GP247		5GA-D47
C9	2 +.5		DTZ-2R2	NP02P2	CNO522		10TCC-V22
C10	330 5%					QW1-39	MWA-331
C11	.01		UK50-103		SX333		
C13	.01		UK50-103		MAG5011		
C14	.01		UK50-103		MAG5011		
C15	3 +.25	154P13005					
C16	330 10%		DD-331	GP330	GP333		10TS-T33
C17	330 10%		DD-331	GP330	GP333		10TS-T33
C18	.01		UK50-103		MAG5011		
C19	5 N220 +.5	154P14505					
C20	.5 +.5	154D01009					
C21	5 N220 +.5	154P14505					
C62	.0047		DD-472	GP4700	GP247		5GA-D47
C23a	.01		UK50-103		MAG5011		
C23b	.0018 50V 5%			CD19FD182J03	SX218		MWC-182
C24	.01		UK50-103		MAG5011		
C25	.01		UK50-103		MAG5011		
C26	.01		UK50-103		MAG5011		
C27	.01		UK50-103		MAG5011		
C28	.01		UK50-103		MAG5011		
C29	.01		UK50-103		MAG5011		
C30	.01		UK50-103		MAG5011		
C31	.01		UK50-103		MAG5011		
C32	.001		DD-102		GP210		10TS-D10
C33	.01 50V 10%			WMF1S1	EWF1A110	QF1-91	1PB-S10
C34	330 5%			CD15FD331J03	SX333	QW1-39	MWA-331
C35	330 5%			CD15FD331J03	SX333	QW1-39	MWA-331
C39	.001		DD-102		GP210		10TS-D10
C42	.0033		DD-332	GP3300	GP233	QC2-107	5GA-D33
C45	.1 50V 10%			WMF05P1	EWFO5010		431P1049R5
C48	.047 100V			DPMS2S47	EWF1A147	QF1-171	1PB-S47
C49b	.01		UK50-103		MAG5011		
C51	.047			DPMS2S47	EWF1A147	QF1-171	1PB-S47
C52	.01		UK50-103		MAG5011		
C53	.0047		DD-472	GP4700	GP247		5GA-D47
C54	.0047		DD-472	GP4700	GP247		5GA-D47
C56	56 10%				CNO456		10TCC-Q56
C70	15 5%		DTZ-15	NP015	CNO415		10TCC-Q15
C71	470 10%		DD-471	GP470	GP347		10TS-T47
C72	.022 50V				M192P2239R8		192P2239R8
C73	.022 50V				M192P2239R8		192P2239R8
C74	130 5%						
C75	.01		UK50-103		MAG5011		
C76	.0022				GP222		10TS-D22
C77	.0047 10%			WMF1047	EWF1A247	QF1-57	1PB-D47
C78	220 5%		DTZ-220				10TCC-T22
C79	.047			DPMS2S47	EWF1A147	QF1-171	1PB-S47
C81	5 +.5		DTZ-4R7	NP04P7	CNO547		10TCC-V47
C82	2 .5		DTZ-2R2	NP02P2	CNO522		10TCC-V22
C83	.047			DPMS2S47	EWF1A147	QF1-171	1PB-S47
C85	56 10%				CNO456		10TCC-Q56
C86	10 +1	154P02509					
C87	.0047			WMF1047	EWF1A247	QF1-57	1PB-D47
C88	.001		DD-102		GP210		10TS-D10
C89	.047			DPMS2S47	EWF1A147	QF1-171	1PB-S47
C97	.022 50V 10%				M192P2239R8		192P2239R8
C99	.0022				GP222		10TS-D22
	.022				M192P2239R8		192P2239R8
C100	.047			DPMS2S47	EWF1A147	QF1-171	1PB-S47
CP1	.001	141P02001					
CP2	.001	141P02001					
TC1	10	202P10402					
TC2	10	202P10402					
TC3	10	202P10402					
TC4	60	202L00201					
TC5	50	202P10401					
TC6	50	202P10401					

PLYMOUTH MODELS AR-1730CE/-1730CR-B

**PARTS LIST AND DESCRIPTION (CONTINUED)**

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
VR1	Balance	10K	127M02101			U260R103B
VR2	Det Balance	3000	127M02103			U260R502B
VR3	Tone	30K	122C13005(19)			
VR4	Volume/Power Switch	30K	2C13005(5)			

(5) Number on unit.  
(19) Includes VR3, VR4 and SW1.

