

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 77-882

MANUFACTURER'S SPECIFICATIONS

Circuitry:	3 ICs, 26 Transistors, 18 Diodes, 2 Zener Diodes, 1 Vari-cap
Frequency Control:	PLL (Phase Lock Loop) Synthesizing System
Channels:	40 channels all installed
Mode of Operation:	AM
Receiver System:	Dual Conversion Superheterodyne
Sensitivity:	Nominal 0.7 μ V (S/N 10 dB)
Selectivity:	More than 55 dB down at ± 10 kHz
Intermediate Frequency:	1st: 10.695 MHz 2nd: 455 kHz
Frequency Tolerance:	$\pm 0.005\%$
Spurious Rejection:	More than 60 dB
RF Output Power:	Maximum 4.0W (F.C.C. Maximum)
Squelch Range:	0.5 μ V — 500 μ V
Delta Tune:	About ± 1 kHz (Receiving only)
Audio Output Power:	More than 3W (EXT. SP at 8 ohms)
Controls:	VOLUME CONTROL/POWER SWITCH, PA/SQUELCH CONTROL, DELTA TUNE, CHANNEL SELECTOR, ANL SWITCH, EXT. CB/OFF SWITCH, NB SWITCH
Jacks and Connectors:	Microphone, EXT. SP, Antenna, EXT. CB/PA SP, DC POWER CORD
Speaker:	3" dynamic, 8 ohms
Microphone:	Dynamic CB mike
Power Source:	DC 13.8V
Size:	6-3/8 (W) $\times$ 7-7/8 (D) $\times$ 2-1/4 (H) inches
Weight:	3.8 lbs

Courtesy of the Manufacturer

MIDLAND MODEL 77-882

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

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Printed in U. S. of America

7CE618

ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment. Maintain line voltage at 120V AC. Allow a 15-minute warm-up period. Adjustments made with 13.8-volt DC input. Connect low sides of test equipment to ground unless specified otherwise. Connect 50-ohm dummy load or antenna before keying transmitter. Connect Microphone

Suggested Alignment Tools: GC Electronics:
 L14, T7 thru T10.....5009
 L7, L11, L12.....9304
 L1, L2, L5, T1 thru T6.....9440
 CT1.....5000

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of frequency counter to TP1.	Ch. 19	CT1	Adjust for 10.240MHz $\pm$ 50Hz.
Input of RF VTVM to TP2.	Ch. 19	T1	Adjust for maximum.
Input of DC meter to TP8.	Ch. 1	L1	Adjust for 3.6V $\pm$.1V.
Input of frequency counter to TP3.	Ch. 19, XMIT		Check for 10.695MHz.
Input of RF VTVM to TP4.	Ch. 19	L2, T2	Adjust for maximum.
Input of frequency counter to TP4.	Ch. 1		Check for 37.660MHz. Check all channels (Channel frequency + 10.695MHz = frequency on counter).

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.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP10. 455kHz, 1000Hz @ 30% modulation.	Ch. 19, Delta Tune 0 Squelch MIN ANL Off NB Off	T10, T9, T8	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19, Delta Tune 0 Squelch MIN ANL Off NB Off	T7, L14, T6, T5	Adjust for maximum output. It may be necessary to readjust T8, T9 and T10.

RECEIVER ADJUSTMENTS

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 1000uV.	Ch. 19, Delta Tune 0 ANL Off NB Off	RV1	SQUELCH RANGE Set Squelch Control RV2 fully clockwise. Adjust RV1 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 1000uV.	Ch. 19, Delta Tune 0 ANL Off NB Off	RV3	S METER Adjust RV3 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 transmit frequency and power on all active channels after alignment of transmitter.

See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
	Ch. 19	L5, T3, T4, L7, L11, L12	Adjust for maximum.
	Ch. 19	L12	Adjust for 3.80 watts maximum.

