

PHOTOFACT[®] with

CIRCUITRACE[®]

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NOTE

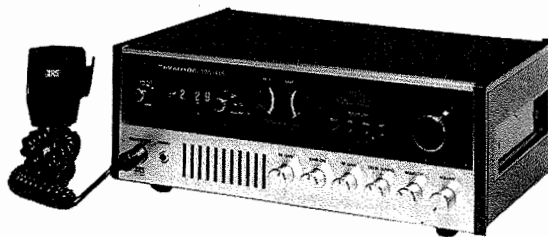
Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.

(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 TRC-455 (21-1542)

MANUFACTURER'S SPECIFICATIONS

RECEIVER SECTION	NOMINAL	LIMIT
Sensitivity for 10 dB (S+N)/N	0.5 μ V	1.5 μ V
AGC Figure of merit (input 100mV)	100 dB	90 dB
Squelch Threshold	0.5 μ V	1.5 μ V
Squelch Tight	300 μ V	100 ~ 1000 μ V
Cross modulation	56 dB	50 dB
Image rejection	60 dB	50 dB
Spurious response	70 dB	60 dB
Desensitization ($\pm$ 20 kHz, -3 dB point)	3 mV	1 mV
Selectivity ($\pm$ 10 kHz, point)	70 dB	60 dB
Bandwidth (-6 dB point)	6 kHz	5 kHz
AF Output power at 10% distortion	4W	3W
PA Output power at 10% distortion	4W	3W
THD at 500 mW (80% MOD., 1 mV input)	8%	10%
Overall audio fidelity at 6 dB down	350 ~ 2800 Hz	400 ~ 2000 Hz
RF Gain control	40 dB	30 dB
Delta tuning	$\pm$ 1.3 kHz	$\pm$ 1.0 kHz
Current drain at DC 13.8V (no signal)		0.4 A
Current drain at DC 13.8V (full signal)		1.5 A
TRANSMITTER SECTION		
Frequency tolerance	$\pm$ 0.002%	$\pm$ 0.005%
RF output power	3.8 W	3 ~ 4 W
Modulation	95%	80%
Spurious emission	-70 dB	-60 dB
Modulation frequency response (EIA)	450 Hz	-3 dB
	2150 Hz	-3 dB
	2500 Hz	-4 dB
Distortion at 80% Mod.	8%	10%
AMC range	60 dB	50 dB
Microphone sensitivity for 50% Mod.	0.3 mV	0.8 mV
Current drain at DC 13.8V (no mod.)	—	1.2A
Current drain at DC 13.8V (full mod.)	—	1.9A

Courtesy of the Manufacturer

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

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REALISTIC MODEL TRC-455

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. Adjust R708 for 13.8 volts output at TP8 (Power PCB pin 9). 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:

KGC ELECTRONICS

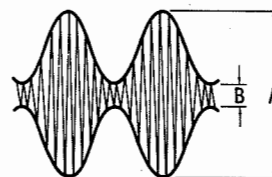
L1,T1,T2,T3,T4,T5,T6,T101,T102,T103,T104,T401.9440

T7,T108,T109,T110.5000, 5009, 8276, 8728, 8728A

T105,T106,T1075000, 5009, 8276, 8728, 8728A

L403,L404,L4075009, 8728, 8728A

VC1,VC2,VC3,C4305000, 8276



$$\text{Modulation Ratio} = \frac{A-B}{A+B} \times 100 (\%)$$

FIGURE 1

NOTE: Each of the PCB assemblies can be unplugged from the main board assembly and reconnected on the bottom. Remove the PCB bracket which holds the PCB sub-assemblies to the main board.

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCIEVER	ADJUST	REMARKS
NOTE: Before removing the PLL PCB assembly, disconnect the 3 pin Delta Tune connector. The plug may be left disconnected during synthesizer alignment.			
Input of oscilloscope to TP2 (PLL PCB pin 5).	Ch. 19	T7	Adjust for maximum RF output.
Input of frequency counter to TP2 (PLL PCB pin 5)	Ch. 19	VC3	Adjust for 10.240MHz $\pm 30\text{Hz}$.
Input of DC meter to TP1.	Ch. 1	T1	Adjust for 2.00 volts.
Input of frequency counter to TP3 (Q6 gate 2).	Ch. 19	L1	Adjust for 36.380MHz $\pm 100\text{Hz}$.
Input of frequency counter to TP3 (Q6 gate 2).	Ch. 19	VC1	Adjust for 36.380MHz $\pm 30\text{Hz}$.
Input of oscilloscope to TP4 (PLL PCB pin 2).	Ch. 19	T2	Adjust for maximum RF output.
Input of frequency counter to TP4 (PLL PCB pin 2).	Ch. 1		Check for 37.660MHz. Check all channels. (See Truth Chart for correct frequencies).
Input of frequency counter to TP5 (IC1 pin 2).	Ch. 1		Check for 1.280MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of oscilloscope to TP6 (PLL PCB pin 18)	Ch. 19 XMT	T3,T4,T5,T6	Adjust for maximum RF output.
Input of frequency counter to TP6 (PLL PCB pin 18).	Ch. 19 XMT	VC2	Adjust for 27.185MHz $\pm 30\text{Hz}$.

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. DELTA TUNE 0, Squelch MINIMUM, RF Gain Maximum, ANL Switch Off, NB Switch off.

TEST EQUIPMENT	TRANSCIEVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP7 (Q103 base.) 455kHz, 1000Hz @ 30% modulation.	Ch. 19	T110,T109, T108.	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	T107,T106, T105,T104, T103,T102, T101	Adjust for maximum output. If necessary readjust T108, T109 and T110.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
DELTA TUNE 0, RF Gain Maximum, ANL Switch off, NB Switch off.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 1uV.	Ch. 19 Squelch MINIMUM	R904 *R159 *Used in early versions only.	RF GAIN RANGE Adjust R159 to maximum counterclockwise position (As viewed from top edge of RX PCB). Set volume VR201 for 2 volts of audio. Reset RF GAIN VR102 to maximum counterclockwise position. Increase generator output to 100uV. Adjust R904 for 2 volts of audio.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 330uV.	Ch. 19 Squelch Maximum	R141	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 Squelch MINIMUM	R160	S METER Adjust for 9 on S scale of RF-S meter.

REALISTIC MODEL TRC-455

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. CAL Switch off.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of RF wattmeter and 50 ohm, 25 watt dummy load to antenna connector.	Ch. 19	T401, L407, L404, L403	Adjust for maximum RF output.
Input of RF wattmeter and 50 ohm, 25 watt dummy load to antenna connector.	Ch. 19	C430, L404 L403	Adjust for 4.0 watts RF output maximum.

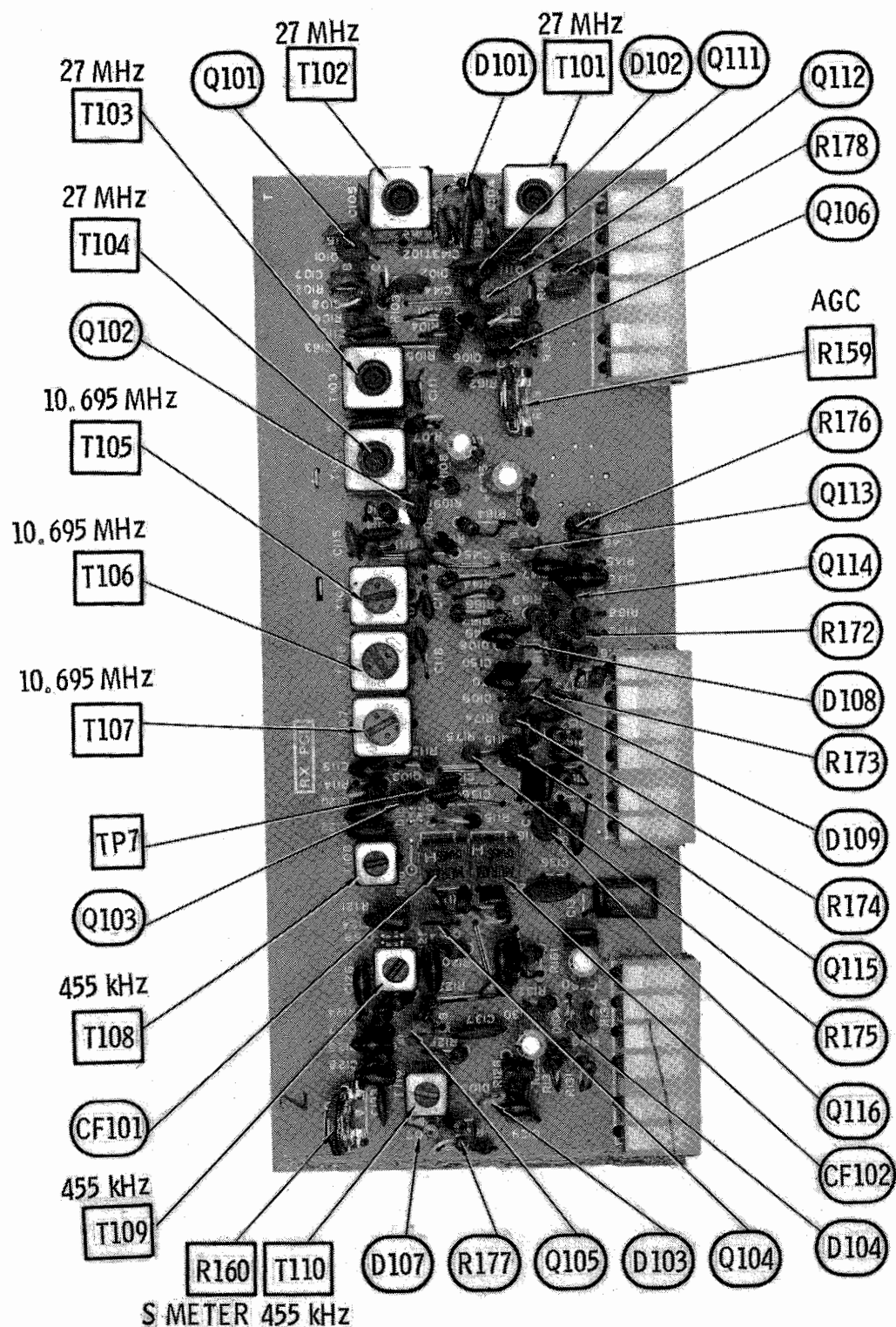
TRANSMITTER ADJUSTMENTS

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. CAL Switch off.

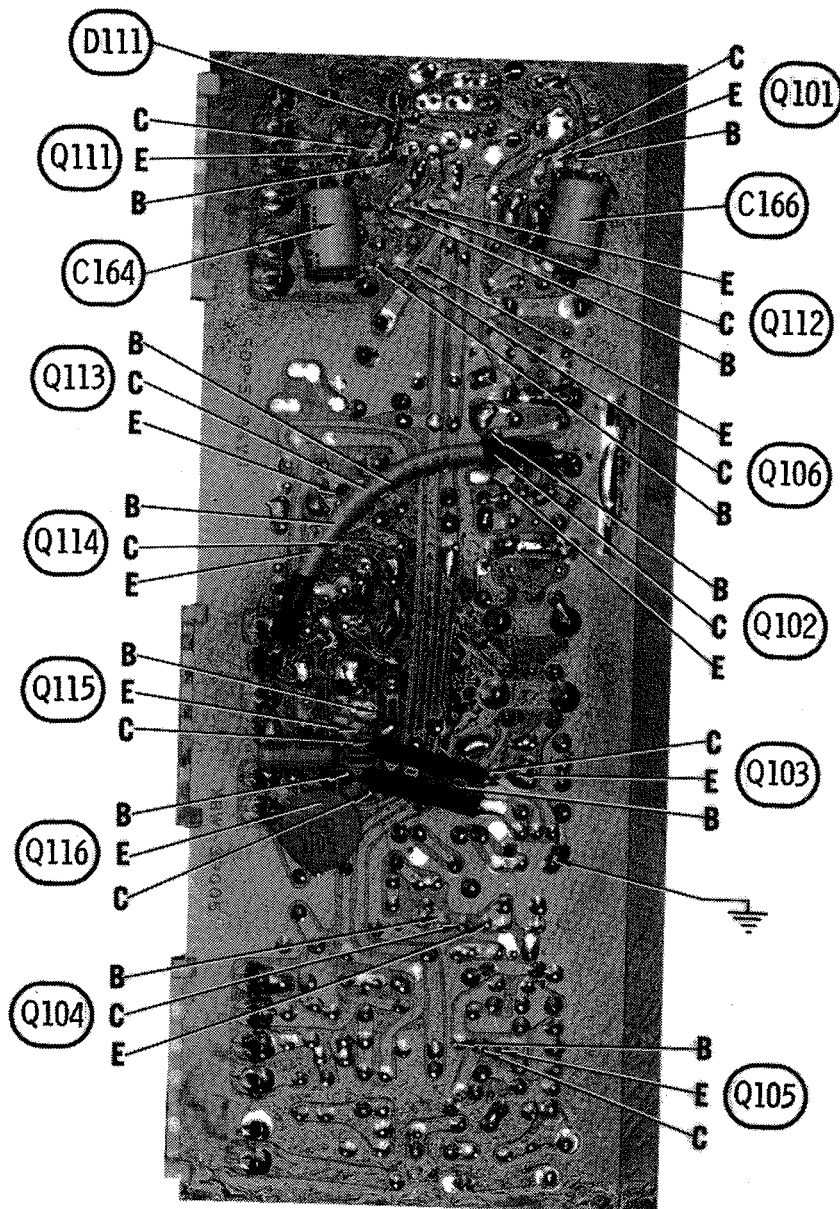
TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope or modulation meter to antenna jack. Inject a 1000Hz, 1mV Signal at MIC input.	Ch. 19	R504	AMC Adjust for 85% modulation. See Figure 1.
Input of RF wattmeter and 50 ohm, 25 watt dummy load to antenna jack.	Ch. 19	R404	RF METER Adjust so that panel meter agrees with RF wattmeter.
Input of RF wattmeter and 50 ohm, 25 watt dummy load to antenna jack.	Ch. 19 CAL ON	R902	SWR METER Key transmitter and set SWR CAL (VR103) for CAL on SWR panel meter. Reset CAL (SW1) to off and adjust R902 for MINIMUM indication on SWR panel meter

TRUTH CHART

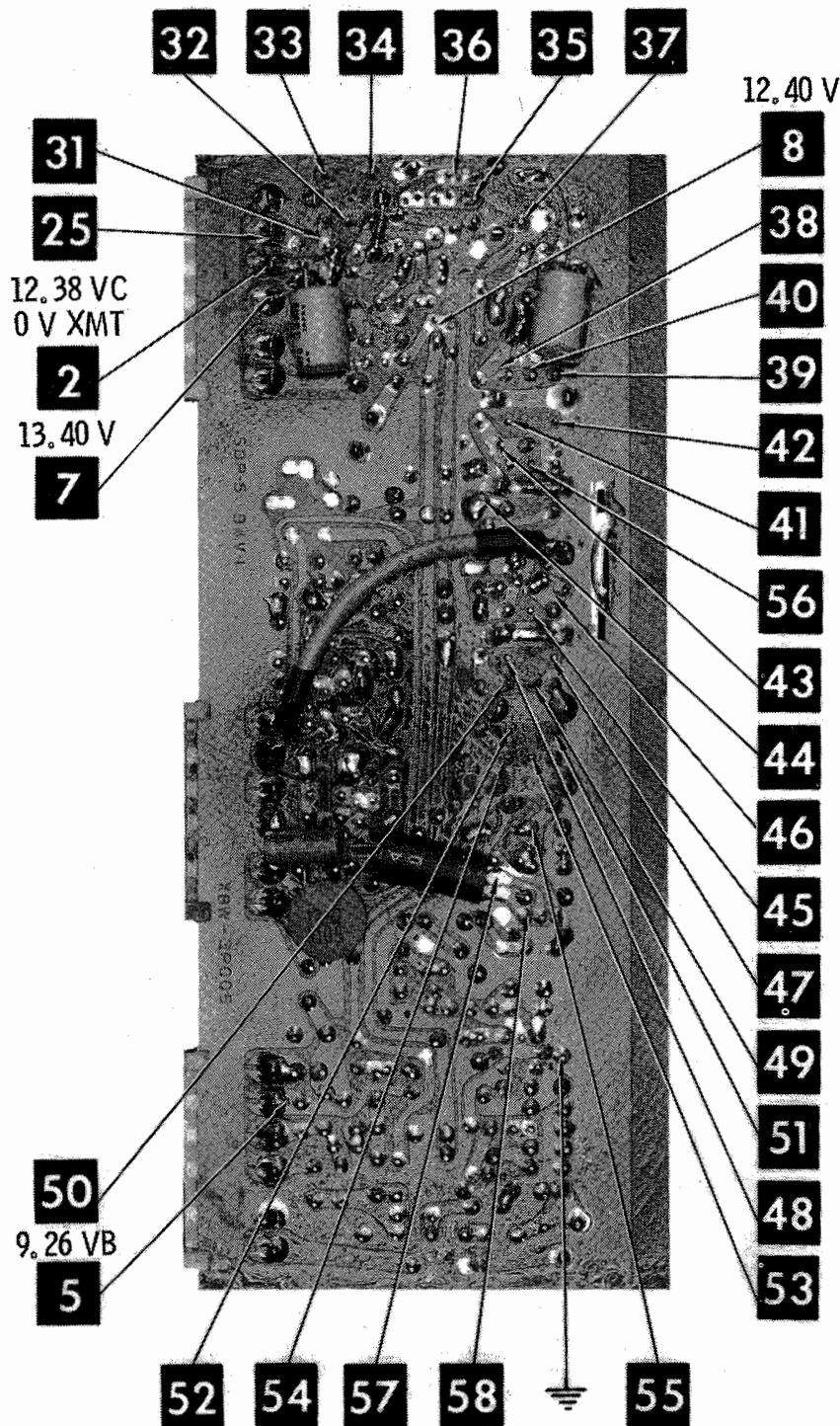
C H A N N E L	1 = 5.00 Volts 0 = 0 Volts IC1 PROGRAM DIVIDER								REC and XMT VCO OUTPUT IN MHz AT TP2	DIVIDER INPUT IN MHz AT TP5	
	PINS										
	10	11	12	13	14	15					
1	0	0	0	0	0	0			37.660	1.280	
2	0	0	0	0	0	1			37.670	1.290	
3	0	0	0	0	1	0			37.680	1.300	
4	0	0	0	1	0	0			37.700	1.320	
5	0	0	0	1	0	1			37.710	1.330	
6	0	0	0	1	1	0			37.720	1.340	
7	0	0	0	1	1	1			37.730	1.350	
8	0	0	1	0	0	1			37.750	1.370	
9	0	0	1	0	1	0			37.760	1.380	
10	0	0	1	0	1	1			37.770	1.390	
11	0	0	1	1	0	0			37.780	1.400	
12	0	0	1	1	1	0			37.800	1.420	
13	0	0	1	1	1	1			37.810	1.430	
14	0	1	0	0	0	0			37.820	1.440	
15	0	1	0	0	0	1			37.830	1.450	
16	0	1	0	0	1	1			37.850	1.470	
17	0	1	0	1	0	0			37.860	1.480	
18	0	1	0	1	0	1			37.870	1.490	
19	0	1	0	1	1	0			37.880	1.500	
20	0	1	1	0	0	0			37.900	1.520	
21	0	1	1	0	0	1			37.910	1.530	
22	0	1	1	0	1	0			37.920	1.540	
23	0	1	1	1	0	1			37.950	1.570	
24	0	1	1	0	1	1			37.930	1.550	
25	0	1	1	1	0	0			37.940	1.560	
26	0	1	1	1	1	0			37.960	1.580	
27	0	1	1	1	1	1			37.970	1.590	
28	1	0	0	0	0	0			37.980	1.600	
29	1	0	0	0	0	1			37.990	1.610	
30	1	0	0	0	1	0			38.000	1.620	
31	1	0	0	0	1	1			38.010	1.630	
32	1	0	0	1	0	0			38.020	1.640	
33	1	0	0	1	0	1			38.030	1.650	
34	1	0	0	1	1	0			38.040	1.660	
35	1	0	0	1	1	1			38.050	1.670	
36	1	0	1	0	0	0			38.060	1.680	
37	1	0	1	0	0	1			38.070	1.690	
38	1	0	1	0	1	0			38.080	1.700	
39	1	0	1	0	1	1			38.090	1.710	
40	1	0	1	1	0	0			38.100	1.720	