**COILS (RF-IF)**

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Tuner	(1)			(1) Part of M1 (Tuner).
L2	Tuner	(1)			
L3	Tuner	(1)			
L4	RF Choke	320D04601			
L5	RF Choke	351L00102			
L6	Tuner	(1)			
L7	Tuner	(1)			
L8	Tuner	(1)			
L9	RF Choke	351D02103			
L10	RF Choke	351P00106			
L11	RF Choke	321P00106			
L12	RF Choke	351M00201			
T1	IF (10.7MHz)	374002402			
T2	IF (10.7MHz)	374L00202			
T3	IF (10.7MHz)	374C00401			
T4	IF (10.7MHz)	374C00402			
T7	AM Conv (540kHz)	373D03502			
T8	IF (455kHz)	374C00105			
T9	IF (455kHz)	374C00102			
T10	IF (455kHz)	374C00105			
T11	IF (455kHz)	374D02106			

**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	2A Quick Acting	283P00102		AGC2	HDJ	312002	150145	FG2-2

**MISCELLANEOUS**

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	296M00102(1)	10.7MHz
CF2	Filter	296M00102(1)	
D5	LED	264P13901	10.7MHz
J1	Socket	449L00302	FM (2.03V @ 13mA)
M1	Tuner	295K02901	Antenna
PL1	Lamp	253D00301	AM/FM
SW1	Switch	(2)	Dial (13.59V @ 130mA)
SW2	Switch	(2)	Power (On Volume Control)
SW3	Switch	(2)	AM/FM
SW4	Switch	(2)	AM/FM
Z1	Spark Gap	224D01901	AM/FM
	Printed Circuit Board	923K12502	RF Assembly
	Printed Circuit Board	923K12402	AF Assembly

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

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

ITEM	PART No.	ITEM	PART No.
Knob, Tone	704M01902	Knob, Tuning Volume	704D91802



# INDEX

Listing all models in PHOTOFAC Auto Radio Series volumes from 1970 (AR-70).  
For models covered before 1970, see the Annual Index.

Abbreviations used: (EP) Early Production		(LP) Late Production	(SN) Serial Number	(Rev) Revised	(PCB) Production Change Bulletin
AFCO	VOL.	AMERICAN MOTORS	VOL.	ARTHUR FULMER	VOL.
		(CONT.)		(CONT.)	
AFR810	216	5KJ1405	167	748 (Pg 107)	164
AG52	222	5KJ1511	212	790	164
ID400AFX	195	5KJ2405	169	791	160
ID400PB	221	5KJ3511	216	792	205
IDC600AFX	220	5RA1507	212	3900, 3901	209
IDC650AE	231	5RA1508	212	4601	212
SB480	223	5RA1524	212	4801	217
SC700	224	5RA1525	212		
SCX900	226	5RA2404	200		
SK301SB	227	5RA2510	219		
		5RA2520	219		
ATWA		5RA3517	216	1.51001	92
		5RA4503	217	50Y74-19	92
		5RA4518	217		
TP1023	91	9SMC	86		
TP1028/E/EL	107	9SMR	87		
		3591052	87		
ALLIS CHALMERS		3601578	87		
		3614434	86		
OBTPAC	80	3614435	84		
LBPC	112	3614437	84		
		3614438	86		
AMERICAN MOTORS		3631192	82		
A9MC	82	3631193	83		
P95MG	83	3632704	122		
P95MR	84	3651039	133		
P9MA	82	3664162	200		
LHT1224	133	3665160	212		
LHT1303	166	3665161	212		
LHT1509	212	(1RA/2RA/5RA1508)	212		
LHT1510	212	(2RA/5RA1508)	212		
LHT2212	136	3665161 (2RA1410)	217		
LHT2306	170	3665162	216		
LHT2409	200	3665914	171		
LHT2412	169	3672718 (LHT2409)	166		
LHT2413	169	3672718 (5HT2409)	170		
LJA1001	82	3672718 (5HT3607)	231		
LJA1277	133	3674344	212		
LJA1305	166				
LJA1408	167				
LJA2001	83				
LJA2305	170				
LJA2410	172				
LJA4009	87				
LJA4105	122				
LJA4222	157				
LJA4308	153				
LJA4411	171				
LKJ1405	167				
LKJ2405	169				
LRA1016	86				
LRA1226	155				
LRA1301	166				
LRA1508	212				
LRA2011	131				
LRA2211	131				
LRA2315	171				
LRA2404	200				
LRA2413	169				
LRA2511	219				
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81VFM1/T2 .....261	7313514 (24AFP2) .....129	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
82XFM1 .....242	7313522 (12FPB1) .....98	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
86CFM1 .....263	7313522 (22FPB1) .....114	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
86CFM1/T2 .....263	7313522 (22FPB2) .....126	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
86CFM2 .....263	7313522 (42FPB1) .....174	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
86CFM3 .....264	7313522 (S2FPB1) .....186	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
86CFM4 .....264	7313522 (S2FPB2) .....217	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
86CFM5 .....263	7313522 (S2FPB3) .....252	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
86KFM1 .....265	7313522 (S2FPB4) .....252	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
86KFM2 .....265	7313522 (72FPB1) .....252	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
86KFM1/T2 .....263	7313522 (72FPB2) .....252	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
86KFM2 .....265	7313522 (12FPB1) .....97	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
86KFM3 .....264	71 Pont. .....97	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
86KFM4 .....264	7313532 (12FPB1) .....120	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
86KFM5 .....264	72 Pont. .....120	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
86T431 .....70	7313542 (12FPB1) .....106	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
91VFM2 .....259	7313542 (22FPB1) .....113	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
91VFM3 .....70	7313542 (22FPB2) .....113	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
91VFM4 .....70	7313542 (52FPB1) .....91	7898949 .....261	7933301 (21APBK2) Chev. ....124	7938353 (51BPBT3) .....207	9346783 .....190
92BFP6 (Pg 1					