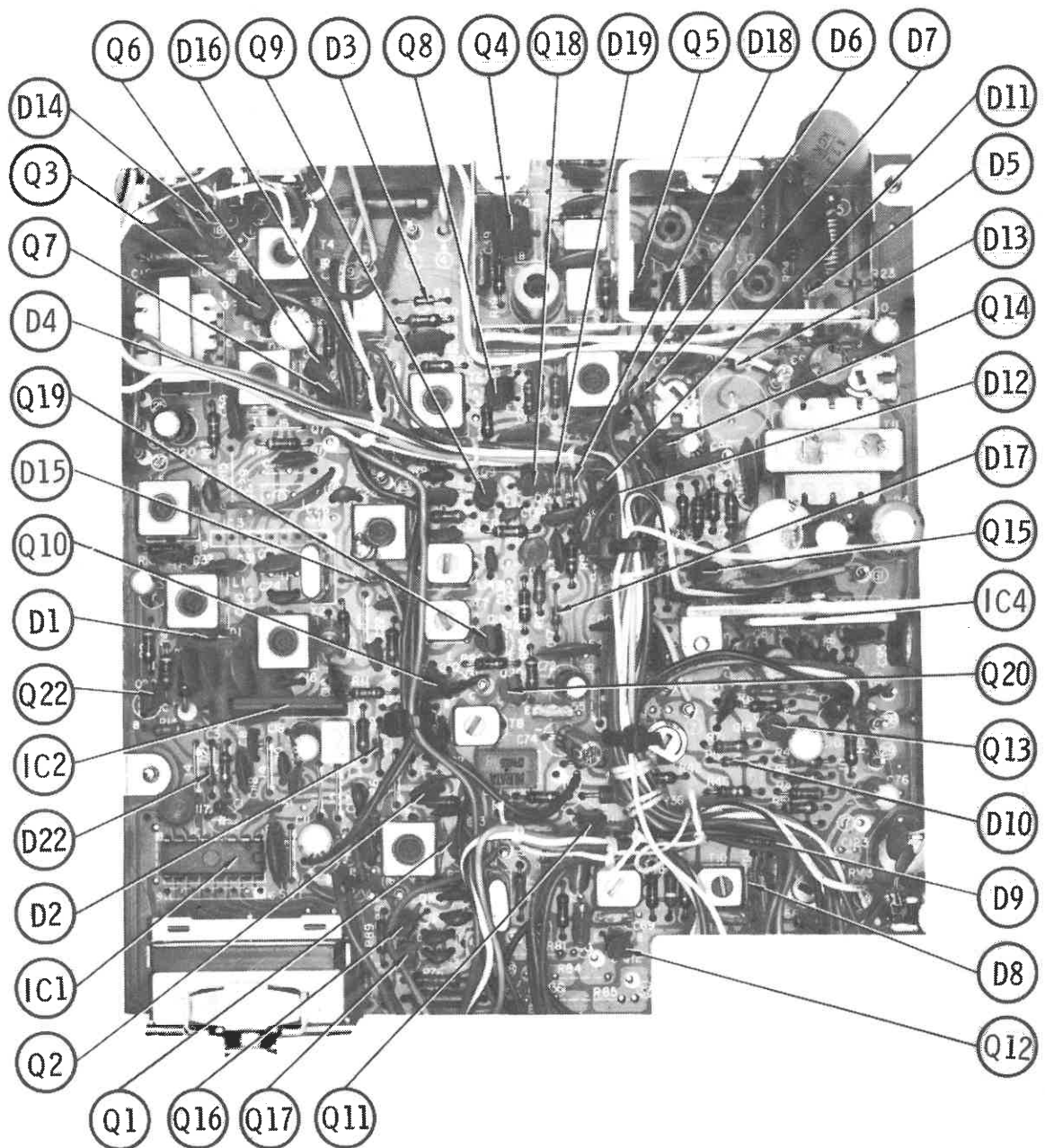
TRANSMITTER ADJUSTMENTS

Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.