REC. BOARD

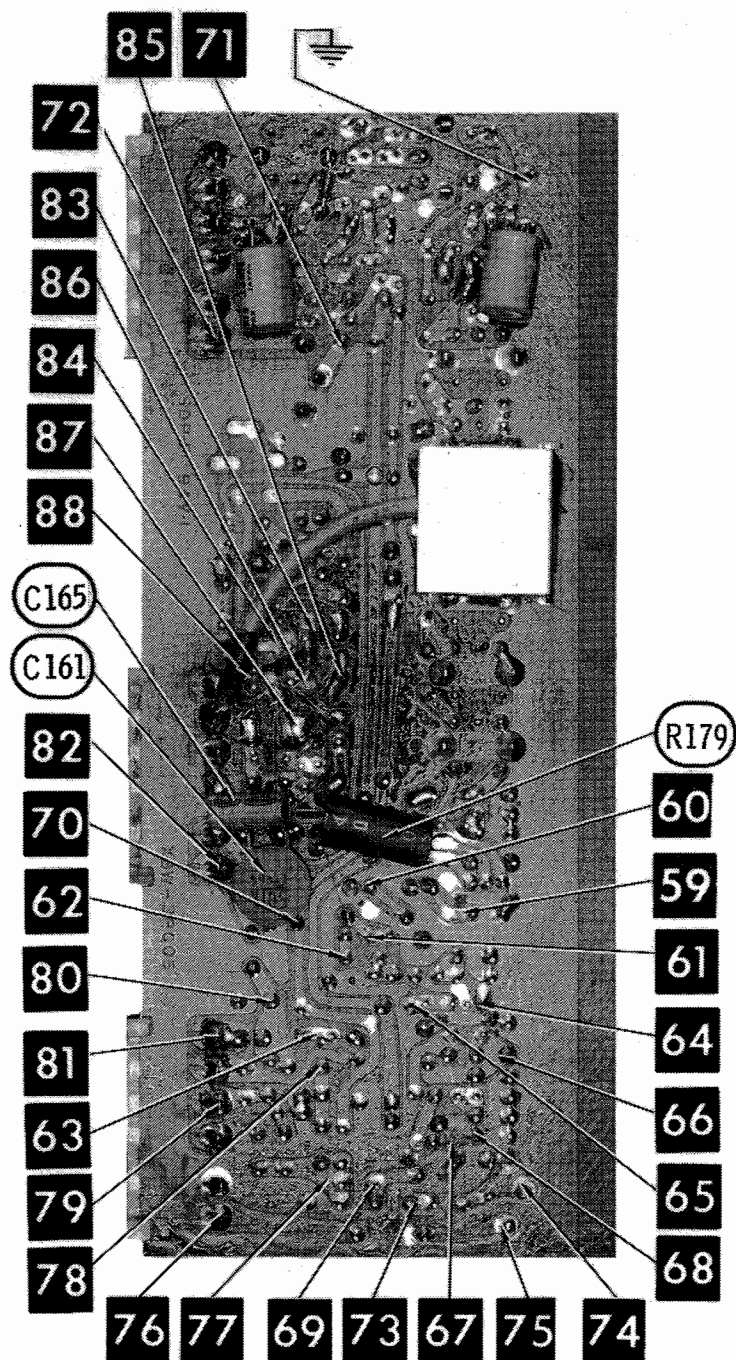


REC. BOARD

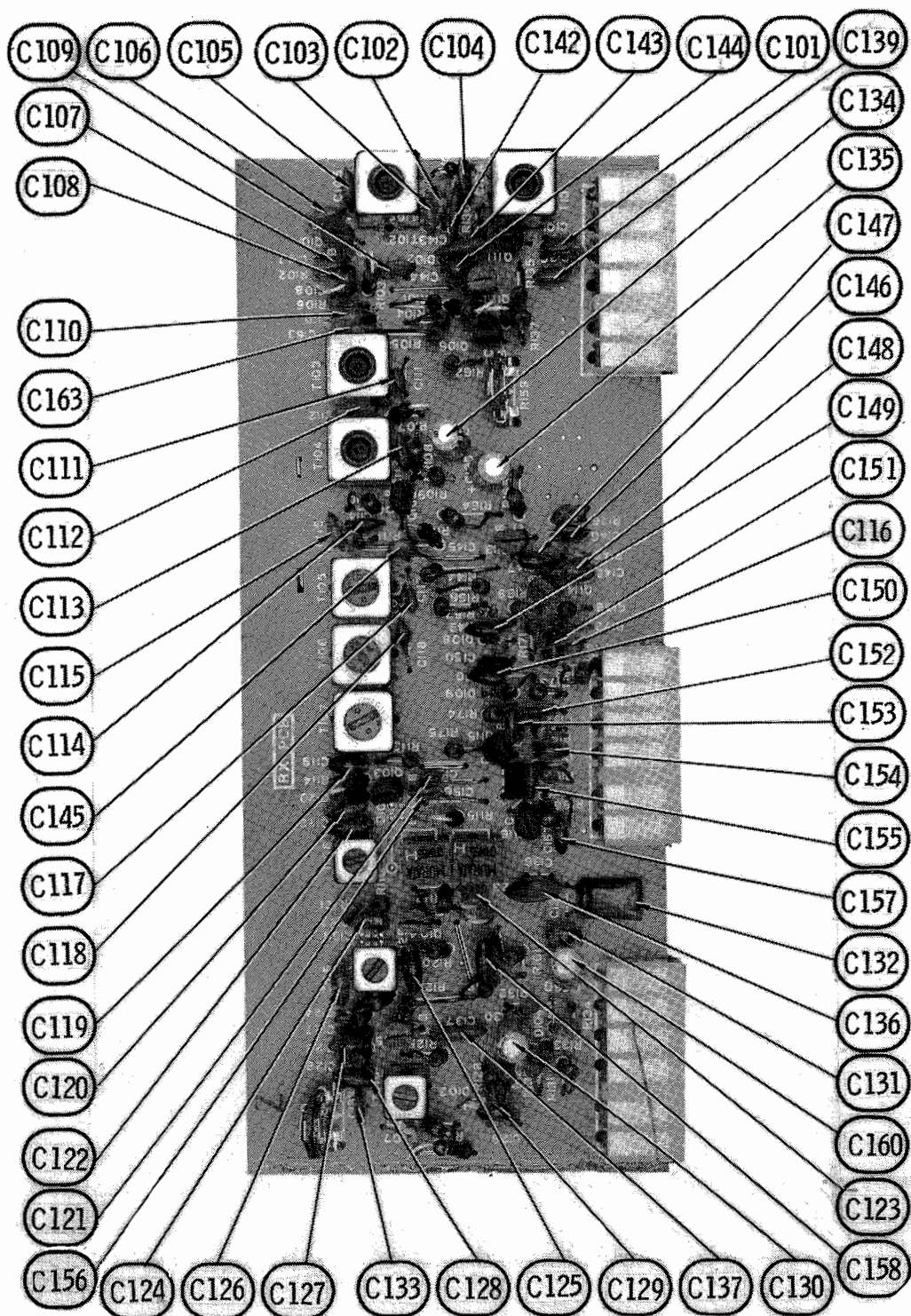


REALISTIC MODEL TRC-455

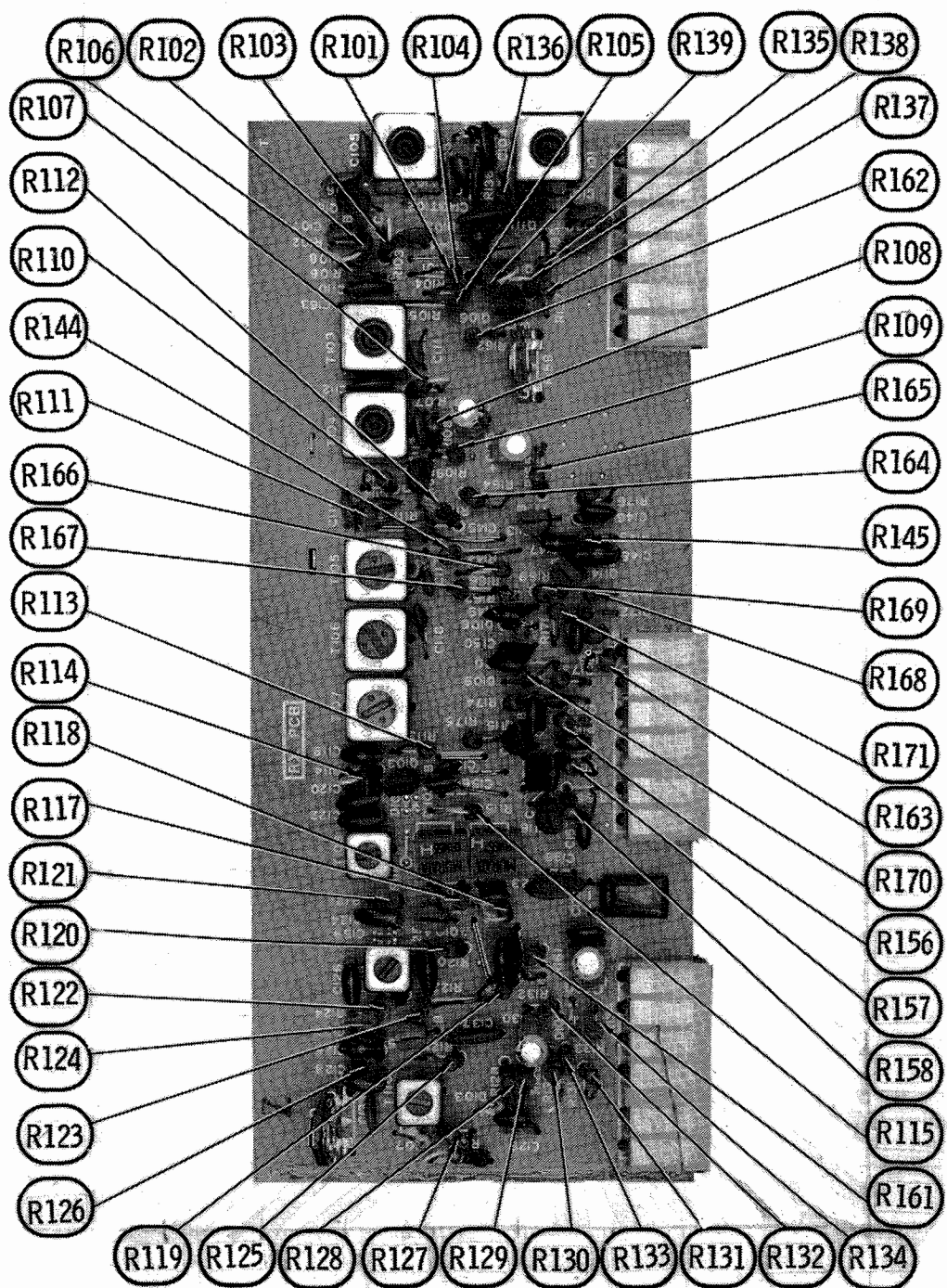
REC. BOARD



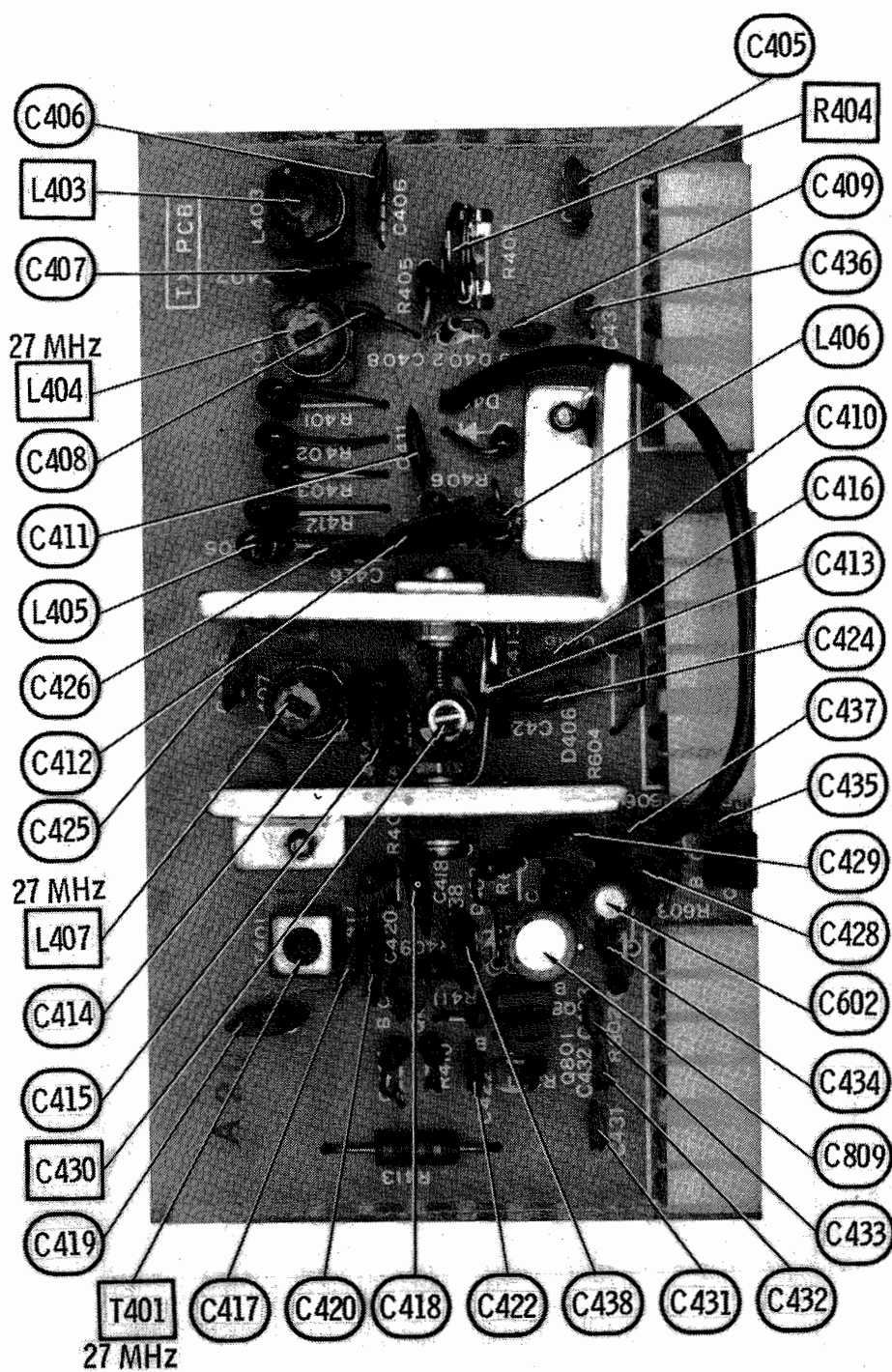
REC. BOARD



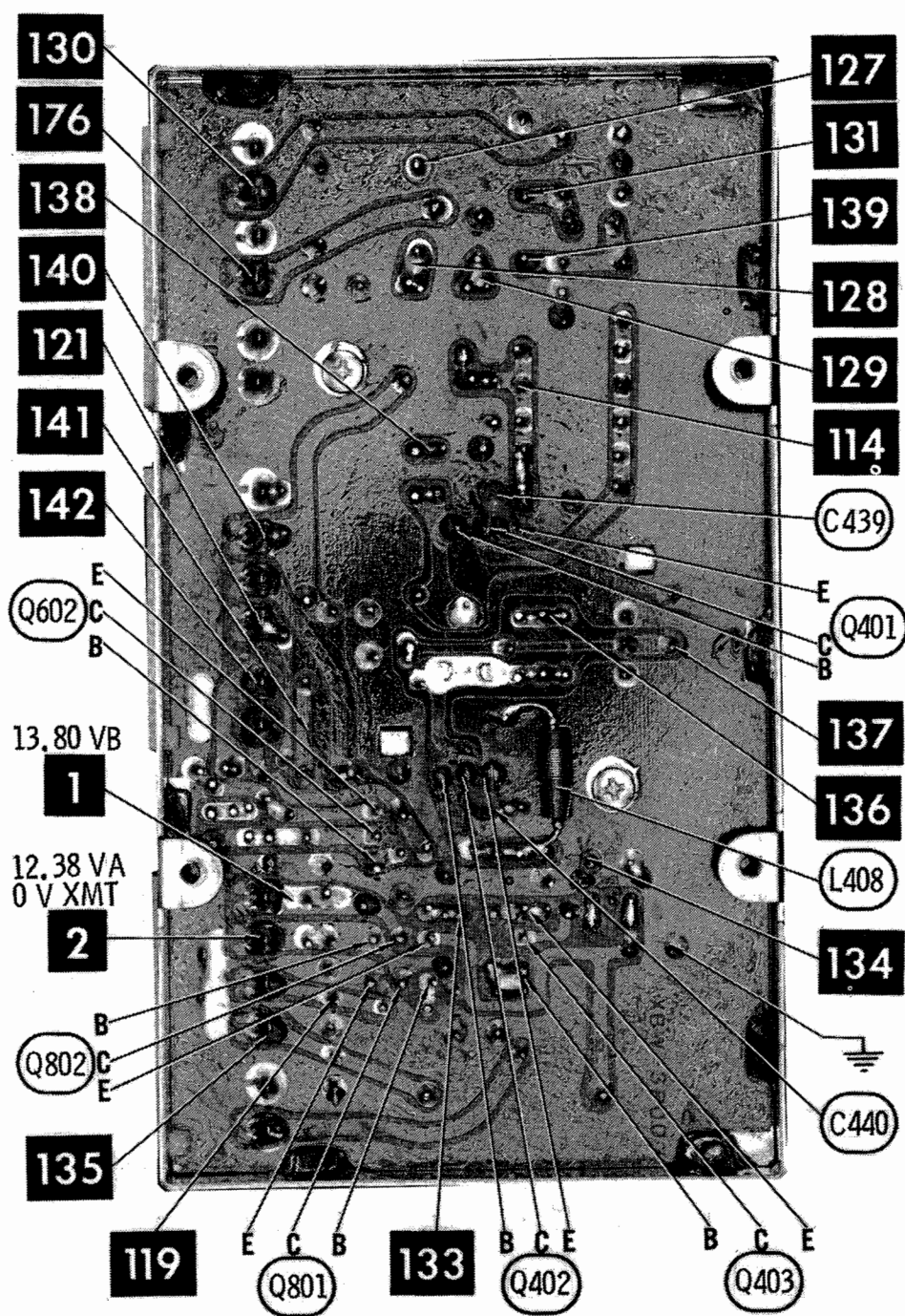
REC. BOARD



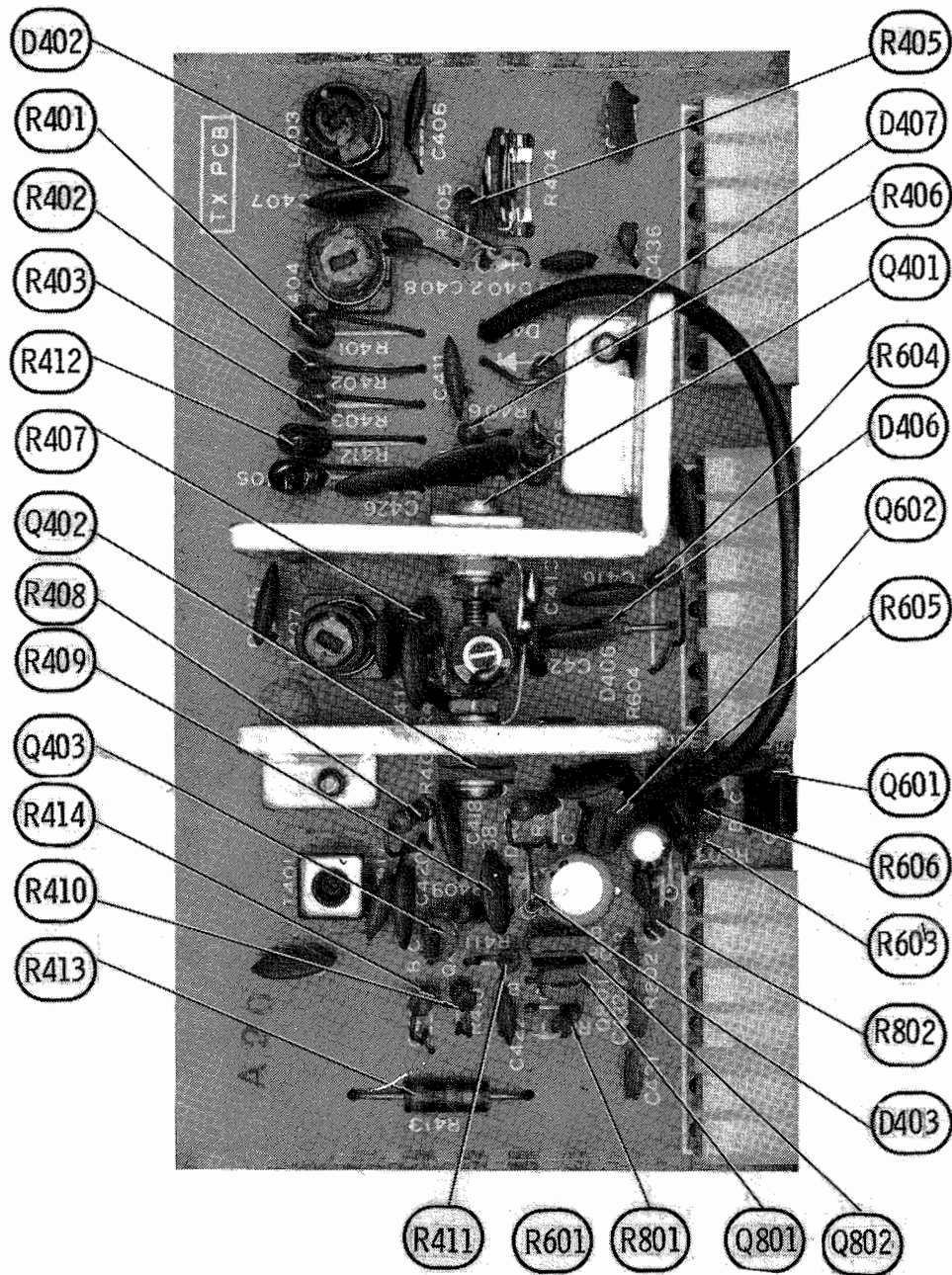