Listing all models in PHOTOFACT Auto Radio Series volumes from 1970 (AR-70).  
For models covered before 1970, see the Annual Index.

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805,807	87	1KJ1024	118	99-15521W	91	65-501A	121	M431	173	QP44E	155
912	103	1KJ1025	118	LANCER		65-501B	150	M607	133	TP600	222
920	101	1KJ1048	118	(See Chrysler)		65-502	123	M650	161	TP222E	143
950, 952	87	1KJ1326/32	168	LARK (See Studebaker)		65-505	119	M651	162	TP652E	242
HAMMOND		1KJ6512 (Pg 5)	169			65-506	123	M860	134	TP700E	152
HDS00	176	5JC1603	234	LEAR JET		65-509	157	M860	134	TP727E	249
HDS01	141	5JC1613	234			65-516	200	M860	134	TP777E	145
HDS15	185	981026	118	A10	229	65-528	149	M883	132	TP800E	229
HDS25	148	981030	118	A20	176	65-531	178	M884	136	TP828E	229
HDS55	146	984336	118	A65	141	65-534	198	M886	134	TP900E	250
HDS75	187	5457087	234	A26 (Pg 57)	141	65-540	161	M888	143	TP900E/G	146
HDS85	187	5460125	234	A40	143	65-549	158	M840	141	TP6001G	246
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HITACHI		8997025 (Pg 5)	169	A50	147	65-558	240	PJ421A01	134	TP7000ZE	219
CS133	103	J.I.L.		A55	147	65-560	165	PJ423-01	143	TP7005ZE	244
CS214	166	515	207	A70 (Pg 51)	162	65-562	198	PJ427A02	134	TP7000OE	148
CS1000IC	111	517	213	A71	147	65-564	255	PJ428A01	134	TP8001E	228
CS1050IC	123	528	209	A73	213	65-565	205	PJ434 (Pg 79)	170	TP9005G	244
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CS1150IC	123	601MZS	197	A75	241	65-576	199	PJ607A01	133	PLYMOUTH (See Chrysler)	
CS1440IC	153	603MIS	193	A80	185			PJ809A01	141	PONTIAC (See General Motors)	
CS1700IC	123	606C8	231	A81G	243	MERCURY (See Ford)		1310	75	PORSCHE	
CS1750IC	143	608	261	A83	250	NEA		OLDSMOBILE (See General Motors)		1PE1123	118
CSX1300 IC	148	612	259	A85	185	AR615SGL	117	OLSON		1PE2124	130
KM1520H	129	701MPK	182	A90	205	AR615SGBL	117	AJ332A	185	1PE2241, 1PE2242	157
TRQ206	116	701MPXU	215	A120	150	ARAI01W	117	AJ334	201	1VW1327	155
HONDA		702PF	195	A125 (Ser #A12-1000 & Up)	190	MIDLAND				1VW1419	192
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		830NN	180	A225	160			Q8414E	237	2VW1527	155
		831N/NN	198	A226	212	MOTOROLA		Q8480E	146	5VW1527	192
		831R	194	A245	163	CE70A	77	Q880E	164	5VW2335	181
		832Q	202	A250	72	CK70A	77	Q881E	194	5VW3401	193
		841	190	A255	209	CMX501	127	Q898E	219	5VW4309	179
		842	199	A660	77	C770A	77	Q909E	108	5VW4419	191
		843	200	A275	183	CT71A	106	Q959E	175		
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				R947	235	FM214A	201	CR003B	149	R100C2	75
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						TF852AX	232	CR1717E	244	RR65TO	150
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						TM299M	71	CR775E	99	77T	212
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						5FM616A	223	GK5050G	259	1R2607	207
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