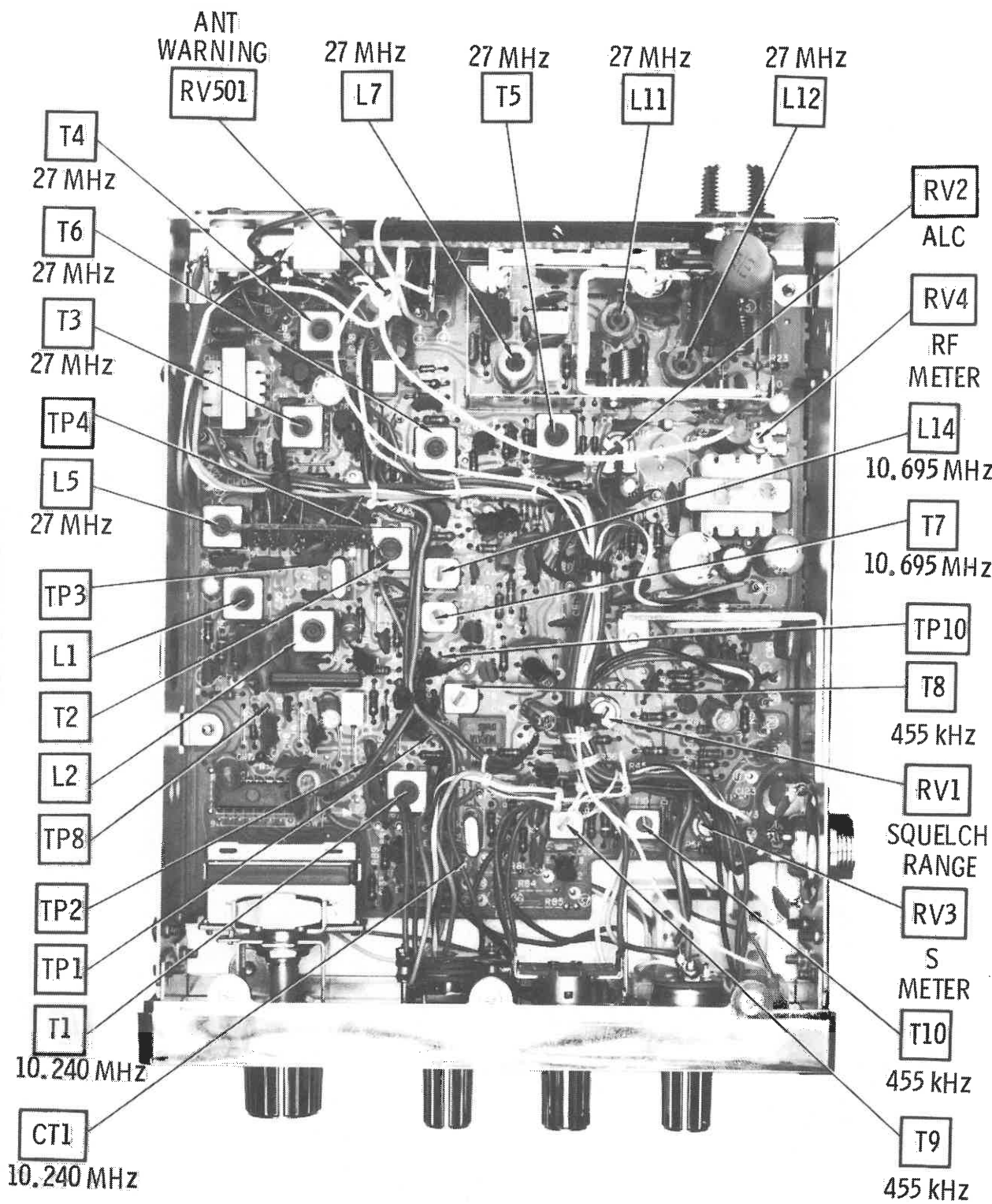
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.

See page 4 for channel frequencies.

