

PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

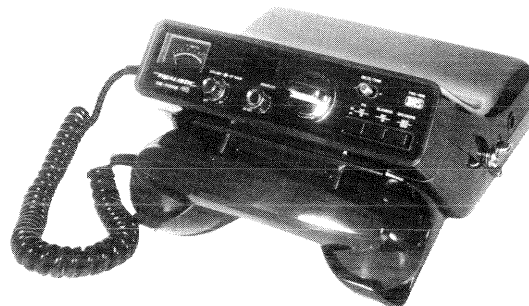
Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.

(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 TRC-456(21-1523)

MANUFACTURER'S SPECIFICATIONS

GENERAL

Channels:	 All 40 channels
Frequency Coverage:	 26.965 to 27.405 MHz
Power Requirement:	 12 volts DC, positive or negative ground (25 watts)
Current Drain:	 250-1700 mA (from no signal receive to full modulation on transmit)
PA power:	 5 watts
Microphone:	 Dynamic with push-to-talk switch and coiled cable
Built-in Speaker:	 3" (7.7 cm)
Semi-conductors:	 3 FETs, 29 Transistors, 1 LSI, 3 IC's, 30 Diodes and 1 Thermistor
Dimensions:	 5-5/16" x 9" x 9-3/16" (13.5 cm x 22.9 cm x 23.3 cm) (HWD)
Weight:	 4 lbs. 10 ozs. (2.08 kg)

RECEIVER

Sensitivity:	 0.2 μ V for 10 dB S/N
Selectivity:	 $\pm$ 3 kHz at -6 dB
Adjacent Channel Rejection:	 60 dB
Audio Distortion:	 Less than 10% at 3.5 watts output
Spurious Signal Rejection:	 -60 dB
Spurious Radiation Leakage:	 Less than 2.0 nW
I.F.:	 9.785 MHz, 455 kHz
Squelch:	 Adjustable from 0.25 μ V to 2 mV

TRANSMITTER

Power Output:	 4 watts maximum
Modulation:	 +90%, -100%
Spurious Radiation:	 -65 dB or better
Emission Type:	 6A3
Frequency Tolerance:	 Better than 0.002%
Antenna Impedance:	 50 ohms (SO-239 receptacle)

Courtesy of the Manufacturer

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

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REALISTIC MODEL TRC-456

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. Suggested Alignment Tools: GC ELECTRONICS

CT8018276, 5000
 L905.9304, 9300, 9302
 T301 thru T304, T801, T803 thru T807.5009, 8728-A, 8728
 L101, L102, L501, L502, L901, L903, T801, F901. . . .9440

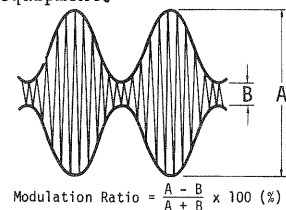


FIGURE 1

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP10 (Q301 & Q302, Emitter)	Ch. 1		Check for 10.240MHz
Input of oscilloscope to TP10 (Q301 & Q302, Emitter)	Ch. 1	T801	Adjust for maximum.
Input of DC meter to TP802.	Ch. 1	T802	Adjust for 1.5V $\pm$.02 volts.
Input of oscilloscope to TP11 (Q102, Source)	Ch. 19, DELTA TUNE Center position	T803	Adjust for maximum RF.
Input of frequency counter to TP11 (Q102, Source)	Ch. 1, DELTA TUNE Center position	CT801	Adjust for 36.750MHz. Check all channels (See Truth Chart for correct frequencies).
Input of oscilloscope to TP12 (T807 secondary).	Ch. 19, XMT	T804,T805, T806,T807	Adjust for maximum RF.
Input of frequency counter to TP12 (T807, secondary).	Ch. 1, XMT	CT801	Check for 26.965MHz. Check all channels. (See Truth Chart for correct frequencies).
Input of frequency counter to TP13 (IC801, pin 13)	Ch. 1		Check for 1.960MHz. Check all channels (See Truth Chart 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. RF Gain Maximum, Squelch MINIMUM, Blanker Out.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP10. 455kHz, 1000Hz @ 30% modulation.	Ch. 19	T304,T303	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	T302,T301, L102,L101	Adjust for maximum output. If necessary readjust T303 and T304.
Input of oscilloscope to TP14 (Q501, Drain) Inject a 100pps, 1uSec pulse width, signal.	Ch. 19 Blanker In	L501,L502	Adjust for maximum.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil. Adjust volume control to obtain a suitable indication. RF Gain Maximum, Squelch MINIMUM, Blanker Out.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
No signal input. Input of DC meter to TP1.	Ch. 19	VR9	REVERSE AGC Adjust for 1.3 volts.

RECEIVER ADJUSTMENTS (Continued)

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
No signal input. Input of DC meter to TP2.	Ch. 19	VR2	FORWARD AGC Adjust for 2.5 volts.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	VR1	RF GAIN RANGE Set generator output at the 10db signal to noise ratio. Turn RF GAIN to MINIMUM. Increase generator output 20db. Adjust VR1 for 10db signal to noise ratio.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 1000uV.	Ch. 19 SQUELCH Maximum	VR5	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	VR3	S METER Adjust for 9 on S scale of meter.

TRANSMITTER ALIGNMENT

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

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of spectrun analyzer or harmonic meter to antenna jack.	Ch. 19	L901,L903, L905	Adjust for maximum.
	Ch. 19	L903	Adjust for 4 watts maximum.
	Ch. 19	F901	Adjust for MINIMUM at 54MHz.

TRANSMITTER ADJUSTMENTS

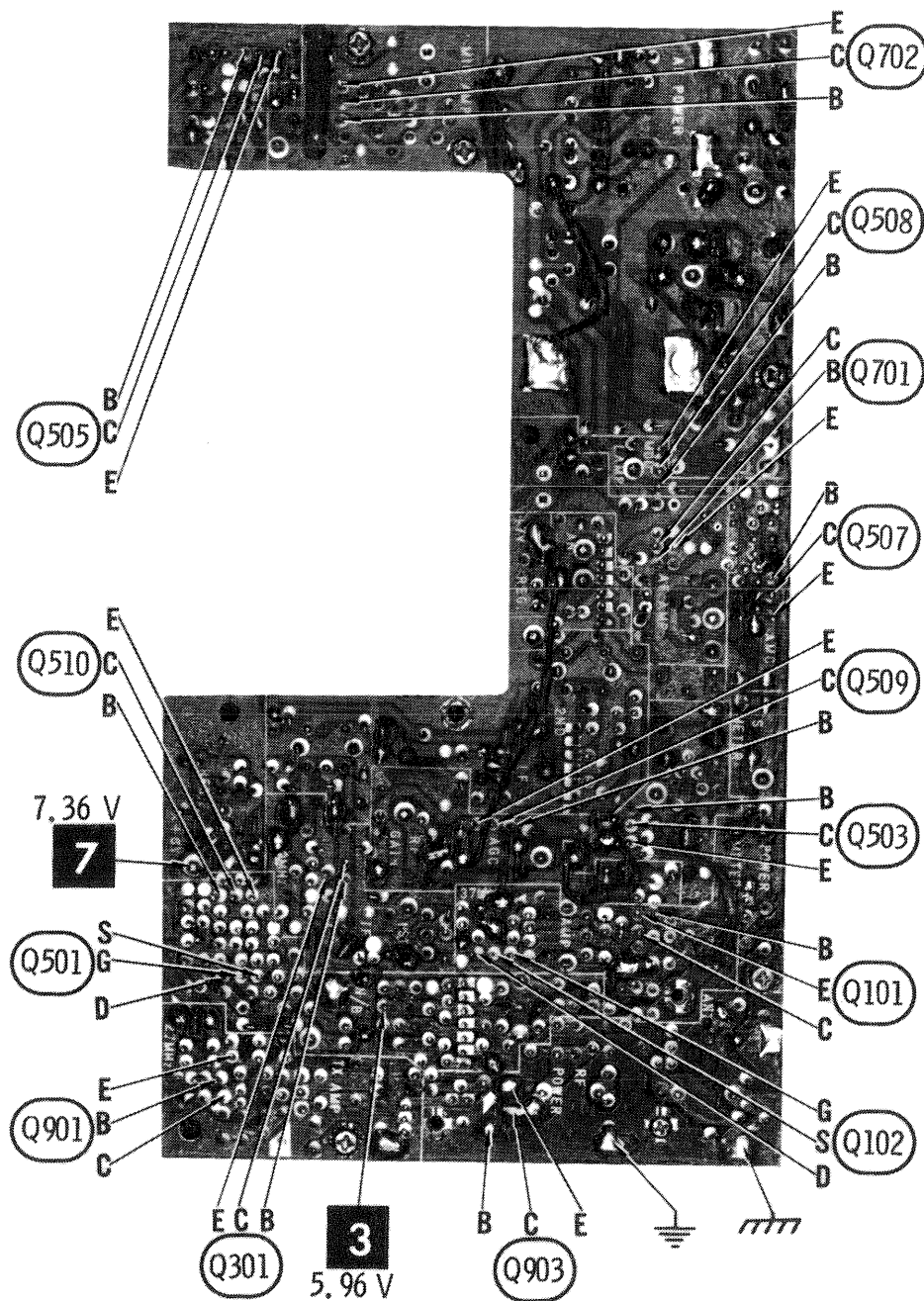
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmit frequency and power on all active channels
after adjustment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of oscilloscope on modulation meter to antenna jack. Inject a 1000Hz, 100mV signal at MIC input.	Ch. 19	VR8	AMC Adjust for 100% modulation maximum. See Figure 1.
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.	Ch. 19	VR6	POWER METER Adjust so that POWER METER agrees with RF wattmeter.

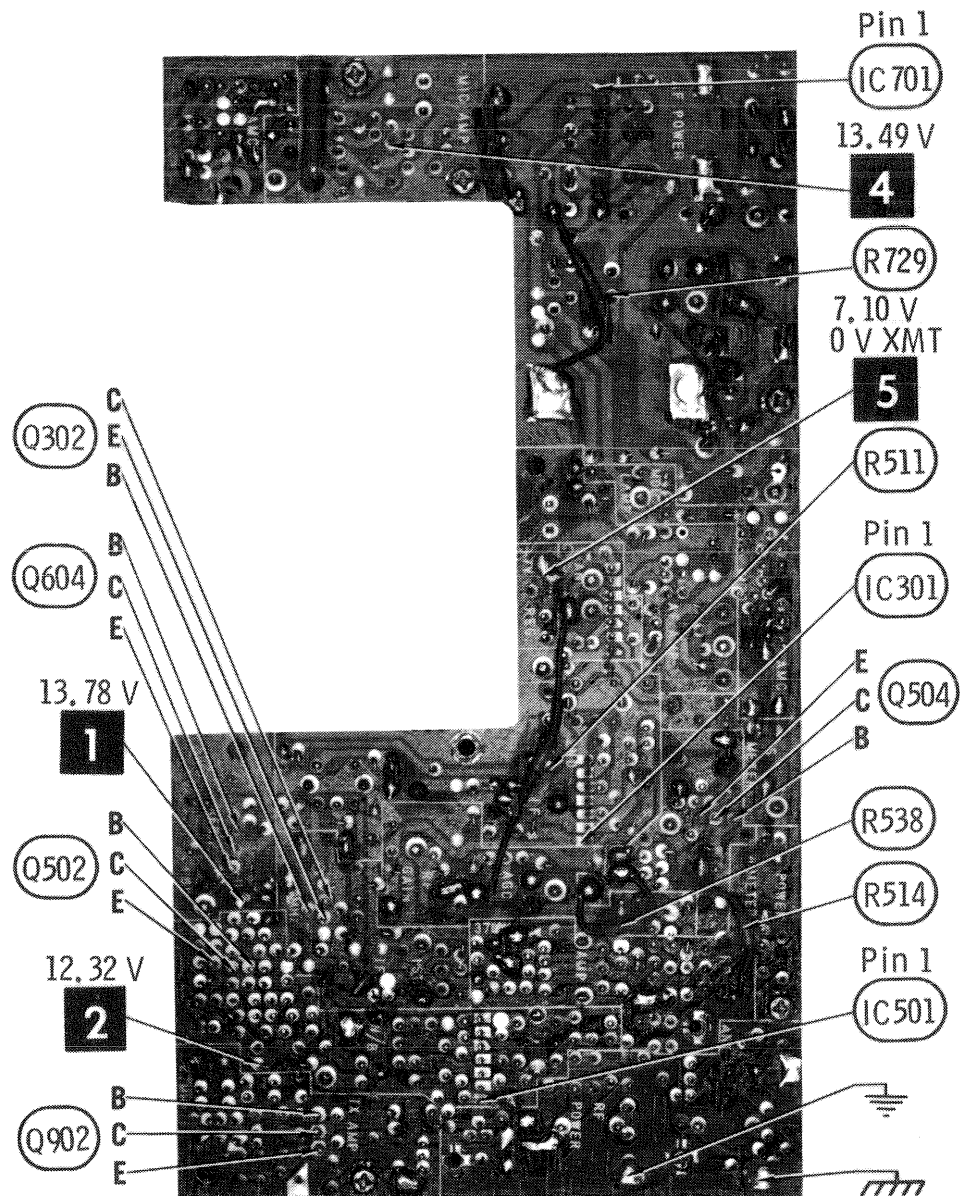
TRUTH CHART

C H A N N E L	1 = 5.98 Volts 0 = 0 Volts IC801 PROGRAM DIVIDER								REC SYNTHESIZER OUTPUT IN MHz AT TP11	XMT SYNTHESIZER OUTPUT IN MHz AT TP12	REC & XMT DIVIDER INPUT IN MHz AT TP13
	PINS										
	6	5	4	3	2	1					
1	0	0	0	1	0	0			36.750	26.965	1.960
2	0	0	0	1	0	1			36.760	26.975	1.970
3	0	0	0	1	1	0			36.770	26.985	1.980
4	0	0	1	0	0	0			36.790	27.005	2.000
5	0	0	1	0	0	1			36.800	27.015	2.010
6	0	0	1	0	1	0			36.810	27.025	2.020
7	0	0	1	0	1	1			36.820	27.035	2.030
8	0	0	1	1	0	1			36.840	27.055	2.050
9	0	0	1	1	1	0			36.850	27.065	2.060
10	0	0	1	1	1	1			36.860	27.075	2.070
11	0	1	0	0	0	0			36.870	27.085	2.080
12	0	1	0	0	1	0			36.890	27.105	2.100
13	0	1	0	0	1	1			36.900	27.115	2.110
14	0	1	0	1	0	0			36.910	27.125	2.120
15	0	1	0	1	0	1			36.920	27.135	2.130
16	0	1	0	1	1	1			36.940	27.155	2.150
17	0	1	1	0	0	0			36.950	27.165	2.160
18	0	1	1	0	0	1			36.960	27.175	2.170
19	0	1	1	0	1	0			36.970	27.185	2.180
20	0	1	1	1	0	0			36.990	27.205	2.200
21	0	1	1	1	0	1			37.000	27.215	2.210
22	0	1	1	1	1	0			37.010	27.225	2.220
23	1	0	0	0	0	1			37.040	27.255	2.250
24	0	1	1	1	1	1			37.020	27.235	2.230
25	1	0	0	0	0	0			37.030	27.245	2.240
26	1	0	0	0	1	0			37.050	27.265	2.260
27	1	0	0	0	1	1			37.060	27.275	2.270
28	1	0	0	1	0	0			37.070	27.285	2.280
29	1	0	0	1	0	1			37.080	27.295	2.290
30	1	0	0	1	1	0			37.090	27.305	2.300
31	1	0	0	1	1	1			37.100	27.315	2.310
32	1	0	1	0	0	0			37.110	27.325	2.320
33	1	0	1	0	0	1			37.120	27.335	2.330
34	1	0	1	0	1	0			37.130	27.345	2.340
35	1	0	1	0	1	1			37.140	27.355	2.350
36	1	0	1	1	0	0			37.150	27.365	2.360
37	1	0	1	1	0	1			37.160	27.375	2.370
38	1	0	1	1	1	0			37.170	27.385	2.380
39	1	0	1	1	1	1			37.180	27.395	2.390
40	1	1	0	0	0	0			37.190	27.405	2.400



