



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

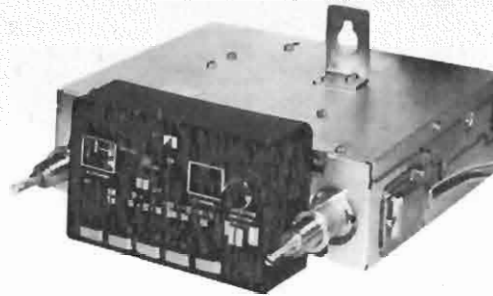
Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.

(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 3231850

MANUFACTURER'S SPECIFICATIONS

1. SPECIFICATIONS

General

ICs : 6
Transistors : 36
Diodes : 41
Power Supply Voltage : DC12V Negative Ground
Output Impedance : 3.2Ω
Dimensions : Width 180 mm
Height 50 mm
Depth 150 mm

CB Receiver

Channels : 40
Frequency Range : 26.965~27.405 MHz
Intermediate Frequency : 1st 10.695 MHz
2nd 455 KHz
Sensitivity : 0 dB/μV at 10 dB S/N 2.5W Output
Selectivity : More than 60 dB at ±10 KHz
AGC(F.O.M) : -7 dB at 0 dB/μV Input
Squelch Sensitivity : Less than 6 dB (Threshold)

CB Transmitter

Channels : 40
Frequency Range : 26.965~27.405 MHz
Frequency Tolerance : ±0.005%
RF Output Power : 4W Max.
Modulation Capability : 80~100%
Antenna Impedance : 50Ω
Microphone Impedance : 500Ω Dynamic Type

AM Radio

Frequency Range : AM 515~1620 KHz
FM 88~108 MHz
Intermediate Frequency : AM 262.5 KHz
FM 10.7 MHz
Sensitivity : AM less than 23 dB/μV (for 1W output)
FM less than 20 dB/μV (for 1dB limiting Sensitivity)
Stereo Separation : More than 20 dB (1000 Hz)

Courtesy of the Manufacturer

AMERICAN MOTORS MODELS 3231847/48/49/50

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 13.8 volt DC input.
Connect low sides of test equipment to ground unless specified otherwise.
Connect 50-ohm dummy load or antenna before keying transmitter.
Connect microphone.

Suggested Alignment Tools: GC ELECTRONICS:
T101, T102, L203, T201, FIL 9440
T103, T104, T105, T106 5000, 5009, 8276, 8728, 9089
L302, L304, L305, L306, T301 8728, 9089, 9304
VC301 5000, 8276, 9089

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP1A (Q201 Emitter).	Ch. 19 Fine Tuning Midrange		Check for 10.240MHz.
Input of DC meter to TP2 (Junction of R216 and R215).	Ch. 19	L203	Adjust for 3.00 volts $\pm$.5 volts.
Input of frequency counter to TP12 (IC201 Pin 4).	Ch. 19		Check for 36.190MHz.
Input of frequency counter to TP10 (IC202 Pin 4).	Ch. 1 Fine Tuning Midrange		Check for 1.470MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of oscilloscope to TP11 (T201 Secondary).	Ch. 19	T201	Adjust for maximum RF (15mV p-p typical). (See Figure 1.)
Input of frequency counter to TP11 (T201 Secondary).	Ch. 1 Fine Tuning Midrange		Check for 37.660MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP13 (Q304 Gate 1).	Ch. 19, XMT	VC301	Adjust for 10.695MHz.
Input of frequency counter to antenna input.	Ch. 1, XMT		Check for 26.965MHz. If necessary readjust VC301 for correct frequency. Check all channels. (See page 4 for correct frequencies.)

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. Preset controls as follows, unless otherwise noted:
Squelch MINIMUM, Fine Tuning Midrange.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator to TP14 (Q106 Base). 455kHz, 1000Hz @ 30% modulation.	Ch. 19	T106, T105	Adjust for maximum audio output.
Output of signal generator to antenna input. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	T104, T103, T102, T101	Adjust for maximum audio output. Readjust T105 and T106 for maximum.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
Preset controls as follows, unless otherwise noted:
Squelch MINIMUM, Fine Tuning Midrange.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 1000uV.	Ch. 19	VR102	SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 350uV.	Ch. 19	VR101	S METER Adjust for 9 on S scale of meter.

TRANSMITTER ALIGNMENT

Connect a 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
Input of RF wattmeter to antenna input.	Ch. 19	FIL,T301, L302,L304, L305,L306	Adjust for maximum RF output.
Input of RF wattmeter to antenna input.	Ch. 19	VR301	RF POWER Adjust for 4.0 watts RF output maximum.

TRANSMITTER ADJUSTMENTS

Connect a 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 input. Inject a 1000Hz, 50mV audio signal at mic input.	Ch. 19	VR303	AMC Adjust for 80% modulation. (See Figure 2.)
Input of RF wattmeter to antenna input.	Ch. 19	VR302	POWER METER At 4.0 watts RF output adjust so needle rests at leading edge of yellow area on Power scale of meter.

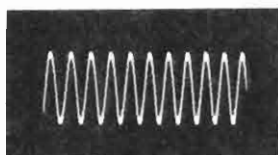


FIGURE 1

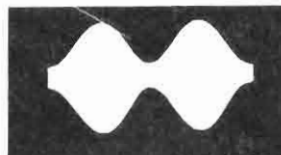
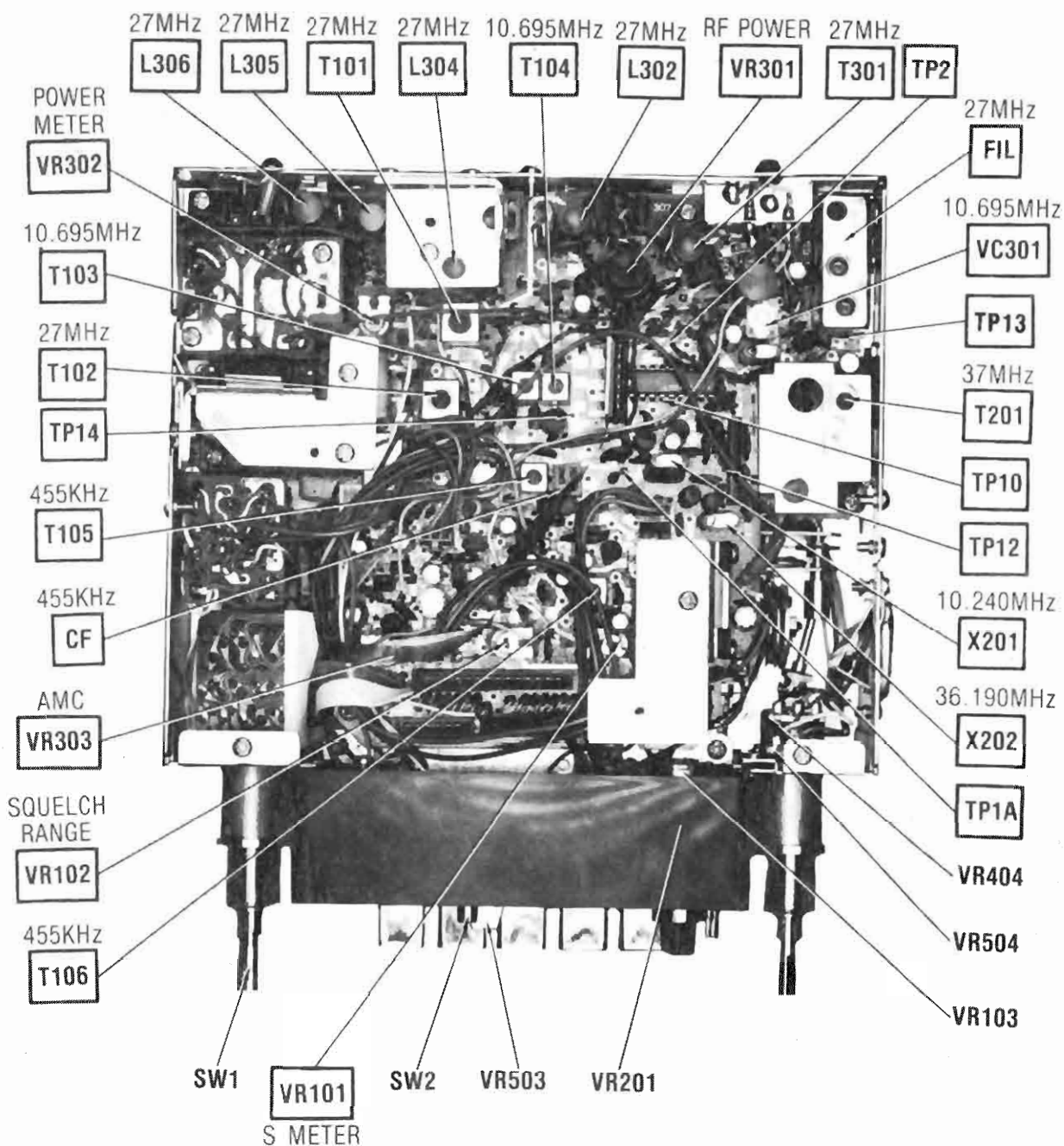


FIGURE 2

TRUTH CHART

C H A N N E L	1 = 6.70 Volts 0 = 0 Volts							DIVIDER INPUT IN MHz AT TP10	REC & XMT VCO OUTPUT IN MHz AT TP11		
	CHANNEL INPUT CODES										
	IC202 PINS										
	3	2	1	17	16	15					
1	0	0	0	0	0	0			1.470	37.660	
2	0	0	0	0	0	1			1.480	37.670	
3	0	0	0	0	1	0			1.490	37.680	
4	0	0	0	1	0	0			1.510	37.700	
5	0	0	0	1	0	1			1.520	37.710	
6	0	0	0	1	1	0			1.530	37.720	
7	0	0	0	1	1	1			1.540	37.730	
8	0	0	1	0	0	1			1.560	37.750	
9	0	0	1	0	1	0			1.570	37.760	
10	0	0	1	0	1	1			1.580	37.770	
11	0	0	1	1	0	0			1.590	37.780	
12	0	0	1	1	1	0			1.610	37.800	
13	0	0	1	1	1	1			1.620	37.810	
14	0	1	0	0	0	0			1.630	37.820	
15	0	1	0	0	0	1			1.640	37.830	
16	0	1	0	0	1	1			1.660	37.850	
17	0	1	0	1	0	0			1.670	37.860	
18	0	1	0	1	0	1			1.680	37.870	
19	0	1	0	1	1	0			1.690	37.880	
20	0	1	1	0	0	0			1.710	37.900	
21	0	1	1	0	0	1			1.720	37.910	
22	0	1	1	0	1	0			1.730	37.920	
23	0	1	1	1	0	1			1.760	37.950	
24	0	1	1	0	1	1			1.740	37.930	
25	0	1	1	1	0	0			1.750	37.940	
26	0	1	1	1	1	0			1.770	37.960	
27	0	1	1	1	1	1			1.780	37.970	
28	1	0	0	0	0	0			1.790	37.980	
29	1	0	0	0	0	1			1.800	37.990	
30	1	0	0	0	1	0			1.810	38.000	
31	1	0	0	0	1	1			1.820	38.010	
32	1	0	0	1	0	0			1.830	38.020	
33	1	0	0	1	0	1			1.840	38.030	
34	1	0	0	1	1	0			1.850	38.040	
35	1	0	0	1	1	1			1.860	38.050	
36	1	0	1	0	0	0			1.870	38.060	
37	1	0	1	0	0	1			1.880	38.070	
38	1	0	1	0	1	0			1.890	38.080	
39	1	0	1	0	1	1			1.900	38.090	
40	1	0	1	1	0	0			1.910	38.100	



AMERICAN MOTORS MODELS 3231847/48/49/50

CHASSIS-TOP

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:
T601, T602, L607, T701 thru T705 5000, 5009, 8276, 8728, 9089
L605 9440
VC601 thru VC603, VC701 thru VC703 .. 5000, 8276, 9089

PUSH-BUTTON ADJUSTMENT

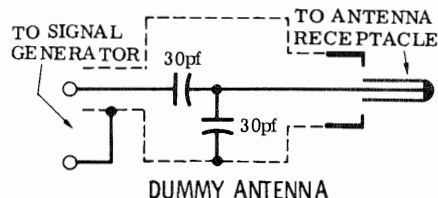
1. Pull button out.
2. Tune manually to desired station.
3. Press button in firmly.
4. Repeat for remaining buttons.

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 TP1 (Q702 Emitter).	262.5kHz 400Hz mod.	High freq end stop	T705, T704, T703, T702	Adjust for maximum audio output.
Thru dummy antenna to antenna input.	1600kHz 400Hz mod.	1600kHz	VC703	Adjust for maximum audio output.
Thru dummy antenna to antenna input.	550kHz 400Hz mod.	550kHz	T701	Adjust for maximum audio output.
Thru dummy antenna to antenna input.	1400kHz 400Hz mod.	1400kHz	VC702	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 VC701 for maximum output. Antenna adjustment is located beneath stereo indicator on front panel.



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

High side of generator thru .001uF to TP3 (Junction of L605 and R602).
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 TP4 (IC601 Pin 5).	(1)T601, T602, L607	Adjust for maximum amplitude and straightness of line, similar to Fig. 2.

FIG. 2

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

FM RF ALIGNMENT—SELECTOR IN FM POSITION

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

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
88MHz Modulated	88MHz	AC probe of VTVM across speaker.	VC603	Adjust for maximum.
108MHz Modulated	108MHz	"	VC602, VC601	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

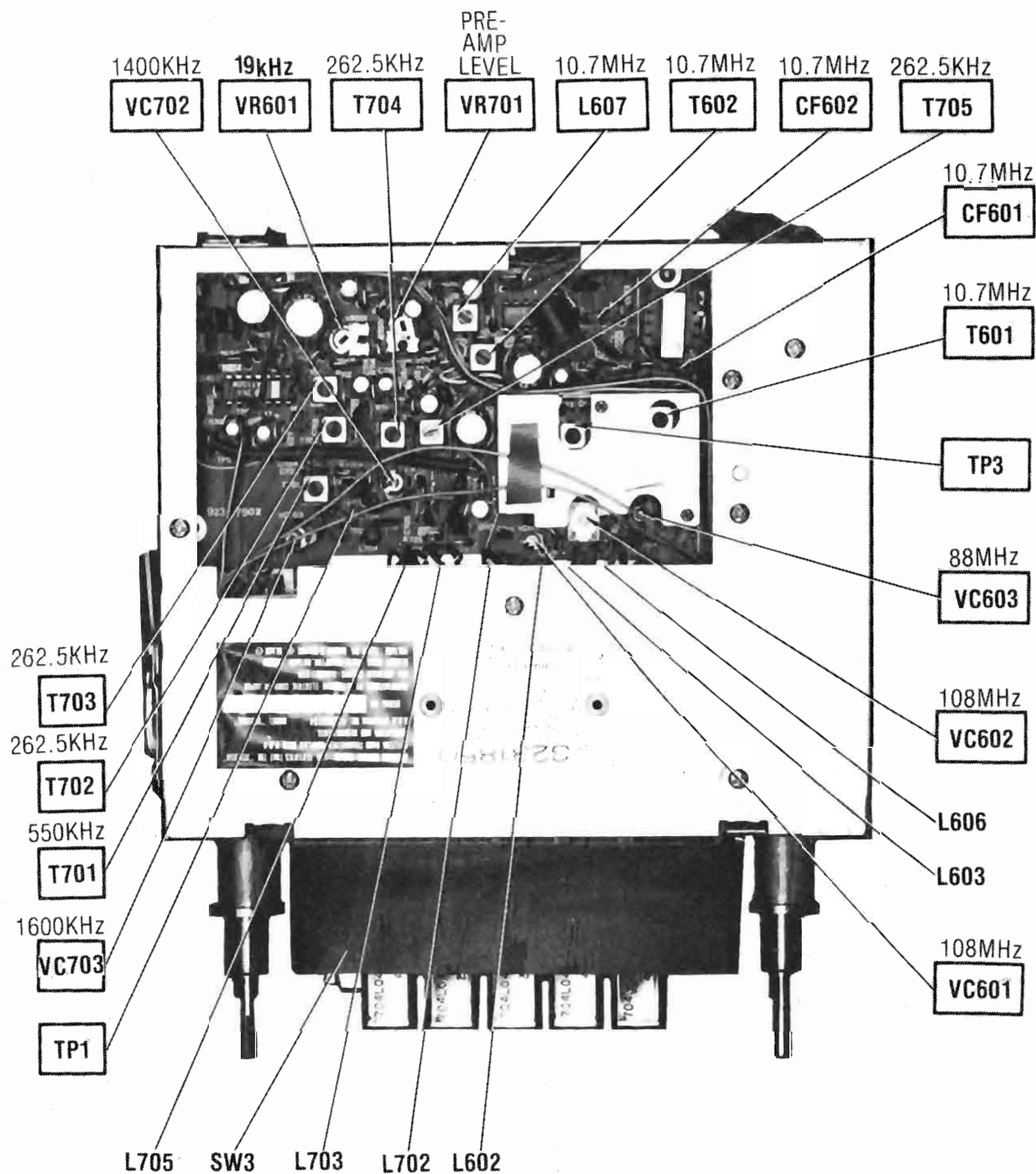
FM STEREO ALIGNMENT USING AUDIO GENERATOR

Connect a jumper from TP4 to ground.

GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
No signal input.	Input of frequency counter to TP6 (IC602 Pin 10).	VR601	Adjust for 19kHz $\pm$ 20Hz.

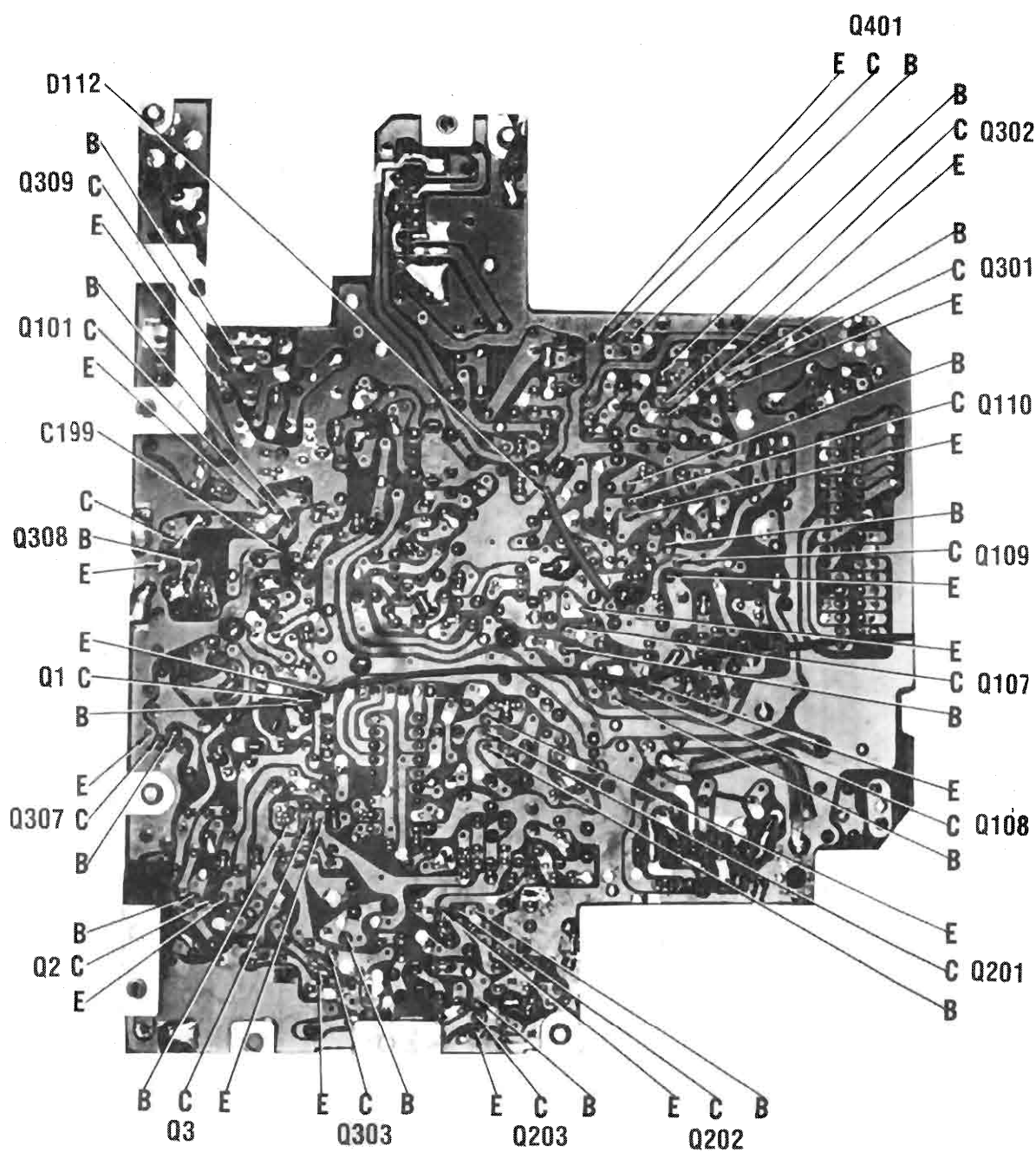
ADJUSTMENT

Tune to signal.	Input of AC VTVM or AF wattmeter across speaker.	VR701	Set volume to maximum. Adjust for equal audio output from CB and AM/FM detectors.
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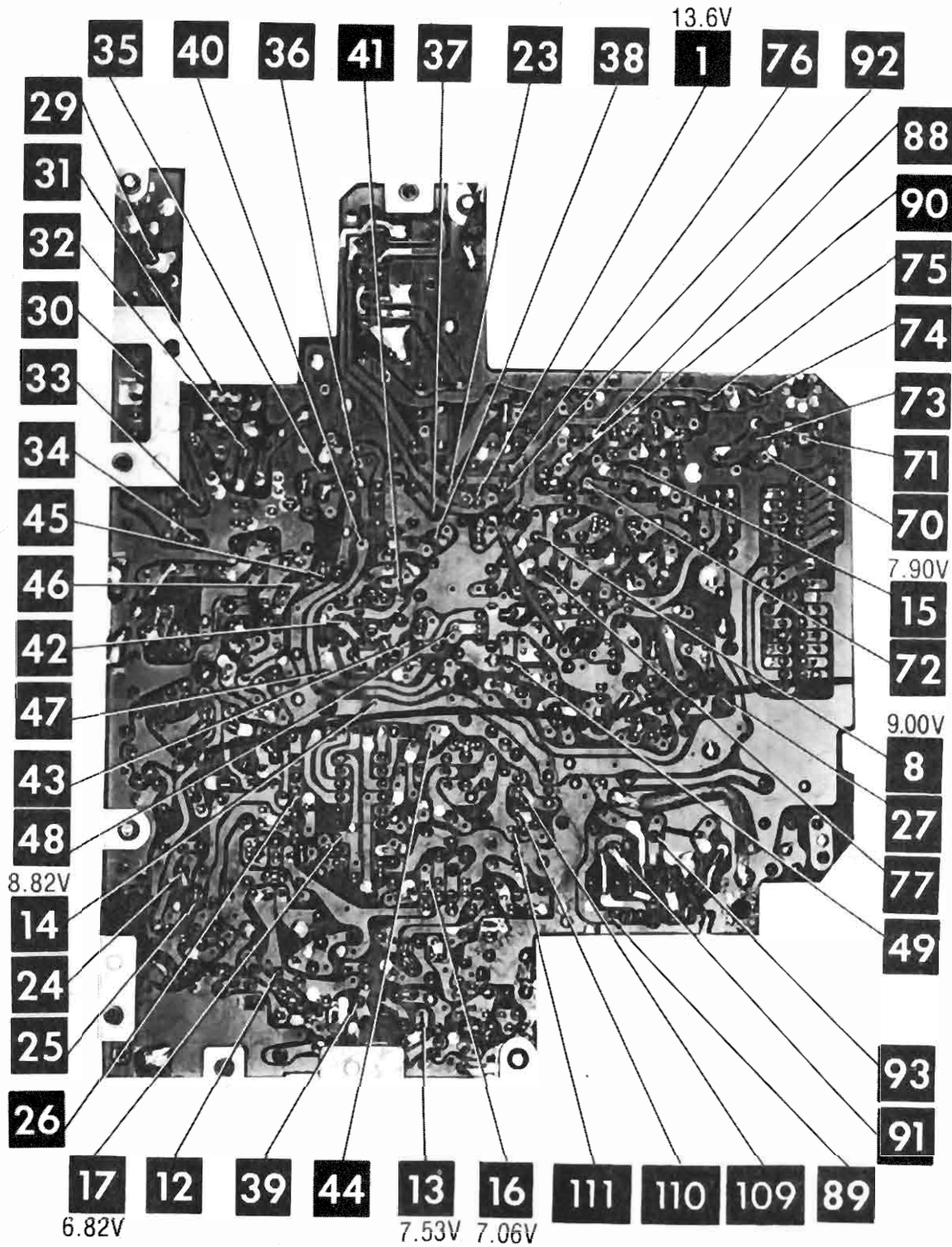


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CHASSIS-BOTTOM

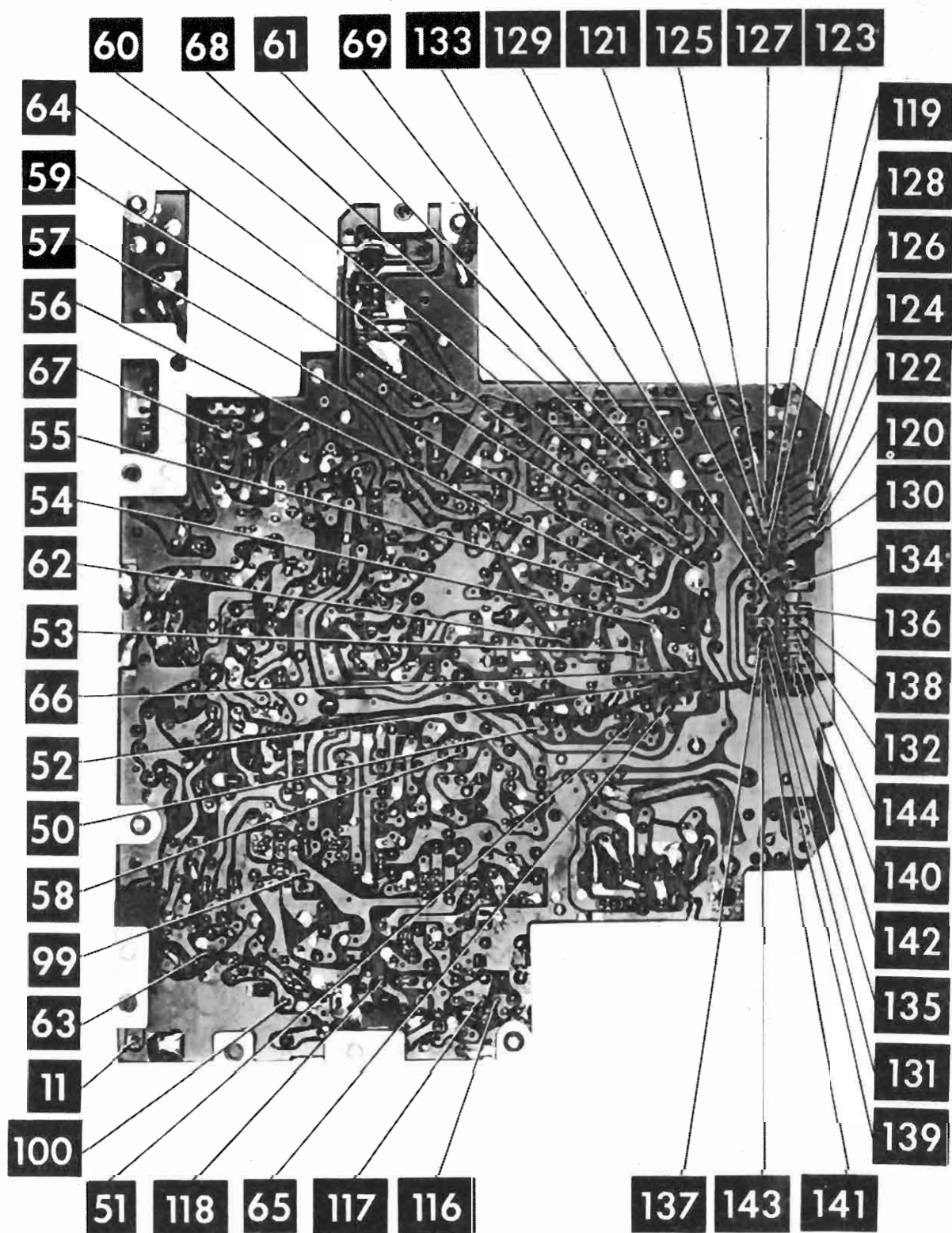


CB MAIN BOARD



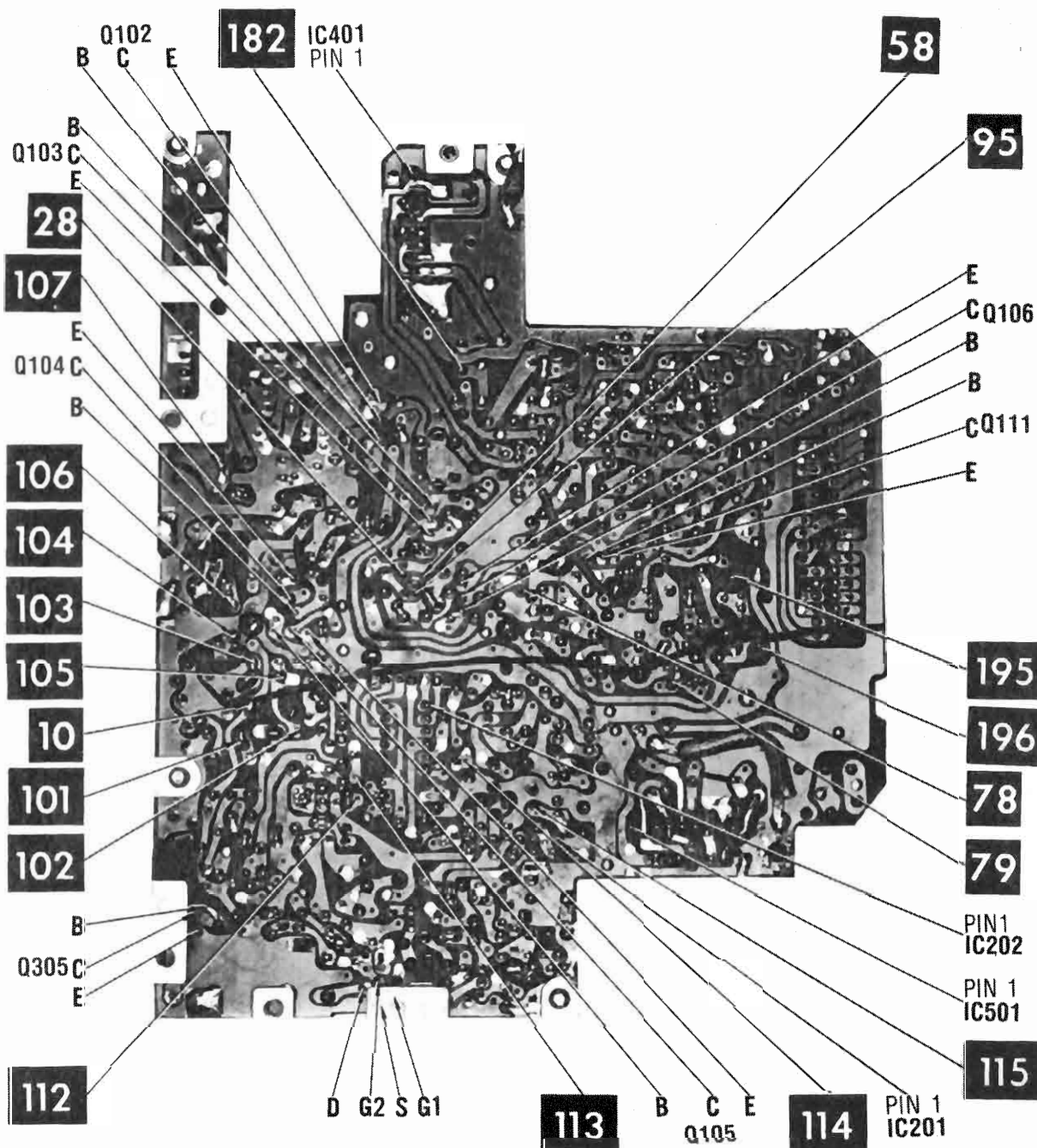
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CB MAIN BOARD