REC. BOARD



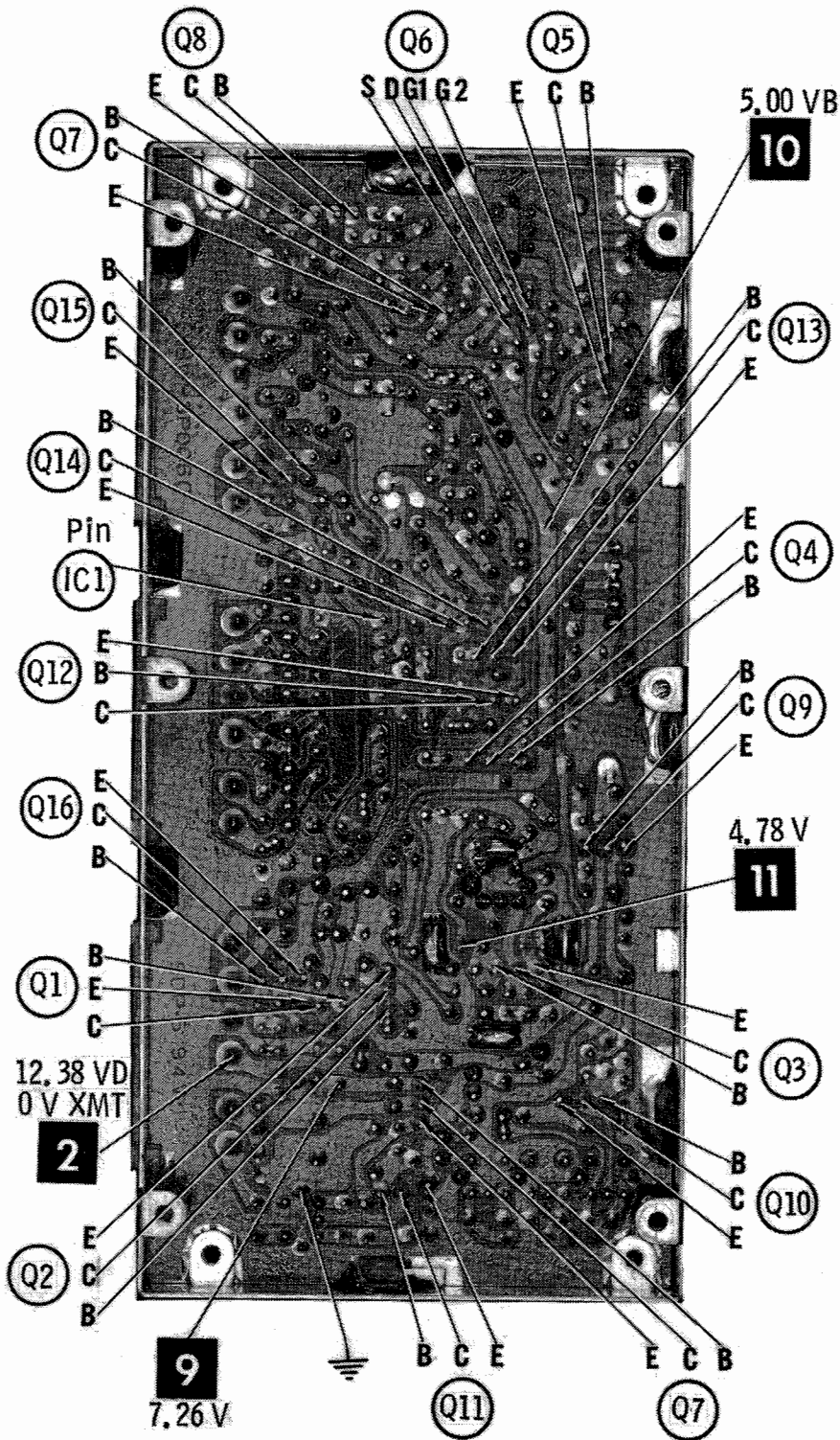
XMT BOARD



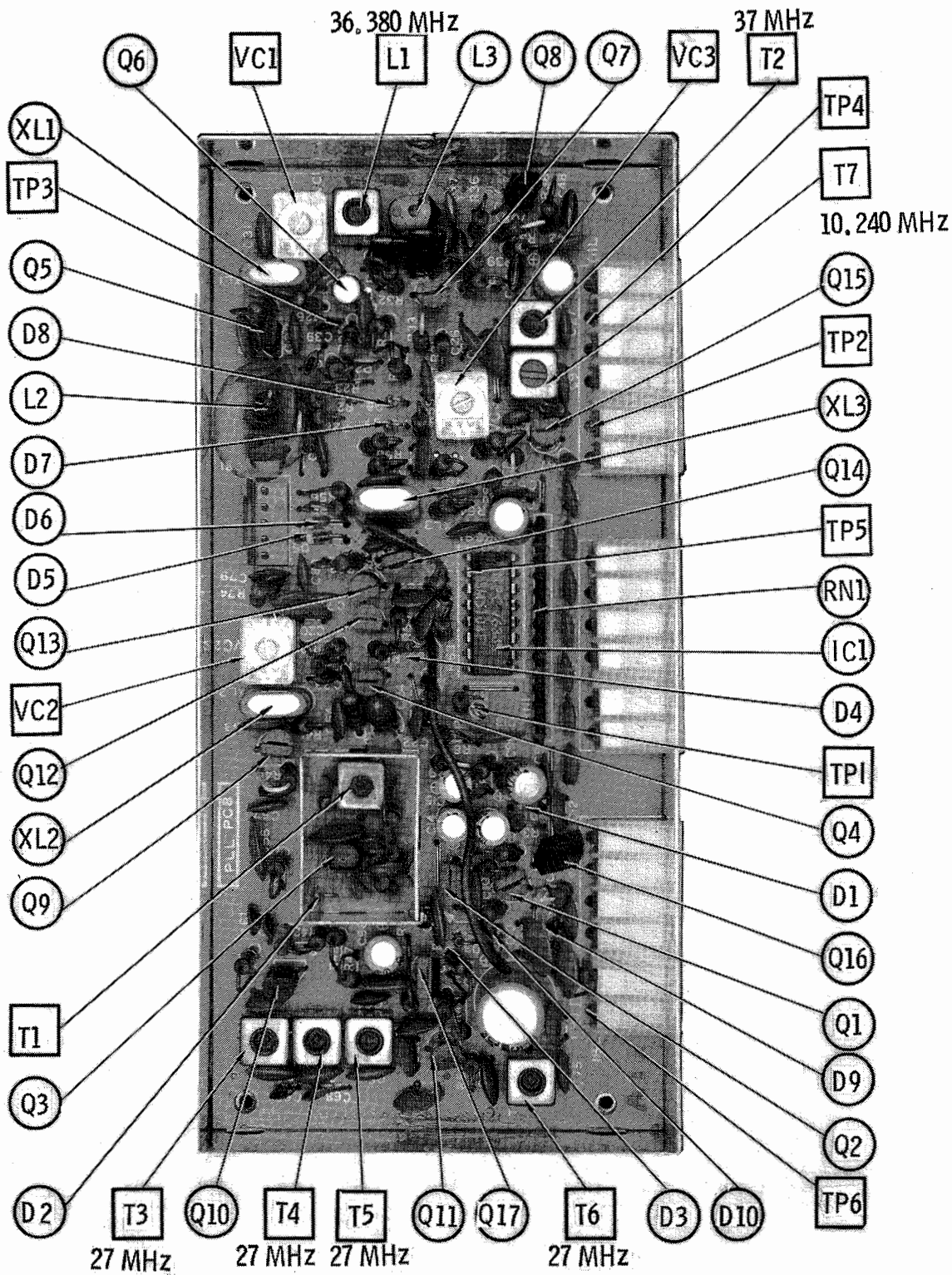
XMT BOARD



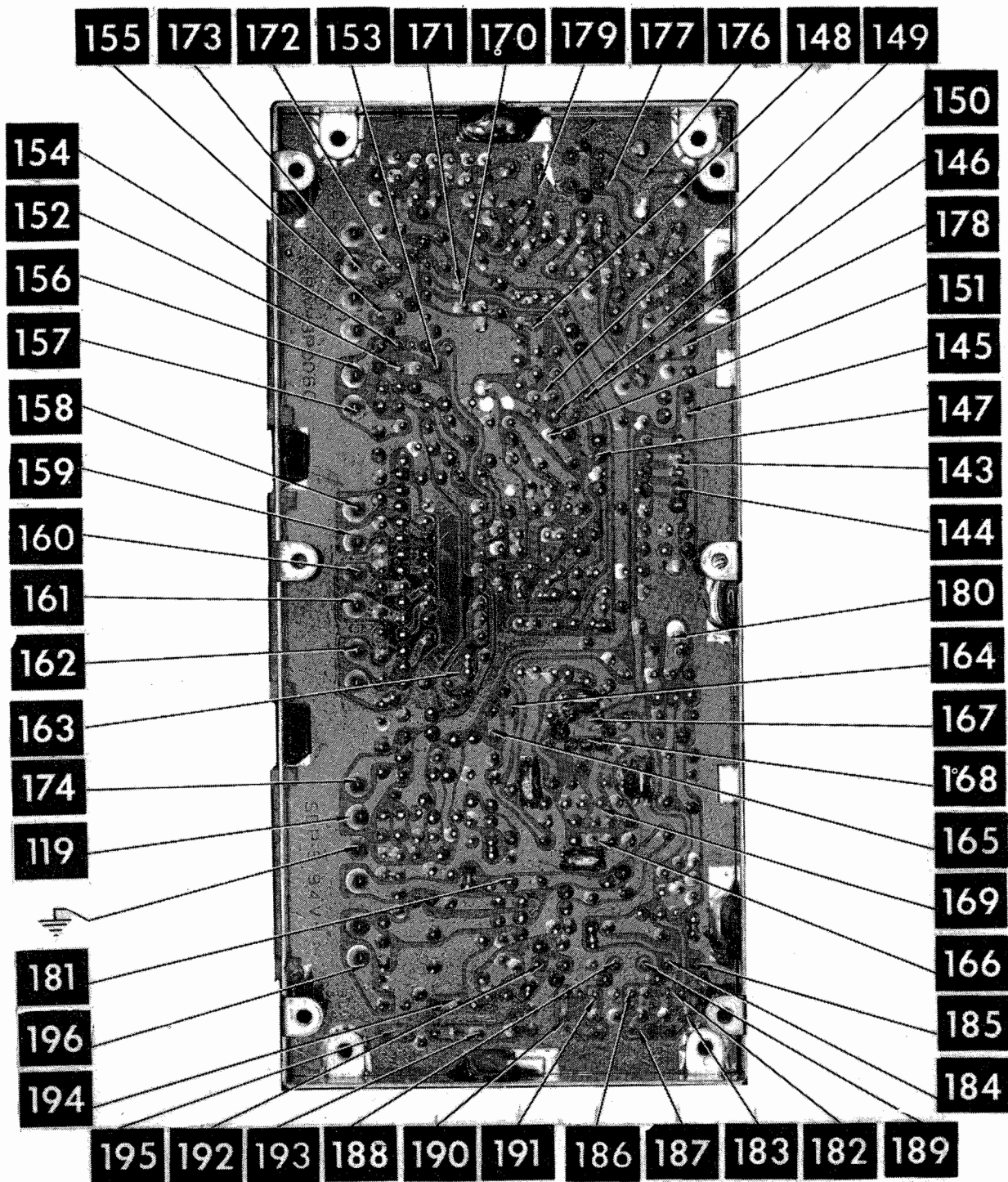
XMT BOARD



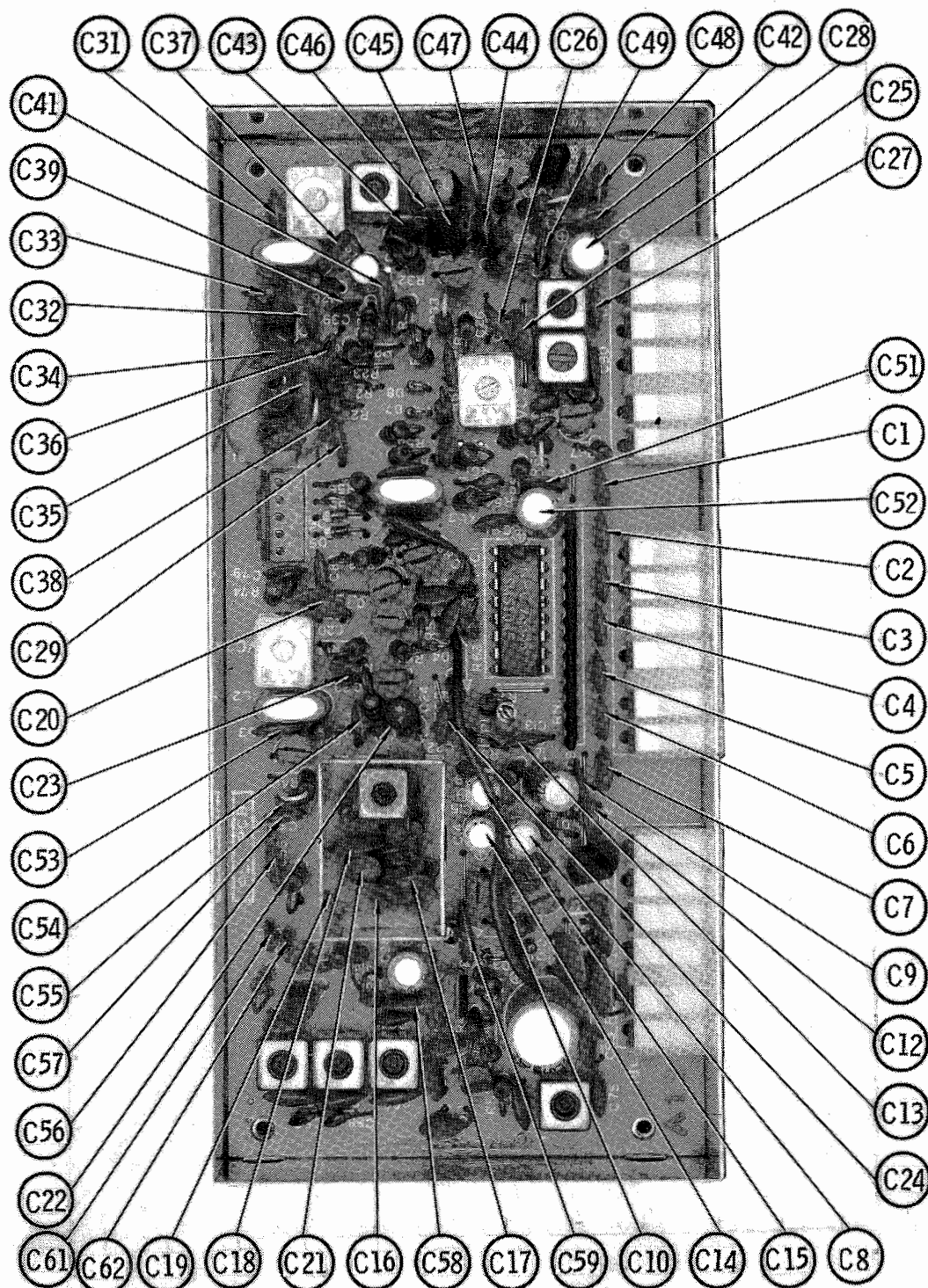
PLL BOARD



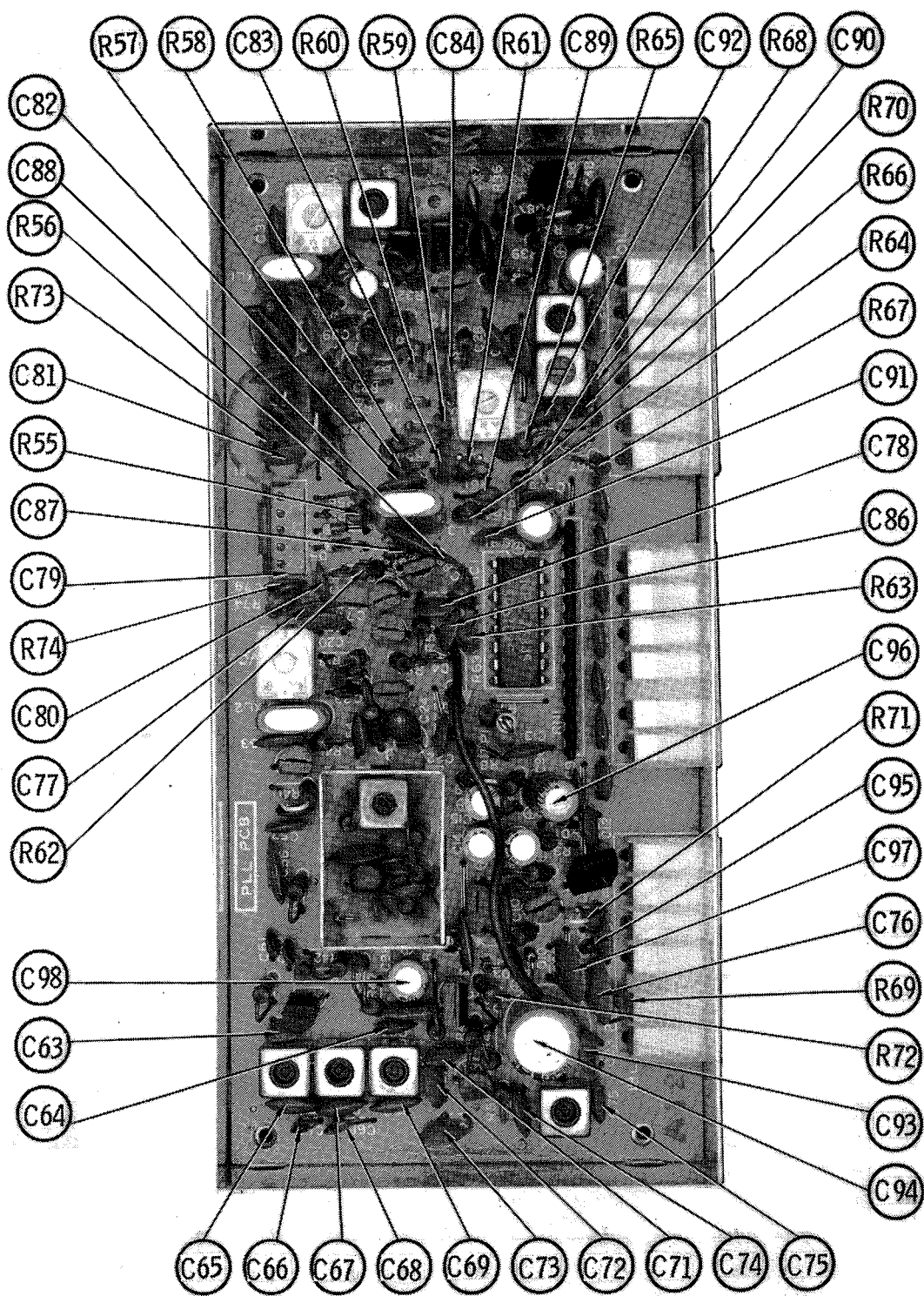
PLL BOARD



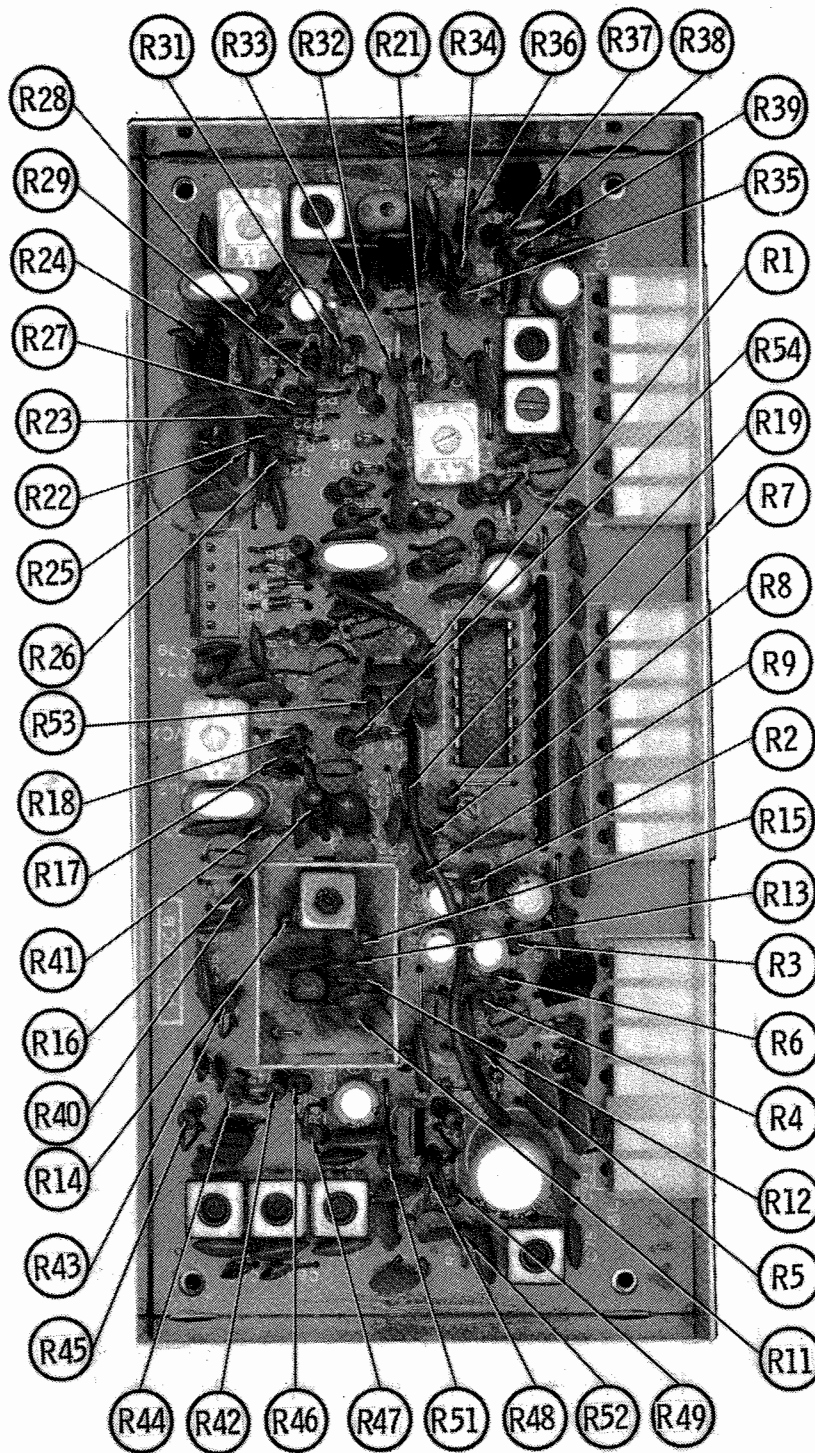
PLL BOARD