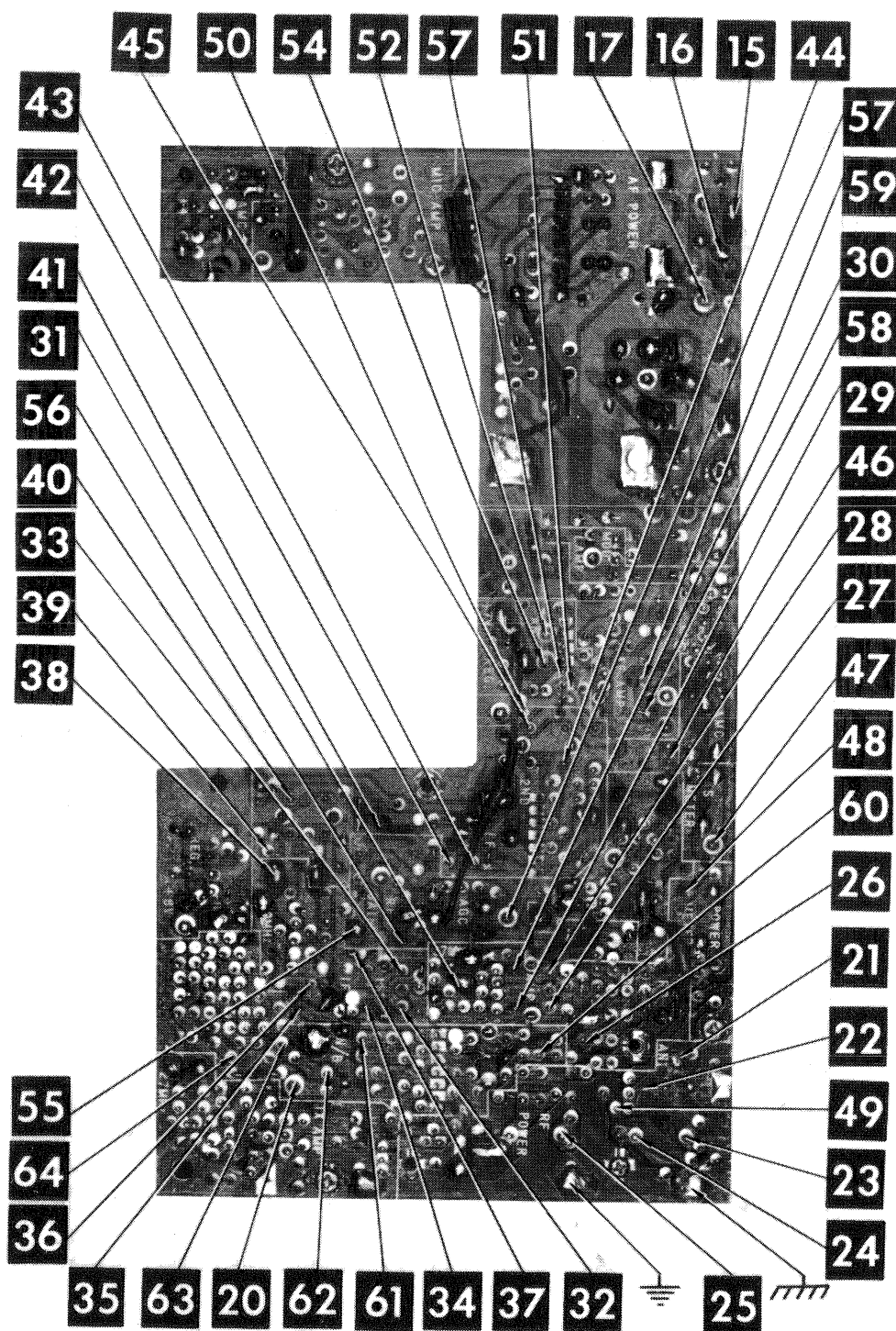


MAIN BOARD

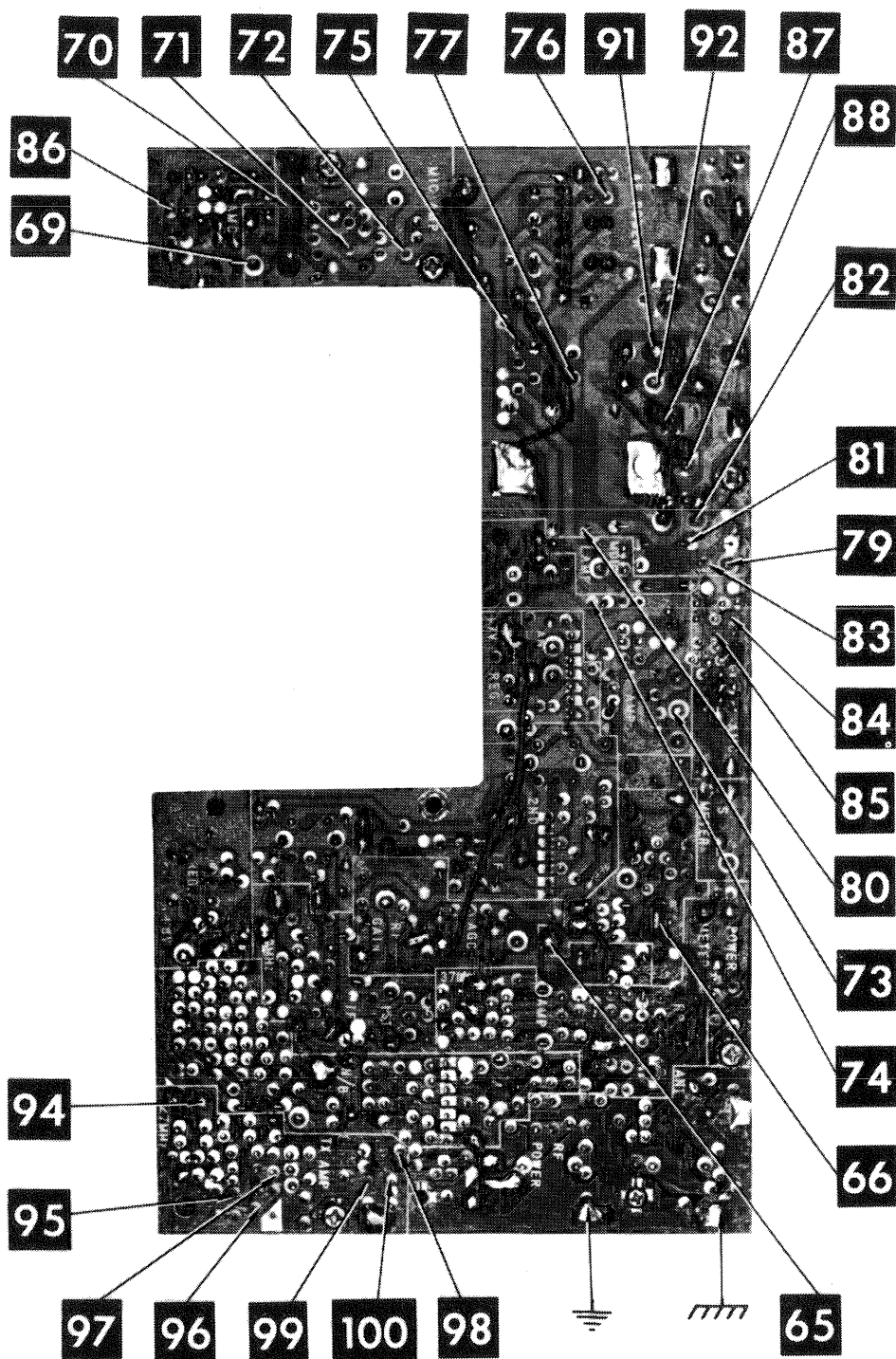


REALISTIC MODEL TRC-456

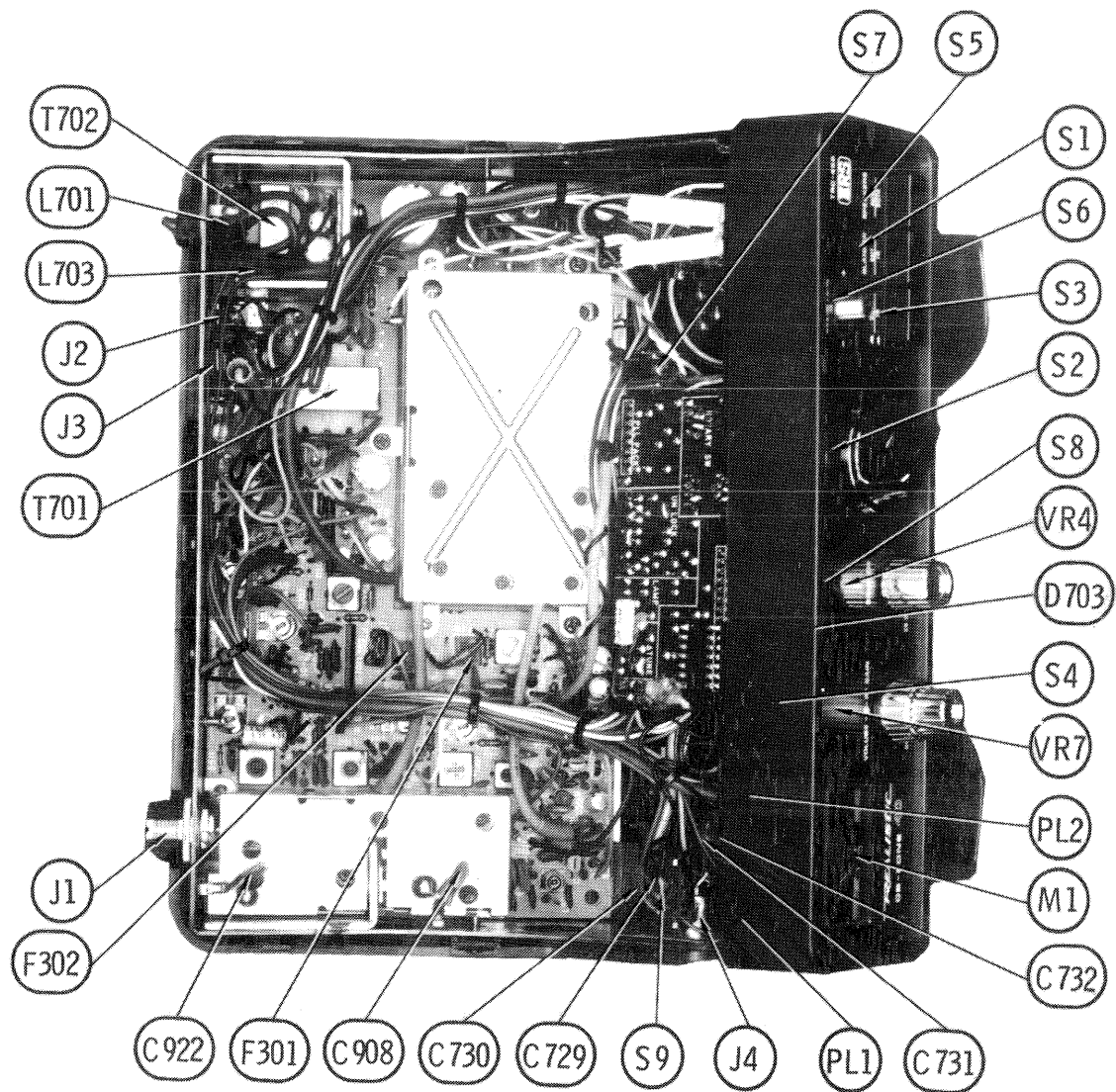
MAIN BOARD



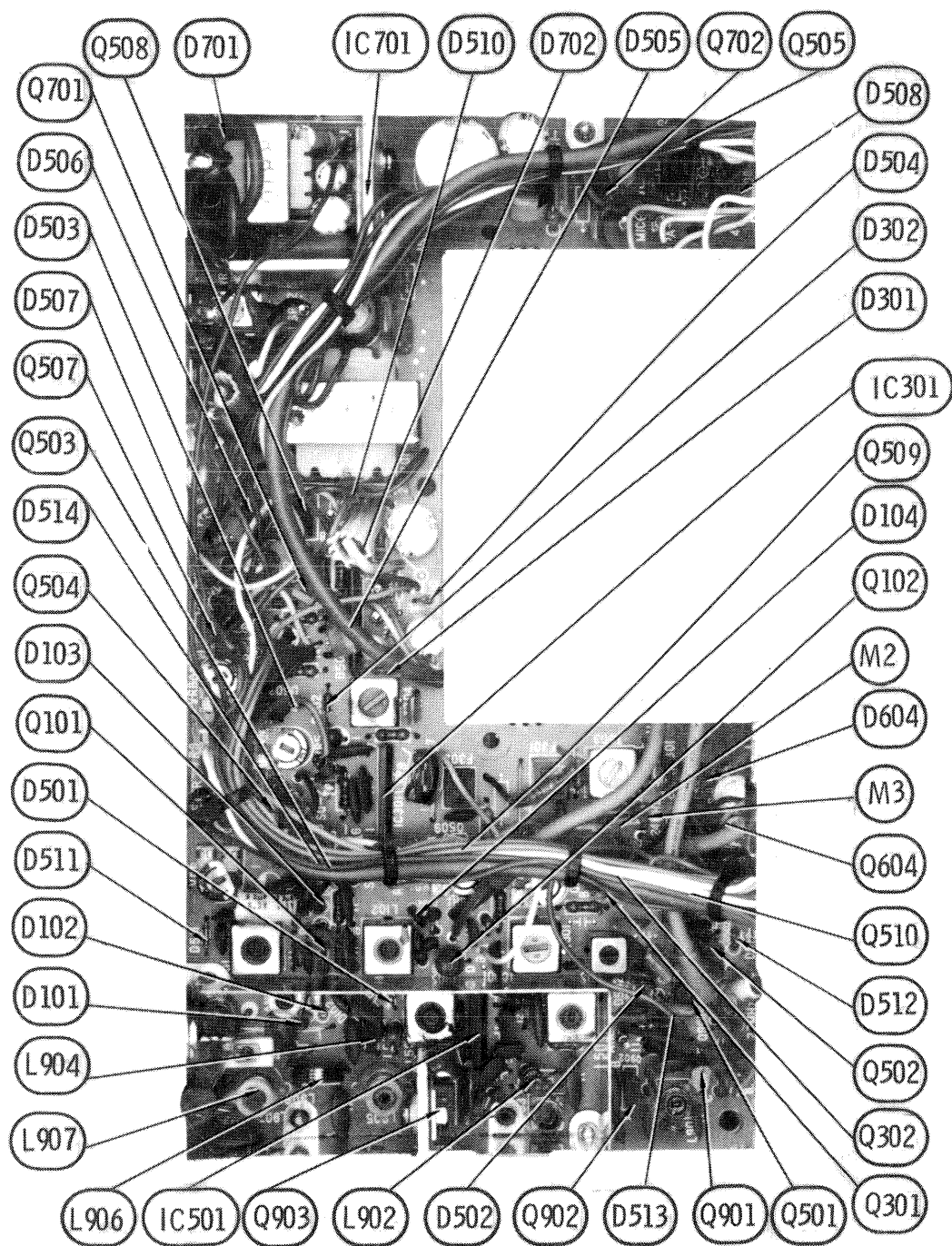
MAIN BOARD



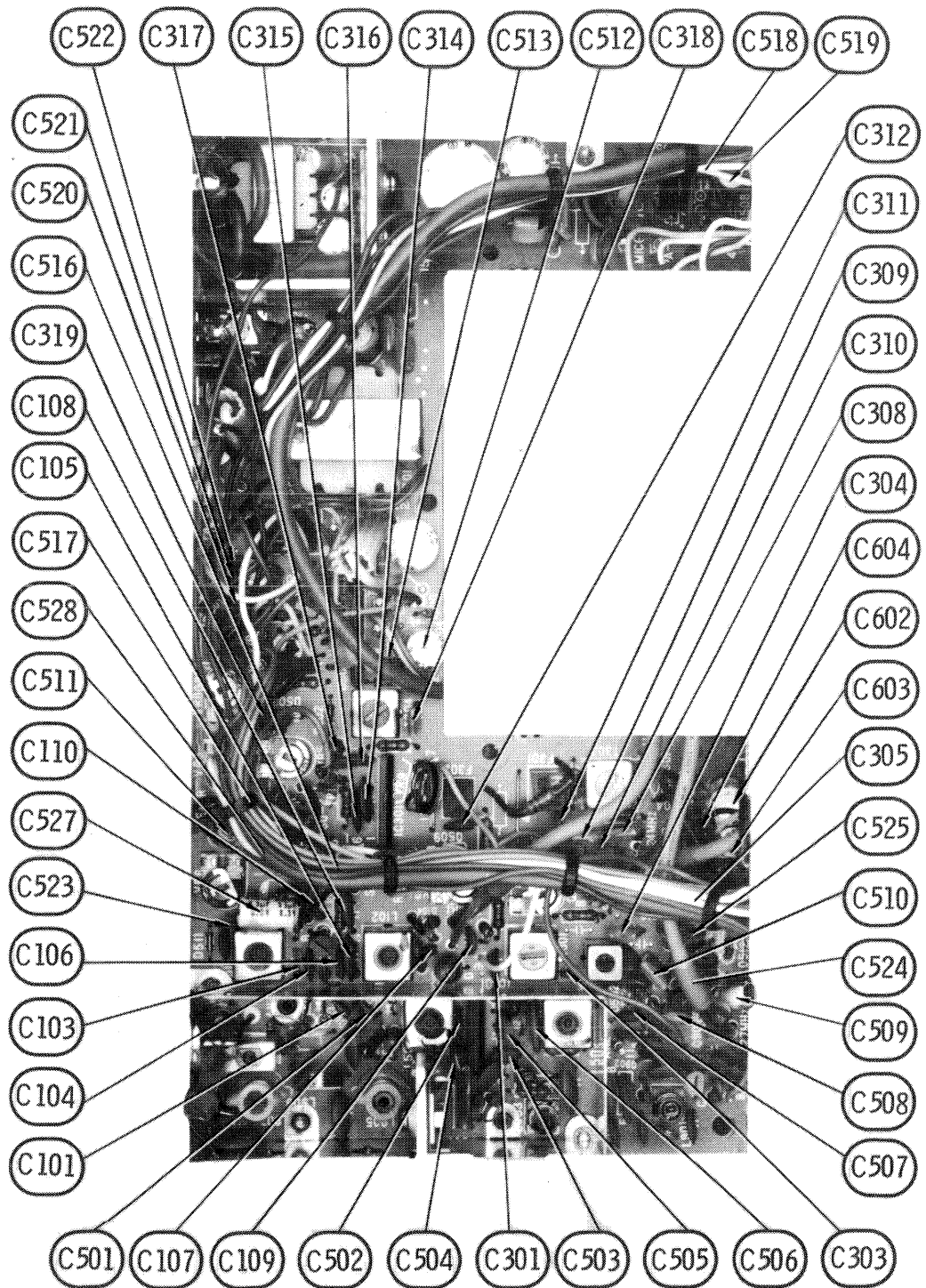
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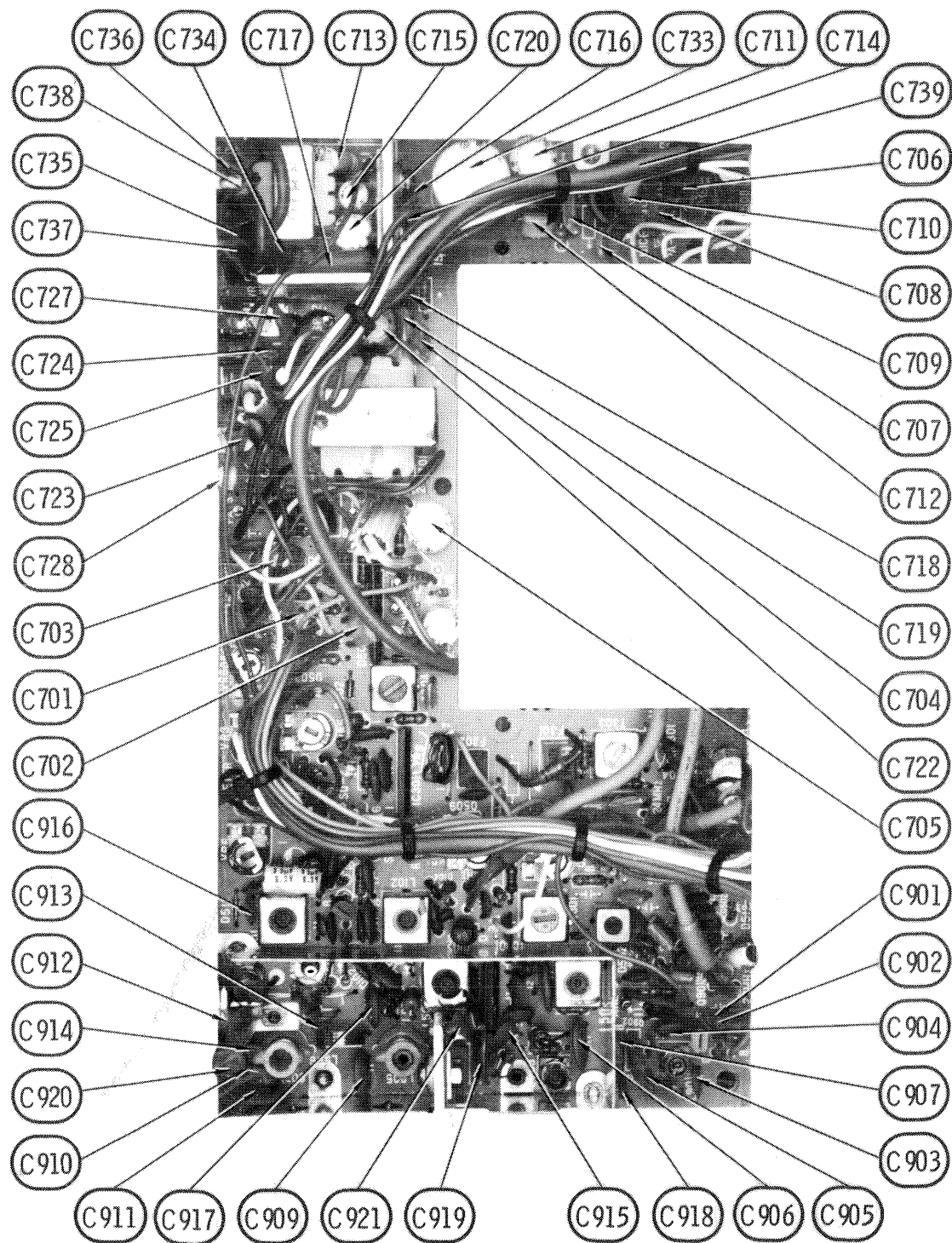