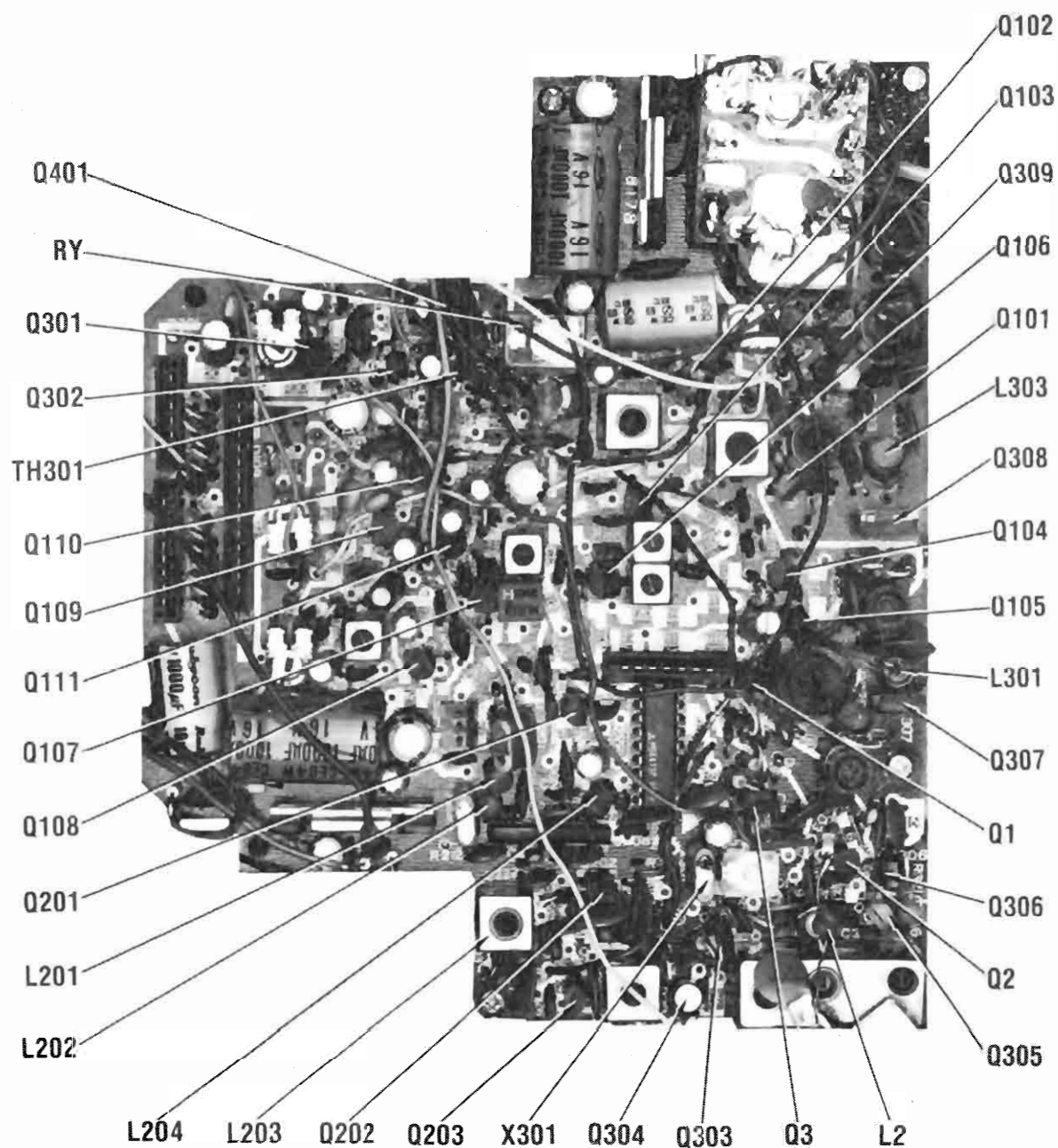


CB MAIN BOARD

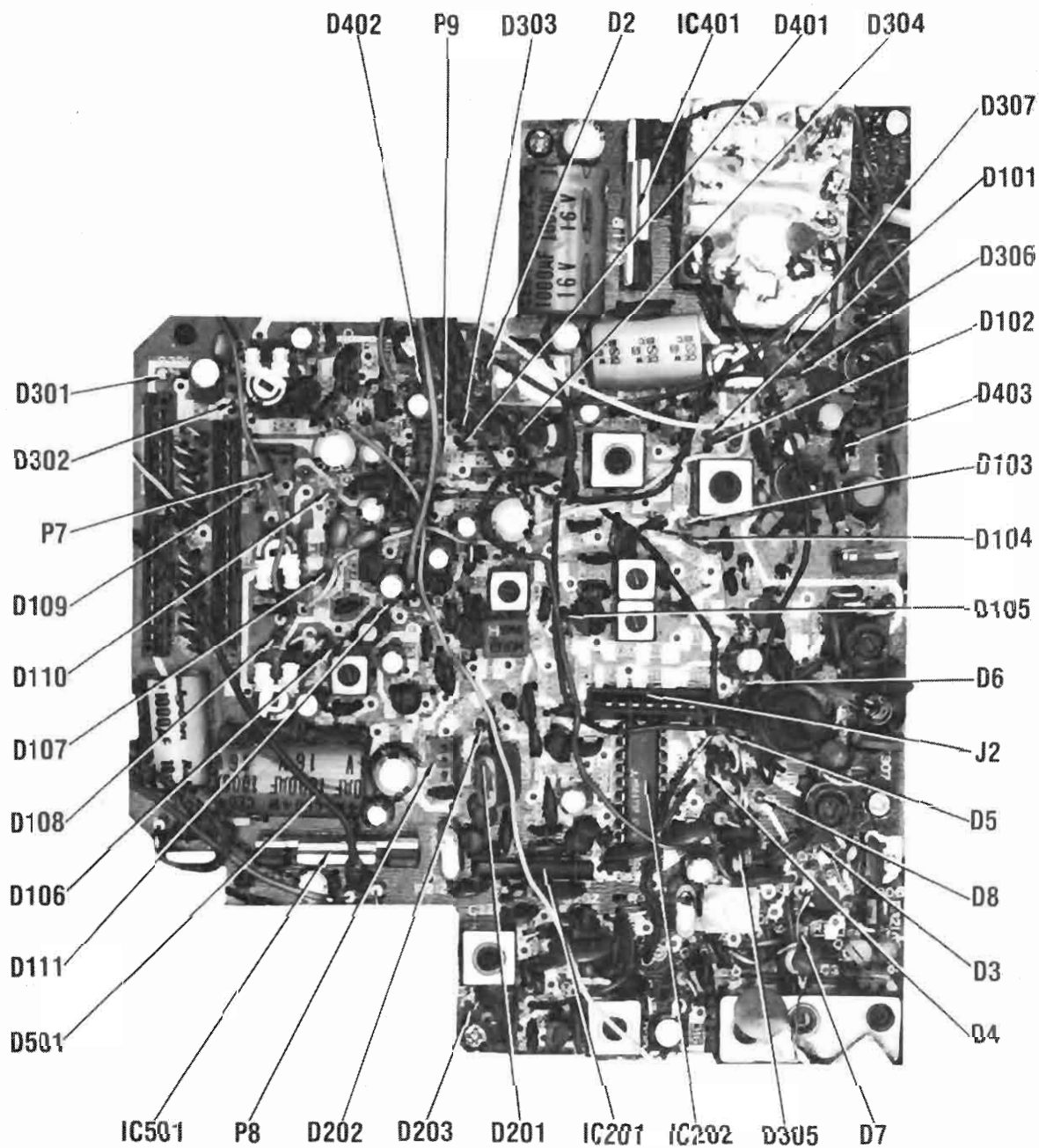
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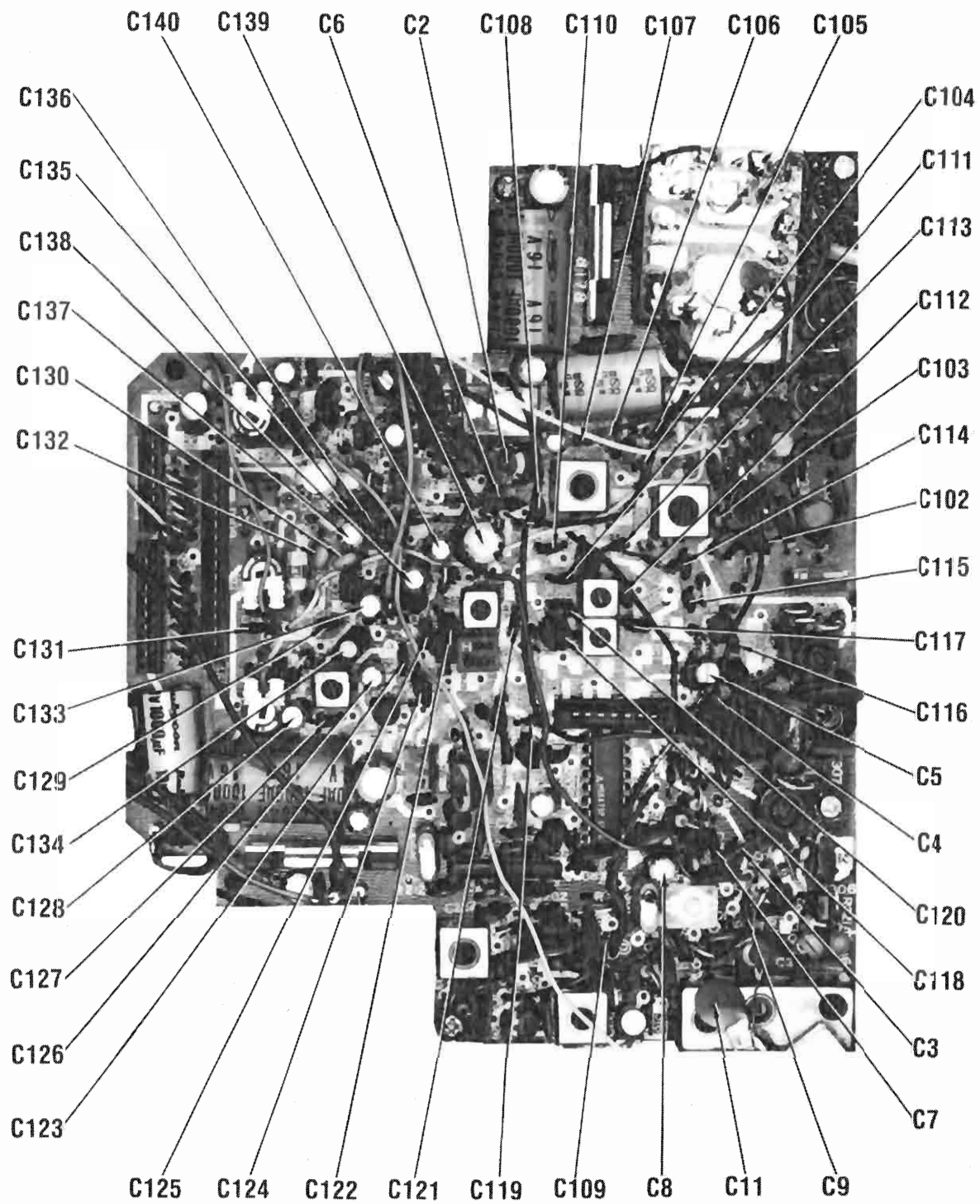
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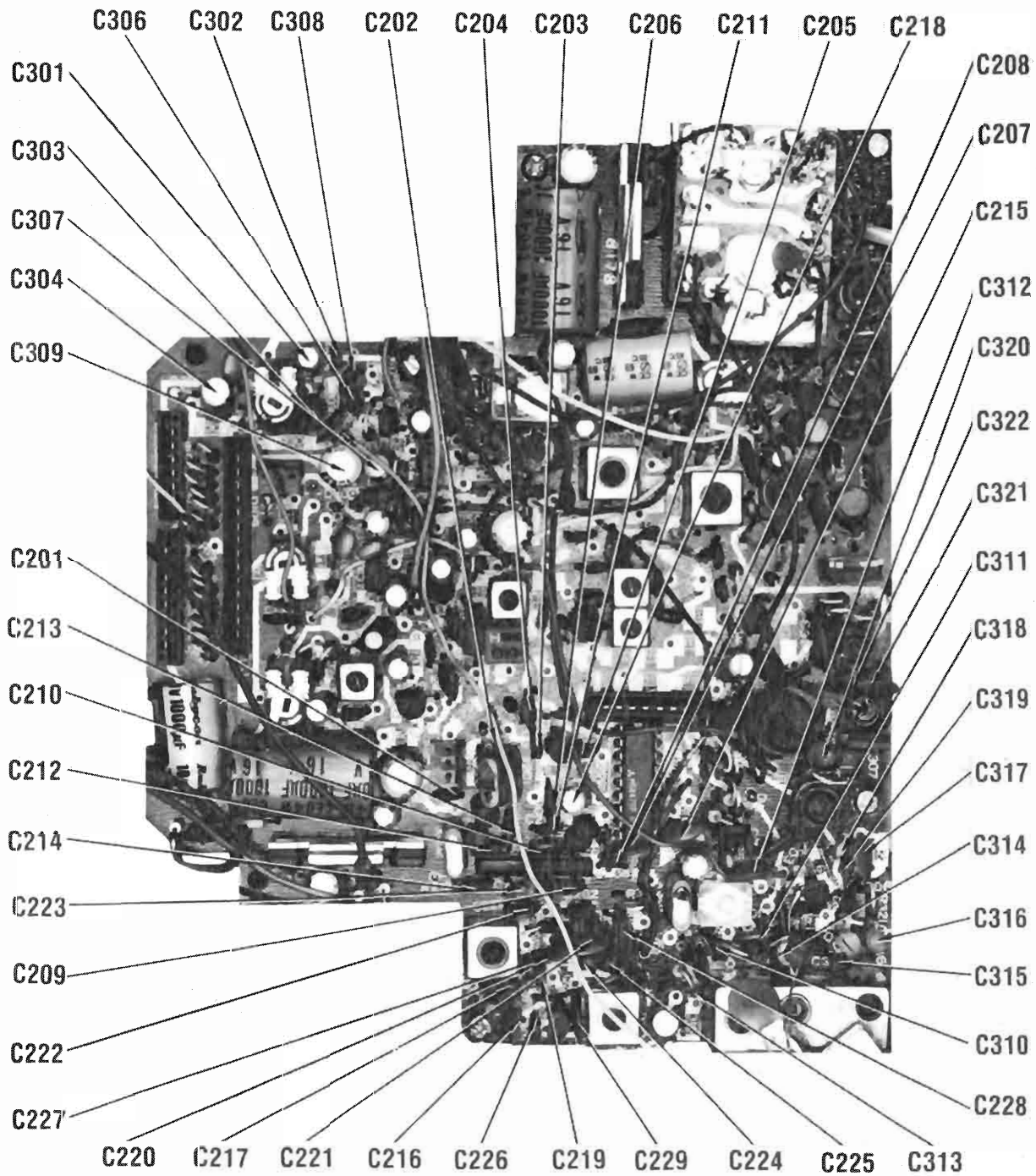
CB MAIN BOARD