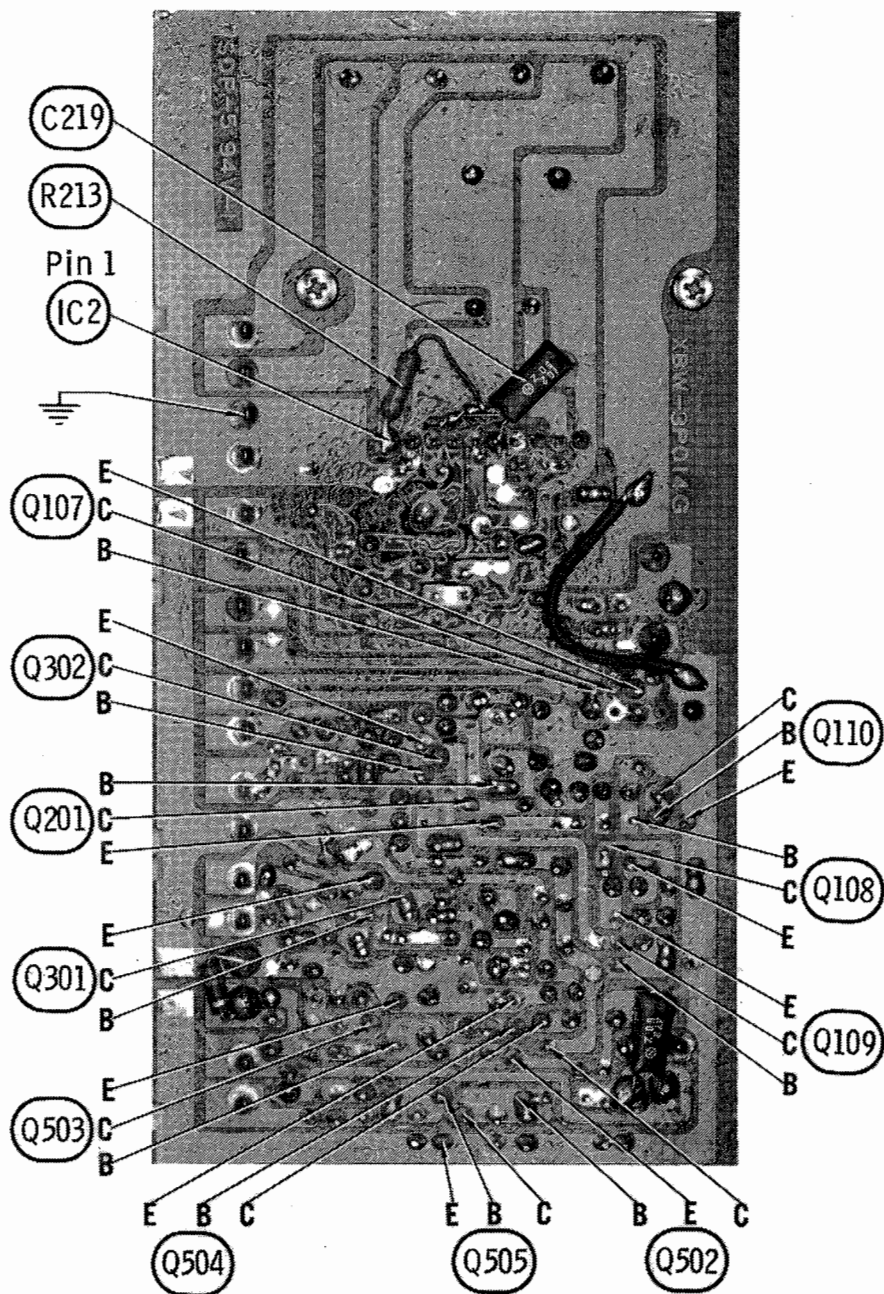
PLL BOARD



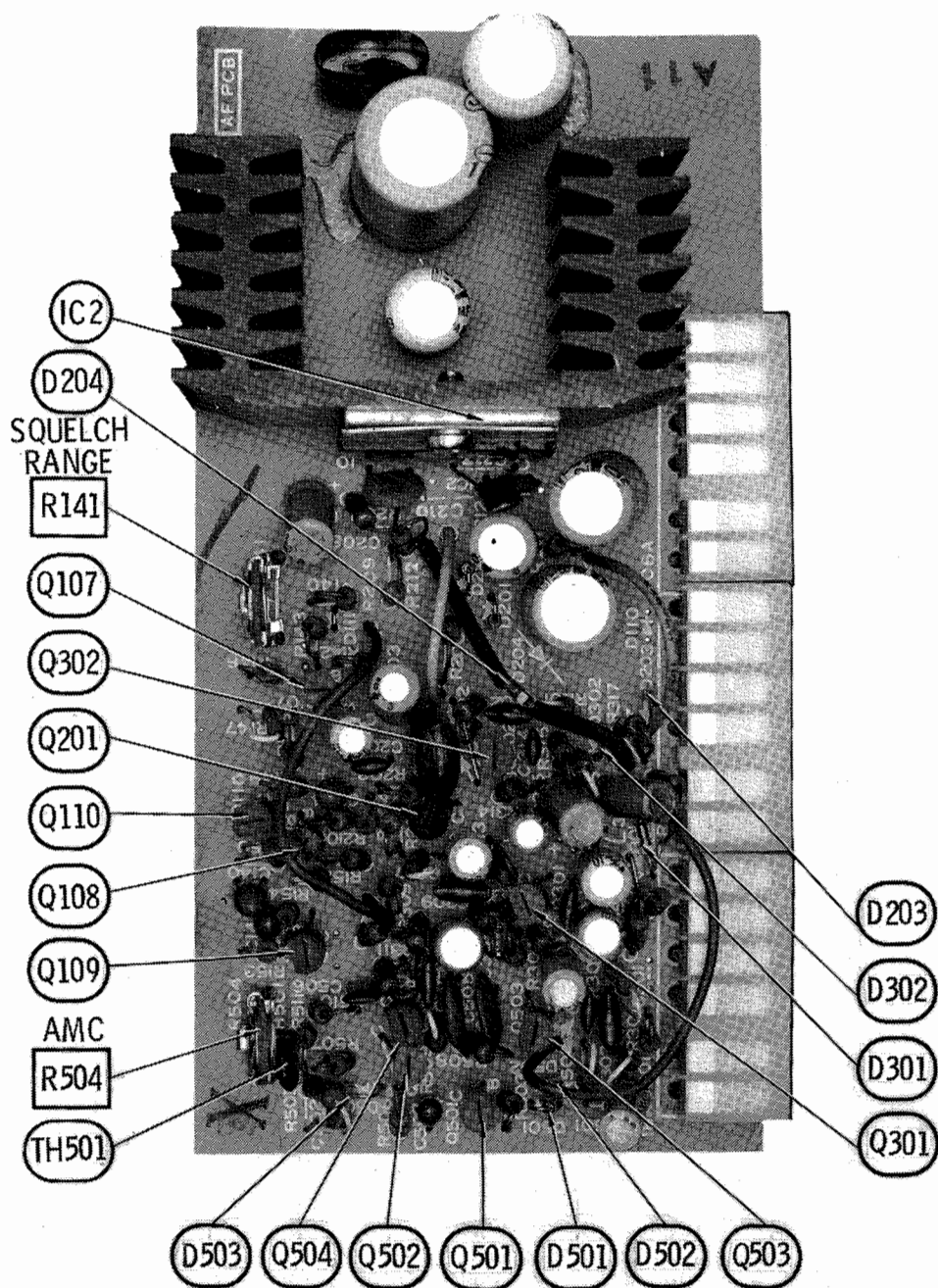
PLL BOARD



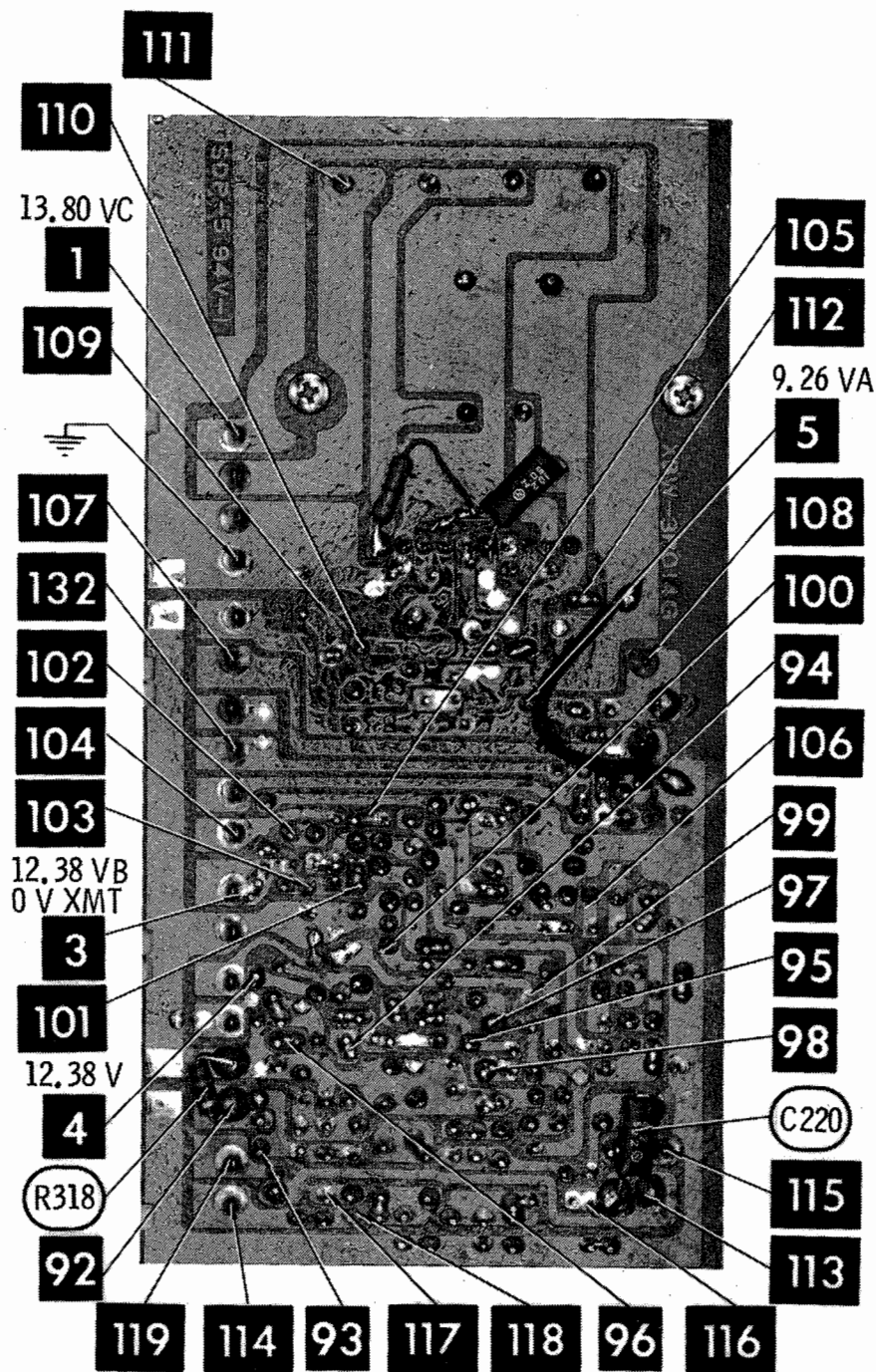
PLL BOARD



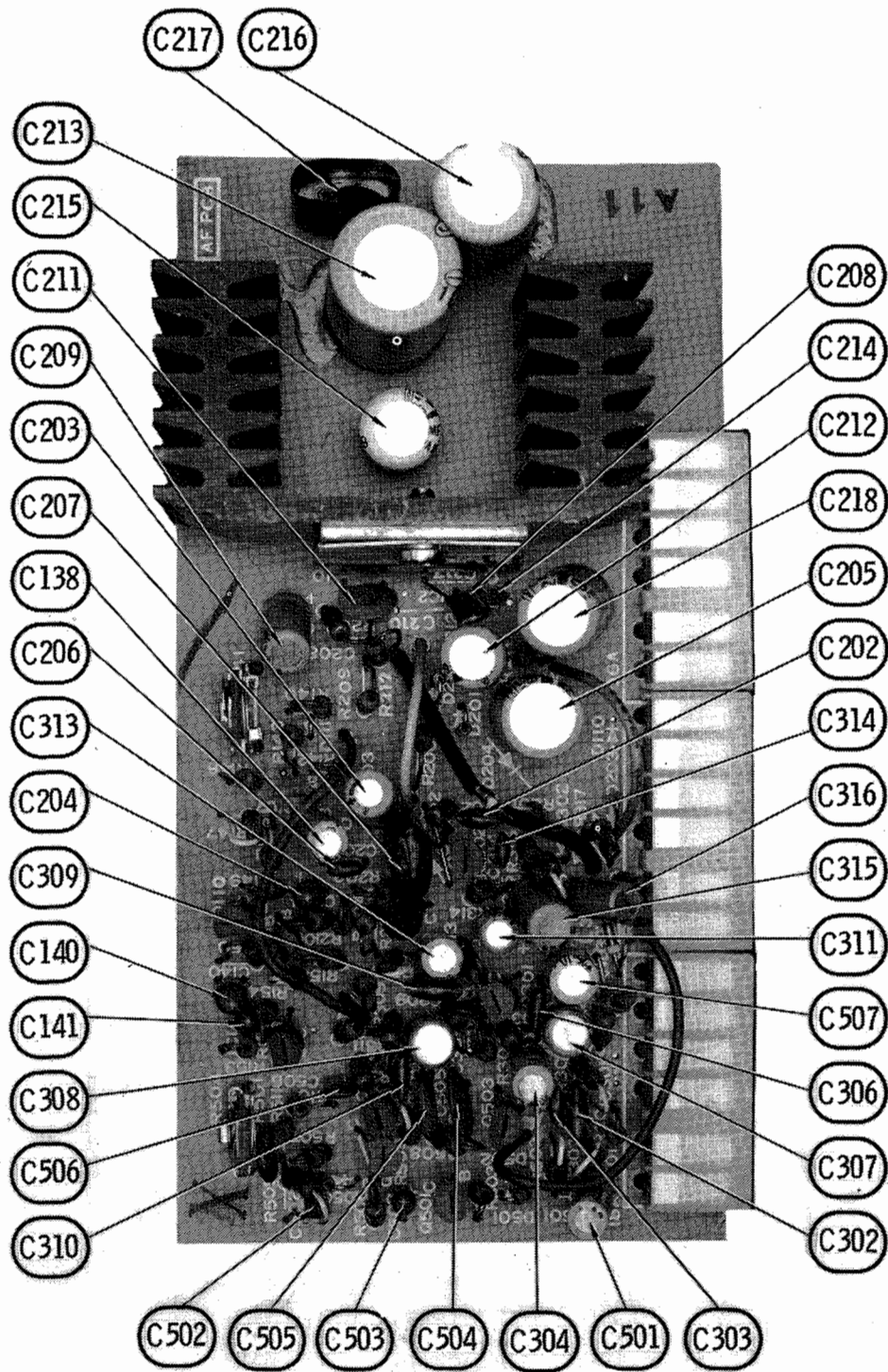
AUDIO BOARD



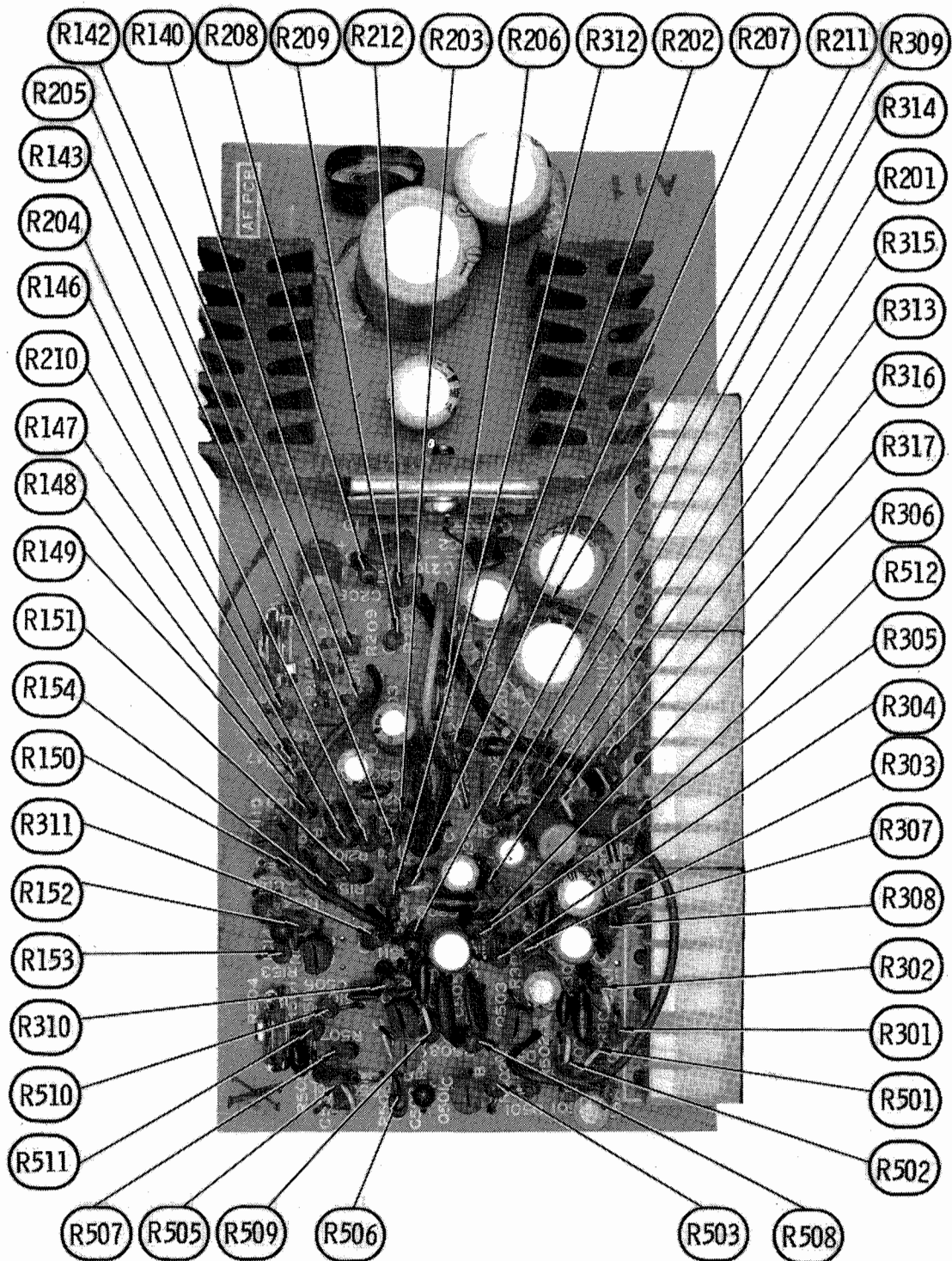
AUDIO BOARD



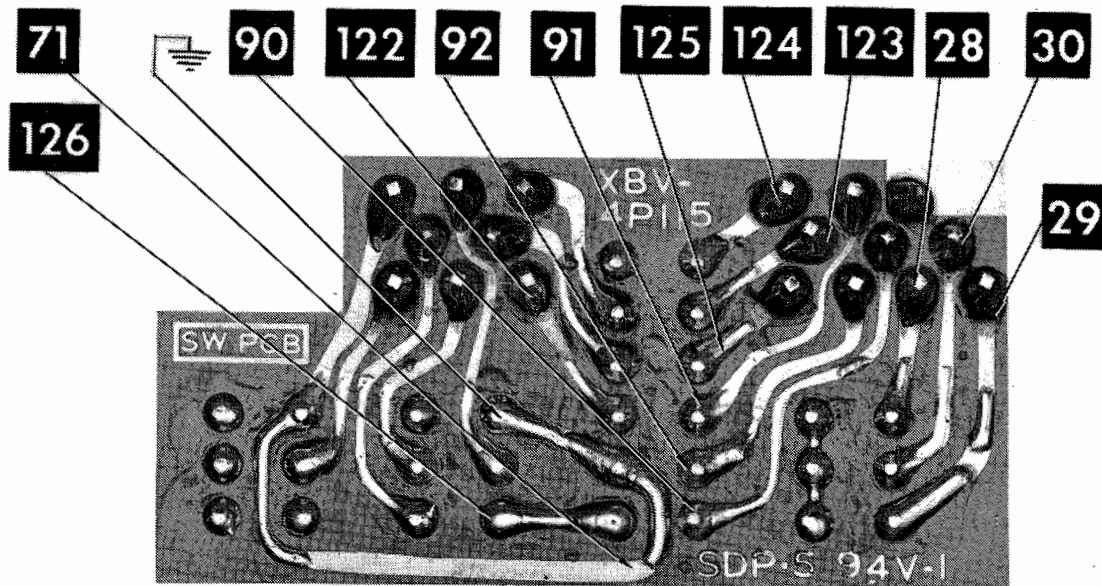
AUDIO BOARD



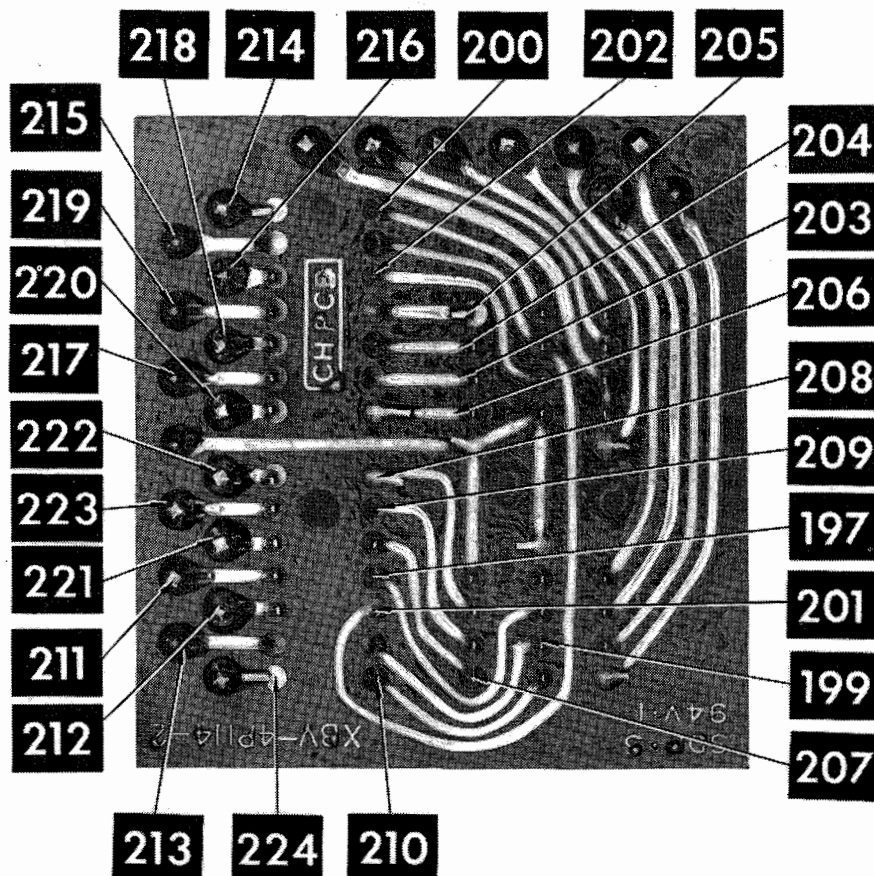