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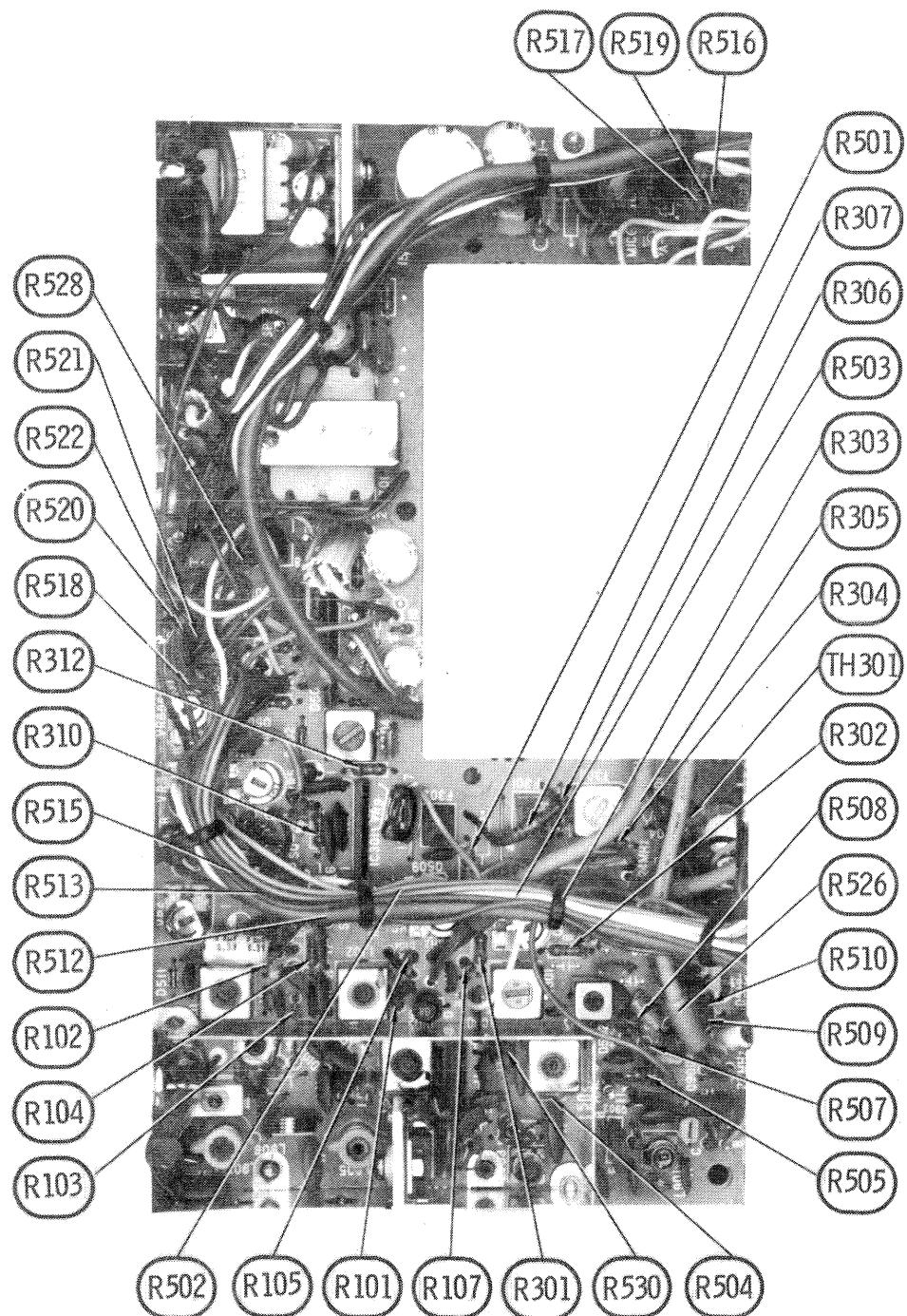
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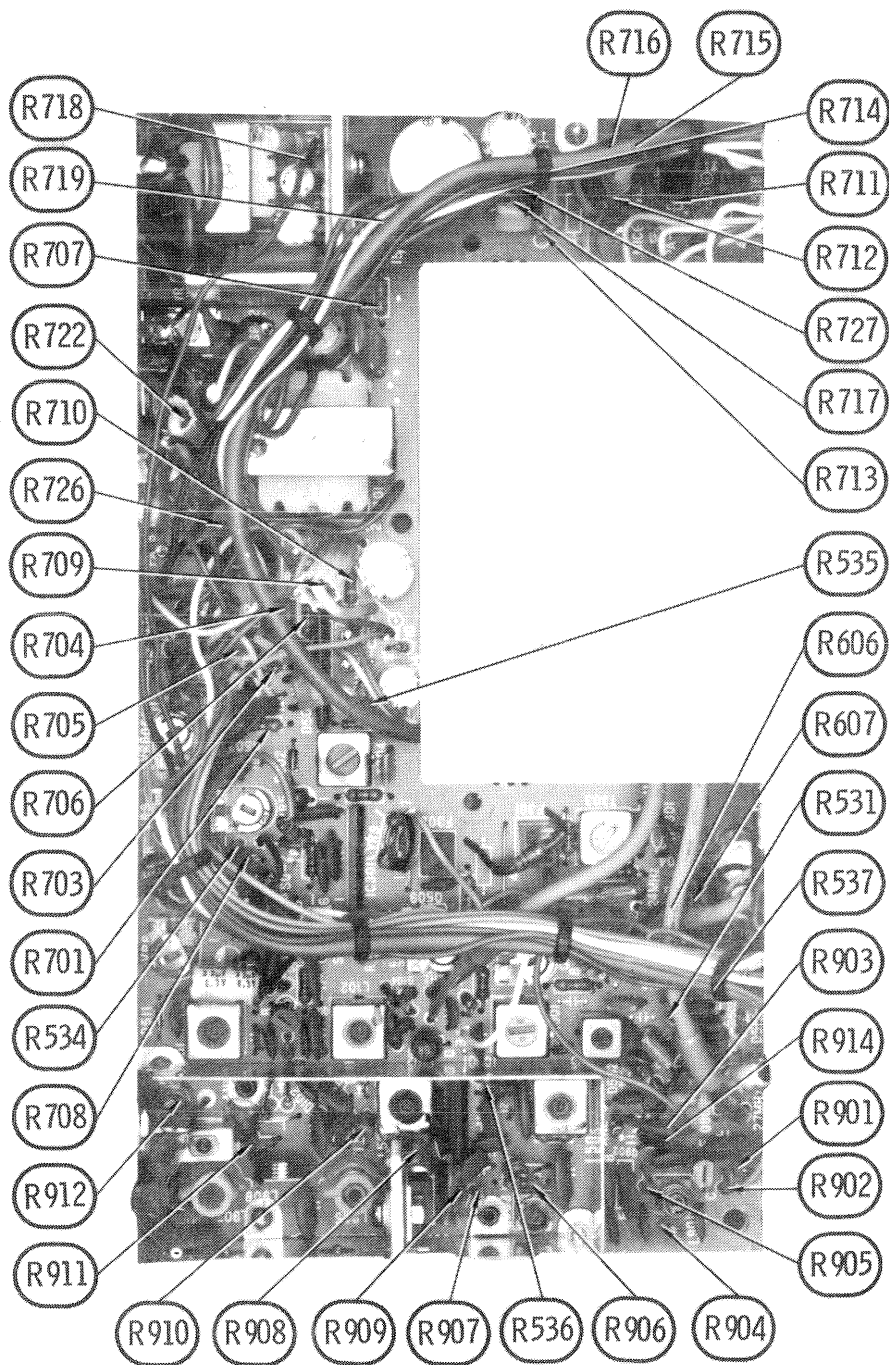
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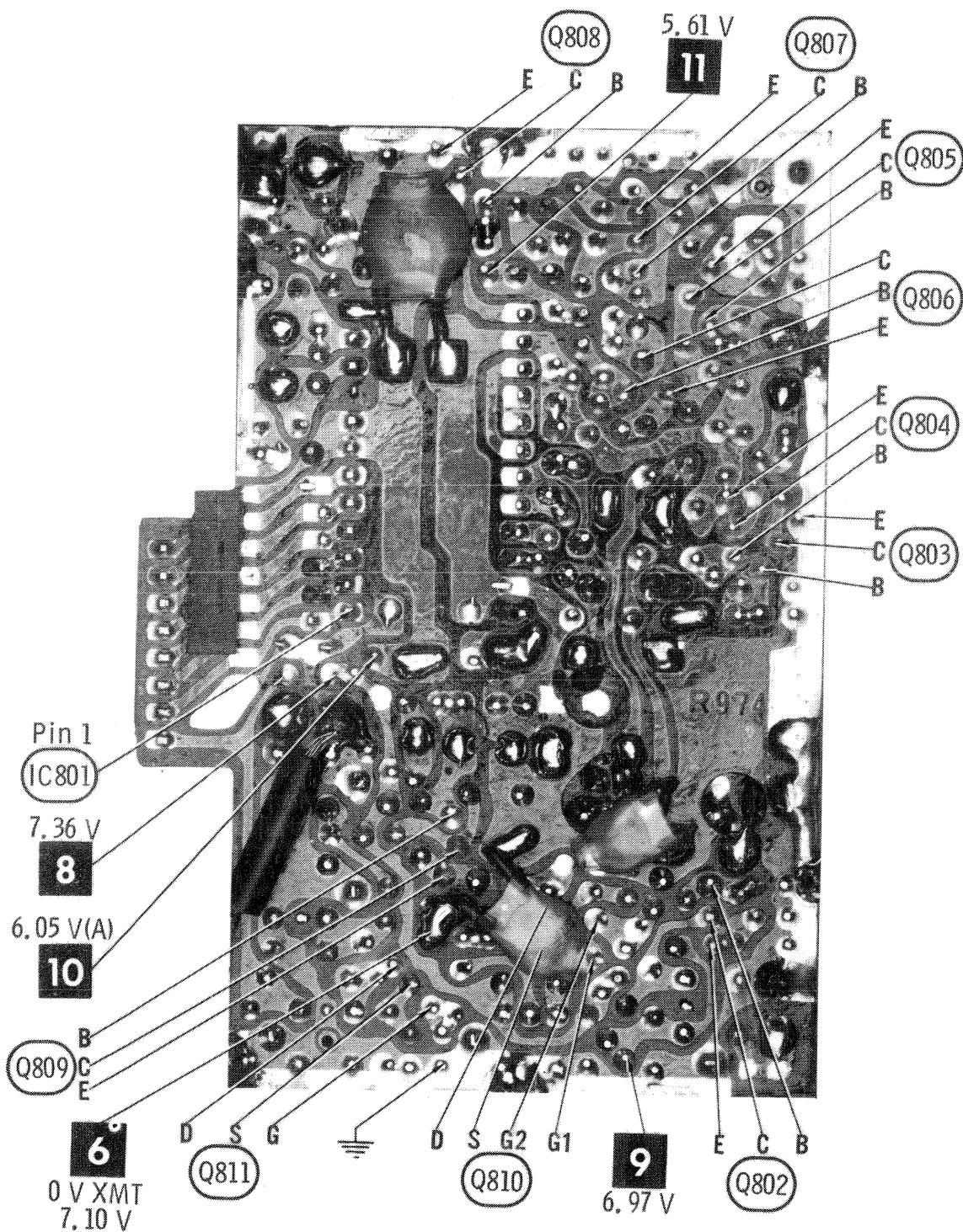
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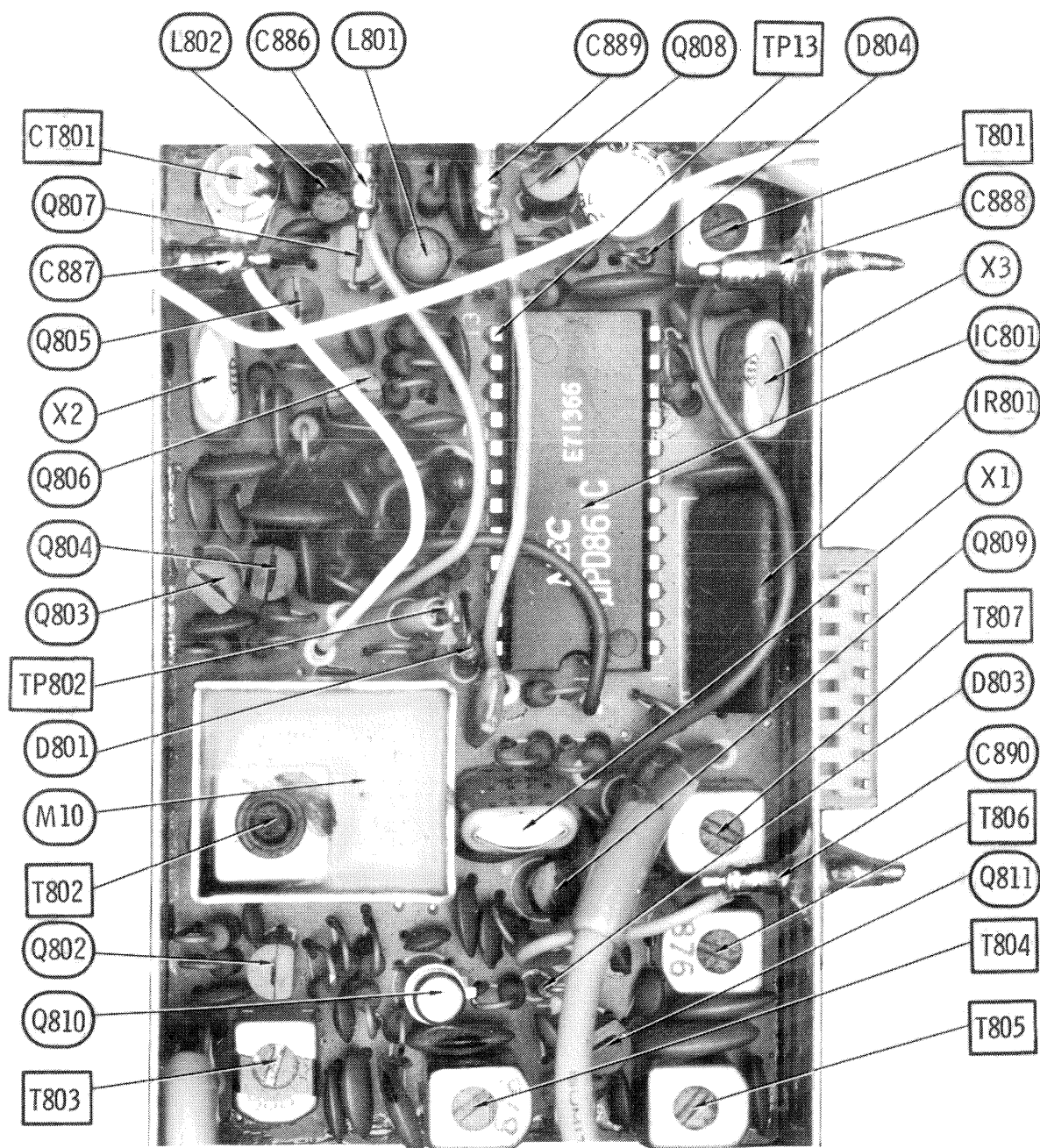
MAIN BOARD