CB MAIN BOARD

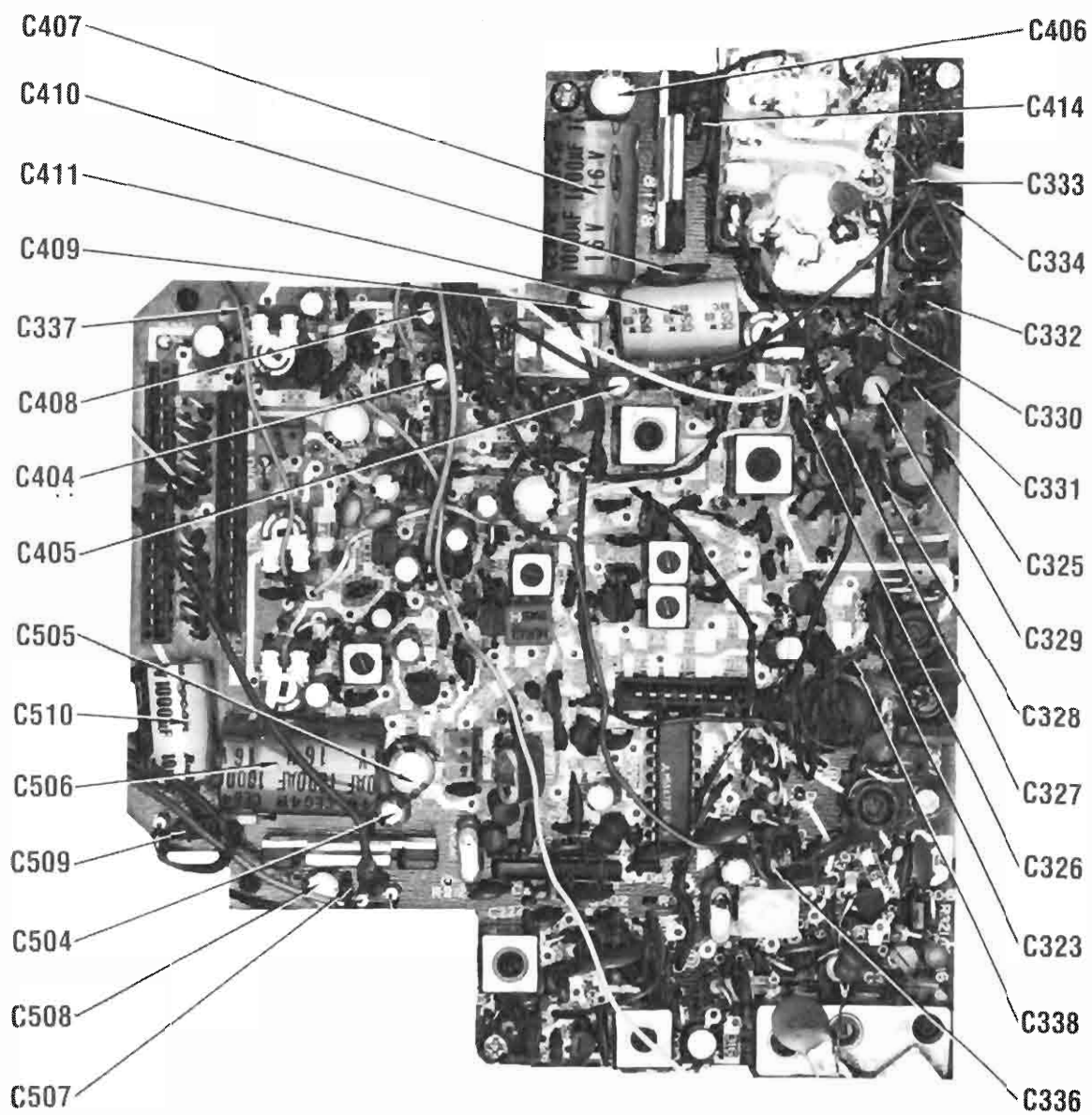


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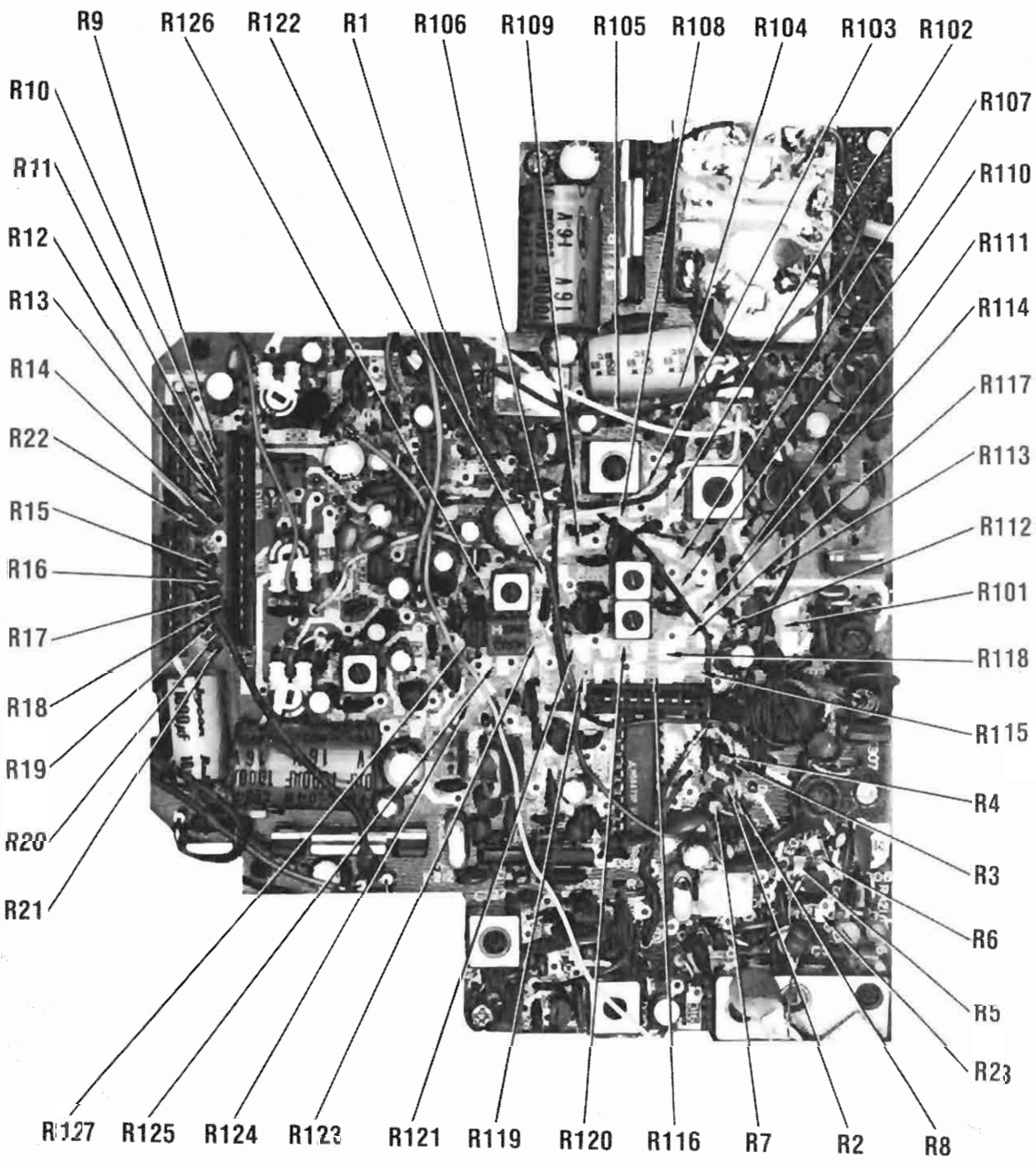


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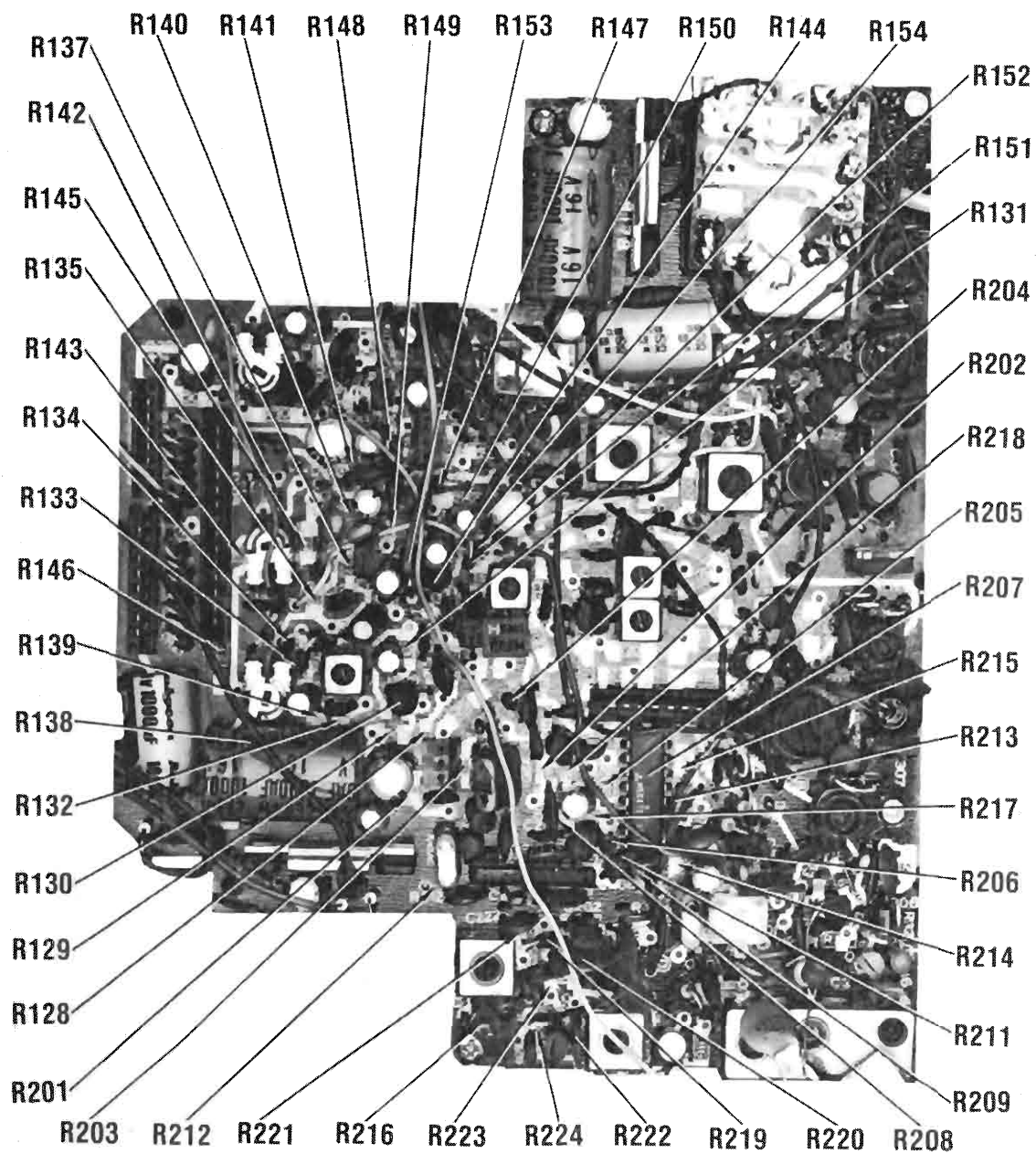


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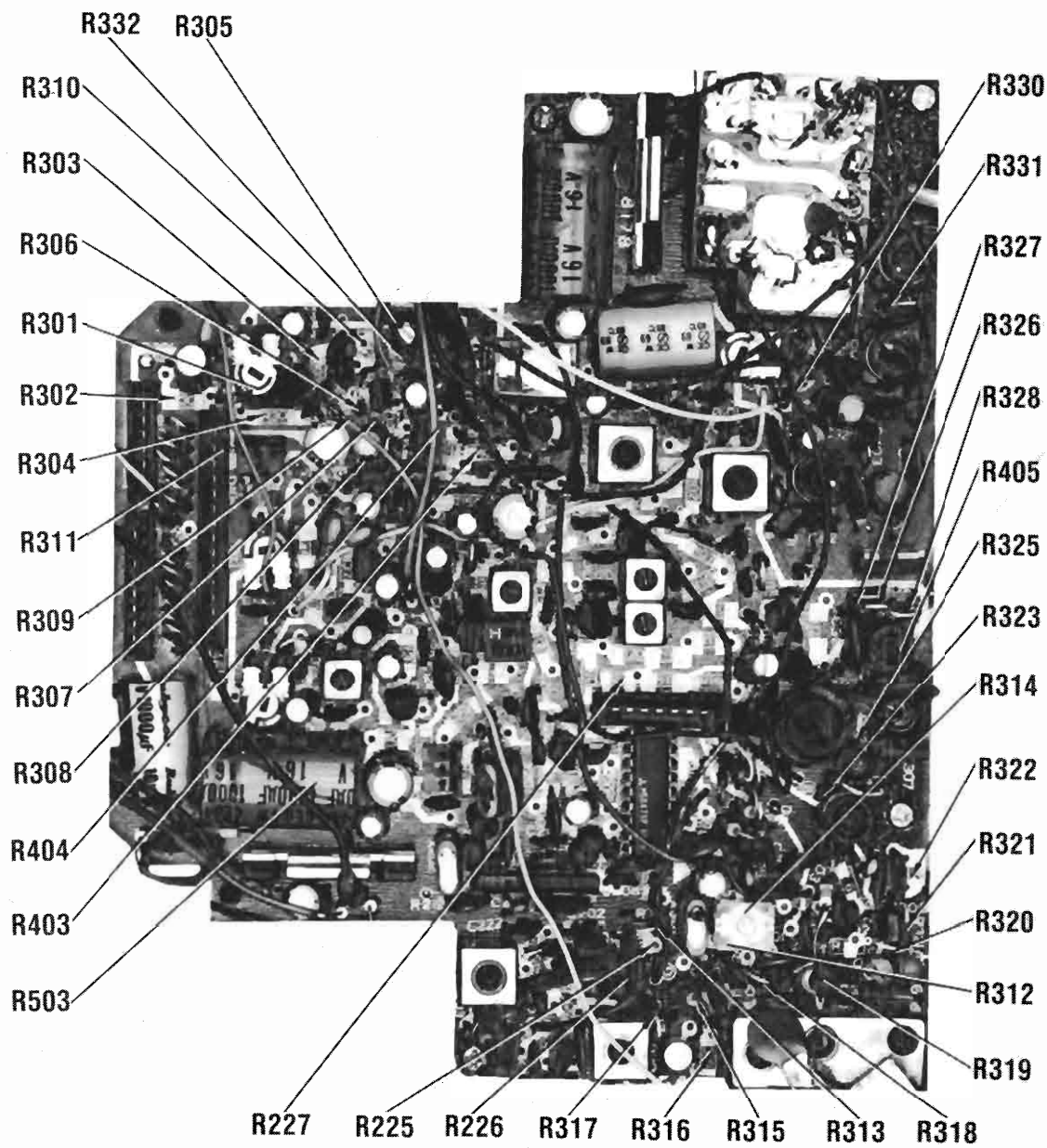


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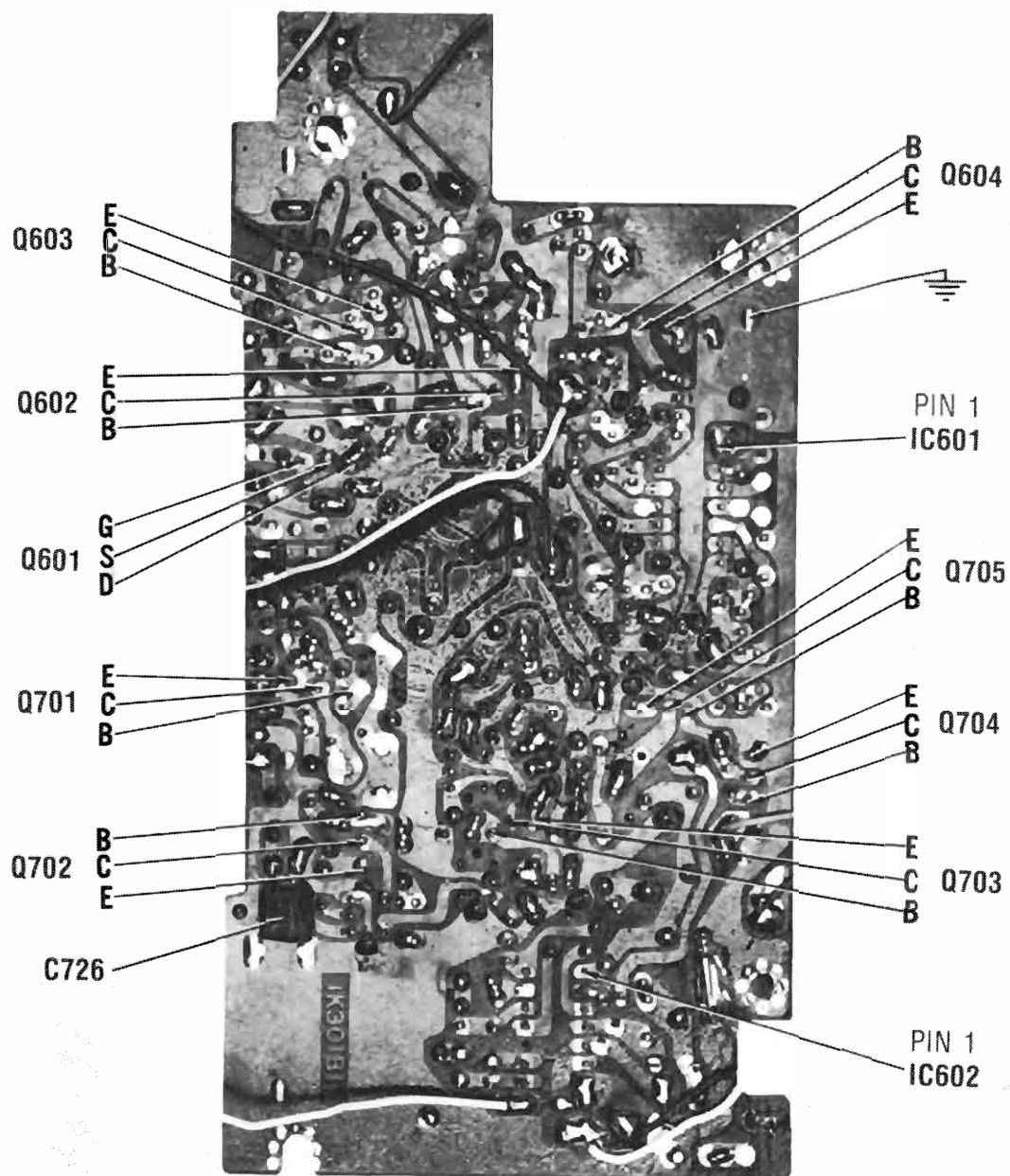


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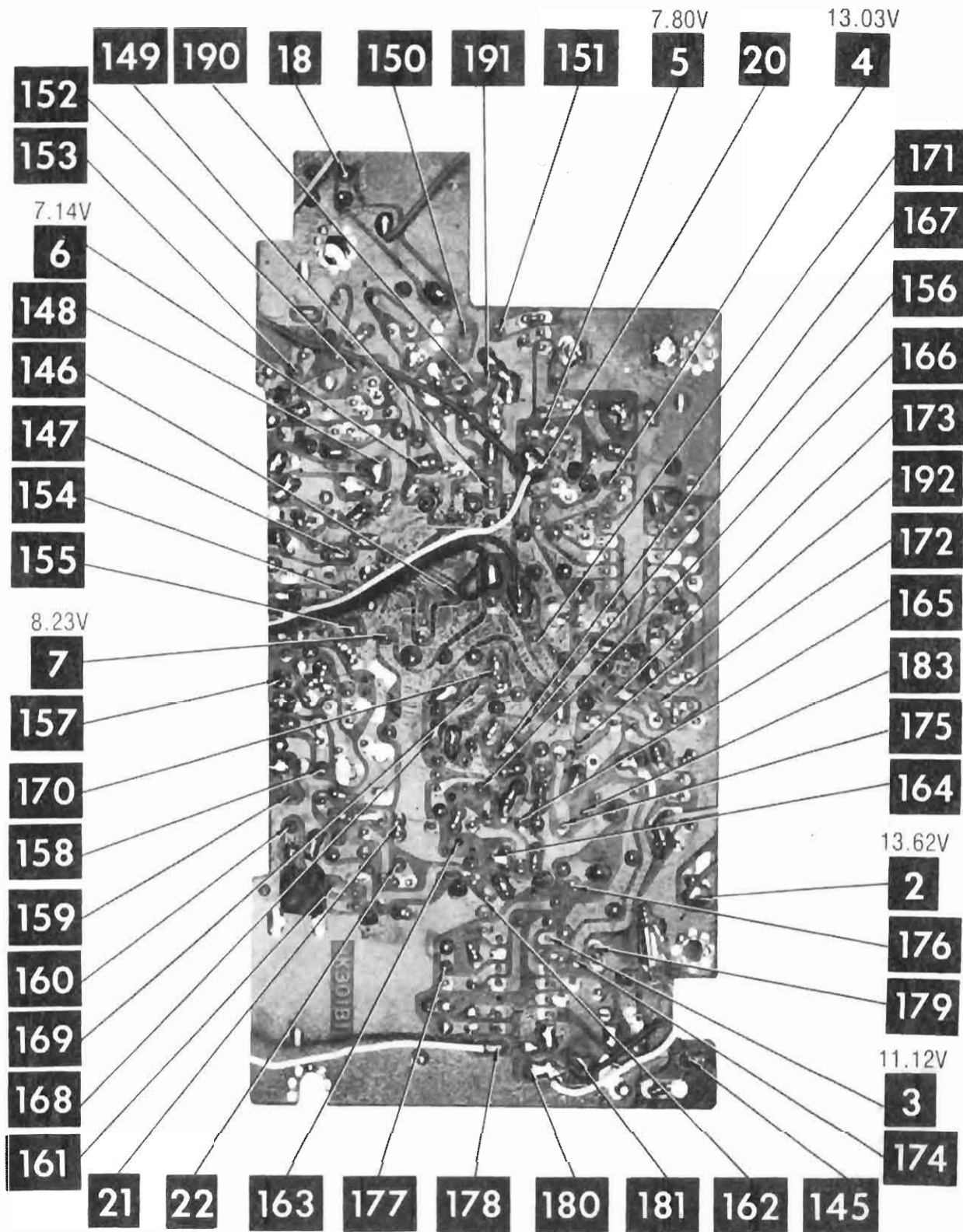