AUDIO BOARD



AUDIO BOARD

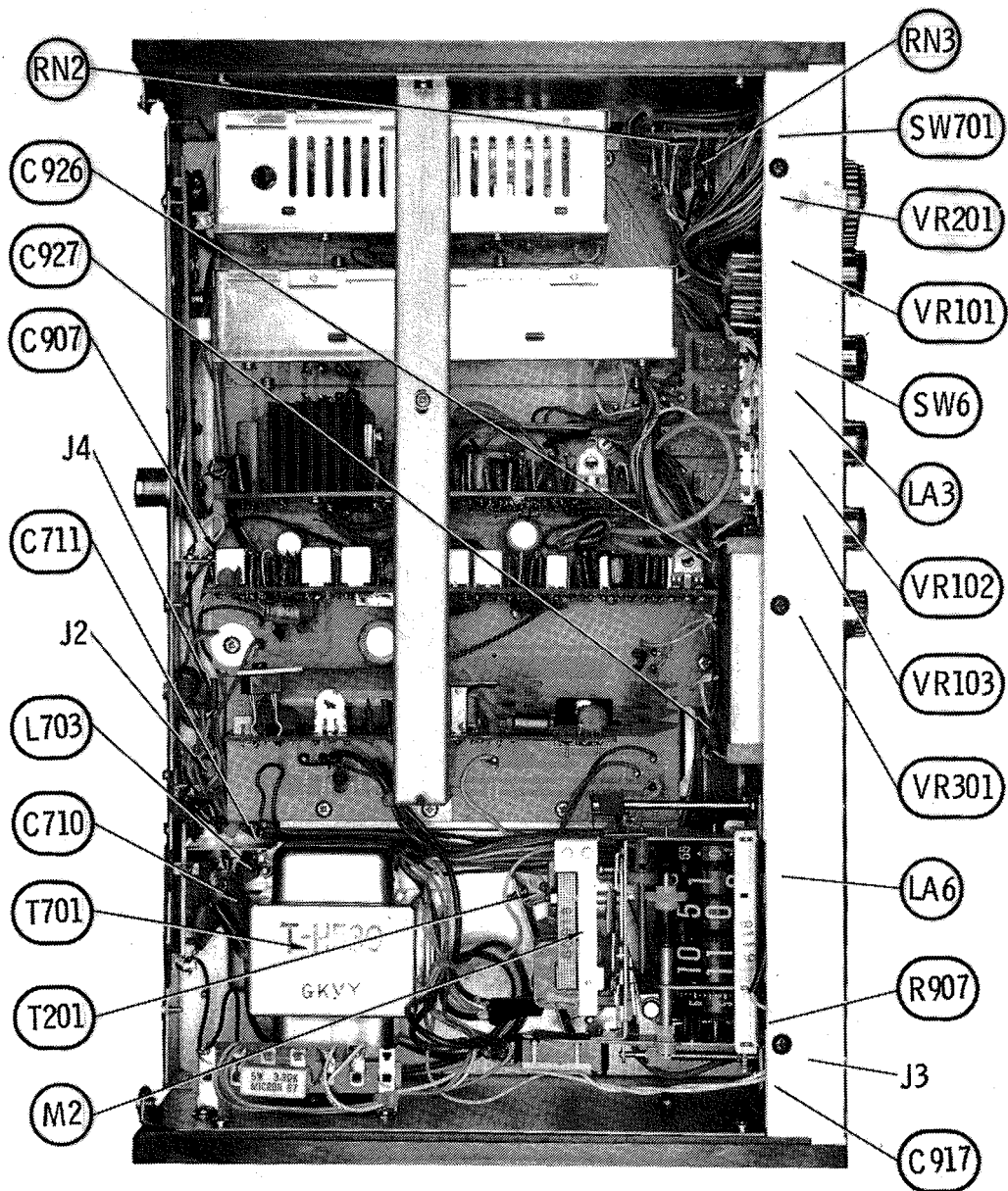


SWITCH BOARD

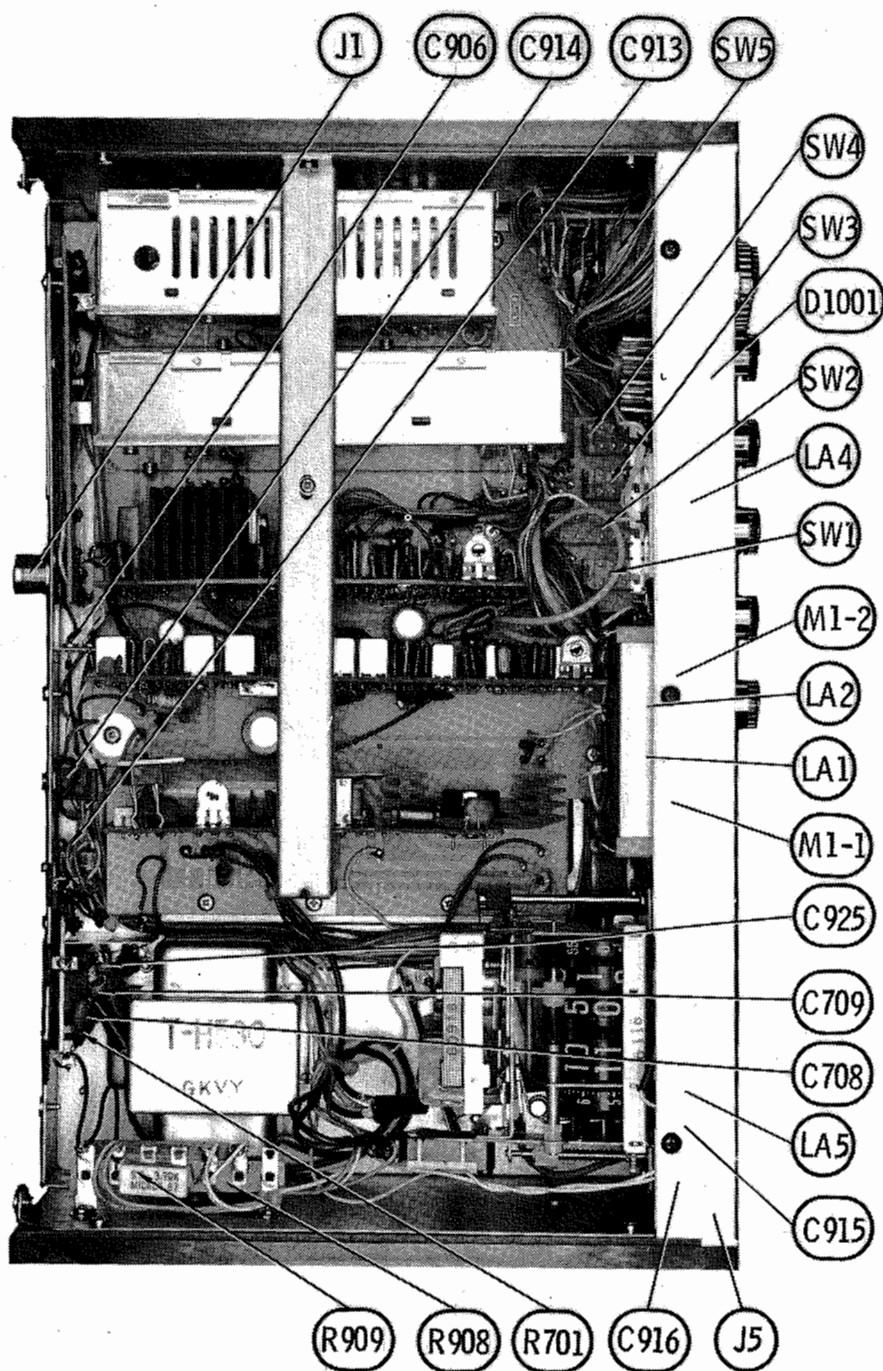


CH. SELECTOR BOARD

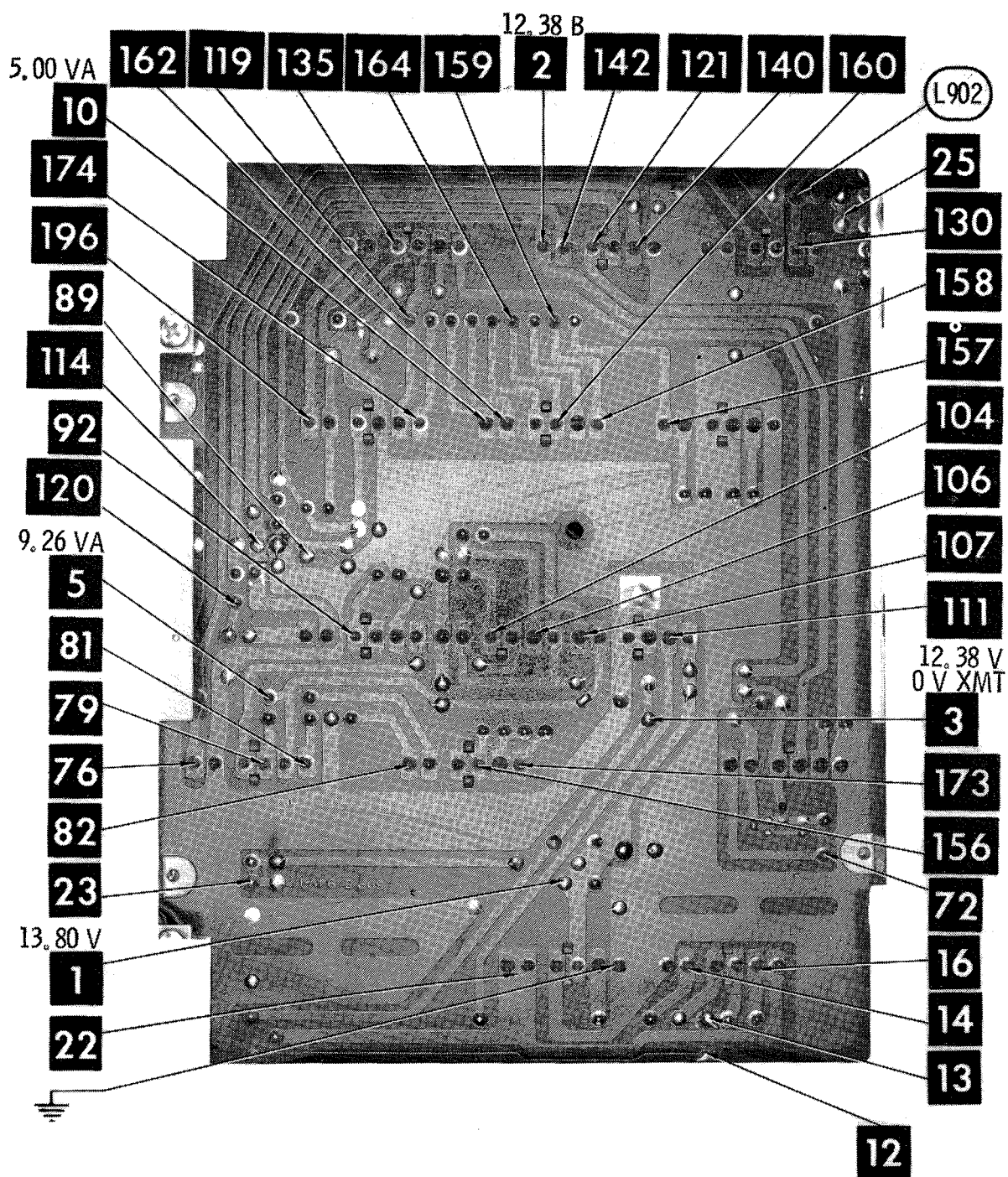
REALISTIC MODEL TRC-455



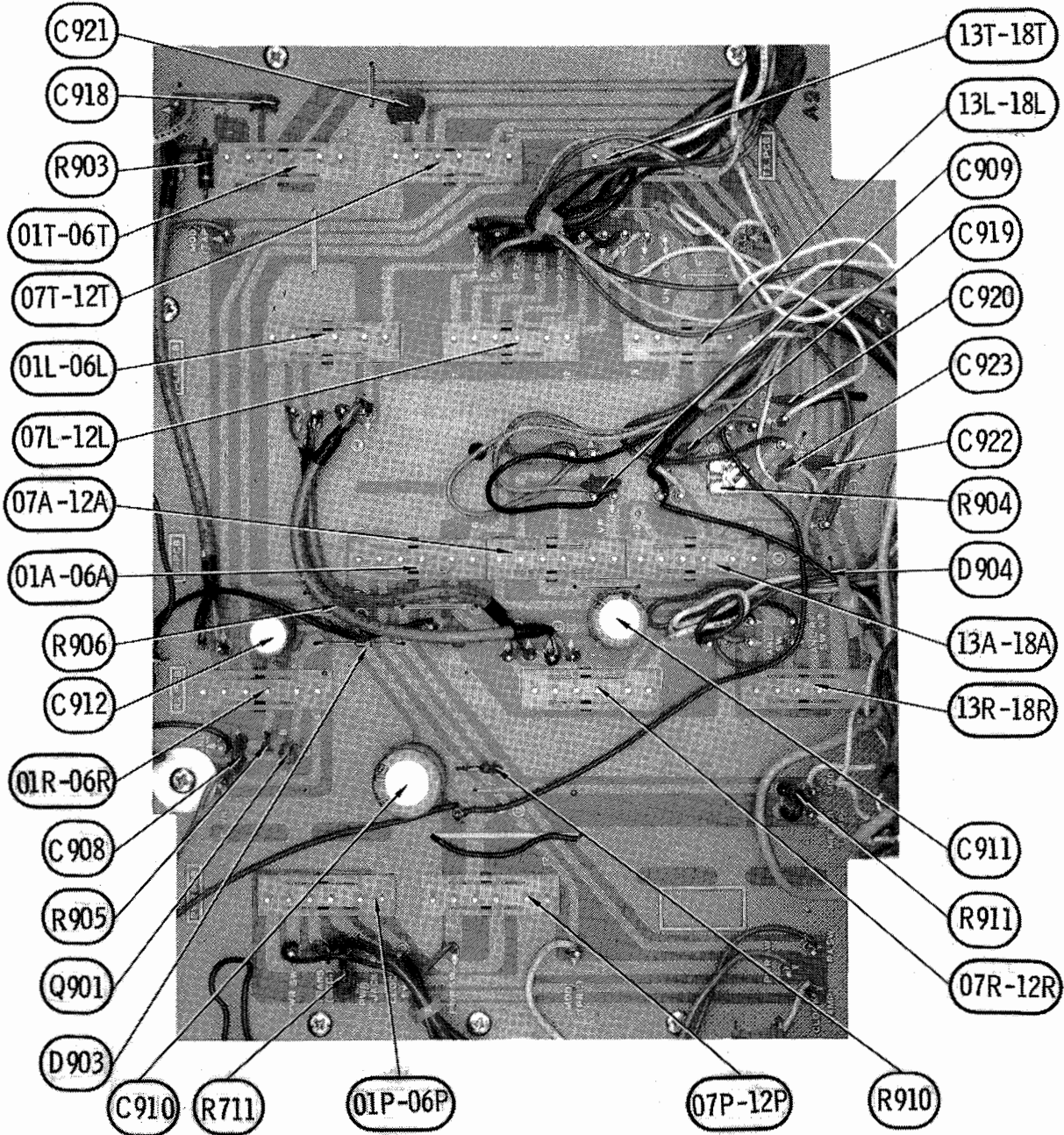
CHASSIS - TOP



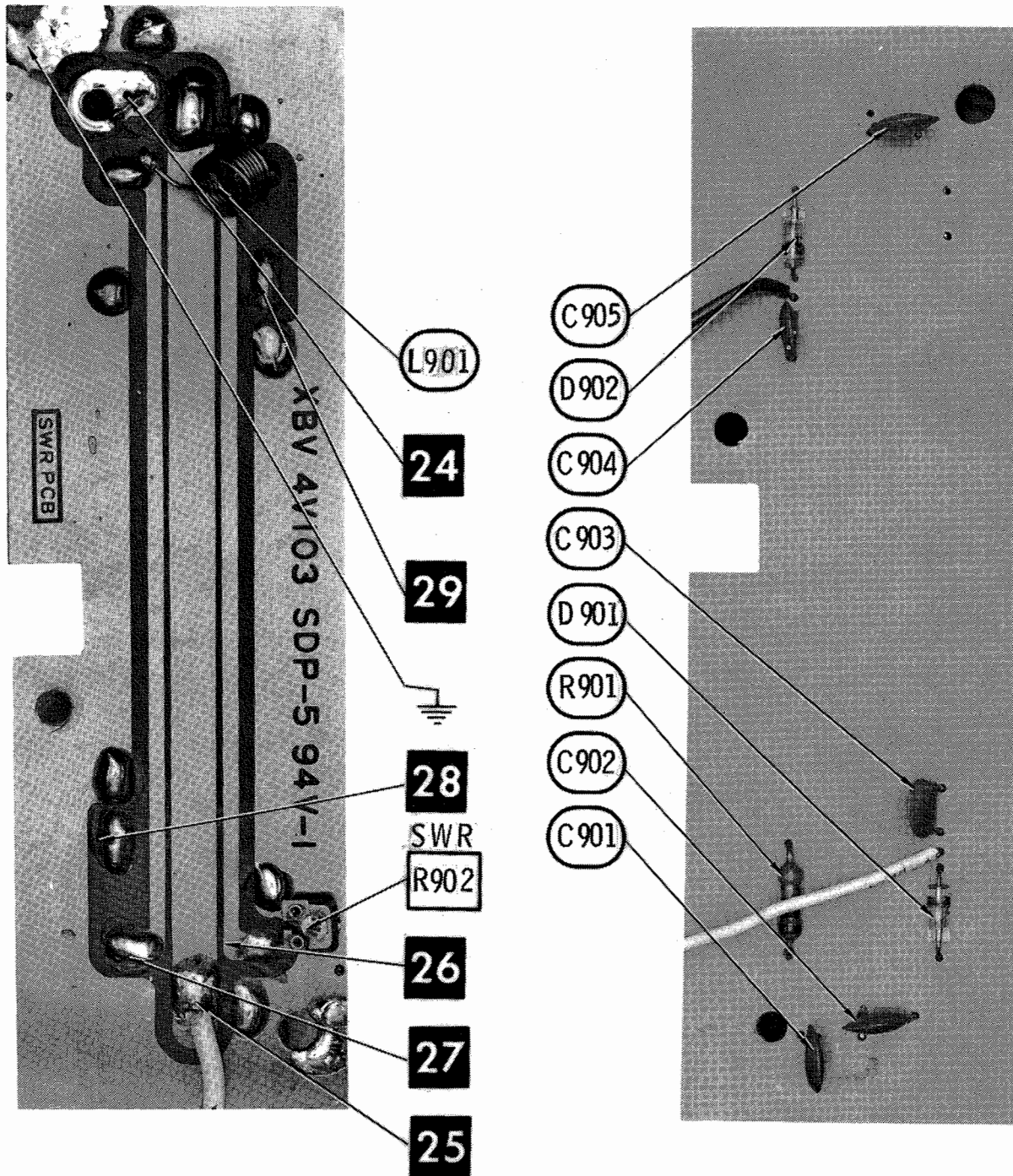
CHASSIS - TOP