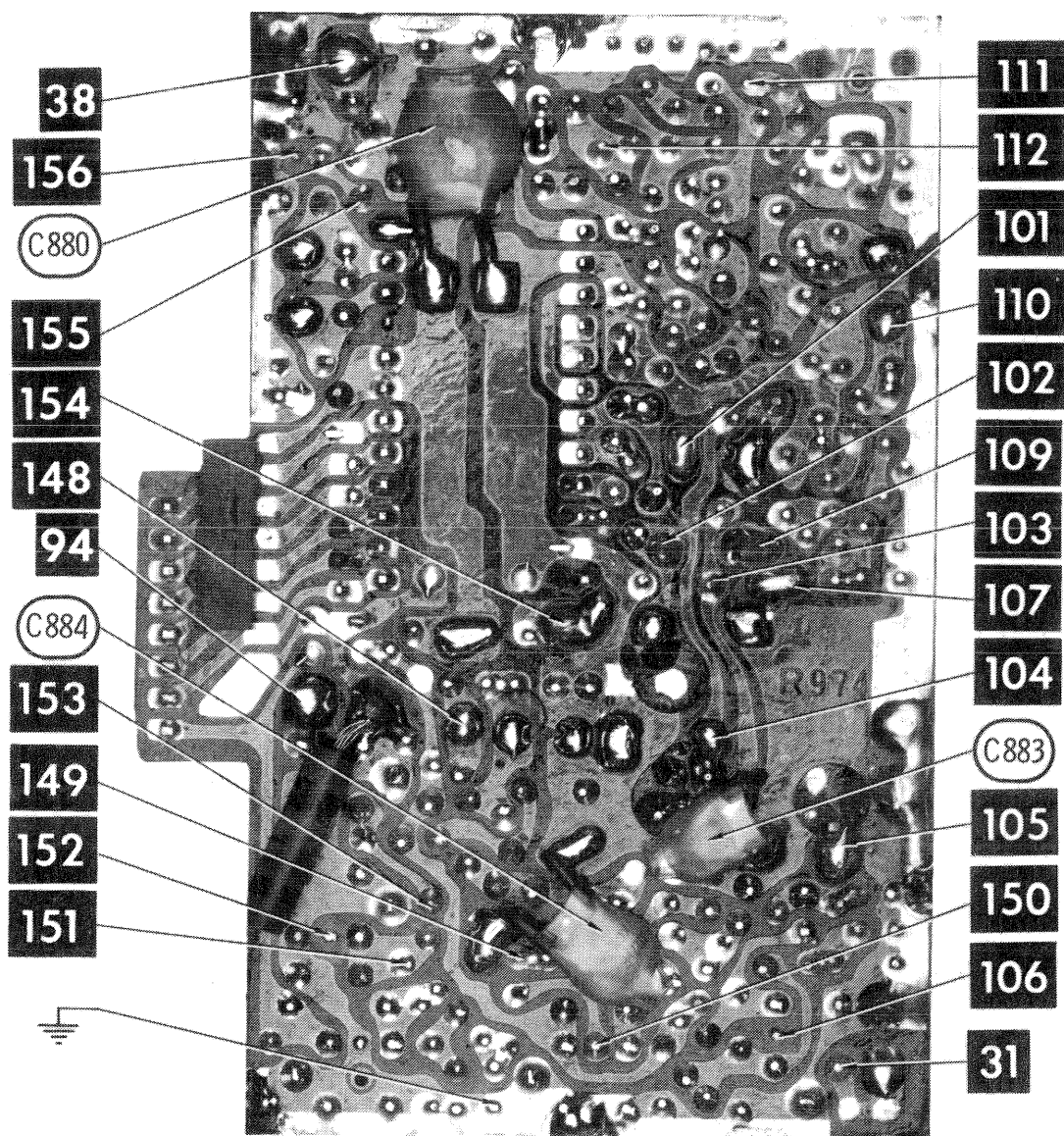
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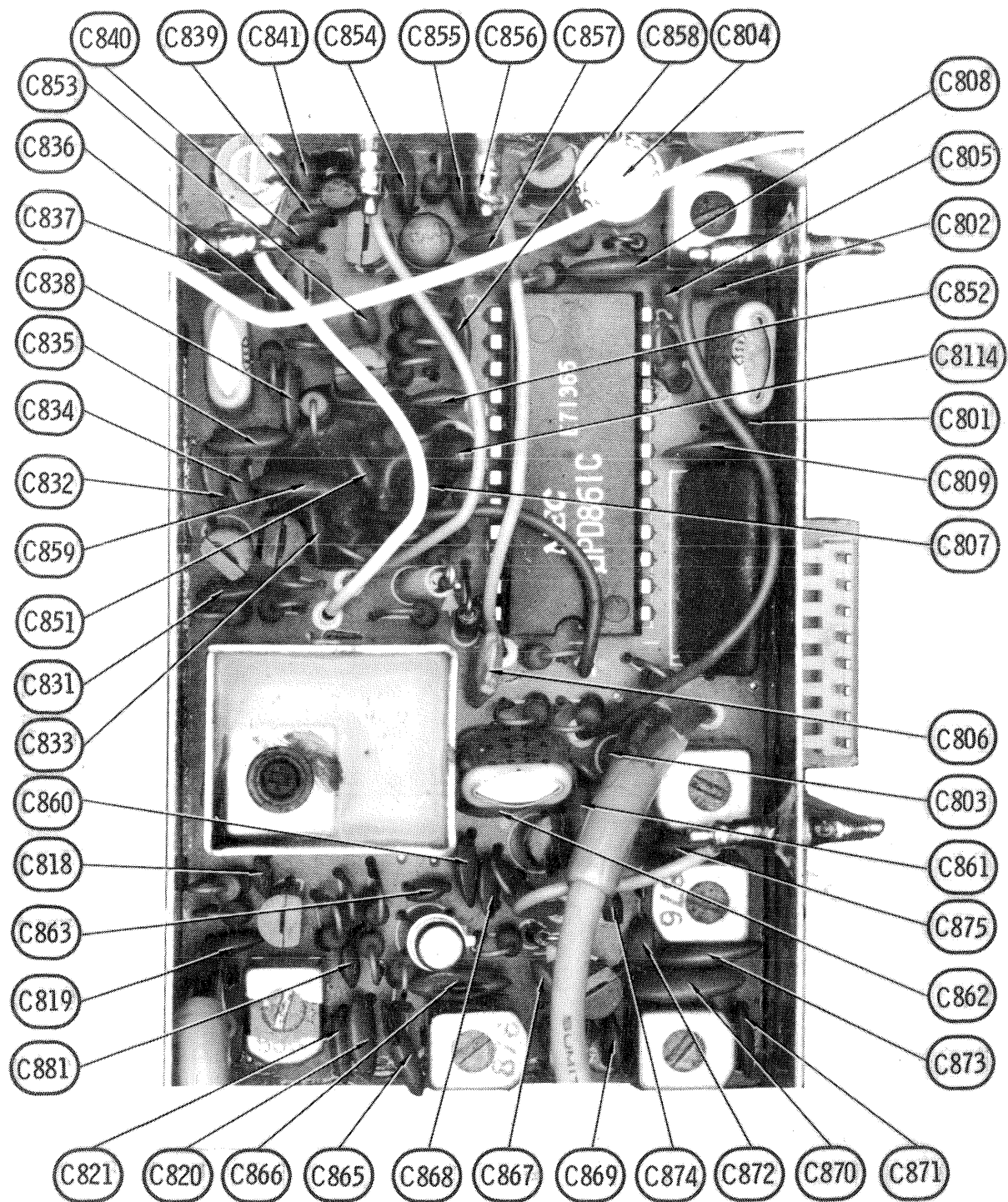
PLL BOARD