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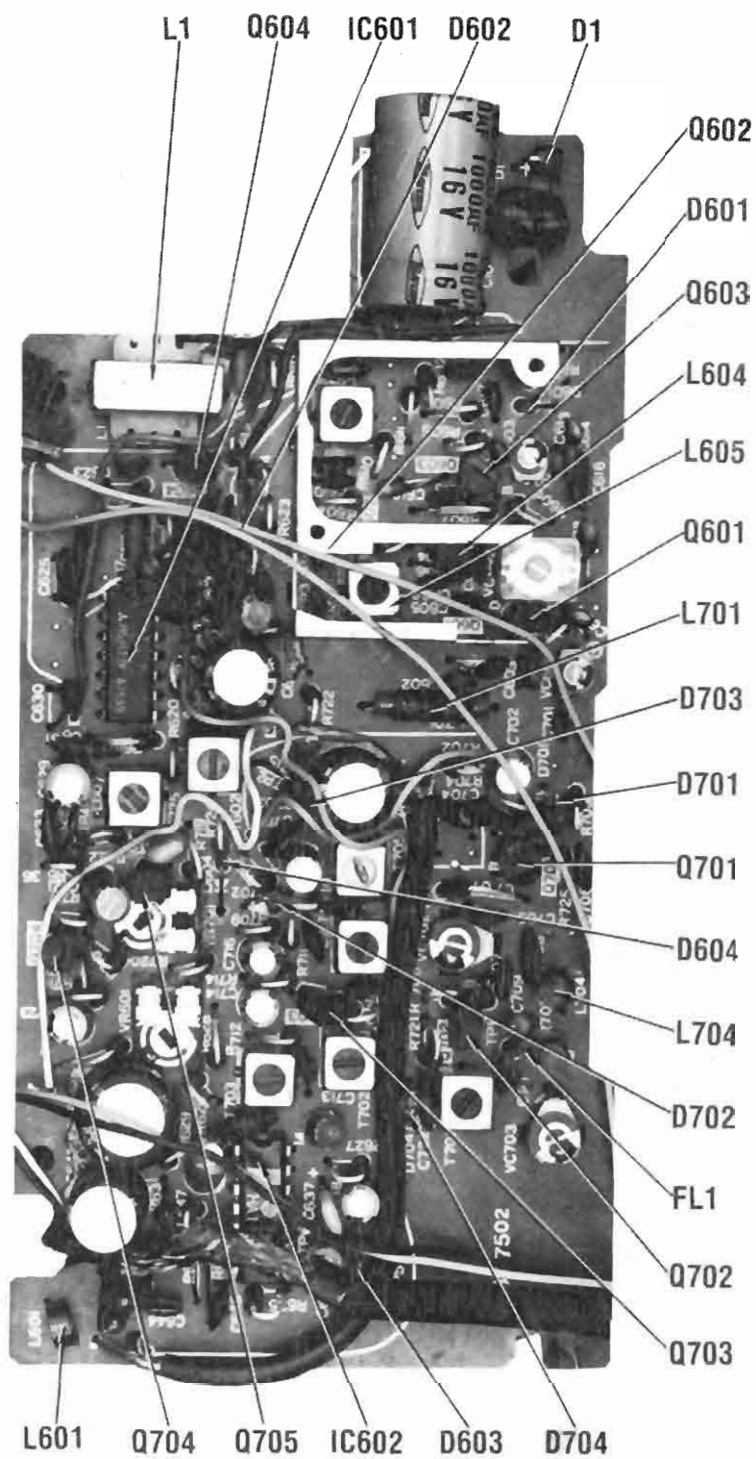


AM-FM MAIN BOARD

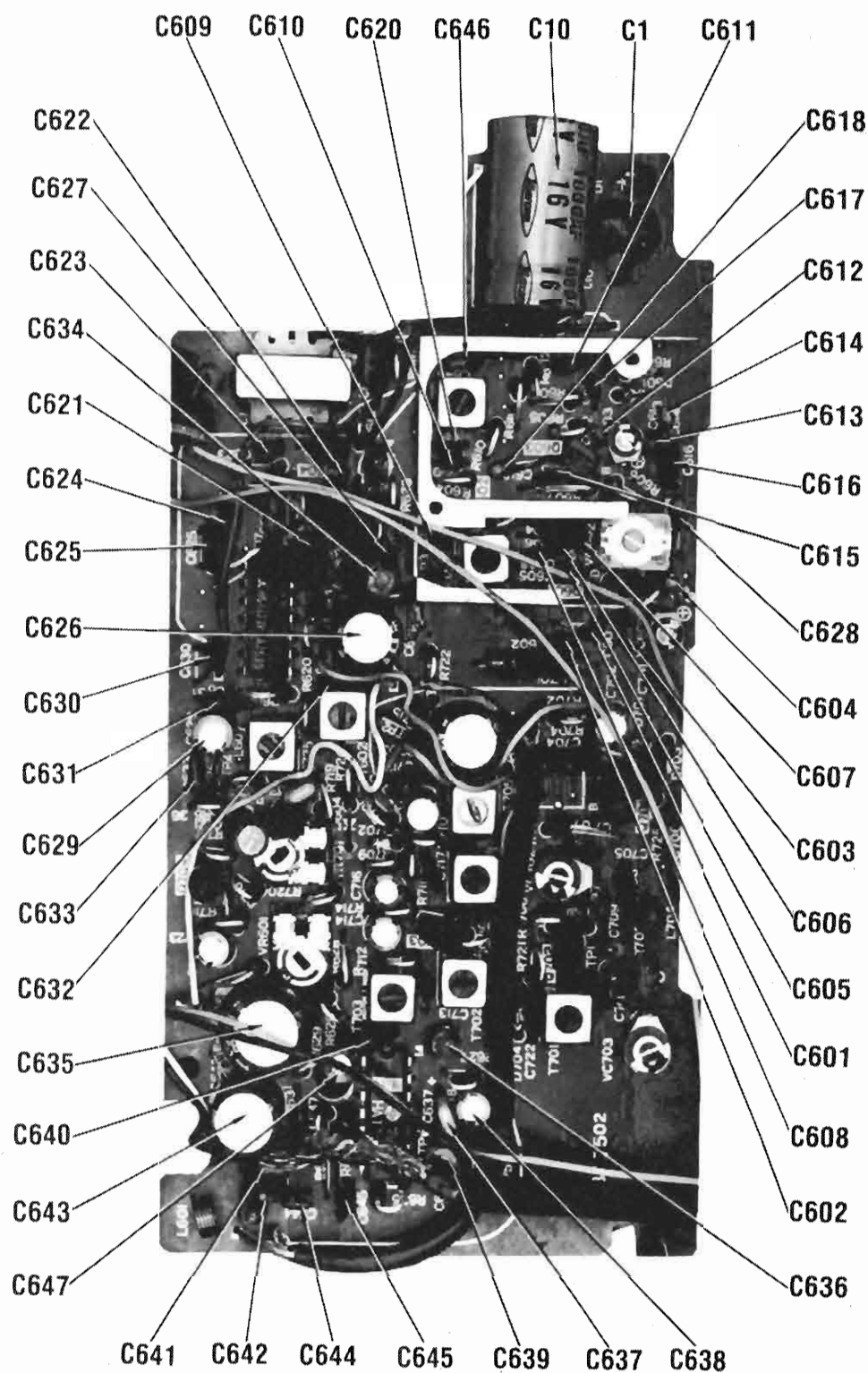


AMERICAN MOTORS MODELS 3231847/48/49/50

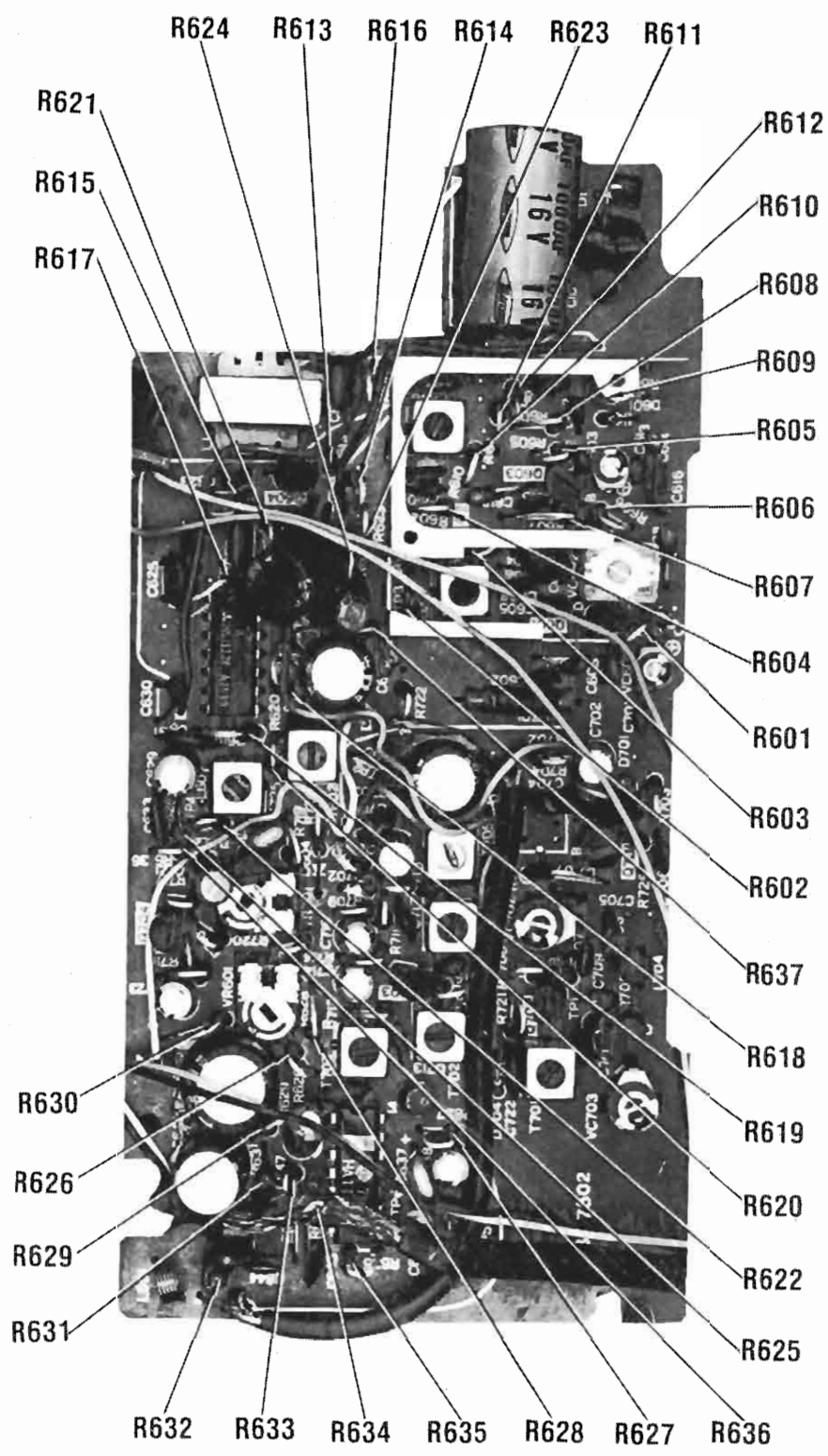
AM-FM MAIN BOARD



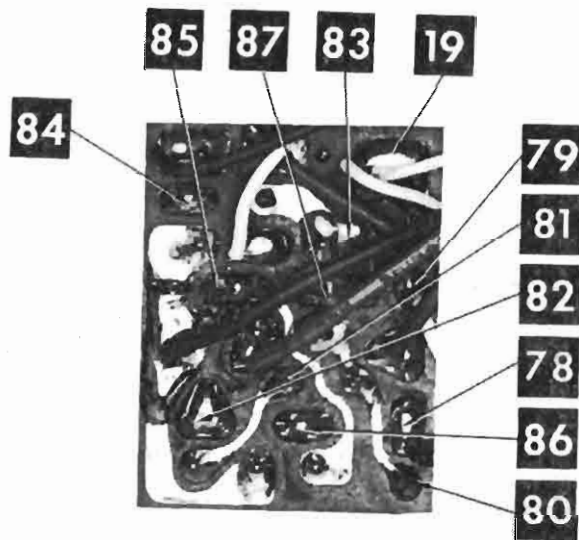
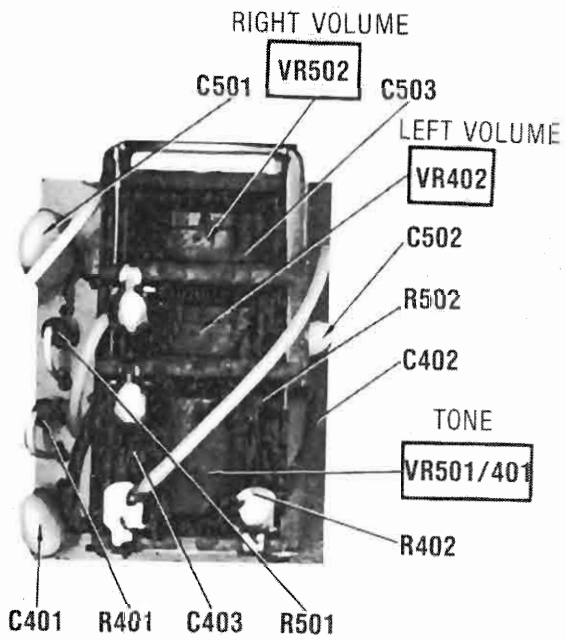
AM-FM MAIN BOARD



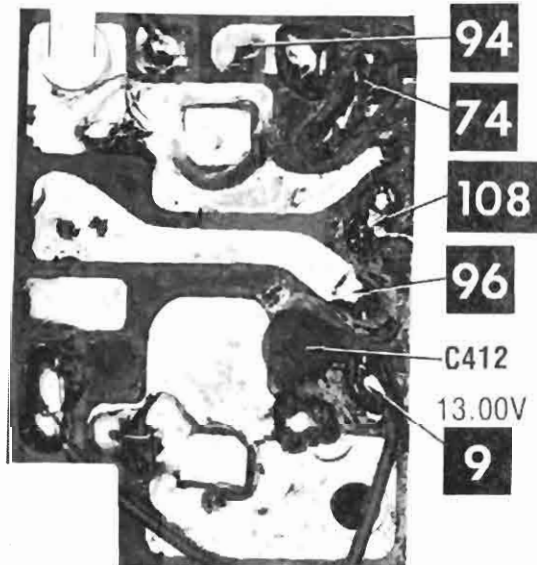
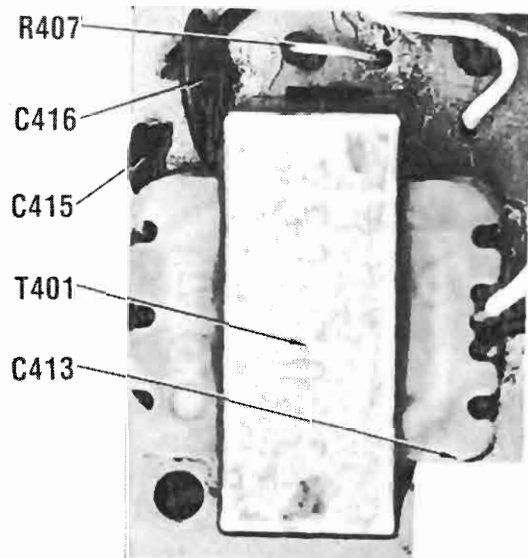
AM-FM MAIN BOARD