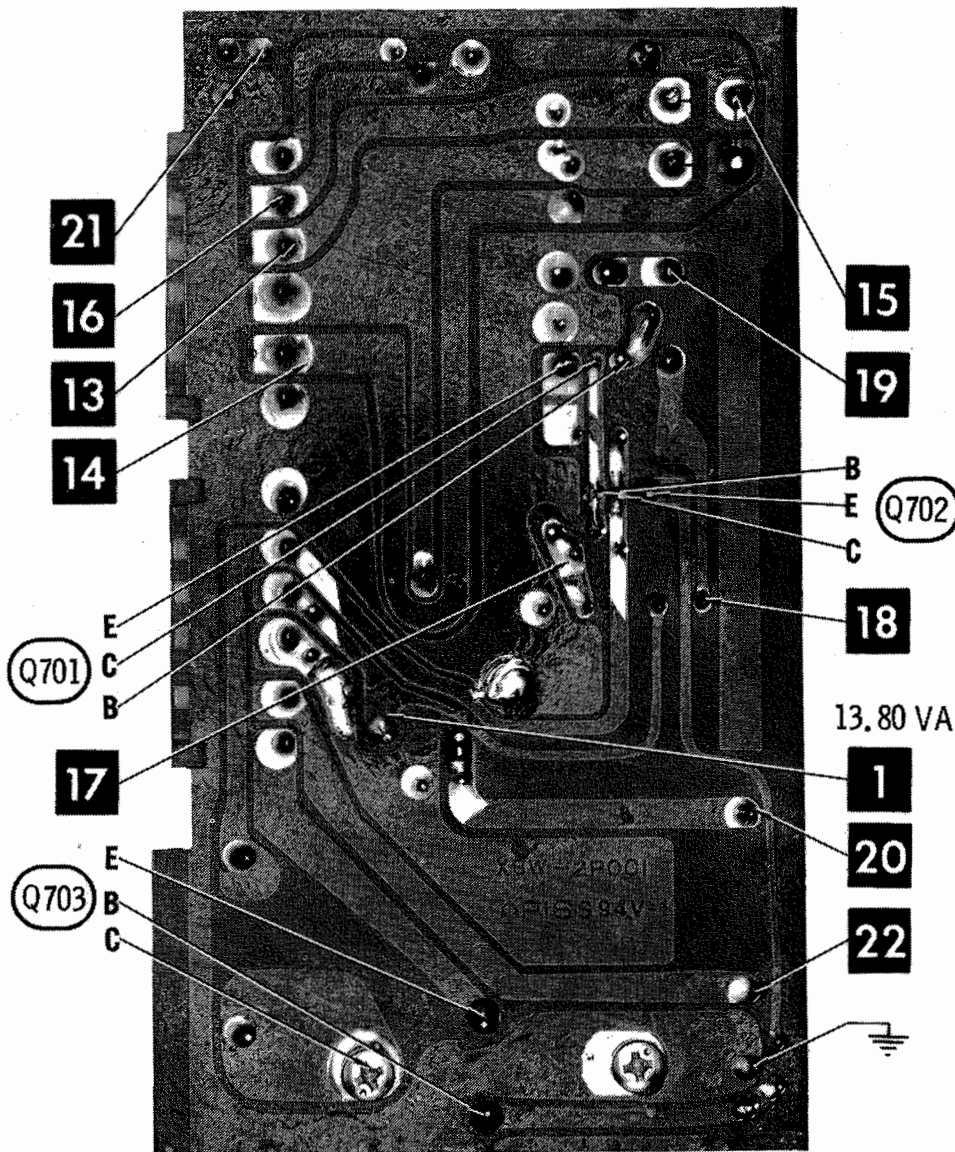
MOTHER BOARD



MOTHER BOARD

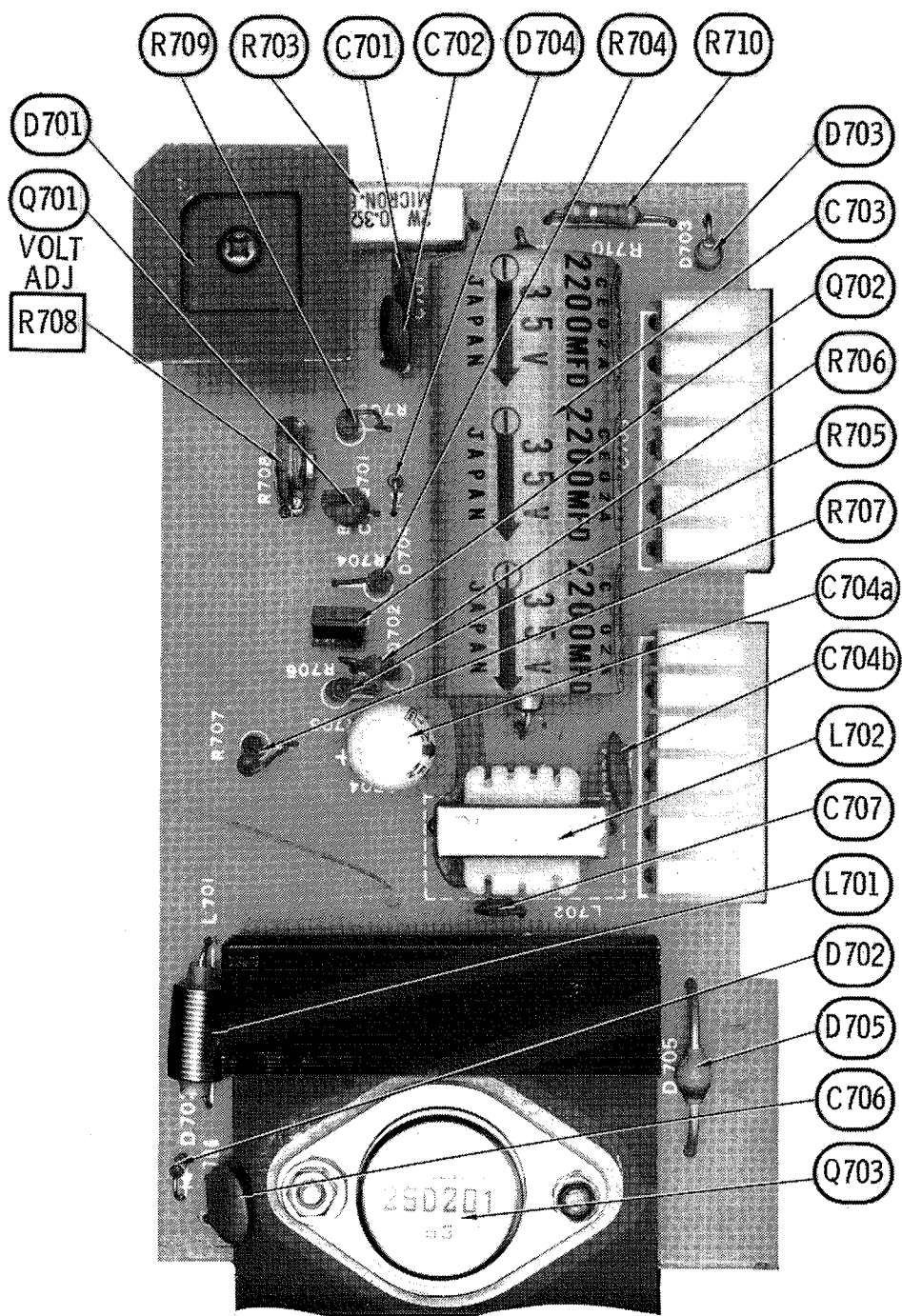


SWR BOARD

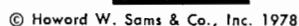


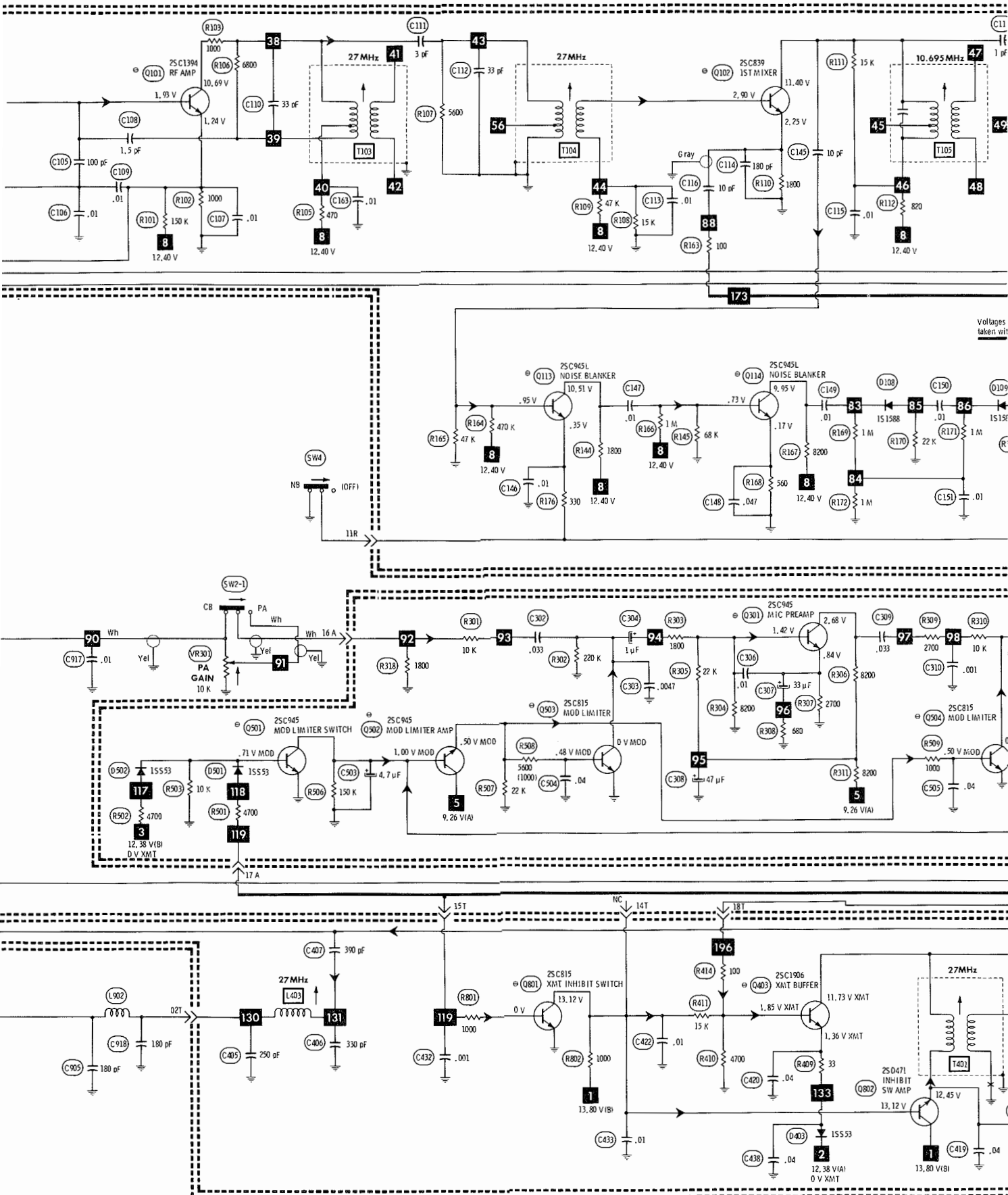
REALISTIC MODEL TRC-455

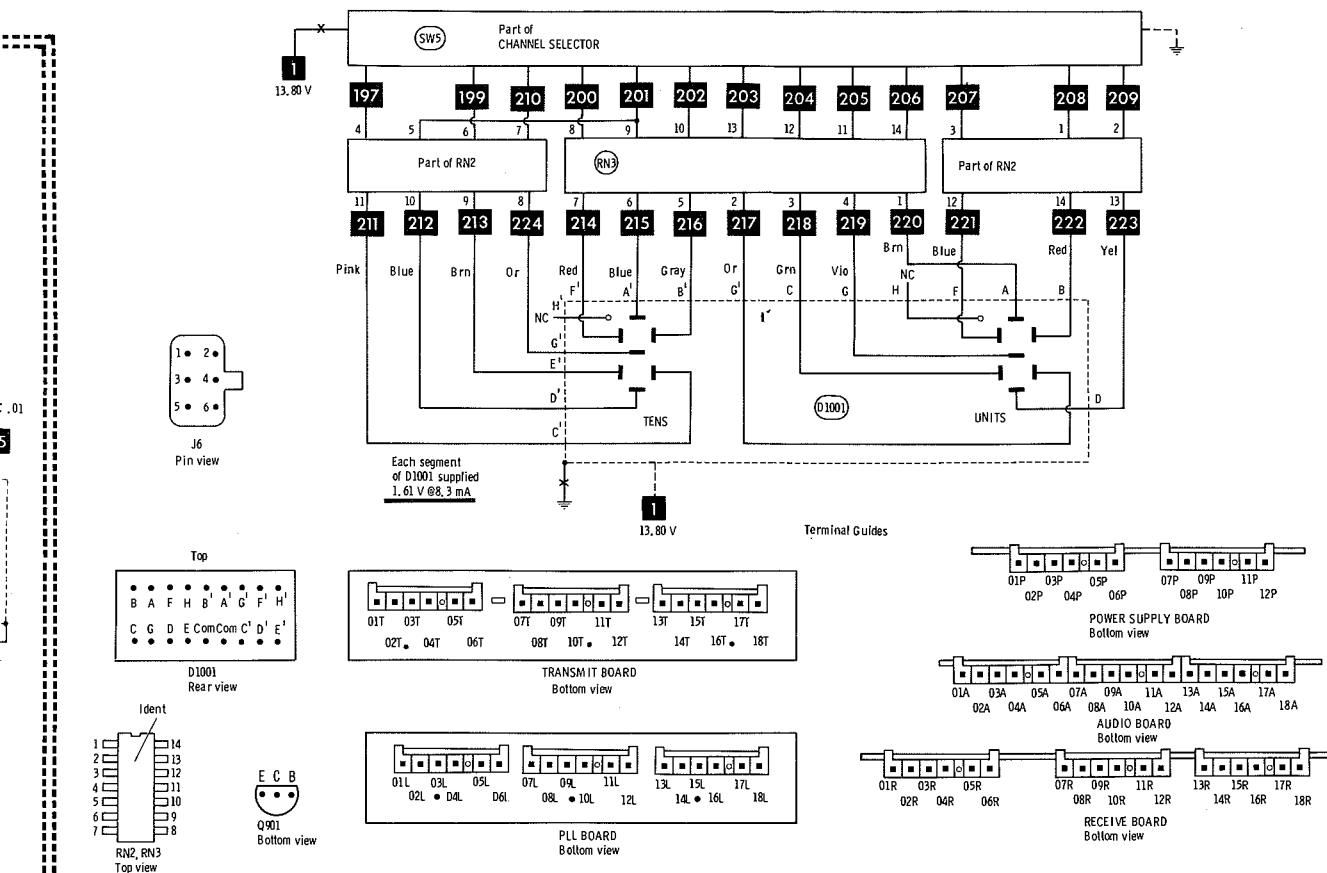
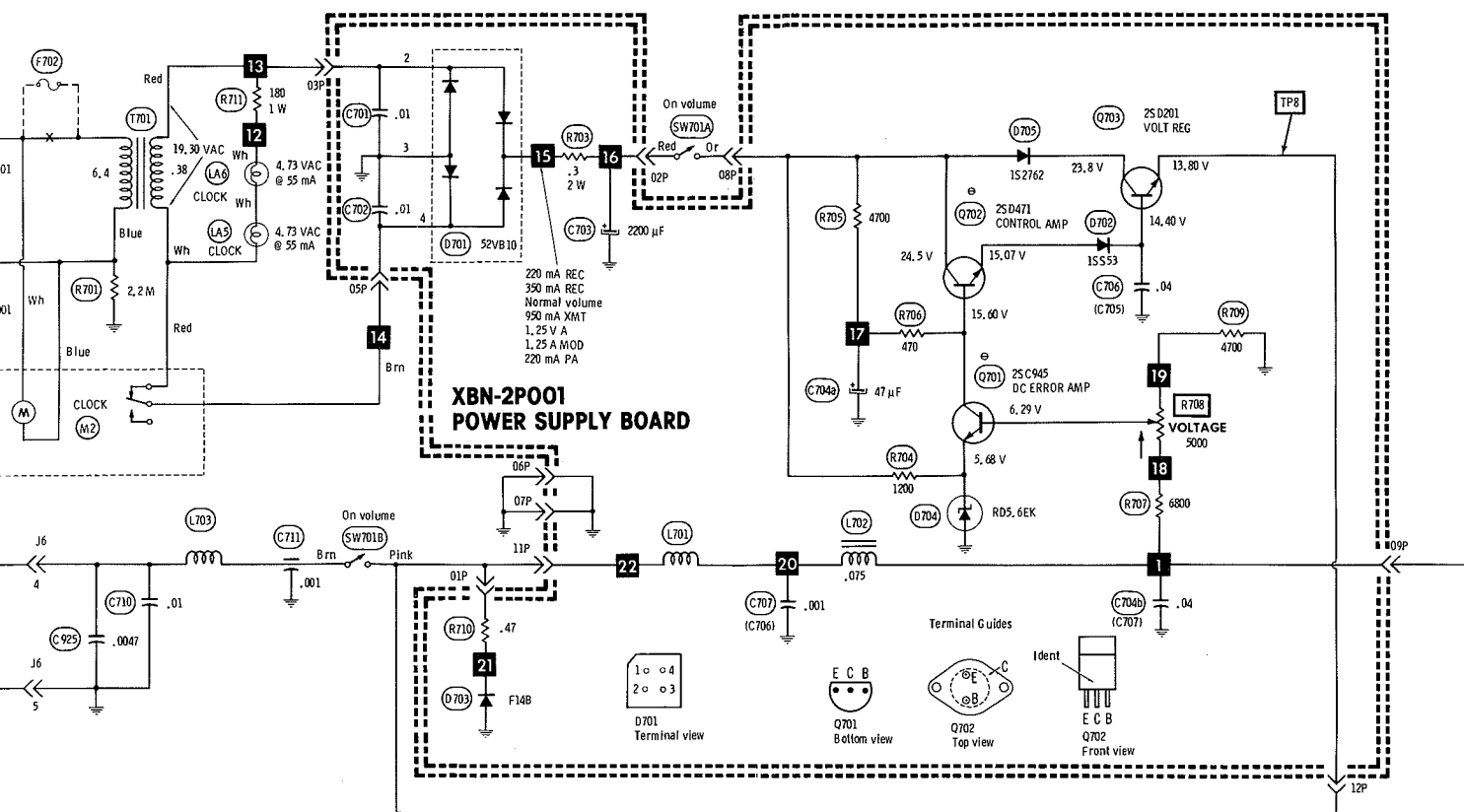
POWER SUPPLY BOARD