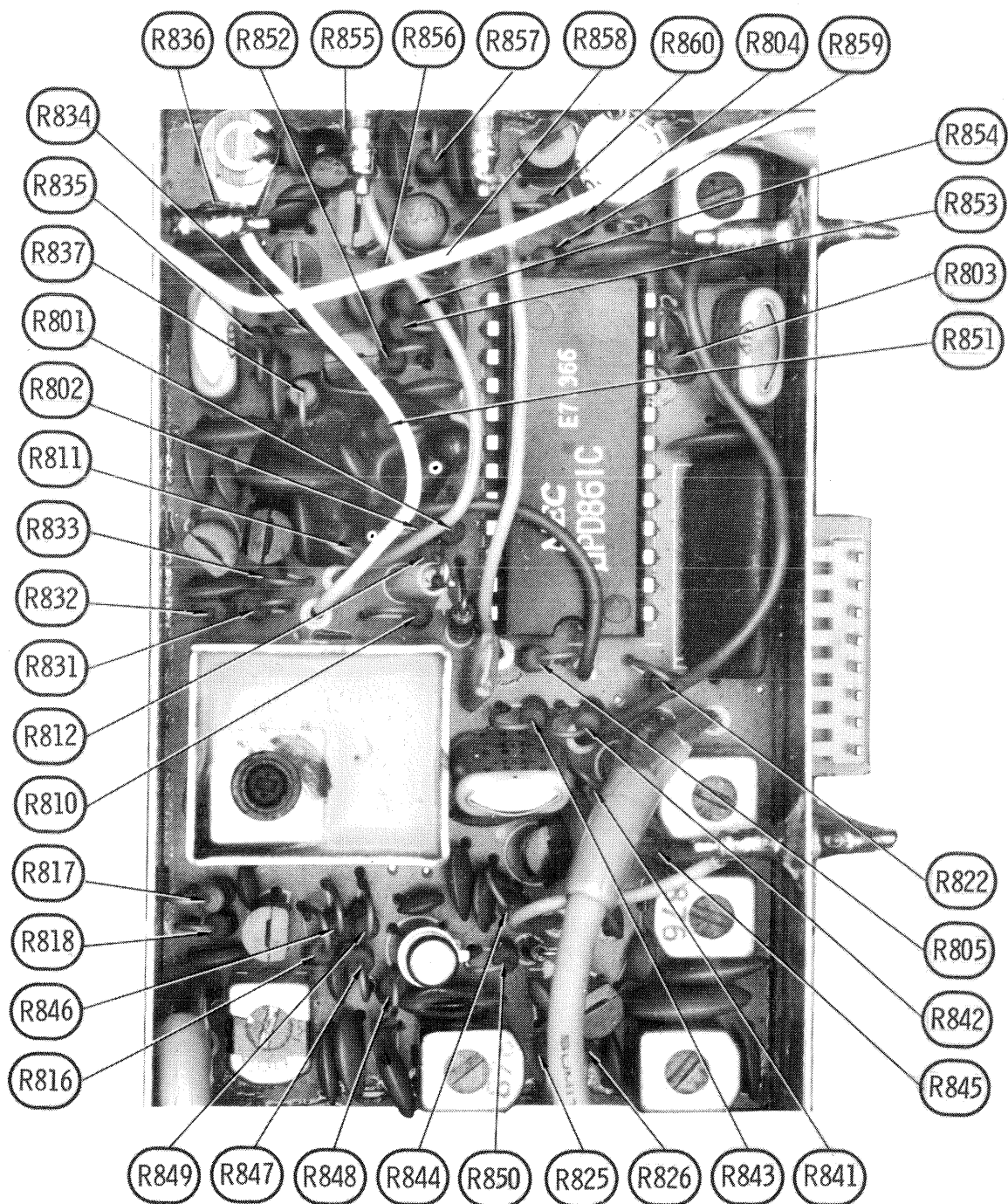
PLL BOARD



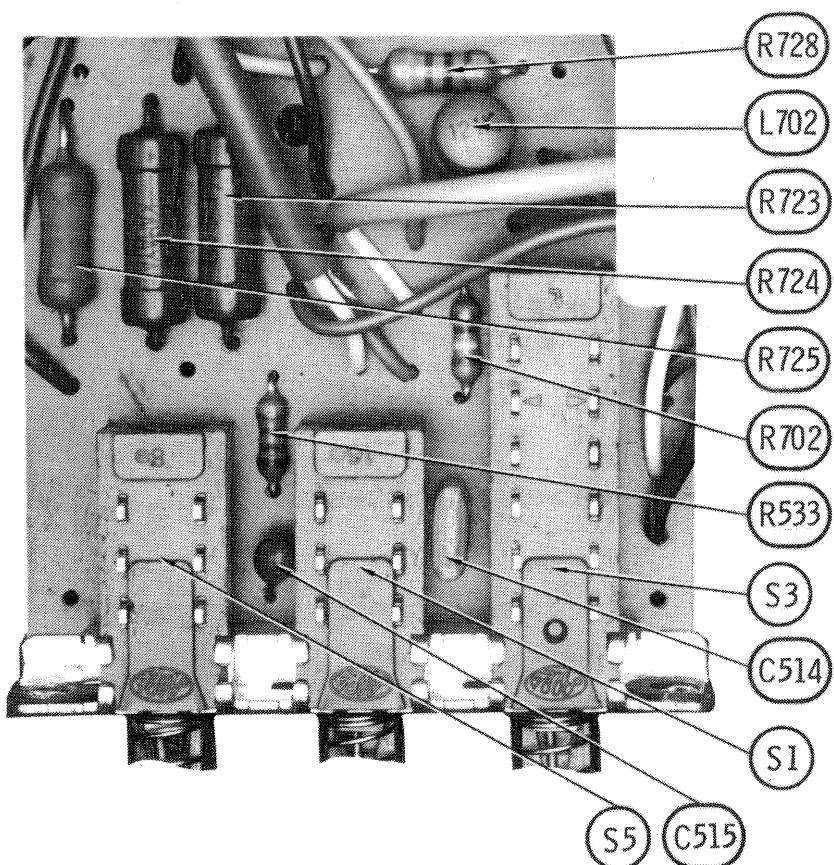
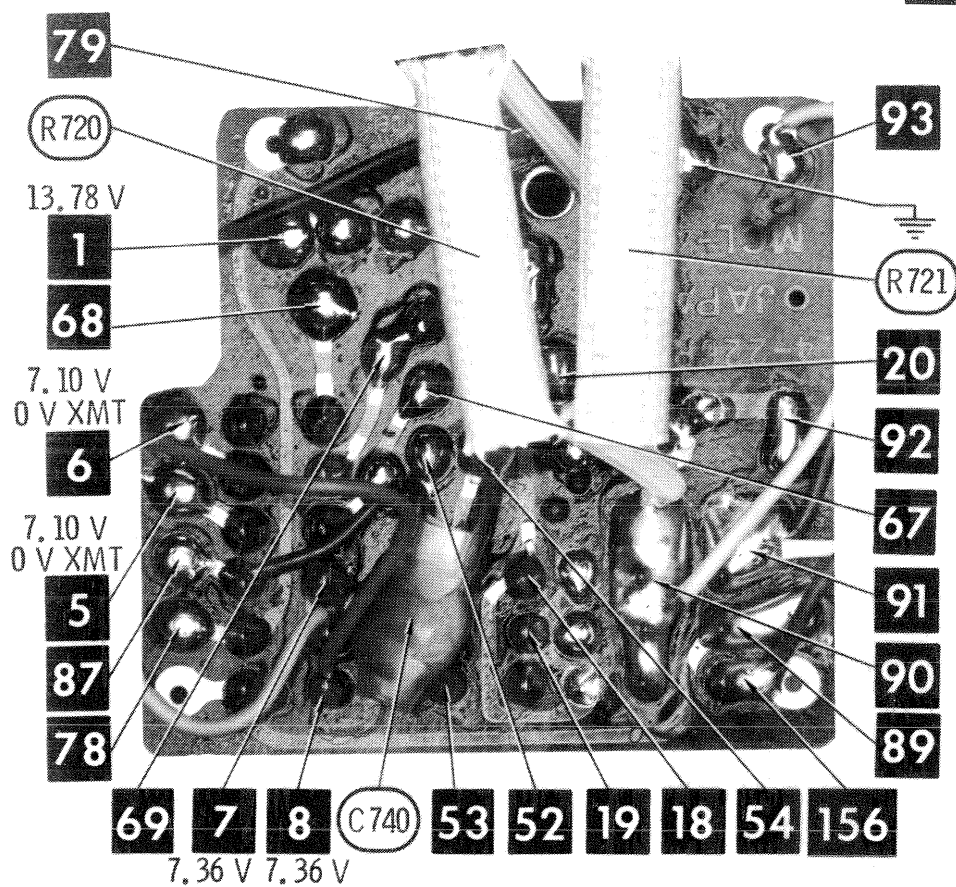
PLL BOARD