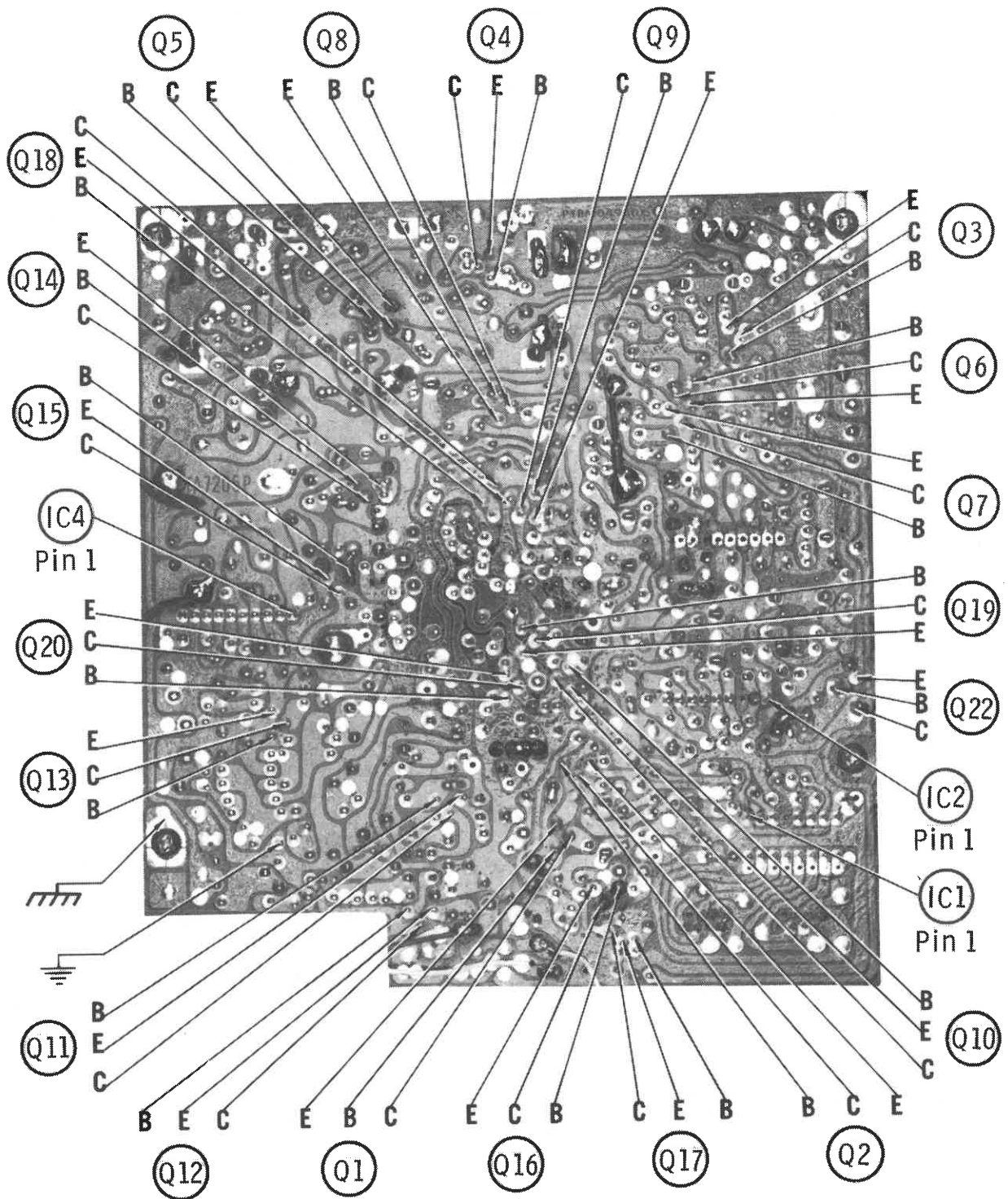
TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Modulation meter to antenna jack. Inject a 6mV, 1000Hz signal at MIC input.	Ch. 19	RV2	ALC Adjust for 80% modulation.
	Ch. 19	RV4	RF PANEL METER Adjust RV4 so that RF panel meter agrees with RF wattmeter.
Connect a 250 Ohm non-inductive resistor to antenna jack.	Ch. 19	RV501	ANTENNA WARNING Adjust RV501 so antenna warning indicator lights.