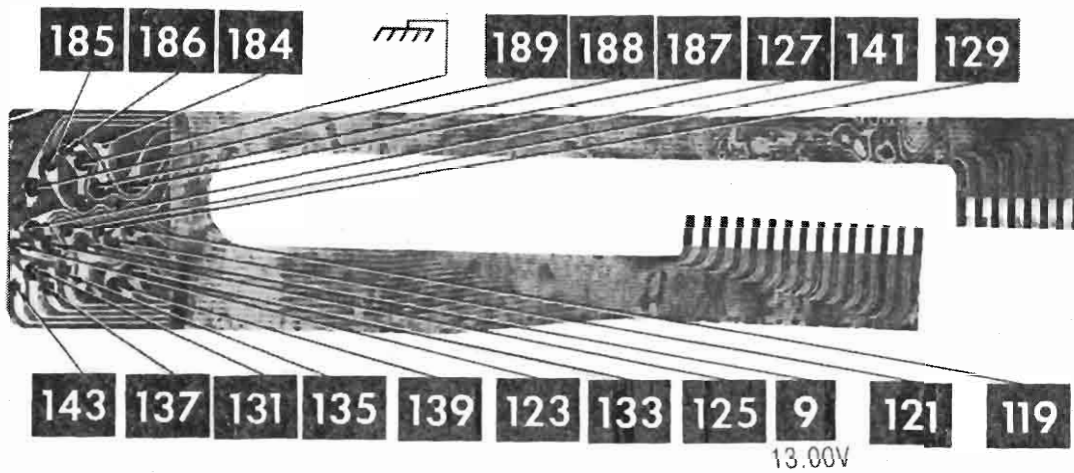
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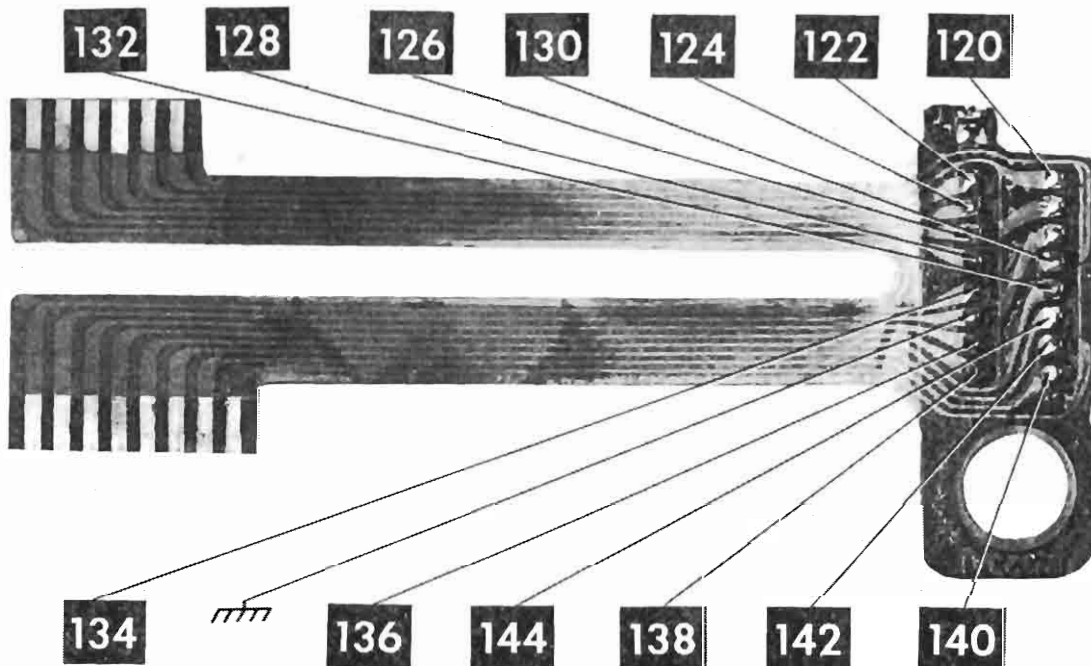
CONTROL BOARD



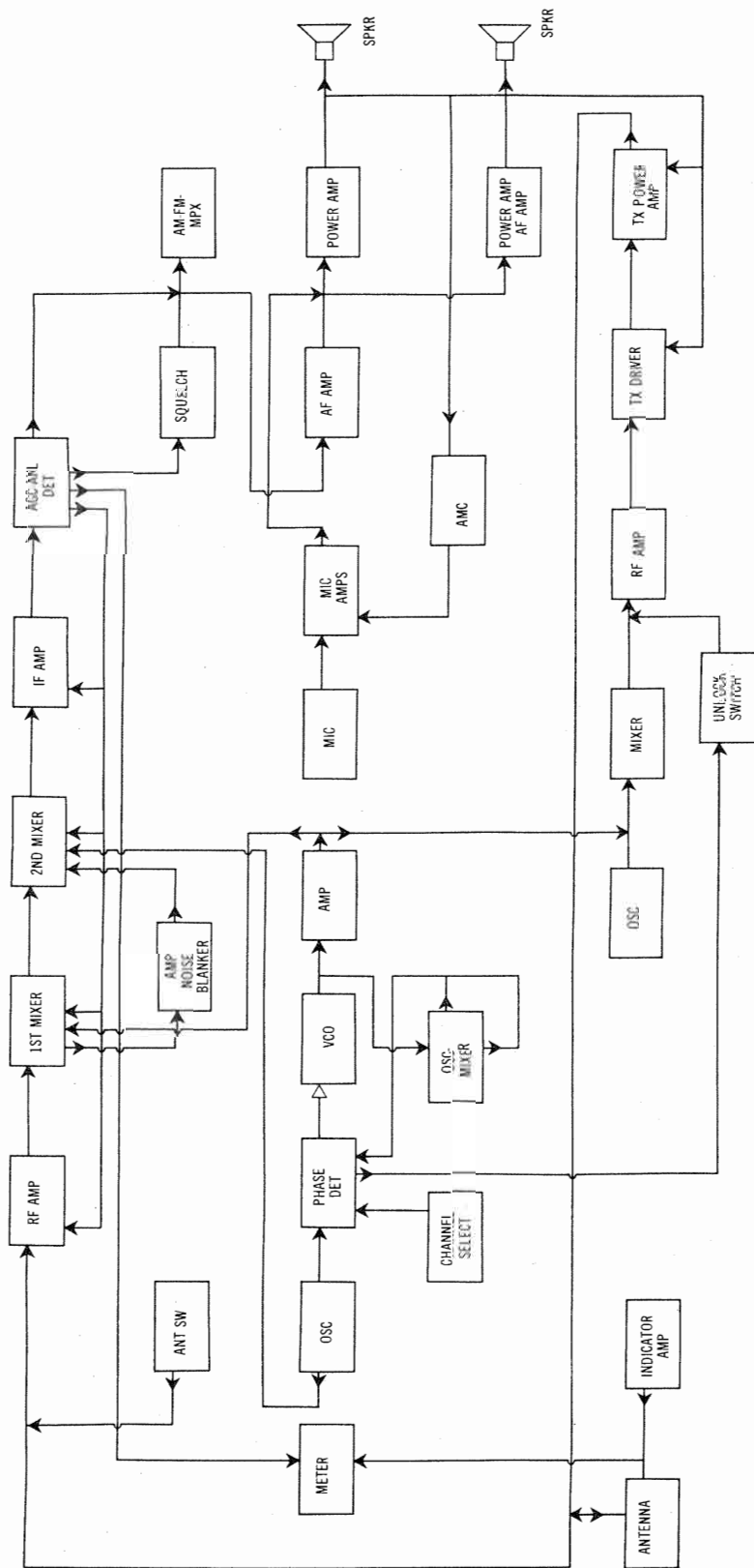
MODULATION BOARD



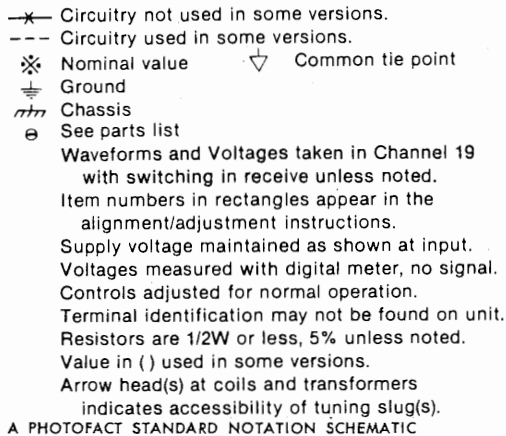
CH. SELECTOR BOARD

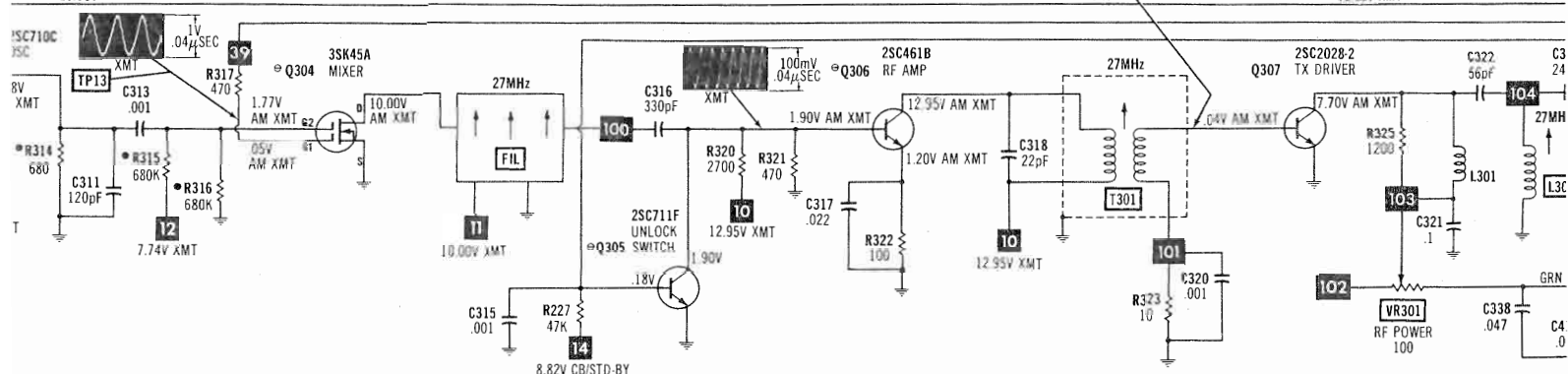
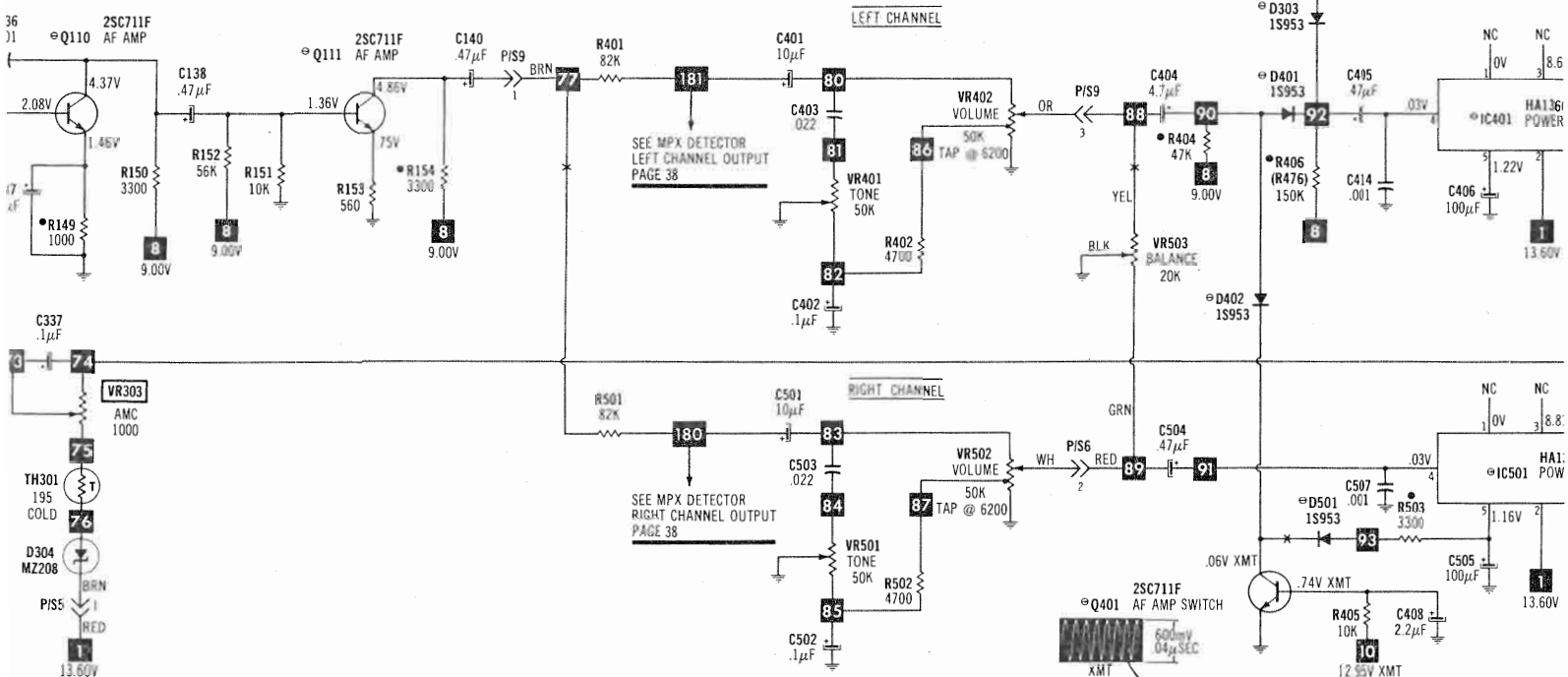
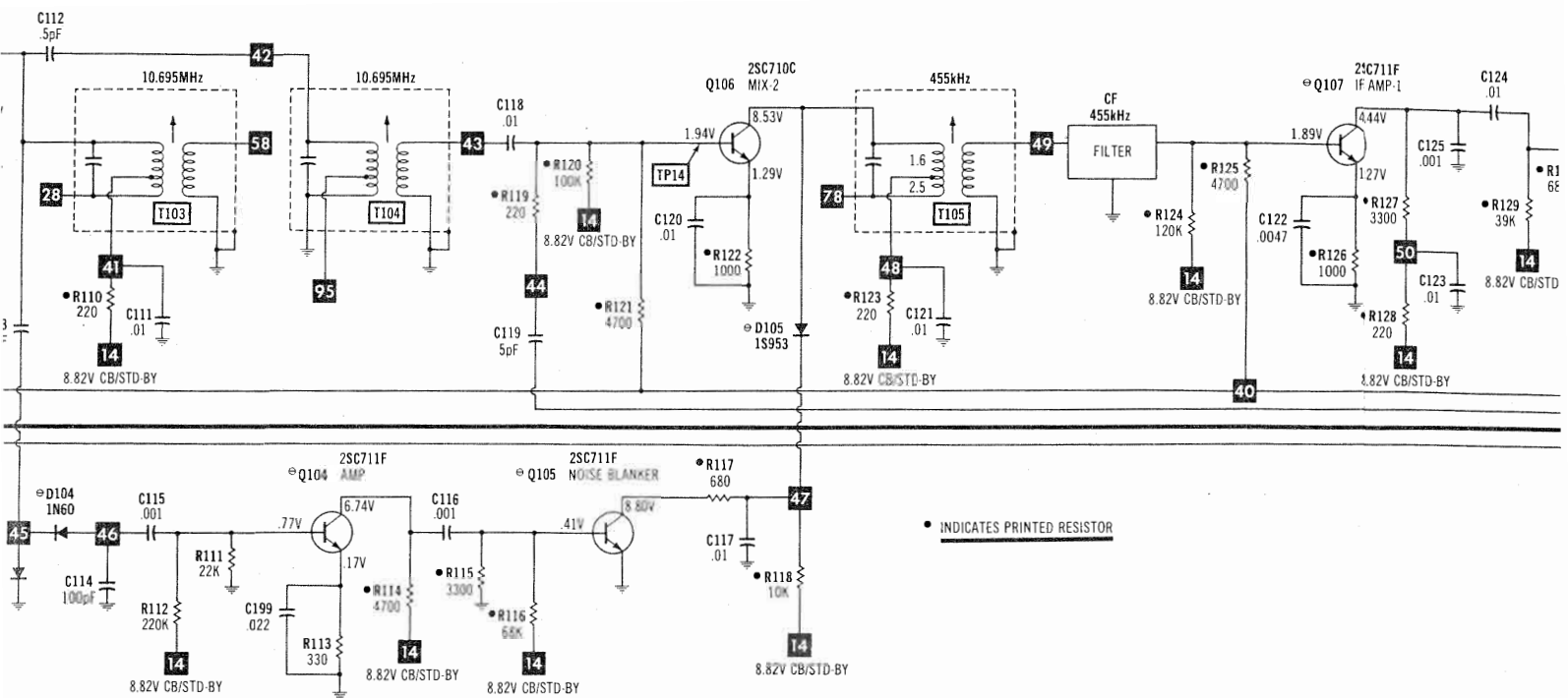