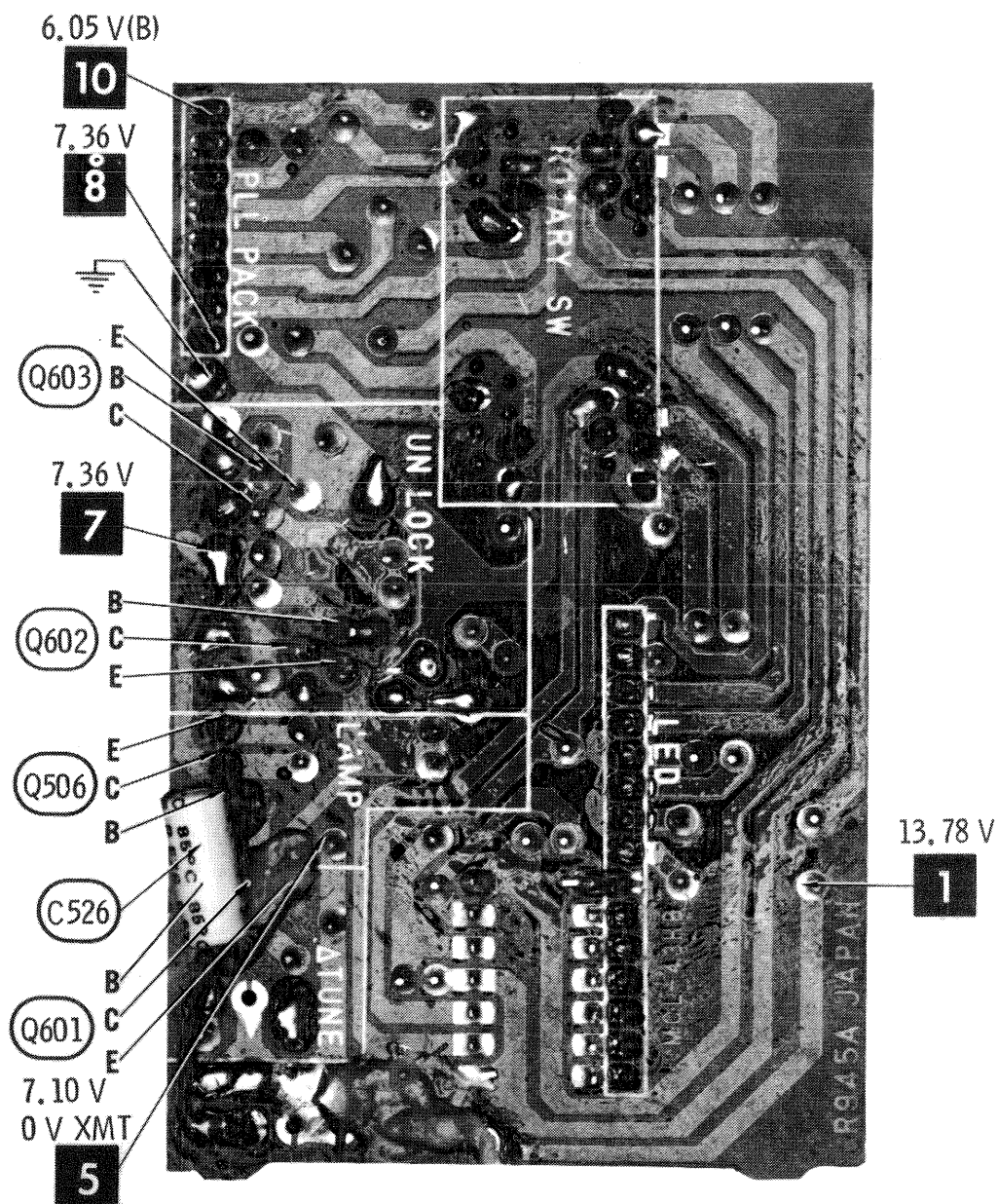
PLL BOARD



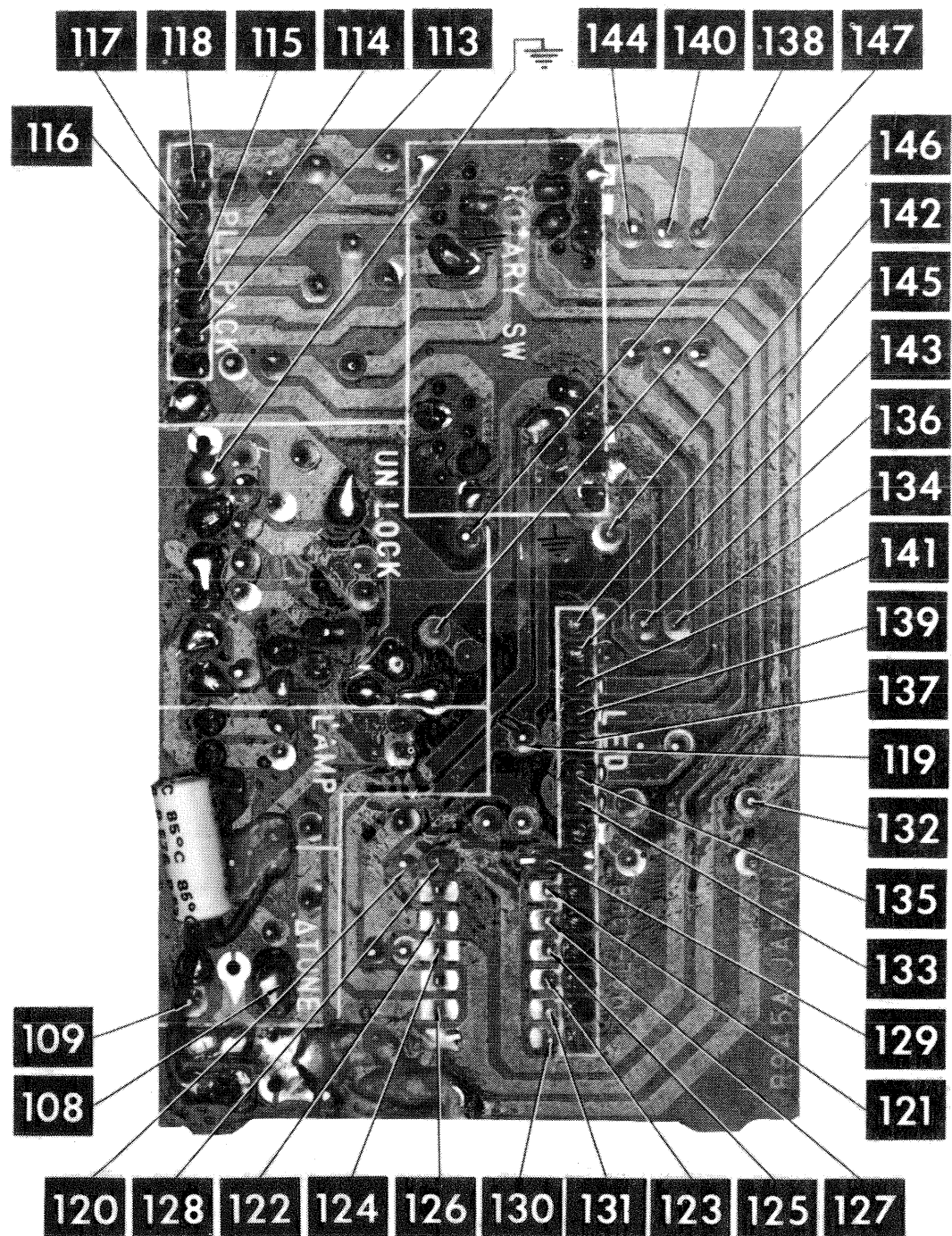
PLL BOARD



SWITCH BOARD

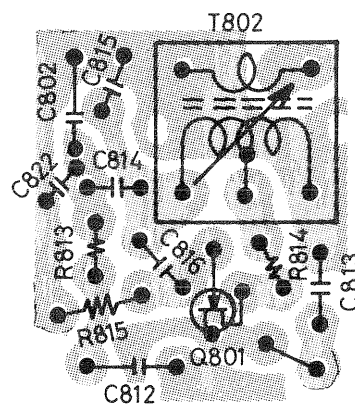
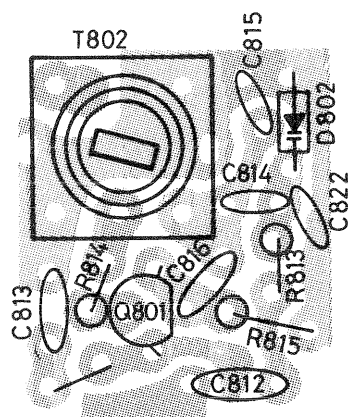