POWER SUPPLY BOARD







Part of XBW-3P014G AUDIO BOARD

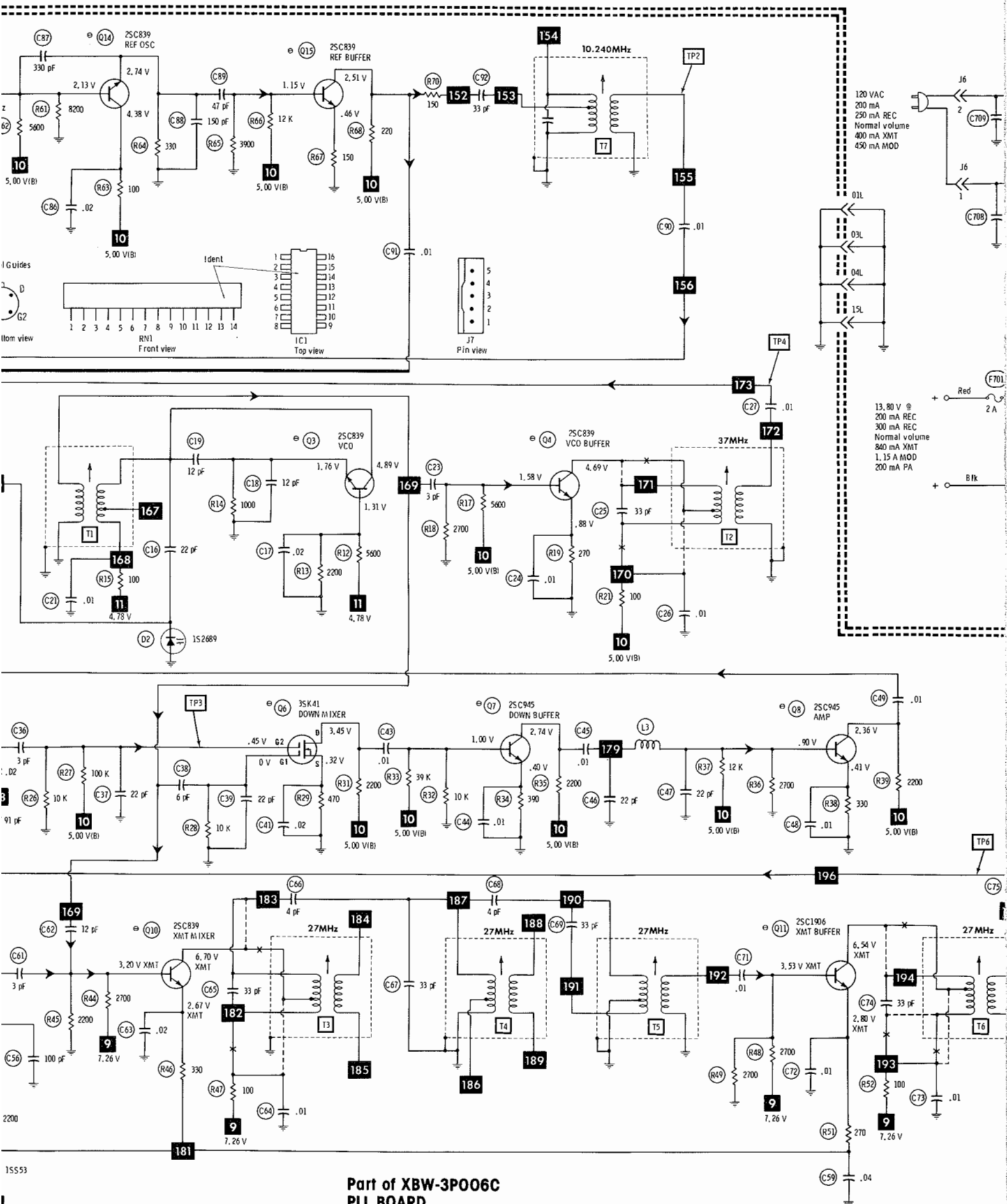
Part of XBW-3P014G AUDIO BOARD

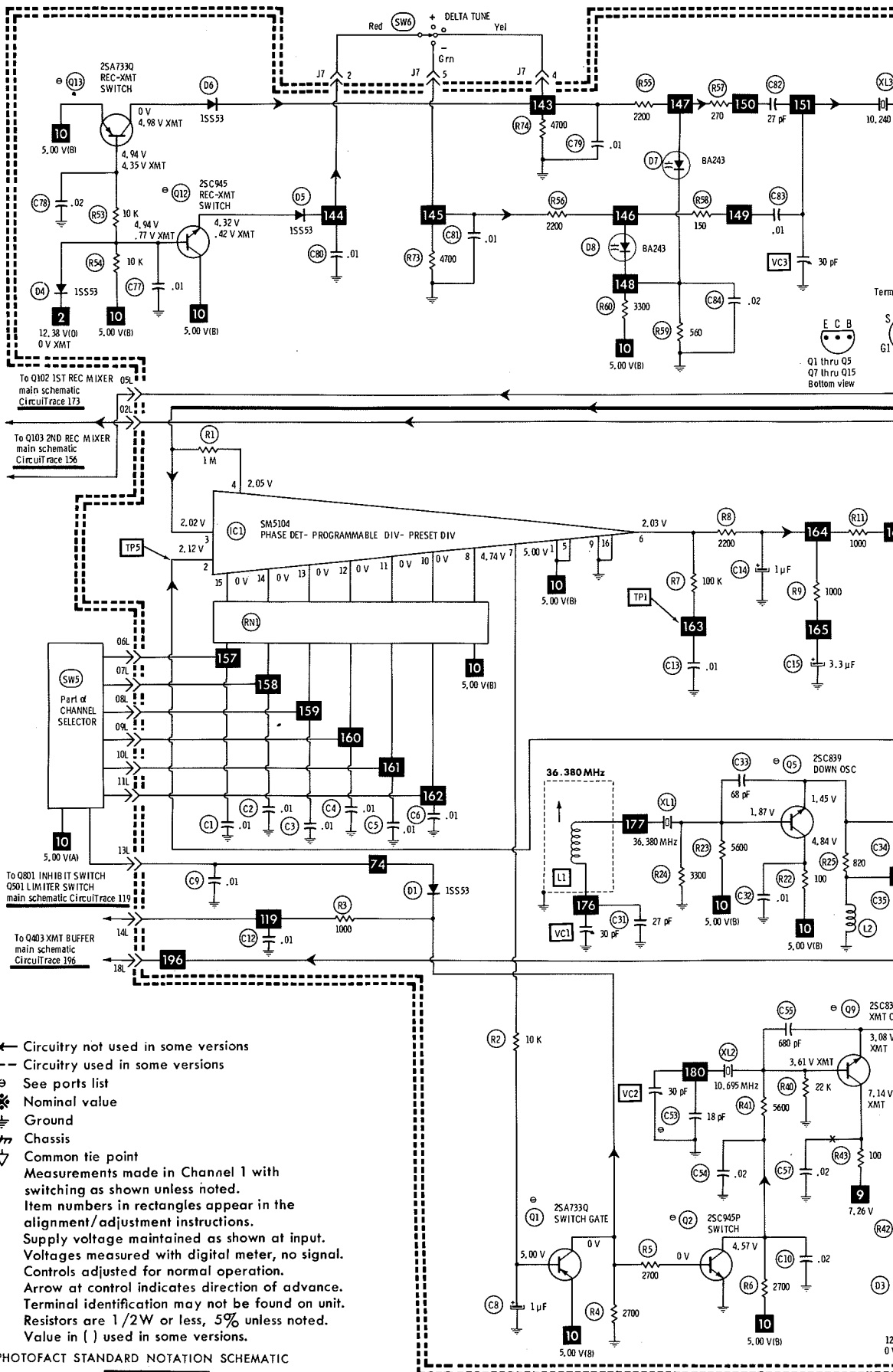
Part of XBW-3P007 XMT BOARD

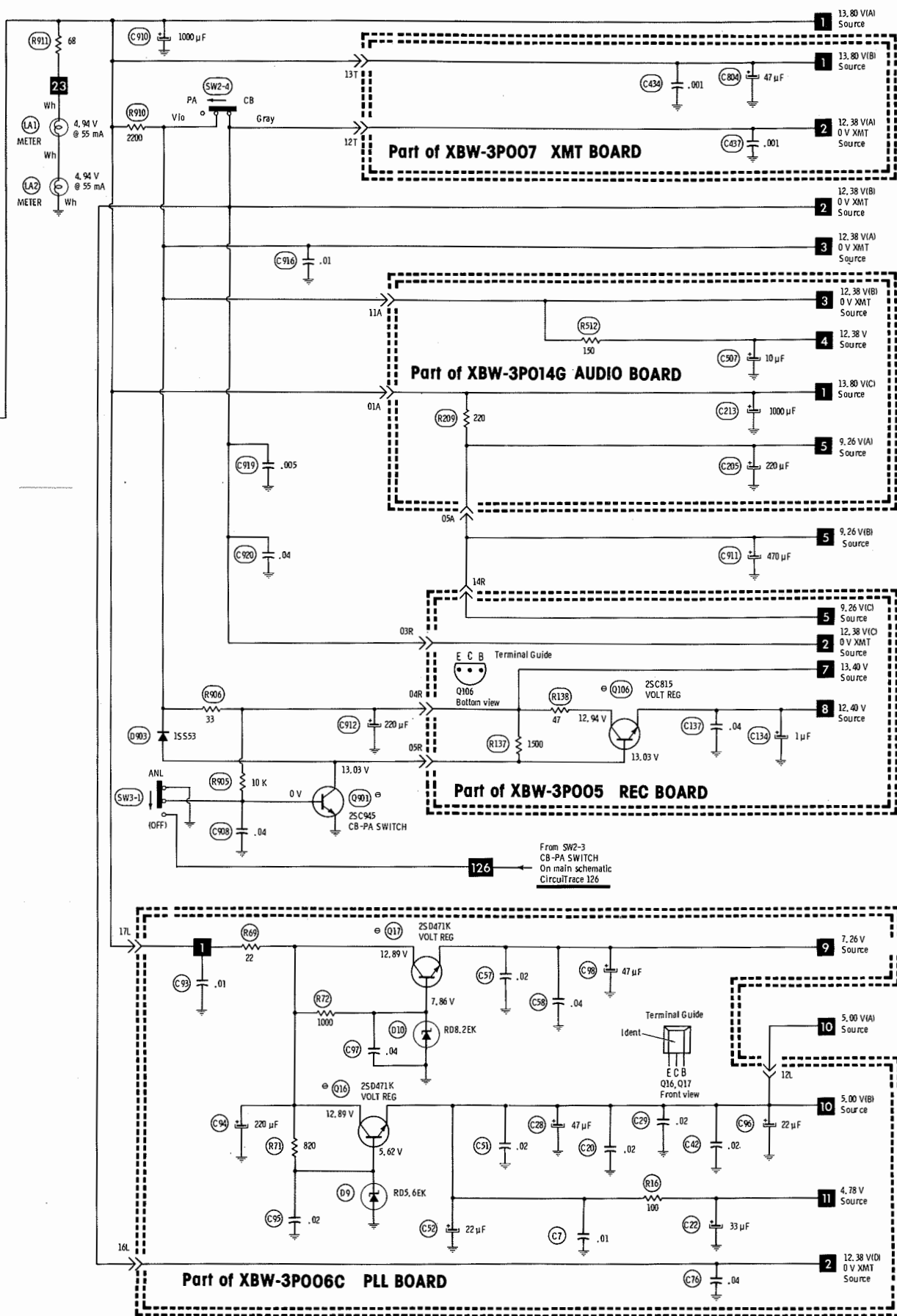
The schematic diagram illustrates the transmitter section of the XBW-3P007 XMT BOARD. It features two main active components: a 25C1957 XMT DRIVER (Q402) and a 25C1909 FINAL (Q401). The circuit is powered by a 12.42 V XMT supply and a 12.35 V XMT supply. The output is a 27 MHz signal.

Components and Connections:

- Q402 (25C1957 XMT DRIVER):** Connected to a 12.42 V XMT supply. Its output is coupled to a 27 MHz resonant circuit consisting of a coil (L407) and a capacitor (C414). This circuit is connected to a 27 MHz signal line (136).
- Q401 (25C1909 FINAL):** Connected to a 12.35 V XMT supply. Its output is coupled to a 27 MHz resonant circuit consisting of a coil (L404) and a capacitor (C414). This circuit is connected to a 27 MHz signal line (139).
- Capacitors:** Various capacitors are used for coupling, bypassing, and tuning, including C417, C418, C406, C414, C440, C407, C415, C425, C426, C429, C420, C411, C430, C413, C412, C405, C403, C402, C401, and C431.
- Resistors:** Resistors are used for biasing and load matching, including R406, R405, R404, R403, R402, R401, R412, and R601.
- Inductors:** Inductors are used for tuning and coupling, including L408, L407, and L404.







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.	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	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D2	1S2689	DX-0722			HEPR2502	REN 612			ECG612			ZEN-452
D3	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D4	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D5	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D6	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D7	BA243	DX-0723			HEPR2500	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D8	BA243	DX-0723			HEPR2500				ECG610			ZEN-450
D9	RD5, 6EK	DX-0727	GEZD-5, 6	ZM5, 6B		REN 136		RT-236	ECG5011	1N4734A	WEP1412	ZEN-450
D10	RD8, 2EK	DX-0729	GEZD-8, 2	ZM8, 2B		REN 5072		RT-257	ECG5016	1N4738A	WEP1417	
D101	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1S2473	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D102	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D103	1K60A	DX-0725	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
	1N60	DX-0725	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
	SD46	DX-0725	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D104	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D107	1K60A	DX-0725	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
	1N60	DX-0725	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
	SD46	DX-0725	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D108	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D109	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D111	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
D201	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D202	RD9, 1EK	DX-0728	GEZD-9, 1	ZB9, 1B		REN 139		RT-240	ECG139A	1N4739A	WEP1109	103-272
D203	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D204	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D301	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D302	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D402	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D403	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D406	F14B	DX-0721	GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	ECG116	1N4004	WEP156	212-76-02
	F14C	DX-0721	GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	ECG116	1N4004	WEP156	212-76-02
	V06C	DX-0721	GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	ECG116	1N4004	WEP156	212-76-02
D407	F14B	DX-0721	GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	ECG116	1N4004	WEP156	212-76-02
	F14C	DX-0721	GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	ECG116	1N4004	WEP156	212-76-02
	V06C	DX-0721	GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	ECG116	1N4004	WEP156	212-76-02
D501	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D502	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D503	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D701	S2VB10	DX-0726							ECG5312			
D702	1S553	DX-0255	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062	
	1S2473	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
	1N4448	DX-0255	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D703	F14B	DX-0721	GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	ECG116	1N4004	WEP156	212-76-02
	F14C	DX-0721	GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	ECG116	1N		

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.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
Q1	2SA733Q		GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	2SA733	WEP916	121-933
	2SA733		GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	2SA733	WEP916	121-933
	2SA733P		GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	2SA733	WEP916	121-933
	2SA564Q		GE-65	PTC103*	HEPS0019*	REN 234	SK3114	RT-303	ECG234	2SA564	WEP564	121-879
Q2	2SA564R		GE-65	PTC103*	HEPS0019*	REN 234	SK3114	RT-303	ECG234	2SA564	WEP564	121-879
	2SA564S		GE-65	PTC103*	HEPS0019*	REN 234	SK3114	RT-303	ECG234	2SA564	WEP564	121-879
	2SC945P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
	2SC945K		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q3	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	121-29000
	2SC828S		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	121-29000
	2SC828T		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	121-29000
	2SC839		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
Q4	2SC839F		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC839H		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC829B		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC829	WEP829	121-29000*
	2SC829C		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC829	WEP829	121-29000*
Q5	2SC839		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC839F		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC839H		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC829	WEP829	121-29000*
Q6	3SK40		GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222		WEP905	121-826
	3SK41		GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222		WEP905	121-826
	3SK45		GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222		WEP905	121-826
	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q7	2SC945K		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
	2SC945P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	121-29000
	2SC828S		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	121-29000
Q8	2SC828T		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	121-29000
	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
	2SC945K		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
	2SC945P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q9	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	121-29000
	2SC828S		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	121-29000
	2SC828T		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	121-29000
	2SC839		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
Q10	2SC839F		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC839H		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC829	WEP829	121-29000*
	2SC829C		GE-20*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC829	WEP829	121-29000*
Q11	2SC839		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC839F		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC839H		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC829	WEP829	121-29000*
Q12	2SC829C		GE-20*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC829	WEP829	121-29000*
	2SC1906		GE-86	PTC132*	HEPS0016*	REN 108*	SK3039*	RT-113*	ECG108*	2SC1717	WEP56*	121-104
	2SC717		GE-17*	PTC132*	HEPS0020*	REN 161	SK3018*	RT-134	ECG161*	2SC717	WEP1717	121-883
	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q13	2SC945K		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
	2SC945P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	121-29000
	2SC828S		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	121-29000
Q14	2SC828T		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	121-29000
	2SA733Q		GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	2SA733	WEP916	121-933
	2SA733		GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	2SA733	WEP916	121-933
	2SA733P		GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	2SA733	WEP916	121-933
Q15	2SA564Q		GE-65	PTC103*	HEPS0019*	REN 234	SK3114	RT-303	ECG234	2SA564	WEP564	121-879
	2SA564R		GE-65	PTC103*	HEPS0019*	REN 234	SK3114	RT-303	ECG234	2SA564	WEP564	121-879
	2SA564S		GE-65	PTC103*	HEPS0019*	REN 234	SK3114	RT-303	ECG234	2SA564	WEP564	121-879
	2SC839		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
Q16	2SC839F		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC839H		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC829	WEP829	121-29000*
	2SC829C		GE-20*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC829	WEP829	121-29000*
Q17	2SD471		GE-268	PTC144*	HEPS3001*	REN 289	SK3124	RT-114*	ECG289		WEP910	121-1014
	2SD471K		GE-268	PTC144*	HEPS3001*	REN 289	SK3124	RT-114*	ECG289		WEP910	121-1014
	2SD471L		GE-268	PTC144*	HEPS3001*	REN 289	SK3124	RT-114*	ECG289		WEP910	121-1014
	2SD471		GE-268	PTC144*	HEPS3001*	REN 289	SK3124	RT-114*	ECG289		WEP910	121-1014
Q101	2SD471K		GE-268	PTC144*	HEPS3001*	REN 289	SK3124	RT-114*	ECG289		WEP910	121-1014
	2SD471L		GE-268	PTC144*	HEPS3001*	REN 289	SK3124	RT-114*	ECG289		WEP910	121-1014
	2SD471		GE-268	PTC144*	HEPS3001*	REN 289	SK3124	RT-114*	ECG289		WEP910	121-1014
	2SD471		GE-268	PTC144*	HEPS3001*	REN 289	SK3124	RT-114*	ECG289		WEP910	121-1014
Q102	2SC1394		GE-17*	PTC136*	HEPS0025*	REN 107*	SK3018*	RT-107*	ECG107*	2SC1394	WEP535*	121-522
	2SC1394K		GE-17*	PTC136*	HEPS0025*	REN 107*	SK3018*	RT-107*	ECG107*	2SC1394	WEP535*	121-522
	2SC1394L		GE-17*	PTC136*	HEPS0025*	REN 107*	SK3018*	RT-107*	ECG107*	2SC1394	WEP535*	121-522
	2SC1359		GE-212	PTC121*	HEPS0014*	REN 199	SK3122	RT-308	ECG229*	2SC1359	WEP66	121-29000
Q103	2SC839		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC839F		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC839H		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC829	WEP829	121-29000*
Q104	2SC829C		GE-20*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC829	WEP829	121-29000*
	2SC839		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC839F		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC839H		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
Q105	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC829	WEP829	121-29000*
	2SC829C		GE-20*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC829	WEP829	121-29000*
	2SC839		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*
	2SC839F		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-29000*

REALISTIC MODEL TRC-455

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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.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
Q105	2SC839		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-Z9000*
	2SC839F		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-Z9000*
	2SC839H		GE-61*	PTC132*	HEPS0015*	REN 123A*	SK3444	RT-308	ECG123A*	2SC839	WEP736*	121-Z9000*
	2SC829B		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	2SC829	WEP829	121-Z9000*
	2SC829C		GE-20*	PTC139*	HEPS0015*	REN 123A	SK3444	RT-308	ECG229*	2SC829	WEP829	121-Z9000*
Q106	2SC815		GE-210*	PTC170*	HEPS0015*	REN 123A*	SK3038*	RT-302	ECG123A*	2SC815	WEP736*	121-1014
	2SC815L		GE-210*	PTC170*	HEPS0015*	REN 123A*	SK3038*	RT-302	ECG123A*	2SC815	WEP736*	121-1014
	2SC815K		GE-210*	PTC170*	HEPS0015*	REN 123A*	SK3038*	RT-302	ECG123A*	2SC815	WEP736*	121-1014
	2SC1347Q		GE-88	PTC178	HEPS3002*	REN 192*	SK3137	RT-182*	ECG192*	2SC815	WEP753	121-1014
	2SC1347R		GE-88	PTC178	HEPS3002*	REN 192*	SK3137	RT-182*	ECG192*		WEP753	
Q107	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945K		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
		S,T										
Q108	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945K		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
	S,T											
Q109	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945K,P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
	S,T											
Q110	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945K,P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
	S,T											
Q111	2SC945L		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945K,P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
	S,T											
Q112	2SC815		GE-210*	PTC170*	HEPS0015*	REN 123A*	SK3038*	RT-302	ECG123A*	2SC815	WEP736*	121-1014
	2SC815K,L		GE-210*	PTC170*	HEPS0015*	REN 123A*	SK3038*	RT-302	ECG123A*	2SC815	WEP736*	121-1014
	2SC1347Q		GE-88	PTC178	HEPS3002*	REN 192*	SK3137	RT-182*	ECG192*		WEP753	
	R											
Q113	2SC945L		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945K,P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
	S,T											
Q114	2SC945L		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945K,P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
	S,T											
Q115	2SC945L		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945K,P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
	S,T											
Q116	2SC945L		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945K,P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
	S,T											
Q201	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945K,P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
	S,T											
Q301	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945K,P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
	S,T											
Q302	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945K,P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
	S,T											
Q401	2SC1909	(14)	GE-215	PTC186		REN 235	SK3197	RT-146	ECG235		WEP785	
	2SC1974	(12)	GE-337	PTC186		REN 235	SK3197	RT-146	ECG235	2SC1306	WEP785	
	2SC1816		GE-216	PTC186		REN 295	SK3197	RT-146	ECG295		WEP785	
Q402	2SC1957	(13)	GE-270	PTC180	HEPS3044	REN 295	SK3197		ECG295		WEP913	
	2SC1846		GE-336	PTC904		REN 295	SK3253		ECG295	2SC496	WEP913	800-767
	2SC781		GE-219	PTC179	HEPS3001	REN 195A	SK3048	RT-306	ECG195A	2SC781	WEP755	
Q403	2SC1760		GE-276	PTC180		REN 306	SK3197	RT-310	ECG306		WEP771	
	2SC1906		GE-86	PTC132*	HEPS0016*	REN 108*	SK3039*	RT-113*	ECG108*	2SC717*	WEP56*	ZEN-104
	2SC717		GE-17*	PTC132*	HEPS0020*	REN 161	SK3018*	RT-134	ECG161*	2SC717	WEP1717	121-883
Q501	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945K,P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
	S,T											
Q502	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945K,P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
	S,T											
Q503	2SC815		GE-210*	PTC170*	HEPS0015*	REN 123A*	SK3038*	RT-302	ECG123A*	2SC815	WEP736*	121-1014
	2SC815K,P		GE-210*	PTC170*	HEPS0015*	REN 123A*	SK3038*	RT-302	ECG123A*	2SC815	WEP736*	121-1014
	2SC1347Q		GE-88	PTC178	HEPS3002*	REN 192*	SK3137	RT-182*	ECG192*		WEP753	
	R											
Q504	2SC815		GE-210*	PTC170*	HEPS0015*	REN 123A*	SK3038*	RT-302	ECG123A*	2SC815	WEP736*	121-1014
	2SC815K,P		GE-210*	PTC170*	HEPS0015*	REN 123A*	SK3038*	RT-302	ECG123A*	2SC815	WEP736*	121-1014
	2SC1347Q		GE-88	PTC178	HEPS3002*	REN 192*	SK3137	RT-182*	ECG192*		WEP753	
	R											
Q601	2SD471K		GE-268	PTC144*	HEPS3001*	REN 289	SK3124	RT-114*	ECG289		WEP910	121-1014
	2SD471L		GE-268	PTC144*	HEPS3001*	REN 289	SK3124	RT-114*	ECG289		WEP910	121-1014
	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
Q602	2SC945K,P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
		S,T										
Q701	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC945K,P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-Z9000
	2SC828R		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119
	S,T											

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.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
Q702	2SD471K		GE-268	PTC144*	HEPS3001*	REN 289	SK3124	RT-114*	ECG289		WEP910	121-1014
Q703	2SD471L		GE-268	PTC144*	HEPS3001*	REN 289	SK3124	RT-114*	ECG289		WEP910	121-1014
Q801	2SD201		GE-75	PTC118	HEPS7004	REN 19	SK3027	RT-131	ECG130		WEP247	
	2SC815		GE-210*	PTC170*	HEPS0015*	REN 123A*	SK3038*	RT-302	ECG123A*	2SC815	WEP736*	121-1014
	2SC815K,L		GE-210*	PTC170*	HEPS0015*	REN 123A*	SK3038*	RT-302	ECG123A*	2SC815	WEP736*	121-1014
	2SC1347Q,R		GE-88	PTC178	HEPS3002*	REN 192*	SK3137	RT-182*	ECG192*		WEP753	
Q802	2SD471K		GE-268	PTC144*	HEPS3001*	REN 289	SK3124	RT-114*	ECG289		WEP910	121-1014
Q901	2SD471L		GE-268	PTC144*	HEPS3001*	REN 289	SK3124	RT-114*	ECG289		WEP910	121-1014
	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
	2SC945K,P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
	2SC828R,S,T		GE-61*	PTC139*	HEPS0015*	REN 199	SK3444	RT-302	ECG199	2SC828	WEP828	ZEN-119

* Lead configuration may vary from original.