LED BOARD

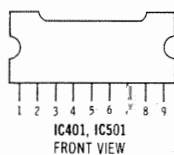
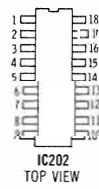
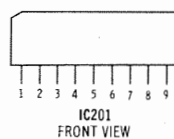
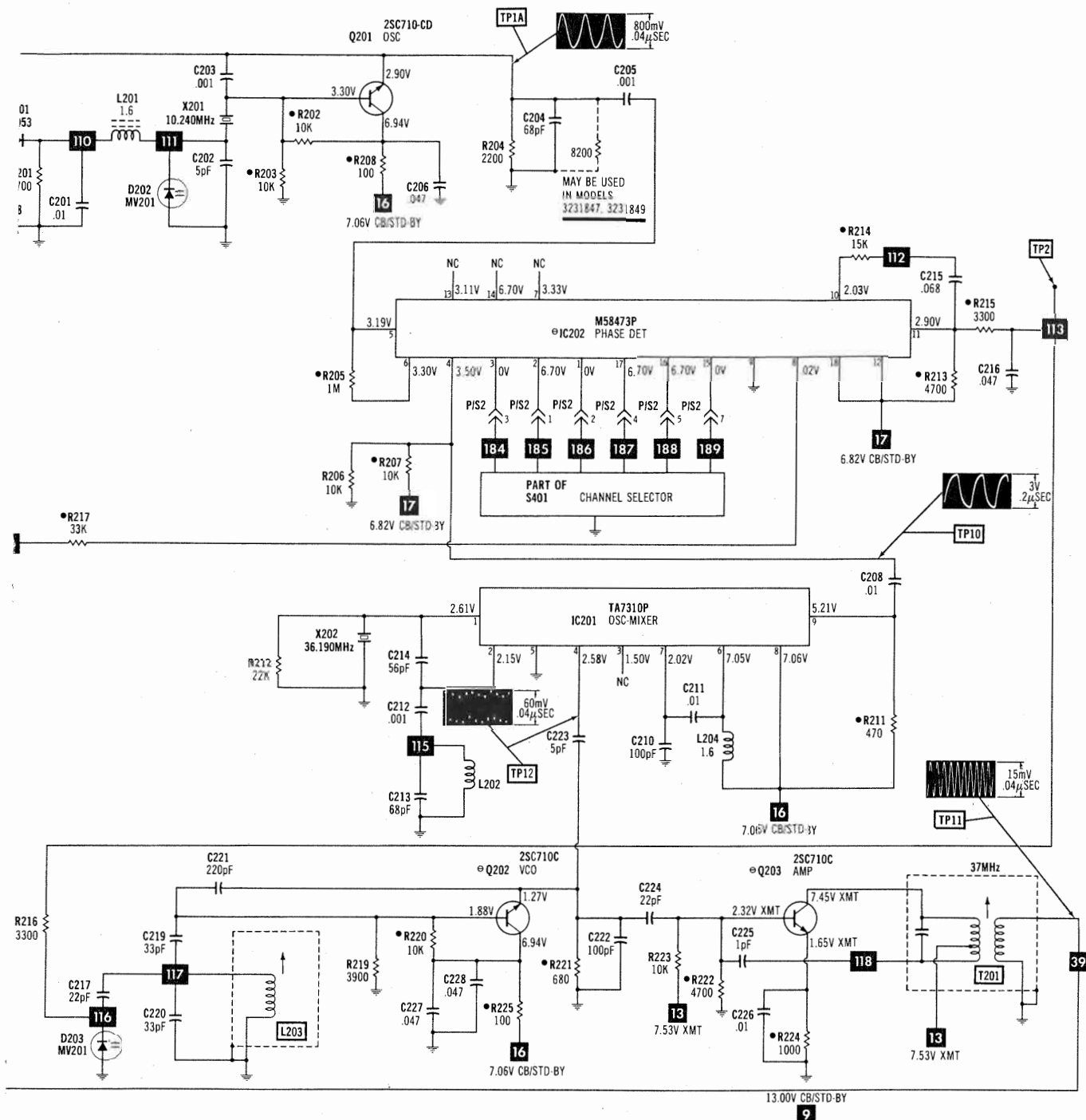


BLOCK DIAGRAM

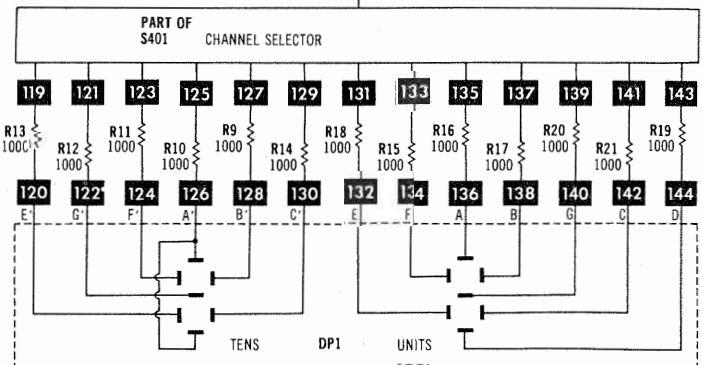


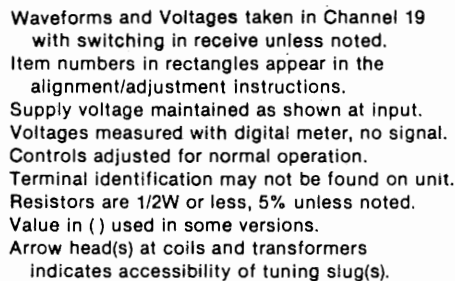




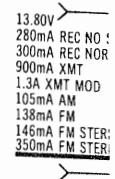


EACH SEGMENT OF DP1 SUPPLIED 1.60V @ 11.0mA





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PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D1	RA1Z	264P10102	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D2	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D3	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D4	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D5	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D6	MZ209	264P02503	ZM9.1A	PTC214	REN 177	SK3784/5018	ECG5018	TM5018	WEP1419	103-279-18
D7	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D8	MZ208	264P02502	ZM8.2A	PTC214	REN 177	SK3782/5016	ECG5016	TM5016	WEP1417	103-279-18
D101	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2474	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D102	1N60	264P01306	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
	1N60P	264P01306	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D103	1N60	264P01306	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
	1N60P	264P01306	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D104	1N60	264P01306	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
	1N60P	264P01306	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D105	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2474	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D106	1N60	264P01306	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
	1N60P	264P01306	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D107	1N60	264P01306	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
	1N60P	264P01306	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D108	1N60	264P01306	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
	1N60P	264P01306	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D109	MV-1	265P03301	GE-300	PTC301	REN 601	SK3463/601	ECG601	TM601	WEP1062	103-131
D110	1S953	269M01201	GE-514	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP925	103-287
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D111	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S953	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D201	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D202	MV201	264P05502	PTC301	REN 601	SK3463/601	ECG601	TM601	WEP1062	103-131	
D203	MV201	264P05502	PTC301	REN 601	SK3463/601	ECG601	TM601	WEP1062	103-131	
D301	MV1	265P03301	PTC301	REN 601	SK3463/601	ECG601	TM601	WEP1062	103-131	
D302	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D303	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D304	MZ208	264P02502	ZM8.2A	PTC214	REN 177	SK3782/5016	ECG5016	TM5016	WEP1417	103-279-18
D305	MZ209	264P02502	ZM9.1A	PTC214	REN 177	SK3784/5018	ECG5018	TM5018	WEP1419	103-279-18
D306	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D307	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D401	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D402	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287

PARTS

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

SEMICONDUCTORS

ITEM No.	TYPE No.
D403	RA1Z
D501	1S953
	1S2072
	1S2473
D601	MV201
D602	MZ208
D603	1S953
	1S2076
	1S2072
	1S2473
D603	1S953
	1S2076
	1S2072
	1S2473
D701	MV5W
D702	1N60
D703	1N60
	1N60
IC201	TA7310P
IC202	M58473P
	M58483P
IC401	HA1366W
	HA1366R
IC501	HA1366W
	HA1366R
IC601	M51172P
IC602	HA1156W
	HA1156R
Q1	2SC1210I
Q2	2SA696D
Q3	2SC1210I
Q101	2SC711A
Q102	2SC710C
Q103	2SC710D
	2SC710D
Q104	2SC711F
	2SC711F
Q105	2SC711F
	2SC711F
Q106	2SC710C
	2SC710D
Q107	2SC711F
	2SC711E
Q108	2SC711F
	2SC711E
Q109	2SC711F
	2SC711E
Q110	2SC711F
	2SC711E
Q111	2SC711F
	2SC711E
Q201	2SC710C
	2SC710D
Q202	2SC710C
	2SC710D
Q203	2SC710C
	2SC710D
Q301	2SA695E
	2SA695E
Q302	2SC711F
	2SC711E
Q303	2SC710C
	2SC710D
Q304	3SK45A
	3SK45A
	3SK40
	3SK40
Q305	2SC711F
	2SC711E
Q306	2SC461B
	2SC461C
Q307	2SC2028-
Q308	2SC2029-
Q309	2SC711E
	2SC711F
Q401	2SC711E
	2SC711F
Q601	2SK61-0
Q602	2SC763C
Q603	2SC763C
Q604	2SC7

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D403	RA1Z		GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D501	1S953	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D601	MV201	264P05502		PTC301	REN 601	SK3463/601	ECG601	TM601		
D602	MZ208	264P02502		ZM8, 2A		SK3782/5016	ECG5016	TM5016	WEP1417	
D603	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D603	1S953	269M01201	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062	103-131
	1S2076	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2072	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
	1S2473	269M01201	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925	103-287
D701	MV5W			PTC302			ECG605	TM605		
D702	1N60		1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
	1N60P	264P01306	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
D703	1N60		1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
	1N60	264P01306	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134	103-29001
IC201	TA7310P	266P32501			REN 1192	SK3445/1192	ECG1192	TM1192	WEP2120	
IC202	M58473P									
	M58483P	266P82803								
IC401	HA1366R						ECG1261	TM1261		
	HA1366R	266P32402					ECG1261	TM1261		
IC501	HA1366R						ECG1261	TM1261		
	HA1366R	266P32402					ECG1261	TM1261		
IC601	MS1172P	266P32601								
IC602	HA1155W		GEIC-35	PTC735	REN 801	SK3160/801	ECG801	TM801	WEP2075	221-29027
	HA1155	266P71001	GEIC-35	PTC735	REN 801	SK3160/801	ECG801	TM801	WEP2075	221-29027
Q1	2SC1210D	260P28003	GE-222	PTC136	REN 287	SK3842	ECG287	TM287	WEP68	121-29045
Q2	2SA696D	260P26003	GE-269	PTC103*	REN 290	SK3114/290	ECG290	TM290/**	WEP911	121-1019
Q3	2SC1210D	260P28003	GE-222	PTC136	REN 287	SK3842	ECG287	TM287	WEP68	121-29045
Q101	2SC711A	260P17705	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
Q102	2SC710C	260P17102	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
	2SC710D	260P17102	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
Q103	2SC710C	260P17102	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
	2SC710D	260P17102	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
Q104	2SC711F	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
	2SC711E	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
Q105	2SC711F	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
	2SC711E	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
Q106	2SC710C	260P17102	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
	2SC710D	260P17102	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
Q107	2SC711F	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
	2SC711E	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
Q108	2SC711F	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
	2SC711E	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
Q109	2SC711F	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
	2SC711E	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
Q110	2SC711F	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
	2SC711E	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
Q111	2SC711F	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
	2SC711E	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
Q201	2SC710C	260P17102	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
	2SC710D	260P17102	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
Q202	2SC710C	260P17102	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
	2SC710D	260P17102	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
Q203	2SC710C	260P17102	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
	2SC710D	260P17102	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
Q301	2SA695		GE-269	PTC103*	REN 290	SK3450/298	ECG290	TM290/**	WEP911	121-1019
	2SA695E	260P16805	GE-269	PTC103*	REN 290	SK3450/298	ECG290	TM290/**	WEP911	121-1019
Q302	2SC711F	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
	2SC711E	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
Q303	2SC710C	260P17102	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
	2SC710D	260P17102	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
Q304	3S K45A		GE-FET-4	PTC182*	REN 222	SK3065/222	ECG222	TM222	WEP905	121-826
	3S K45	260M00401	GE-FET-4	PTC182*	REN 222	SK3065/222	ECG222	TM222	WEP905	121-826
	3S K40	260M00401	GE-FET-4	PTC182*	REN 222	SK3065/222	ECG222	TM222	WEP905	121-826
	3S K59		GE-FET-4	PTC182*	REN 222	SK3065/221	ECG222	TM222	WEP905	121-826
Q305	2SC711F	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
	2SC711E	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
Q306	2SC461E	260P14501	GE-61*	PTC121*	REN 108*	SK3842	ECG108*	TM108*	WEP394	121-29000*
	2SC461C	260P14501	GE-61*	PTC121*	REN 108*	SK3122	ECG108*	TM108*	WEP394	121-29000*
Q307	2SC2028-2	260P36101	GE-270	PTC180	REN 235	SK3253/295	ECG295	TM295	WEP755*	121-880
Q308	2SC2029-3	260P36201	GE-333	PTC186	REN 235	SK3197/235	ECG235	TM235	WEP785	121-29039
Q309	2SC711F	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
	2SC711E	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
Q401	2SC711F	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
	2SC711E	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199/**	WEP372*	121-972
Q601	2SK61-C	260P23702	GE-FET-2	PTC161	REN 132*	SK3834/132	ECG312*	TM312*	WEP920	121-756
Q602	2SC763C	260P17603	GE-61*	PTC115	REN 229*	SK3122	ECG229*	TM229*	WEP56	121-29021
Q603	2SC763C	260P17603	GE-61*	PTC115	REN 229*	SK3122	ECG229*	TM229*	WEP56	121-29021
Q604	2SC710C	260P17103	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
	2SC710D	260P17103	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A
Q701	2SC710C	260P17103	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A/**	WEP710	121-29000A

AMERICAN MOTORS MODELS 3231847/48/49/50

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
Q702	2SC710D	260P17103	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A**	WEP710	121-29000A
	2SC711F	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199**	WEP372*	121-972
Q703	2SC711E	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199**	WEP372*	121-972
	2SC710C	260P17103	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A**	WEP710	121-29000A
Q704	2SC710D	260P17103	GE-211*	PTC132*	REN 123A*	SK3356	ECG123A*	TM123A**	WEP710	121-29000A
	2SC711F	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199**	WEP372*	121-972
Q705	2SC711E	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199**	WEP372*	121-972
	2SC711E	260P17501	GE-62*	PTC121	REN 199*	SK3245/199	ECG199*	TM199**	WEP372*	121-972

* 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	GENERAL LINE
C2	47 16V	181P06206	PC50-16	VTT47D16	QV1-73	EV-1226
C5	10 16V	181P06709	PC10-25	VTT10B25	QV1-41	EV-1222
C8	10 16V	181P06709	PC10-25	VTT10B25	QV1-41	EV-1222
C10	1000 16V	181L02505	PC1000-16	VTT1000L16	QV1-183	EV-1261
C126	10 16V	181P06709	PC10-25	VTT10B25	QV1-41	EV-1222
C128	10 16V	181P06709	PC10-25	VTT10B25	QV1-41	EV-1222
C130	.1 10V	181P04003		TDC104M050EL	QDT1-2	SD50-R109
C132	.1 10V	181P04003		TDC104M050EL	QDT1-2	SD50-R109
C133	10 16V	181P06709	PC10-25	VTT10B25	QV1-41	EV-1222
C134	2.2 16V	181P06200	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C137	3.3 16V		PC5-50	VTT3R3A50	QV1-25	EV-1618.1
C138	.47 50V	181P06600	PC1-50	VTT47A63	QV1-3	EV-1610
C139	47 16V	181P06206	PC50-16	VTT47D16	QV1-73	EV-1226
C140	.47 50V	181P06600	PC1-50	VTT47A63	QV1-3	EV-1610
C218	10 16V	181P06709	PC10-25	VTT10B25	QV1-41	EV-1222
C301	4.7 16V	181P06202	PC5-50	VTT47B50	QV1-31	EV-1619.1
C304	47 10V	181P06009	PC50-16	VTT47D16	QV1-73	EV-1226
C307	1 50V	181P06601	PC1-50	VTT1A50	QV1-11	EV-1615
C309	47 16V	181P06206	PC50-16	VTT47D16	QV1-73	EV-1226
C314	10 16V	181P06709	PC10-25	VTT10B25	QV1-41	EV-1222
C327	.47 50V	181P06600	PC1-50	VTT47A63	QV1-3	EV-1610
C329	10 16V	181P06709	PC10-25	VTT10B25	QV1-41	EV-1222
C337	.1 10V	181P04003		TDC104M050EL	QDT1-2	SD50-R109
C401	10 10V	181P06709	PC10-25	VTT10B25	QV1-41	EV-1222
C402	.1 10V	181P04003		TDC104M050EL	QDT1-2	SD50-R109
C404	4.7 16V	181P06202	PC5-50	VTT47B50	QV1-31	EV-1619.1
C405	.47 50V	181P06600	PC1-50	VTT47A63	QV1-3	EV-1610
C406	100 10V	181P06100	PC100-10	VTT100E10	QV1-93	EV-1131
C407	1000 16V	181L02505	PC1000-16	VTT1000L16	QV1-183	EV-1261
C408	2.2 16V	181P06200	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C409	47 10V	181P06009	PC50-16	VTT47D16	QV1-73	EV-1226
C411	1000 10V	181L01105	PC1000-16	VTT1000L10	QV1-179	EV-1161
C501	10 10V	181P06709	PC10-25	VTT10B25	QV1-41	EV-1222
C502	.1 10V	181P04003		TDC104M050EL	QDT1-2	SD50-R109
C504	.47 50V	181P06600	PC1-50	VTT47A63	QV1-3	EV-1610
C505	100 10V	181P06100	PC100-10	VTT100E10	QV1-93	EV-1131
C506	1000 16V	181L02505	PC1000-16	VTT1000L16	QV1-183	EV-1261
C508	47 10V	181P06009	PC50-16	VTT47D16	QV1-73	EV-1226
C510	1000 10V	181L01105	PC1000-16	VTT1000L10	QV1-179	EV-1161
C621	220 16V	181L01206	PC250-25	VTT220H16	QV1-117	EV-1240
C626	220 16V	181L01206	PC250-25	VTT220H16	QV1-117	EV-1240
C629	33 6.3V	181P06002	PC30-25	VTT33B10	QV1-21	EV-1617.1
C634	2.2 16V	181P06200	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C635	330 16V	181L01204	WBR300-35*	VTT330H16	QV1-133	EV-1245
C637	.22 16V			TDC224M050EL	QDT1-10	SD50-R229
C638	.022 10V	181P04001		TAS223K015POA		
C639	.47 50V	181P06600	PC1-50	VTT47A63	QV1-3	EV-1610
C643	2.2 16V	181P06200	PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C647	.47 50V	181L01206	PC250-25	VTT220H16	QV1-117	EV-1240
C702	10 16V	181P06709	PC1-50	VTT47A63	QV1-3	EV-1610
C710	10 16V	181LP06709	PC10-25	VTT10B25	QV1-41	EV-1222
C714	10 16V	181LP06709	PC10-25	VTT10B25	QV1-41	EV-1222
C716	.47 50V	181P06600	PC1-50	VTT47A63	QV1-3	EV-1610
C720	10 16V	181LP06709	PC10-25	VTT10B25	QV1-41	EV-1222
C721	4.7 16V	181P06202	PC5-50	VTT47B50	QV1-31	EV-1619.1
C723	10 16V	181LP06709	PC10-25	VTT10B25	QV1-41	EV-1222
C723	220 16V	181P01206	PC250-25	VTT220H16	QV1-117	EV-1240