CH. SELECTOR BOARD



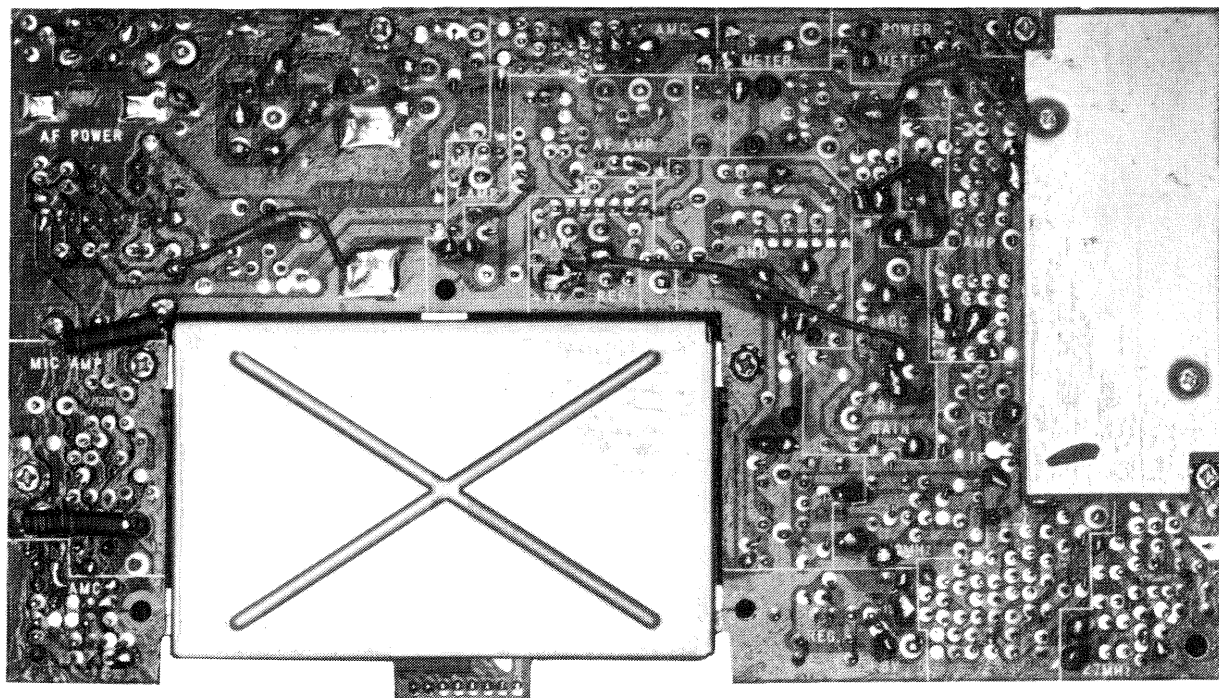
CH. SELECTOR BOARD





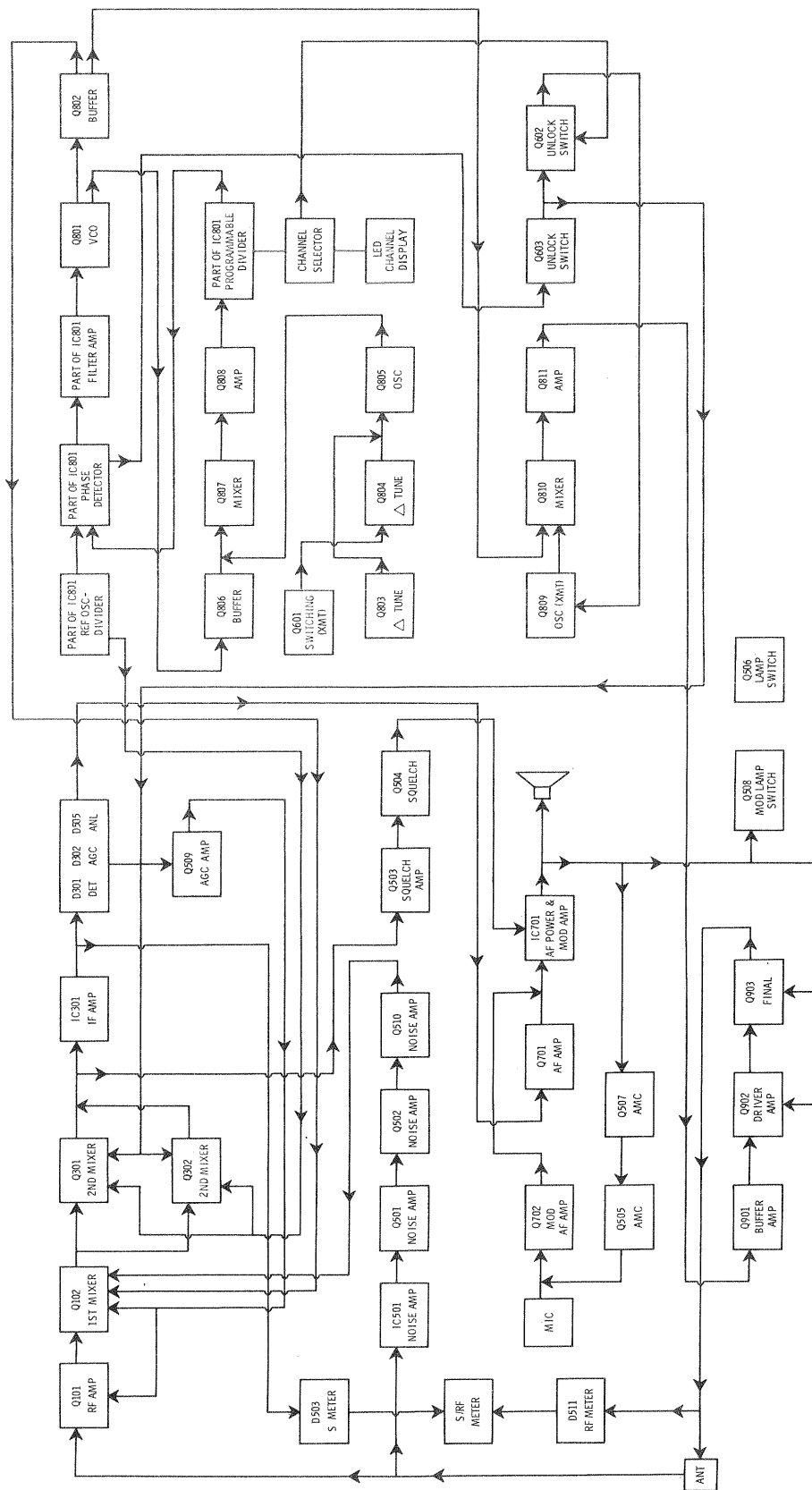
Courtesy of the Manufacturer

VCO BOARD



SHIELD LOCATION

BLOCK DIAGRAM



PARTS LIST AND DESCRIPTION

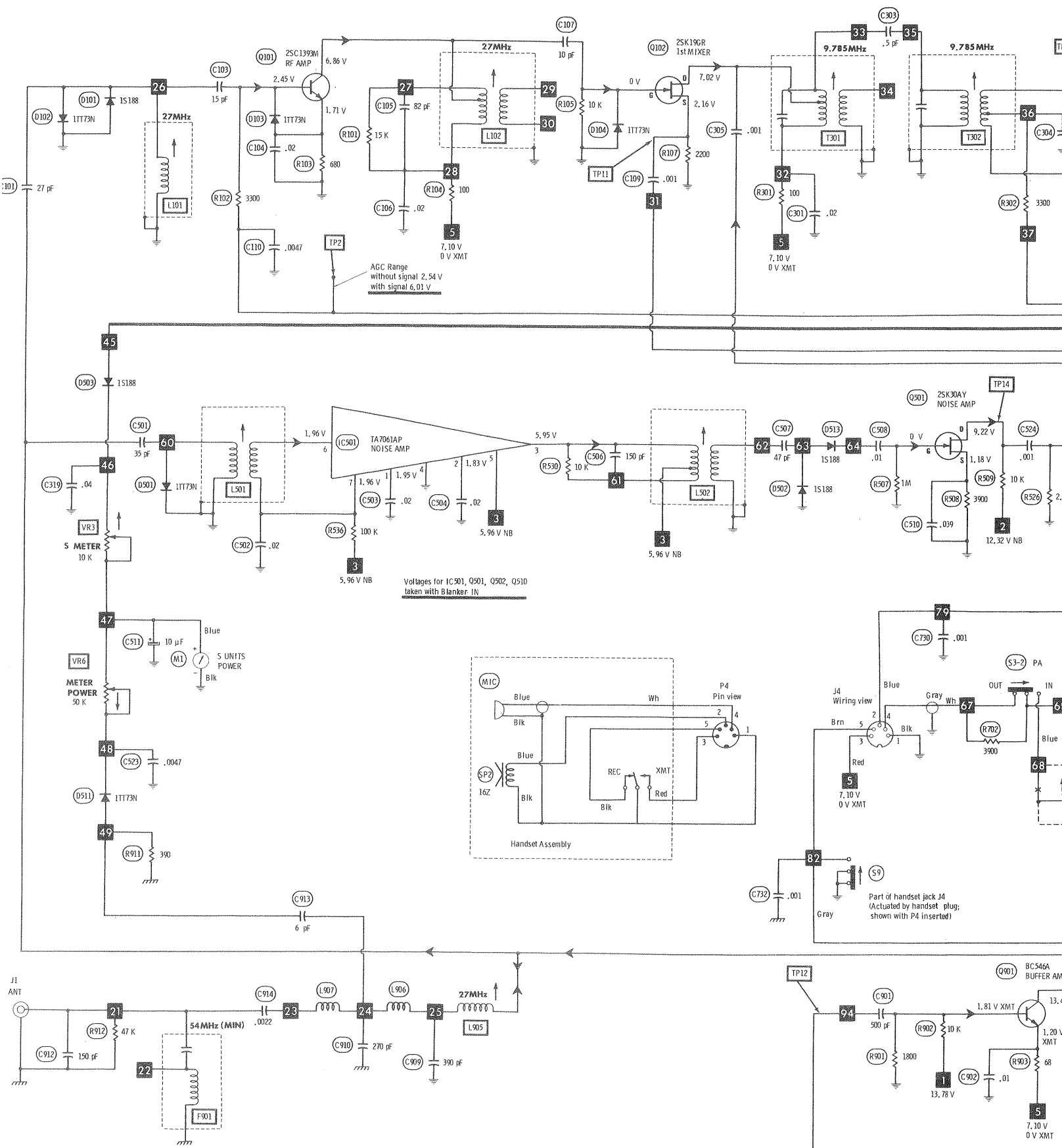
(When ordering parts, state Model, Part Number, and Description.)

WIRING DATA

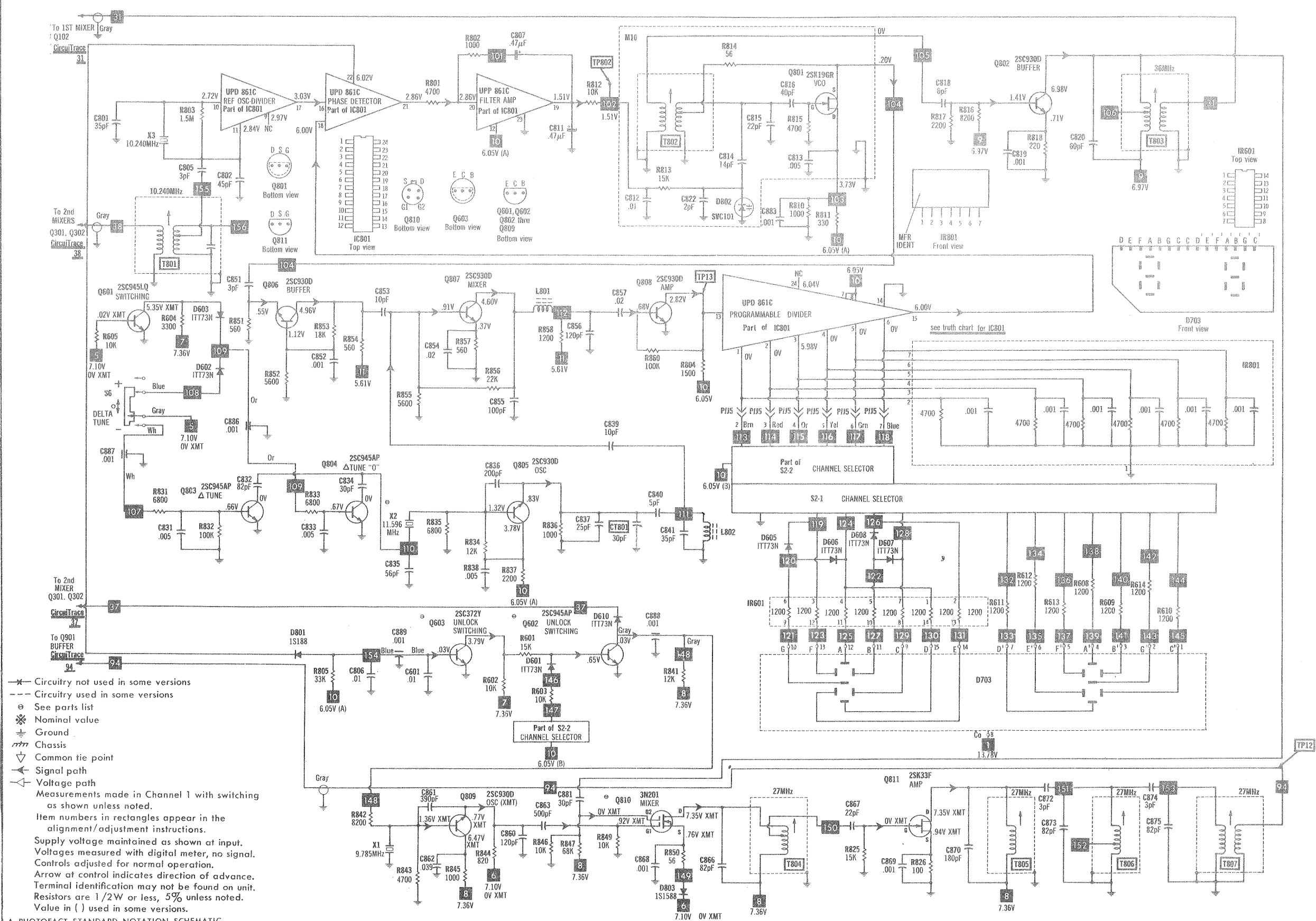
General-use Hook-up Wire (available in 5 colors)	BELDEN No. 8523	Coiled Microphone Cable	
Shielded Hook-up Wire (spiral wrapped)	BELDEN No. 8421	3-conductor (1 shielded) 23AWG	BELDEN No. 9471 (5')
(braided)	BELDEN No. 8401		BELDEN No. 8497 (6')
Speaker Cable (available in 4 colors)	BELDEN No. 8782		BELDEN No. 9472 (7-1/2')
Bonding Strap	BELDEN No. 8672	2SAWG	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')

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA										ZENITH PART No.
			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.		
D101	1S188	DX-0551	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	1N34A	WEP134	ZEN-430	
	1S188FMA	DX-0241	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	1N34A	WEP134	ZEN-430	
D102	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D103	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D104	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D301	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D302	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D501	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D502	1S188	DX-0551	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	1N34A	WEP134	ZEN-430	
	1S188FMA	DX-0241	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	1N34A	WEP134	ZEN-430	
D503	1S188	DX-0551	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	1N34A	WEP134	ZEN-430	
	1S188FMA	DX-0241	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	1N34A	WEP134	ZEN-430	
D504	XZ070		GEZD-6.8	ZB6.8A	HEP20409	REN 5071	SK3334	RT-238	ECG5071	1N4736A	WEP1106		
D505	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D506	DS130	DX-0099	GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	ECG116	1N4004	WEP156	212-76-02	
	DS130E	DX-0099	GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	ECG116	1N4004	WEP156	212-76-02	
D507	1S1587	DX-0272	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062		
D508	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D510	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D511	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D512	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D513	1S188	DX-0551	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	1N34A	WEP134	ZEN-430	
	1S188FMA	DX-0241	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	1N34A	WEP134	ZEN-430	
D514	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D601	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D602	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D603	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D604	R08.2EB	DX-0729	GEZD-8.2	ZB8.2B	HEP20409	REN 5072	SK3100	RT-257	ECG5072A	1N4738A	WEP1108		
D605	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D606	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D607	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D608	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D610	1T773N	DX-0733	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D701	DS130	DX-0099	GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	ECG116	1N4004	WEP156	212-76-02	
	DS130E	DX-0099	GE-504A	PTC201	HEPR0052	REN 116	SK3030	RT-213	ECG116	1N4004	WEP156	212-76-02	
D702	1S1555	DX-0270	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177		WEP1062		
D801	1S188	DX-0551	1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	1N34A	WEP134	ZEN-430	
D802	SVC101		GE-90		HEPR2503	REN 614		RT-262	ECG614		WEP200	ZEN-453	
D803	1S1588	DX-0273	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925		
D804	RD5.6EB	DX-0735	GEZD-5.6	ZM5.6B		REN 136		RT-236	ECG5011	1N4734A	WEP1412		
IC301	MS1171L												
	CX075B	MX-3240											
IC501	TA7061AP		GEIC-92	PTC781		REN 1100	SK3223	TVCM-78	ECG1301	TA7061AP	WEP941		
IC701	UPC1156H	MX-3372							ECG1100				
IC801	UPD861C	MX-3235							ECG1194				
Q101	2SC1393M		GE-62*	PTC136*	HEPS0015*	REN 123A*	SK3246	RT-105*	ECG123A*		WEP736*	121-29000*	
	2SC1393		GE-62*	PTC136*	HEPS0015*	REN 123A*	SK3246	RT-105*	ECG123A*		WEP736*	121-29000*	
Q102	2SK19GR		GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312			ZEN-123	
	2SK19		GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312			ZEN-123	
Q301	2SC930D		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127	
	2SC930		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127	
	2SC930D1		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127	
	2SC930D2		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127	
Q302	2SC930D		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127	
	2SC930		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127	







A PHOTOFAC STANDARD NOTATION SCHEMATIC
 WITH **CIRCUITRACE**
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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										WORKMAN PART No.	ZENITH PART No.
			GENERAL ELECTRIC PART No.	MALLOY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.				
Q501	2SC930D1		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127		
	2SC930D2		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127		
	2SK30AY		GE-FET-1	PTC161	HEPF0010	REN 133	SK3112	RT-176	ECG133		WEP801	ZEN-123		
	2SK30		GE-FET-1	PTC161	HEPF0010	REN 133	SK3112	RT-176	ECG133		WEP801	ZEN-123		
Q502	2SK30Y		GE-FET-1	PTC161	HEPF0010	REN 133	SK3112	RT-176	ECG133		WEP801	ZEN-123		
	2SA733Q		GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	2SA733	WEP916	121-933		
Q503	2SA733		GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	2SA733	WEP916	121-933		
	2SA733Q		GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	2SA733	WEP916	121-933		
Q504	2SC945AQ		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q505	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
	2SC945AQ		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q506	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q507	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q508	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q509	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q510	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q601	2SC945LQ		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127		
	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q602	2SC945AP		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q603	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q604	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q701	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q702	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q801	2SK19GR		GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312		WEP536	ZEN-123		
	2SK19		GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312		WEP536	ZEN-123		
Q802	2SC930D		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127		
	2SC930		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127		
Q803	2SC945AP		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q804	2SC945P		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q805	2SC945AP		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		
Q806	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
	2SC945Q		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000		
Q807	2SC930D		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127		
	2SC930		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127		
Q808	2SC930D		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127		
	2SC930		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127		
Q809	2SC930D2		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127		
	2SC930D		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	2SC930	WEP956*	ZEN-127		
Q810	2SC930		GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222		WEP905	121-826		
	3N201		GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222		WEP905	121-826		
Q811	3SK40K		GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312		WEP905	121-826		
	2SK33F		GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312		WEP905	121-826		
Q901	BC546A		GE-20	PTC136	HEPS0015	REN 199	SK3122	RT-108A	ECG199		WEP66	121-972		
	BC546		GE-20	PTC136	HEPS0015	REN 199	SK3122	RT-108A	ECG199		WEP66	121-972		
Q902	2SC1957		GE-270	PTC180	HEPS3044	REN 295	SK3197		ECG295		WEP913			
	2SC1909		GE-215	PTC186		REN 235	SK3197	RT-146	ECG235		WEP785			

* Lead configuration may vary from original.

(12) 750 MW @ 1.0 A.