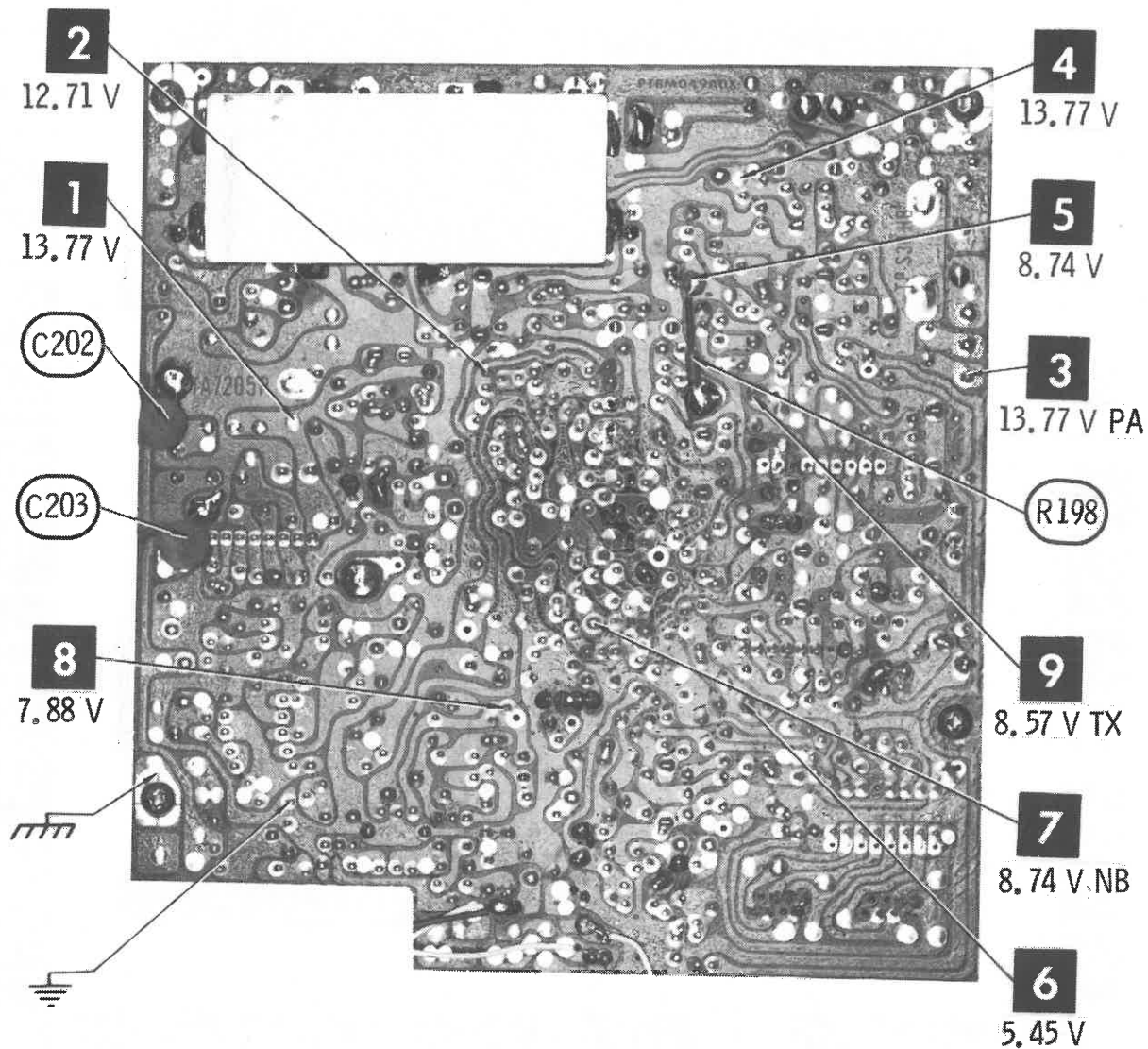
MAIN BOARD