(12) 15 Watts @ 3 Amps.

(13) 750 Watts @ 1 Amp.

(14) 10 Watts @ 3 Amps.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C8	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C14	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C15	3.3 50V		PC5-50	VTT3R3A50	QV1-25	EV-1618
C22	33 10V			TDC336M010FL	QDT1-89	SD10-339
C28	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C52	22 10V		PC25-25	VTT22B16	QV1-55	EV-1224
C94	220 25V		PC250-25	VTT220K25	QV1-119	EV-1340
C96	22 10V		PC25-25	VTT22B16	QV1-55	EV-1224
C98	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C130	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C134	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C135	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C138	4.7 35V		PC5-50	VTT4R7B50	QV1-29	EV-1519
C140	2.2 25V			TDC226M035GL	QDT1-83	SD35-229
C141	.47 35V			TDC474M050EL	QDT1-19	SD50-R479
C144	10 10V			TDC106M025FL	QDT1-64	SD25-109
C160	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C164	33 25V		PC30-25	VTT33025	QV1-63	EV-1325
C165	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C166	100 10V		PC100-10	VTT100E10	QV1-93	EV-1130
C203	10 25V		PC10-25	VTT10B25	QV1-43	EV-1322
C204	10 10V			TDC106M025FL	QDT1-64	SD25-109
C205	220 16V		PC250-25	VTT220H16	QV1-117	EV-1240
C209	10 25V		PC10-25	VTT10B25	QV1-43	EV-1322
C212	47 25V		PC50-25	VTT47E25	QV1-75	EV-1326
C213	1000 25V		WBR1000-25*	VTT1000M25	QV1-185	EV-1360
C215	100 16V		PC100-16	VTT100F16	QV1-95	EV-1230
C216	470 25V		WBR500-25*	VTT470M25	QV1-153	EV-1350
C218	220 25V		PC250-25	VTT220K25	QV1-119	EV-1340
C304	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C307	33 10V		PC30-25	VTT33B10	QV1-61	EV-1125
C308	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C311	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C313	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C315	4.7 25V		PC5-50	VTT4R7B50	QV1-27	EV-1319
C316	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C501	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C503	4.7 6.3V			TDC475M010EL	QDT1-48	SD10-4R79
C507	10 25V		PC10-25	VTT10B25	QV1-43	EV-1322
C602	4.7 25V		PC5-50	VTT4R7B50	QV1-27	EV-1319
C703	2200 35V		WBR2000-50	TC50200A	QEI-648	TVA-1318.3
C704A	47 35V		PC50-50	VTT47F35	QV1-77	EV-1426
C804	47 16V		PC50-16	VTT47D16	QV1-73	EV-1226
C910	1000 25V		WBR1000-25*	VTT1000M25	QV1-185	EV-1360
C911	470 16V		PC500-16	VTT470K16	QV1-151	EV-1250
C912	220 16V		PC250-25	VTT220H16	QV1-117	EV-1240
C926	100 3V			TDC107M010GL	QDT1-111	SD10-1009
C927	100 3V			TDC107M010GL*	QDT1-111	SD10-1009

* Axial replacement for radial device.

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	.01		UK50-103	N22	MAG5011		
C2	.01		UK50-103		MAG5011		
C3	.01		UK50-103		MAG5011		
C4	.01		UK50-103		MAG5011		
C5	.01		UK50-103		MAG5011		
C6	.01		UK50-103		MAG5011		
C7	.01		UK50-103		MAG5011		
C9	.01		UK50-103		MAG5011		
C10	.02		UK50-223		MAG5012		
C12	.01		UK50-103		MAG5011		
C13	.01		UK50-103		MAG5011		
C16	22 N750		DTN-22		CN7422		10TCU-Q22
C17	.02		UK50-223		MAG5012		
C18	12 N220				*		10TCR-Q12
C19	12 N220				*		10TCR-Q12
C20	.02		UK50-223		MAG5012		
C21	.01		UK50-103		MAG5011		
C23	3 NPO		DTZ-3R3	NP03P3	CN0533	10TCC-V33	

REALISTIC MODEL TRC-455

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE Q-LINE	PART No. GENERAL LINE
C24	.01		UK50-103		MAG5011		10TCR-Q33
C25	33 N220 5%				*		
C26	.01		UK50-103		MAG5011		
C27	.01		UK50-103		MAG5011		
C29	.02		UK50-223		MAG5012		10TCC-Q27
C31	27 NPO 5%				CN0427		
C32	.01		UK50-103		MAG5011		10TCR-Q68
C33	68 N220 10%				*		
C34	.02		UK50-223		MAG5012		
C35	91 NPO 10%		DTZ-100	NP0100	CN0310		10TCC-T10
C36	3 NPO		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C37	22 NPO 5%		DTZ-22	NP022	CN0422		10TCC-Q22
C38	6 NPO		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C39	22 NPO 5%		DTZ-22	NP022	CN0422		10TCC-Q22
C41	.02		UK50-223		MAG5012		
C42	.02		UK50-223		MAG5012		
C43	.01 50V			WMF1S1	EWF1A110	QF1-91	1PB-S10
C44	.01 50V			WMF1S1	EWF1A110	QF1-91	1PB-S10
C45	.01 50V			WMF1S1	EWF1A110	QF1-91	1PB-S10
C46	22 N220 5%				*		10TCC-Q22
C47	22 N220 5%				*		10TCR-Q22
C48	.01 50V			WMF1S1	EWF1A110	QF1-91	1PB-S10
C49	.01 50V			WMF1S1	EWF1A110	QF1-91	1PB-S10
C51	.02		UK50-223		MAG5012		
C53	27 NPO 5%				CN0427		10TCC-Q27
C54	.02		UK50-223		MAG5012		
C55	680 10%		DD-681	GP680	GP368		10TS-T68
C56	100 N150 5%				*		10TCP-T10
C57	.02		UK50-223		MAG5012		
C58	.04				GP140		5GA-S40
C59	.04				GP140		5GA-S40
C61	3 NPO		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C62	12 NPO				CN0412		10TCC-Q12
C63	.02		UK50-223		MAG5012		
C64	.01		UK50-103		MAG5011		
C65	33 N220 5%				*		10TCR-Q33
C66	4 NPO		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C67	33 N220 5%				*		10TCR-Q33
C68	4 NPO		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C69	33 N220 5%				*		10TCR-Q33
C71	.01		UK50-103		MAG5011		
C72	.01		UK50-103		MAG5011		
C73	.01		UK50-103		MAG5011		
C74	33 N220 5%				*		10TCR-Q33
C75	.01		UK50-103		MAG5011		
C76	.04				GP140		5GA-S40
C77	.01		UK50-103		MAG5011		
C78	.02		UK50-223		MAG5012		
C79	.01		UK50-103		MAG5011		
C80	.01		UK50-103		MAG5011		
C81	.01		UK50-103		MAG5011		
C82	27 NPO 5%				CN0427		10TCC-Q27
C83	.01		UK50-103		MAG5011		
C84	.02		UK50-223		MAG5012		
C86	.02		UK50-223		MAG5012		
C87	330		DD-331	GP330	GP333		10TS-T33
C88	150 N150 5%				*		10TCP-T15
C89	47		DTZ-47	NP047	CN0447		10TCC-Q47
C90	.01		UK50-103		MAG5011		
C91	.01		UK50-103		MAG5011		
C92	33		DTZ-33	NP033	CN0433		10TCC-Q33
C93	.01		UK50-103		MAG5011		
C95	.02		UK50-223		MAG5012		
C97	.04				GP140		5GA-S40
C101	.01		UK50-103		MAG5011		
C102	50		DTZ-50	NP050	CN0450		10TCC-Q50
C103	100		DTZ-100	NP0100	CN0310		10TCC-T10
C104	50 N220 5%				*		10TCR-Q50
C105	100		DTZ-100	NP0100	CN0310		10TCC-T10
C106	.01		UK50-103		MAG5011		
C107	.01		UK50-103		MAG5011		
C108	1.5		DTZ-1R5	NP01P5	CN0515		10TCC-V15
C109	.01		UK50-103		MAG5011		
C110	33 N220 5%				*		10TCR-Q33
C111	3		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C112	33 N220 5%				*		10TCR-Q33
C113	.01		UK50-103		MAG5011		
C114	180		DTZ-180				10TCC-T18
C115	.01		UK50-103				
C116	10		DTZ-10	NP010	MAG5011		
C117	1				CN0410		10TCC-Q10
C118	1				CN0510		10TCC-V10
C119	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C120	.033 50V			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C121	22		DTZ-22	NP022	CN0422		10TCC-Q22
C122	.033 50V			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C123	.0047 50V			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C124	.033 50V			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C125	.033 50V			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C126	.033 50V			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C127	.033 50V			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C128	.033 50V			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C129	.01 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C131	.033						
C132	.01 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C133	.022 50V			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C136	.04		UK50-223		MAG5012		
C137	.04		UK50-223		MAG5012		
C139	.01		UK50-223		MAG5011		
C142	.04		UK50-103		GP140		5GA-S40

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE Q-LINE	PART No. GENERAL LINE
C143	.04		DTZ-10	NP010	GP140		5GA-S40
C145	10			WMF1S1	CN0410		10TCC-Q10
C146	.01 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C147	.01 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C148	.047 50V			DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C149	.01 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C150	.01 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C151	.01 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C152	.005 50V 10%						
C153	.01 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C154	.01 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C155	.01 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C156	.001 50V			DPMS6D1	EWFA1A210	QFT2-1	1FT-D10
C157	.01 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C158	.033 50V			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C161	500 10%			GP500	GP350		10TS-T50
C163	.01				MAG5011		
C202	.01 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C206	.0047 50V			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C207	.1 50V 10%			WMF05P1	EWFO5010	QFT2-215	1FT-P10
C208	.0047 50V			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C211	220		DTZ-220				10TCC-T22
C214	.01						
C217	.22 50V			WMF05P22	EWFO5022	QFT2-253	1FT-D22
C219	.001 50V			DPMS6D1	EWFA1A210	QFT2-1	1FT-D10
C220	.0047 50V			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C302	.033 50V			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C303	.0047 50V			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C306	.01 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C309	.033 50V			DPMS6S33	M192D3339R8	QFT2-149	1FT-S33
C310	.001 50V			DPMS6D1	EWFA1A210	QFT2-1	1FT-D10
C314	.001 50V			DPMS6D1	EWFA1A210	QFT2-1	1FT-D10
C405	250		DTZ-270				10TCC-T27
C406	330						
C407	390 10%		DD-331	GP330	GP333		10TS-T33
C408	3		DD-391	GP390	GP339		10TS-T39
C409	.01		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C410	.04		UK50-103		MAG5011		
C411	.04				GP140		5GA-S40
C412	390 10%			GP390	GP140		5GA-S40
C413	220		DD-391		GP339		10TS-T39
C414	220		DTZ-220				10TCC-T22
C415	.04		DTZ-220				10TCC-T22
C416	.04				GP140		5GA-S40
C417	150				GP140		5GA-S40
C418	500 10%		DTZ-150	GP500	CN0315		10TCC-T15
C419	.04		DD-501		GP350		10TS-T50
C420	.04				GP140		5GA-S40
C422	.01		UK50-103		GP140		5GA-S40
C424	.04				MAG5011		
C425	.04				GP140		5GA-S40
C426	.04				GP140		5GA-S40
C428	.04				GP140		5GA-S40
C429	.04				GP140		5GA-S40
C430	50				GP140		5GA-S40
C431	.001		DD-102		GP210		10TS-D10
C432	.001		DD-102		GP210		10TS-D10
C433	.001		DD-102		GP210		10TS-D10
C434	.001		DD-102		GP210		10TS-D10
C435	.001		DD-102		GP210		10TS-D10
C436	.001		DD-102		GP210		10TS-D10
C437	.001		DD-102		GP210		10TS-D10
C438	.04				GP140		5GA-S40
C439	22		DTZ-22	NP022	CN0422		10TCC-Q22
C440	22		DTZ-22	NP022	CN0422		10TCC-Q22
C502	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C504	.04				GP140		5GA-S40
C505	.04				GP140		5GA-S40
C506	.0047 50V			WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C701	.01		UK50-103		MAG5011		
C702	.01		UK50-103		MAG5011		
C704B	.04				GP140		5GA-S40
C706	.04				GP140		5GA-S40
C707	.001				GP210		10TS-D10
C708	.001 125V		DD-102		GP210		10TS-D10
C709	.001 125V		DD-102		GP210		10TS-D10
C710	.01 10%		DC-103	MGP01	TA110	QC2-141	TG-S10
C711	.001						
C901	180		DTZ-180				10TCC-T18
C902	180		DTZ-180				10TCC-T18
C903	.01		UK50-103		MAG5011		
C904	.01		UK50-103		MAG5011		
C905	180		DTZ-180				10TCC-T18
C906	.001						
C907	.001						
C908	.04				GP140		5GA-S40
C909	.04				GP140		5GA-S40
C913	.01		UK50-103		MAG5011		
C914	.01		UK50-103		MAG5011		
C915	.01		UK50-103		MAG5011		
C916	.01		UK50-103		MAG5011		
C917	.01		UK50-103		MAG5011		
C918	180		DTZ-180				10TCC-T18
C919	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C920	.04				GP140		5GA-S40
C921	.04				GP140		5GA-S40
C922	.04				GP140		5GA-S40
C923	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C925	.0047		DD-472	GP4700	GP247		5GA-D47
VC1	30						
VC2	30						
VC3	30						

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

REALISTIC MODEL TRC-455

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA			
			MFGR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
R141	Squelch Range	5000	P-6405	T-5000	MTC53L1	X201R502B
R159	AGC	50K	P-6406(4)	T-50K	MTC54L1	X201R503B
R160	S Meter	10K	P-6407	T-10K	MTC14L1	X201R103B
R404	RF Meter	50K	P-6406	T-50K	MTC54L1	X201R503B
R504	AMC	5000	P-6405	T-5000	MTC53L1	X201R502B
R708	Volt Adj	5000	P-6405	T-5000	MTC53L1	X201R502B
R902	SWR	200	P-6403	T-200(2)	MTC22L1(2)	X201R251B(2)
R904	RF Gain	30K	P-6404	T-50K(3)	MTC54L1(3)	X201R503B(3)
VR101	Squelch	10K	P-1744	F1-10K(1), SSK100	UA13L(1), SK1000	BU1(1), CF9, SS1, DC1
VR102	RF Gain	10K	P-1744	F1-10K(1), SSK100	UA13L(1), SK1000	BU1(1), CF9, SS1, DC1
VR103	SWR CAL	10K	P-1744	F1-10K(1), SSK100	UA13L(1), SK1000	BU1(1), CF9, SS1, DC1
VR201	Volume/Switch	10K	P-1741	F2-10K(1), SSK100, KR2	UA13A(1), SSK1000, US27	BU1(1), CF53, SS1, WF
VR301	PA Gain	10K	P-1744	F1-10K(1), SSK100	UA13L(1), SK1000	BU1(1), CF9, SS1, DC1

(1) Enlarge mounting hole.

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

(3) For horizontal mounting, bend the two outside terminals to fit PC board. Use jumper to connect center terminal to PC board.

(4) Used in early production versions only.

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.
PTH501	1.2K Cold NTC		C-0771	RN1	Resistor Network		RX-0038(1)
R908	15 15W 10%			RN2	Resistor Network		RX-0039(2)
R909	3.3 5W 10%		NFE-0037	RN3	Resistor Network		RX-0039(2)

(1) Consists of 7 1K ohm resistors.

(2) Consists of 7 1.2K ohm resistors.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Down Osc (36.380MHz)	CA-3711			
L2	RF Choke	CA-3705			
L3	RF Choke	C-0772			
L403	Pi Filter (27MHz)	CA-3708			
L404	Final (27MHz)	CA-3709			
L405	RF Choke	CB-2333			
L406	RF Choke	CB-2333			
L407	XMT Final (27MHz)	CA-3710			
L408	RF Choke				
L701	RF Choke	CB-2332			
L703	RF Choke	CA-3712			
L901	Pi Filter	CA-3707			
L902	Pi Filter	CA-3712			
T1	VCO	CA-3714			
T2	VCO Buffer (37MHz)	CA-3714			
T3	XMT Mixer (27MHz)	CA-3086			
T4	XMT Mixer (27MHz)	CA-3086			
T5	XMT Mixer (27MHz)	CA-3086			
T6	XMT Buffer (27MHz)	CA-3086			
T7	Ref Buffer (10.240MHz)	CA-3713			
T101	Rec RF (27MHz)	CA-3229		CBS733-T	
T102	AGC (27MHz)	CA-3230		CBS734-T	
T103	RF Amp (27MHz)	CA-3229		CBS733-T	
T104	RF Amp (27MHz)	CA-3229		CBS733-T	
T105	IF (10.695MHz)	CA-7712			
T106	IF (10.695MHz)	CA-7712			
T107	IF (10.695MHz)	CA-7711			
T108	IF (455kHz)	CA-7356			
T109	IF (455kHz)	CA-7356			
T110	IF (455kHz)	CA-7357			
T401	XMT Driver (27MHz)	CA-3087			

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.	
L702	1.25A	.075	.291mH	CA-3712			(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T201	32	1 25.92 184.32	TB-0405			

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T701	120V AC @ 450mA	19.30V AC @ 2.15A AC	TA-0608			

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	2" X 2 3/4" CM 8 ohms	S-4532	23A052B	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA					
		PART No.		BUSS PART No.		LITTELFUSE PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	WORKMAN PART No.
F701	2A Quick Acting			AGC2	HDJ	312002	150145

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA							
	MFGR. 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	M-2276	18-032	18-034	18-010	18-105	4	1	3	5	NC	1	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF101	Filter	C-0707	455kHz
CF102	Filter	C-0707	455kHz
D1001	LED	L-0772	Channel Display 1.61V @ 8.3mA
J1	Jack	J-0824	Antenna
J2	Jack	J-0825	PA
J3	Jack	J-0823	Phone
J4	Jack	J-0820	Ext Spk
J5	Jack	J-0822	Mic
J6	Jack	J-6484	AC/DC Power
LA1	Lamp	L-0005	Meter 4.94V @ 55mA
LA2	Lamp	L-0005	Meter 4.94V @ 55mA
LA3	Lamp	L-0005	On The Air 5.45V @ 55mA
LA4	Lamp	L-0005	Mod 4.20V @ 55mA
LA5	Lamp	L-0005	Clock 4.73V @ 55mA
LA6	Lamp	L-0005	Clock 4.73V @ 55mA
M1	Meter	M-0336	SWR/S/R
M2	Clock	M-4382	Digital
SW1	Switch	S-7200	SWR/PA (Includes SW2, SW3, SW4)
SW2	Switch		CB/PA
SW3	Switch		ANL
SW4	Switch		NB
SW5	Switch	S-1268	Channel Selector
SW6	Switch	S-1269	Delta Tune
SW701	Switch		Power (On volume control)
XL1	Crystal	MX-2302	36.80MHz
XL2	Crystal	MX-2300	10.695MHz
XL3	Crystal	MX-2301	10.240MHz
	PC Board	X-7383	AF
	PC Board	X-7387	Channel Switch
	PC Board	X-7389	LED
	PC Board	X-7386	Mother
	PC Board	X-7382	PLL
	PC Board	X-7384	Power
	PC Board	X-7385	RX
	PC Board	X-7388	Switch
	PC Board	X-7390	SWR
	PC Board	X-7381	TX

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

ITEM	PART No.	ITEM	PART No.
Chassis	XBV-1P001B	Front Panel	Z-3413
Cover, cabinet	Z-3412	Side Panel	HB-5899
Knob, channel	X-1739	Plate, bottom	Z-3411
Knob, clock	X-1741	Plate, decoration	HB-1837
Knob, volume	X-1740		

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. 8415 (6')
		5-conductor (1 shielded) 28AWG	BELDEN No. 9467 (6')
			BELDEN No. 9465 (7-1/2')

REALISTIC MODEL TRC-455