(13) 10 W @ 3.0 A.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFGR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C317	10 10V	CT10106		TDC106M025FL	QDT1-64	SD25-109
C509	10 16V	CE16106	PC10-25	VTT10R25	QV1-41	EV-1222
C511	10 10V	CE10106	PC10-25	VTT10R25	QV1-41	EV-1222
C512	100 10V	CE10107	PC100-10	VTT100E10	QV1-93	EV-1130
C513	1 16V	CA16105	PC1-50	VTT1A50	QV1-9	EV-1315
C515	.47 35V	CT35474		TDC474M050EL	QDT1-19	SD50-R479
C516	3.3 10V	CT10335		TDC335M015FL	QDT1-41	SD15-3R39
C517	1 10V	CE10105	PC1-50	VTT1A50	QV1-9	EV-1315
C519	33 10V	CE10336	PC30-25	VTT33B10	QV1-61	EV-1125
C520	1 35V	CT35105		TDC105M035EL		SD35-19
C521	1 50V	CE50105		TDC105M050EL	QDT1-25	SD50-19
C526	4.7 16V	CE16475	PC5-50	VTT4R7B50	QV1-27	EV-1319
C527	33 6.3V	CE063336	PC30-25	VTT33B10	QV1-61	EV-1125
C528	4.7 6.3V	CE063475	PC5-50	VTT4R7B50	QV1-27	EV-1319
C602	100 10V	CE10107	PC100-10	VTT100E10	QV1-93	EV-1130
C603	33 16V	CE16336	PC30-25	VTT33D25	QV1-63	EV-1325
C701	.1 10V	CA10104		TDC104M050EL	QDT1-2	SD50-R109
C703	33 6.3V	CE063336	PC30-25	VTT33B10	QV1-61	EV-1125
C705	220 10V	CE10227	PC250-10	VTT220F10	QV1-115	EV-1140
C710	4.7 10V	CE10475	PC5-50	VTT4R7B50	QV1-27	EV-1319
C711	220 16V	CE16227	PC250-25	VTT220H16	QV1-117	EV-1240
C713	4.7 6.3V	CE063475	PC5-50	VTT4R7B50	QV1-27	EV-1300
C715	33 10V	CE10336	PC30-25	VTT33B10	QV1-61	EV-1125
C720	47 16V	CE16476	PC50-16	VTT47D16	QV1-73	EV-1226
C722	220 16V	CE16227	PC250-25	VTT220H16	QV1-117	EV-1240
C728	1 50V	CE50105	PC1-50	VTT1A50	QV1-11	EV-1615
C733	1000 16V	CE16108	PC1000-16	VTT1000L16	QV1-183	EV-1260
C803	10 10V	CT10106	PC10-25	VTT10R25	QV1-41	EV-1222
C804	100 6.3V	CE063107	PC100-10	VTT100E10	QV1-93	EV-1030
C807	.47 35V	CT35474		TDC474M050EL	QDT1-19	SD50-R479
C811	.47 35V	CT35474M		TDC474M050EL	QDT1-19	SD50-R479

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C101	27 N220 5%	R-CKD270J			*		10TCR-Q27
C103	15 N220	R-CKD150J			*		10TCR-Q15
C104	.02		UK50-223		MAG5012		
C105	82 N220 5%	R-CKD820J			*		10TCR-Q82
C106	.02		UK50-223		MAG5012		
C107	10		DTZ-10	NP010	CN0410		10TCC-Q10
C108	.0047		DD-472	GP4700	GP247		5GA-D47
C109	.001		DD-102		GP210		10TS-D10
C110	.0047		DD-472	GP4700	GP247		5GA-D47
C301	.02		UK50-223		MAG5012		
C303	.5			WMF05P5	EWFO5050		
C304	.01 50V			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C305	.001 50V			DPMS6D1	EWFA1210	QFT2-1	1FT-D10
C308	.033 50V			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C309	.039 50V			DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C310	500 5%			CD15FD511J03	SX351	QW1-43	MWA-511
C311	.039				GP140		5GA-S40
C312	70		DD-680	GP68	GP468		10TS-Q68
C314	.039				GP140		5GA-S40
C315	.039				GP140		5GA-S40
C316	.04				GP140		5GA-S40
C318	.01 50V			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C319	.04				GP140		5GA-S40
C501	35 N220 5%	R-CKD350J			*		10TCR-Q33
C502	.02		UK50-223		MAG5012		
C503	.02		UK50-223		MAG5012		
C504	.02		UK50-223		MAG5012		
C505	.022		UK16-223				
C506	150 N220 5%	R-CKD151J			*		HY-625
C507	47		DTZ-47	NP047	CN0447		10TCR-T15
C508	.01 50V			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C510	.039 50V			DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C514	.033 50V			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C518	.001		DD-102		GP210		10TS-D10
C522	.0047		DD-472	GP4700	GP247		5GA-D47
C523	.0047		DD-472	GP4700	GP247		5GA-D47
C524	.001 50V			DPMS6D1	EWFA1210	QFT2-1	1FT-D10
C525	100		DTZ-100	NP0100	CN0310		10TCC-T10
C601	.01		UK16-103		MAG1611		HY-420
C604	.001		DD-102		GP210		10TS-D10
C702	.047 50V			DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C704	.039 50V			DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C706	.02 50V 5%	R-CQ3223M					
C707	.01 50V			WMF1S1	EWFA1110	QFT2-91	1FT-S10
C708	.001		DD-102		GP210		10TS-D10
C709	.047 50V			DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C712	.033 50V			DPMS6S33	M192D3339R9	QFT2-149	1FT-S33
C714	.0047		DD-472	GP4700	GP247		5GA-D47
C716	220 5%		DTZ-220				10TCC-T22
C717	.22			WMF05P22	EWFO5022	QFT2-253	1FT-P33
C718	390 5%		DD-391	GP390	GP339		10TS-T39
C719	.033 50V			DPMS6S33	M192P3339R9	QFT2-149	1FT-S33

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 PART No.	
						Q-LINE	GENERAL LINE
C723	.001		DD-102		GP210		10TS-D10
C724	.001		DD-102		GP210		10TS-D10
C725	.001		DD-102		GP210		10TS-D10
C727	.001		DD-102		GP210		10TS-D10
C729	.001		DD-102		GP210		10TS-D10
C730	.001		DD-102		GP210		10TS-D10
C731	.001		DD-102		GP210		10TS-D10
C732	.001		DD-102		GP210		10TS-D10
C734	.039		DD-102		GP140		5GA-S40
C735	.039				GP140		5GA-S40
C736	.0022		DD-222		GP222	QC2-97	5GA-D22
C737	.001		DD-102		GP210		10TS-D10
C738	.001		DD-102		GP210		10TS-D10
C739	.001		DD-102		GP210		10TS-D10
C740	.033		UK50-333		MAG50133		
C801	35		DTZ-33	NP033	CN0433		10TCC-Q33
C802	45 5%	R-CKD450J					
C805	3		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C806	.01 50V			WMF1S1	EWFI1A110	QFT2-91	1FT-S10
C808	.039				GP140		5GA-S40
C809	.039				GP140		5GA-S40
C812	.01	R-CQS103M(1)					
C813	.005	R-CKD502Z(1)					
C815	22 N470 5%	R-CKD220J(1)					
C816	40 5%	R-CKD400J(1)					
C818	6		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C819	.001		DD-102		GP210		10TS-D10
C820	60 N220 5%	R-CKD600J					
C821	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C822	2 N330 .25%	R-CKD020J(1)					
C831	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C832	82		DTZ-82	NP082	CN0482		10TCC-Q82
C833	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C834	30		DTZ-33	NP033	CN0433		10TCC-Q33
C835	56 N220 5%	R-CKD560J					
C836	200		DTZ-200				10TCC-T20
C837	25 N220 5%	R-CKD250J					10TCR-Q25
C838	.005		DC-502	MGP005	TA250	QC2-123	TG-D50
C839	10		DTZ-10	NP010	CN0410		10TCC-Q10
C840	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
C841	35		DTZ-33	NP033	CN0433		10TCC-Q33
C851	3		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C852	.001		DD-102		GP210		10TS-D10
C853	10		DTZ-10	NP010	CN0410		10TCC-Q10
C854	.02		UK50-223		MAG5012		
C855	100 5%		DTZ-100	NP0100	CN0310		10TCC-T10
C856	120 5%		DTZ-120		CN0312		10TCC-T12
C857	.02		UK50-223		MAG5012		
C858	.02		UK50-223		MAG5012		
C859	.039				GP140		5GA-S40
C860	120 5%		DTZ-120		CN0312		10TCC-T12
C861	390 5%	R-CKD391J					
C862	.039				GP140		5GA-S40
C863	500		DD-501	GP500	GP350		10TS-T50
C865	.039				GP140		5GA-S40
C866	82 N220 5%	R-CKD820J			*		10TCR-Q82
C867	22		DTZ-22	NP022	CN0422		10TCC-Q22
C868	.001		DD-102		GP210		10TS-D10
C869	.001		DD-102		GP210		10TS-D10
C870	180 N220 5%	R-CKD181J			*		10TCR-T18
C871	.02		UK50-223		MAG5012		
C872	3		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C873	82		DTZ-82	NP082	CN0482		10TCC-Q82
C874	3		DTZ-3R3	NP03P3	CN0533		10TCC-V33
C875	82		DTZ-82	NP082	CN0482		10TCC-Q82
C880	.039				GP140		5GA-S40
C881	30		DTZ-33	NP033	CN0433		10TCC-Q33
C883	.001		DD-102		GP210		10TS-D10
C884	.022		UK16-223				HY-625
C886	.001	4-223R808					
C887	.001	4-223R808					
C888	.001	4-223R808					
C889	.001	4-223R808					
C890	.001	4-223R808					
C901	500		DD-501	GP500	GP350		10TS-T50
C902	.01		UK16-103		MAG1611		HY-420
C903	.02		UK50-223		MAG5012		
C904	50 N220 5%	R-CKD500J			*		10TCR-Q50
C905	.0022		DD-222		GP222	QC2-97	5GA-D22
C906	150 N220 5%	R-CKD151J			*		10TCR-T15
C907	82 N220 5%	R-CKD820J			*		10TCR-Q82
C908	.0022		DD-222		GP222	QC2-97	5GA-D22
C909	390 5%		DD-391	GP390	GP339		10TS-T39
C910	270		DTZ-270				10TCC-T27
C911	.01		UK16-103		MAG1611		HY-420
C912	150 5%		DTZ-150		CN0315		10TCC-T15
C913	6		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C914	.0022		DD-222		GP222	QC2-97	5GA-D22

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 PART No.	
						Q-LINE	GENERAL LINE
C915	.0022	179	DD-222	GP4700	GP222	QC2-97	5GA-D22
C916	.0022	179	DD-222		GP222	QC2-97	5GA-D22
C917	.0047	189	DD-472		GP247		5GA-D47
C918	.02	453	UK50-223		MAG5012		
C919	.0022	179	DD-222		GP222	QC2-97	5GA-D22
C920	.0022	179	DD-222		GP222	QC2-97	5GA-D22
C921	.001	170	DD-102		GP210		10TS-D10
C922	.001	170	DD-102		GP210		10TS-D10
C930	.001						
CT801	30	4-224R157					

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

(1)Part of M10.

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
VR1	RF Gain Range	5000	P-6433			U260R502B
VR2	Forward AGC	10K	P-6434			U260R103B
VR3	S Meter	10K	P-6434			U260R103B
VR4	Squelch/CB Out Switch	10K	P-0798			
VR5	Squelch Range	20K	4-222R71976			U260R253B
VR6	Power Meter	50K	P-6435			U260R104B
VR7-1	Volume	50K	P-1802(18)			
VR7-2	Volume PA	10K				
VR7-3	RF Gain/Power Switch	20K				
VR8	AMC	10K	P-6434			U260R103B
VR9	Reverse AGC	100K	4-222T41078			U260R104B

(18) Includes VR7-1, VR7-2, VR7-3 and S4.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFR. PART No.			WORKMAN PART No.	MFR. PART No.
IR501	Resistor Network		RX-0034	TH301	230 CoId NTC		T-1191
IR601	Resistor Network		RX-0043(1)				

(1) Consist of seven 1200 ohm resistors.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
F901	TVI Trap (54MHz)	C-0778			
L101	Rec RF (27MHz)	CA-3379		CBS-126	
L102	RF Amp (27MHz)	CA-4498		CBS742-T	
L501	Input Noise Amp	CA-4773			
L502	Output Noise Amp	CA-4498		CBS742-T	
L701	RF Choke	CB-2307			
L702	RF Choke	CB-2209			
L703	RF Choke	CB-2307			
L801	RF Choke (56uH)	CB-2308			
L802	RF Choke	CA-4780			
L901	Buffer Amp (27MHz)	CA-4715			
L902	RF Choke	CB-2263		74F186AP	
L903	Final	CA-4777			
L904	RF Choke	CB-2263		74F186AP	
L905	Final Loading (27MHz)	CA-4778			
L906	Pi Filter	CA-3793			
L907	RF Choke	CA-4872			
T301	IF (9.785MHz)	4-245R74930			
T302	IF (9.785MHz)	CA-7781			
T303	IF (455kHz)	CA-7539			
T304	IF (455kHz)	CA-7540			
T801	Input Rec Osc(10.240MHz)	CA-4876		8535	
T802	VCO	4-259R890			
T803	Buffer (36MHz)	CA-4782			
T804	Mixer (27MHz)	CA-4856			
T805	Harmonic Suppressor (27MHz)	CA-4873			
T806	Harmonic Suppressor (27MHz)	CA-4856			
T807	Harmonic Suppressor (27MHz)	CA-4874			

PARTS LIST AND DESCRIPTION (CONTINUED)

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

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFG. PART No.	THORDARSON PART No.	TRIAD PART No.	
L701	1.25A	.115	.94mH	CB-2307 R810(1)	TR574		(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFG. PART No.	THORDARSON PART No.	TRIAD PART No.	
T701	8	1 18 2 50	TD-0159 4R811(1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFG. PART No.	QUAM PART No.	
SP1	3" PM 8 ohms	S-4598	30A05Z8R	
SP2	2" PM 16 ohms	S-4599		

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA					
		PART No.		BUSS PART No.		LITTELFUSE PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER
F1	2A Quick Acting	HF-0087		AGC2	HDJ	312002	150145

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA						
	MFG. 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	Z-3621(1)				18-105						

(1) Hand set assembly.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
D703	LED	L-0809	Channel Display
F301	Filter	C-0621	455kHz
F302	Filter	C-0673	455kHz
IR501	Component Combination	RX-0034	TR806 (4-221R806)
IR601	Component Combination	RX-0043	RB7M-37 (4-221R807)
IR801	Component Combination	C-0799	C102R472 (4-227R801)
J1	Jack	J-0833	Antenna
J2	Jack	J-0867	Ext Spk
J3	Jack	J-0867	PA
J4	Jack	4-235R843	Handset
M1	Meter	M-0348	S/R
M10	Module	X-7411	VCO Assembly
PL1	Lamp	4-612R80971A	MOD 10.55V @ 38mA
PL2	Lamp	L-0808	Meter 8.09V @ 22mA
S1	Switch	S-7247	Blanker
S2	Switch	S-1274	Channel Selector
S3	Switch	S-7247	CB/PA
S5	Switch	S-7247	Spk
S6	Switch	S-2377	Delta Tune
S7	Switch	S-8158	Hookswitch
X1	Crystal	MX-2306	9.785MHz
X2	Crystal	MX-2308	11.596MHz
X3	Crystal	MX-2307	10.240MHz
	PLL	X-7491	
	P.C. Board	X-7489	Channel Selector
	P.C. Board	X-7488	Flexible (Between channel LED and channel selector)
	P.C. Board	X-7490	Switch

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

ITEM	PART No.	ITEM	PART No.
Cabinet, Top	Z-3622	Knob, RF Gain	K-2641
Cradle	HB-2797	Knob, Squelch	K-1989
Handset Holder, Right side	RT-0402	Back Lid	Z-3623
Handset Holder, Left side	RT-0430	Front Panel	Z-3624
Knob, Control	K-2640		