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C1	.1 50V		WMF05P1	H192P1049R8	QFT2-215	1FT-P10
C3	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C4	.01 50V			MAG5011		
C6	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C7	.01 50V			MAG5011		
C9	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C11	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C102	15 50V 5%	154P14009	NP015	CND415		10TCC-Q15
C103	10 50V +.25			CND410		
C104	33 50V 5%		NP033	CND433		10TCC-Q33
C105	.01 50V			MAG5011		
C106	22 50V 5%		NP022	CND422		10TCC-Q22
C107	.01 50V			MAG5011		
C108	.01 50V			MAG5011		

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS(cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C109	10 50V $\pm$.25	154P14009		CN0410		
C110	.01 50V			MAG5011		
C111	.01 50V			MAG5011		
C112	.5 50V $\pm$.25	154D01009		CN0510		
C113	10 50V $\pm$.5	154P02102		*		10TCC-Q10
C114	100 50V 5%		NP0100	CN0310		10TCC-T10
C115	.001 50V			GP210		10TS-D10
C116	.001 50V			GP210		10TS-D10
C117	.01 50V 10%			MAG5011		
C118	.01 50V			MAG5011		
C119	5 50V $\pm$.5	154P14505		*		10TCC-V50
C120	.01 50V 10%			MAG5011		
C121	.01 50V			MAG5011		
C122	.0047 50V 10%		WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C123	.01 50V			MAG5011		
C124	.01 50V 10%			MAG5011		
C125	.001 50V		DPMS6D1	M192P10292	QFT2-1	1FT-D10
C127	.01 50V			MAG5011		
C129	.0047 50V 10%		WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C131	.01 50V			MAG5011		
C135	.068 50V			MAG50168		
C136	.001 50V		DPMS6D1	M192P10292	QFT2-1	1FT-D10
C201	.01 50V			MAG5011		
C202	5 50V $\pm$.5	154P14505		*		10TCC-V50
C203	.001 50V			GP210		10TS-D10
C204	68 50V 5%		NP068	CN0468		10TCC-Q68
C205	.001 50V			GP210		10TS-D10
C206	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C207	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C208	.01 50V			MAG5011		
C209	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C210	100 50V 5%		NP0100	CN0310		10TCC-T10
C211	.01 50V			MAG5011		
C212	.001 50V			GP210		10TS-D10
C213	68 50V 5%		NP068	CN0468		10TCC-Q68
C214	56 50V 5%			CN0456		10TCC-Q56
C215	.068 50V			MAG50168		
C216	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C217	22 50V 5%		NP022	CN0422		10TCC-Q22
C219	33 50V 5%		NP033	CN0433		10TCC-Q33
C220	33 50V 5%		NP033	CN0433		10TCC-Q33
C221	220 50V 5%					10TCC-T22
C222	100 50V 5%		NP0100	CN0310		10TCC-T10
C223	5 50V $\pm$.5	154P14505		*		10TCC-V50
C224	22 50V 5%		NP022	CN0422		10TCC-Q22
C225	1 50V $\pm$.5	154P02901		*		10TCC-V10
C226	.01 50V			MAG5011		
C227	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C228	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C229	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C302	.001 50V			GP210		10TS-D10
C303	.033 50V 10%			M192P3339R8		192P3339R8
C306	.001 50V			GP210		10TS-D10
	.0015 50V 10%					
C308	.022 50V			M192P2239R8		192P2239R8
C310	.033 50V			M192P3339R8		192P3339R8
C311	120 50V			CN0312		10TCC-T12
C312	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C313	.001 50V			GP210		10TS-D10
C315	.001 50V			GP210		10TS-D10
C316	330 50V 5%		GP330	GP333		10TS-T33
C317	.022 50V			M192P2239R8		192P2239R8
C318	22 50V 5%		NP022	CN0422		10TCC-Q22
C319	.022 50V			M192P2239R8		192P2239R8
C320	.001 50V 5%		CD19FD102J03	SX210		MWC-102
C321	.1 50V			MAG5001		
C322	56 50V 5%			CN0456		10TCC-Q56
C323	240 50V 5%					10TCC-T27
C325	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C326	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C328	100 50V 5%		NP0100	CN0310		10TCC-T10
C330	2 50V $\pm$.5	154P02004		*		10TCC-V22
C331	330 50V 5%		GP330	GP333		10TS-T33
C332	330 50V 5%		GP330	GP333		10TS-T33
C333	33 50V 5%		NP033	CN0433		10TCC-Q33
C334	120 50V			CN0312		10TCC-T12
C335	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C336	22 50V 5%		NP022	CN0422		10TCC-Q22
C338	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C403	.022 50V			M192P2239R8		192P2239R8
C410	.1 50V			MAG5001		
C412	.01 50V			MAG5011		
C413	.01 50V			MAG5011		
C414	.001 50V			GP210		10TS-D10
C415	470 50V		GP470	GP347		10TS-T47
C416	.01 50V			MAG5011		
C503	.022 50V			M192P2239R8		192P2239R8
C507	.001 50V			GP210		10TS-D10
C508	.1 50V			MAG5001		
C509	.1 50V			MAG5001		
C601	2 50V $\pm$.5	154P02004		*		10TCC-V22
C602	10 50V $\pm$.5	154P02102		*		10TCC-Q10
C603	15 50V 5%			*		
C604	3 50V $\pm$.5	154P14503		*		10TCC-V30
C605	5 50V $\pm$.5	154P02007		*		10TCC-V50
C606	4 50V $\pm$.5	154P02006		*		10TCC-V47
C607	47 50V 5%		NP047	CN0447		10TCC-Q47
C608	250V $\pm$.5	154P02004		*		10TCC-V22
C609	680 50V		GP680	GP368		10TS-T68
C610	680 50V		GP680	GP368		10TS-T68
C611	.01 50V			MAG5011		

AMERICAN MOTORS MODELS 3231847/48/49/50

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS(cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C612	3 50V ±.25	154P13005		CN0533		10TCC-V82
C613	8 50V ±.5	154P13100		* CN0568		
C614	5 50V ±.25	154P13007		GP247		5GA-D47
C615	.0047 50V		GP4700	M192P2239R8		192P2239R8
C616	.022 50V			GP247		5GA-D47
C617	.0047 50V		GP4700	CN0510		
C618	1 50V ±.25	154P14403		MAG5011		
C620	.01 50V			M192P2239R8		192P2239R8
C622	.022 50V			GP247		5GA-D47
C623	.0047 50V		GP4700	M192P2239R8		192P2239R8
C624	.022 50V			M192P2239R8		192P2239R8
C625	.022 50V			M192P2239R8		192P2239R8
C627	.022 50V			M192P2239R8		192P2239R8
C628	10 50V ±.25	154P14009		CN0410		
C630	680 50V		GP680	GP368		10TS-T68
C631	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C632	.022 50V		DPMS2P22	EWFA0A22	QF1-253	1PB-P22
C633	330 50V 5%		CD15F0331J03	SX333	QW1-39	MMA-331
C636	470 50V 5%		CD15F0471J03	SX347	QW1-42	MMA-471
C640	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C641	.022 50V 10%		DPMS2P22	EWFA0A22	QF1-253	1PB-P22
C642	.022 50V 10%		DPMS2P22	EWFA0A22	QF1-253	1PB-P22
C644	.0047 50V 10%			M192P4729R8		192P4729R8
C645	.0047 50V 10%			M192P4729R8		192P4729R8
C646	.001 50V 10%			GP210		10TS-D10
C701	22 50V 5%		NPO22	CN0422		10TCC-Q22
C703	.001 50V 10%			GP210		10TS-D10
C704	.0022 50V 10%		DPMS6022	M192P2229R8	QFT2-27	1FT-D22
C705	68 50V 5%		NPO68	CN0468		10TCC-Q68
C706	100 50V 5%		NPO100	CN0310		10TCC-T10
C707	33 50V 5%		NPO33	CN0433		10TCC-Q33
C708	.022 50V		DPMS2P22	EWFA0A22	QF1-253	1PB-P22
C709	.0022 50V 10%		DPMS6022	M192P2229R8	QFT2-27	1FT-D22
C711	.0068 50V 10%		WMF1068	EWFA268	QF1-73	1PB-D68
C712	300 50V 5%		CD15F0301J03	SX330	QW1-38	MMA-301
C713	10 50V ±.5	154P02102		*		10TCC-Q10
C715	2 50V ±.5	154P02004		*		10TCC-V22
C717	120 50V 5%			CN0312		10TCC-T12
C718	10 50V ±.5	154P02102		*		10TCC-Q10
C719	.001 50V 10%			GP210		10TS-D10
C722	.022 50V			M192P2239R8		192P2239R8
C725	.047 50V		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C726	28 50V		NPO33	CN0433		10TCC-Q33
CP1	.001	189P05401				
CP2	.001	189P05401				
CP3	.001	189P05401				
CP4	.001	189P05401				
CP5	.001	189P05401				
CP6	.001	189P05401				
CP7	.001	189P05401				
CP8	.001	189P05401				
VC301	10	202P10703				
VC601	10	202L00301				
VC602	10	202P10702				
VC603	10	202L00301				
VC701	60	202L00401				
VC702	50	202P10401				
VC703	50	202P10401				

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

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA		
			MFR. PART No.	MALLORY PART No.	TRW PART No.
VR101	S Meter	20K	127M02102	RVA0911H253	U260R253B
VR102	Squelch Range	100K	127M02105	RVA0911H104	U260R104B
VR103	Squelch	20K	129L05702(18)		
VR201	Fine Tune	10K			
VR302	Power Meter	100K	127M02105	RVA0911H104	U260R104B
VR303	AMC	1000	127M02106	RVA0911H102	U260R102B
VR401	Tone-Left	50K	923L32702		
VR402	Volume-Left	50K Tap @ 6200	9P00304(5)(19)		
VR501	Tone-Right	50K			
VR502	Volume-Right	50K Tap @ 6200	923L34001(1)		
VR404	Power Switch				
VR504	Fader-Left	40 2W	129L05901		
VR503	Fader-Right	40 2W			
VR503	Balance	20K	129L06101		
VR601	19KHz	10K	127M02101	RVA0911H103	U260R103B
VR701	Preamp Level	100K	127M02105	RVA0911H104	U260R104B

(1) Models 3231847/1849.

(5) Number on unit.

(18) Includes VR103 and VR201.

(19) Includes Channel Selector, VR401, VR402, VR501, VR502 and Switch.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		MFGR. PART No.	WORKMAN PART No.			MFGR. PART No.	WORKMAN PART No.
TH301	195 CoId NTC	265P04201 (22D27)					

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L2	RF Choke (8.2uH)				
L201	RF Choke	321P00108			
L202	RF Choke	351M00601			
L203	VCO	409K02600			
L204	RF Choke	321P00108			
L301	RF Choke	351L00104			
L302	XMT Driver (27MHz)	409K01502			
L303	RF Choke	351M00201			
L304	Final (27MHz)	409K01500			
L305	XMT Antenna (27MHz)	409K01501			
L306	XMT Antenna (27MHz)	409K01501			
L601	FM Antenna	361M00107			
L602	FM Input				
L603	FM RF				
L604	RF Choke	321P00106			
L605	RF Choke	320D04601			
L606	FM Oscillator	321P00106			
L607	FM IF (10.7MHz)				
L701	RF Choke	351L00103			
L702	AM Antenna				
L703	AM RF				
L704	RF Choke	321P00105			
L705	Osc. Tuning				
T101	Rec Antenna (27MHz)	409K02300			
T102	Rec RF (27MHz)	409K02200			
T103	Rec Mixer (10.695MHz)	374L00201			
T104	Rec Mixer (10.695MHz)	374L00201			
T105	IF (455kHz)	374L00103			
T106	IF (455kHz)	374L00103			
T201	PLL Amp (37MHz)	409K02202			
T301	RF Amp (27MHz)	409K01001			
T601	FM Mixer (10.7MHz)	374L00201			
T602	FM IF (10.7MHz)	374M00301			
T701	AM Osc. (550kHz)	373M00201			
T702	AM IF (262.5kHz)	374L00501			
T703	AM IF (262.5kHz)	374L00504			
T704	AM IF (262.5kHz)	374L00502			
T705	AM IF (262.5kHz)	374L00503			

AMERICAN MOTORS MODELS 3231847/48/49/50

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.	
L1	1.3A	.4	3.5mH	351P00105			

TRANSFORMER

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T401	1	1.5	2.5CT	352L00301			

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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	3A 250V Quick Acting			AGC3	HRK	312003	150145	F63-2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF	Ceramic Filter	296P01901	455kHz
CF601	Filter	296P01007	10.7MHz
CF602	Filter	296P01007	10.7MHz
DP1	LED		Channel Display
FIL	Filter	L004-1(1)	27MHz
FL1	Ferrite Core		
J101	Socket	449L00302	Radio Antenna
J301	Socket	449L02303	CB Antenna
LD601	LED		Stereo Indicator
M1	Meter	299L00301	S/P
MIC	Microphone	485L01001	Microphone Assembly
PL1	Lamp	253L00405	Dial
PL2	Lamp	253L00405	Dial
PL3	Lamp	253L00404	Meter
RY	Relay	287L01801	Transmit
S401	Switch	439P00304	Channel Select (Part of Volume and Tone Control)
SW1	Switch		On/Off (On Volume Control VR404)
SW2	Switch		Radio/Standby/CB
SW3	Switch		FM/AM
X201	Crystal	285L00101	10.240MHz
X202	Crystal	285L00103	36.190MHz
X301	Crystal	285L00104	10.695MHz
	P.C. Board	923K17502	Radio
	P.C. Board	923K17503	Connector
	P.C. Board	923K17602	CB
	P.C. Board	923L32702	Channel Selector
	P.C. Board	923L32901	LED
	P.C. Board	923L33801	Mod.
	P.C. Board	923L33901	Squelch

(1) Number on unit.

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

ITEM	PART No.	ITEM	PART No.
Cover, Bottom	590L52902	Knob, Balance	704M18401
Panel, Front	93L10601(1)	Knob, Squelch	704M17301
	93L10602(2)	Knob, Fine Tune	704M17002
	963L10603(3)	Button, AM/FM Switch	704M18501
	963L10604(4)	Dial	707M06201
Nose Piece	702K07701(1)		
	702K07902(2)	(1) Model 3231850.	
	702K08001(3)	(2) Model 3231848.	
	702K07801(4)	(3) Model 3231849.	
		(4) Model 3231847.	

WIRING DATA

Cable (Speaker)(Unshielded).....	Use BELDEN No. 8782 (AWG24)(4 colors)
Shielding Strap.....	Use BELDEN No. 8660 (3/16" width)
Hook-up Wire (General Use).....	Use BELDEN No. 8524 (AWG22)(13 colors)
Hook-up Wire (Shielded).....	Use BELDEN No. 8401 (Braided Shield)(1 conductor)(AWG25)
	Use BELDEN No. 8421 (Spiral Shield)(1 conductor)(AWG25)
	Use BELDEN No. 8737 (Spiral Shield)(2 conductor)(AWG22)
Coax (Transmission Line).....	Use BELDEN No. 8259 (RG-58A/U, 50 ohms)
Coax (Transmission Line).....	Use BELDEN No. 8219 (RG-58A/U, 50 ohms)(Low Loss)
Microphone Cable (Coiled).....	Use BELDEN No. 8491 (4 conductor-2 shielded)(6 ft.)(AWG23)