CHASSIS - BOTTOM

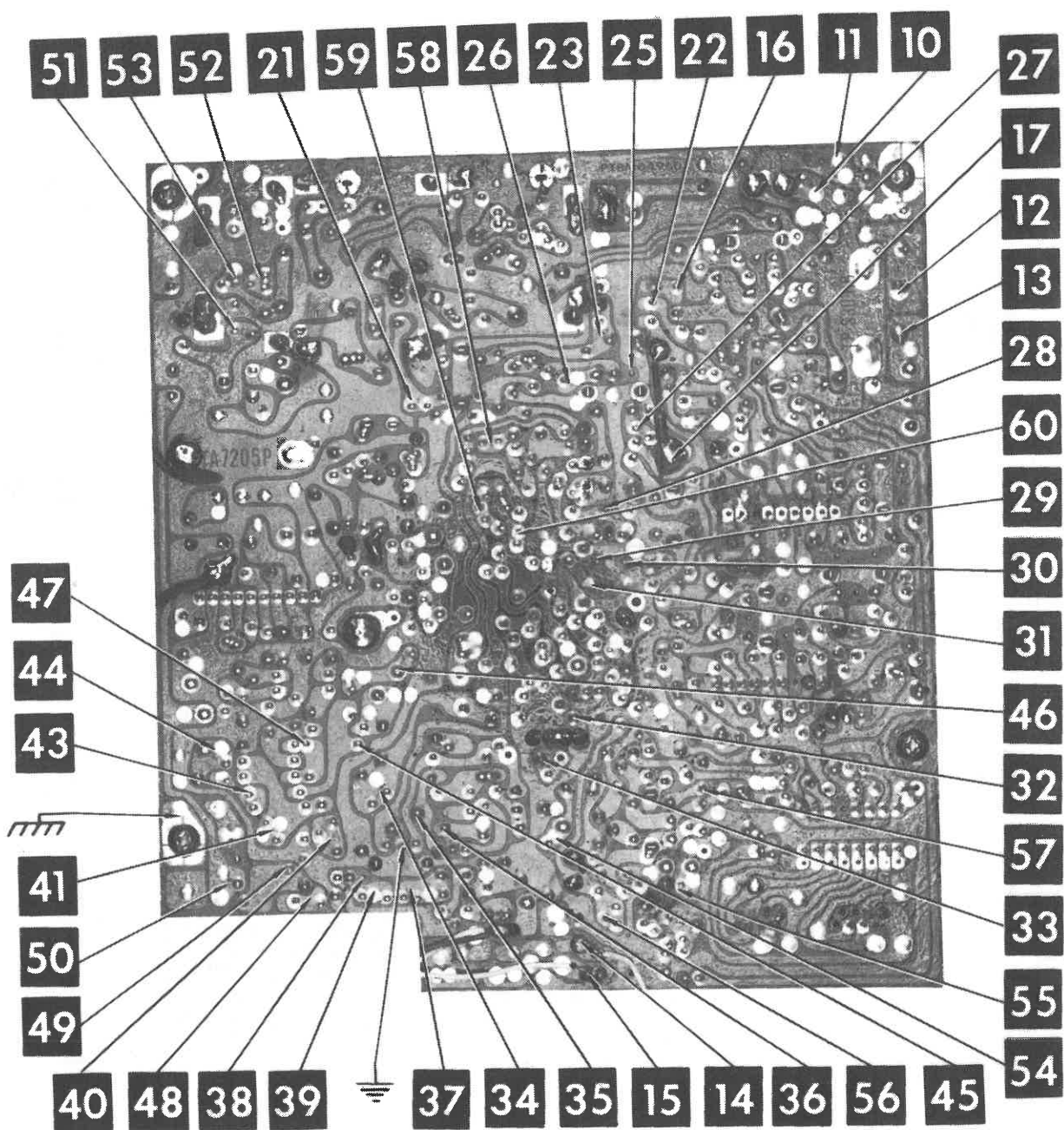


MAIN BOARD

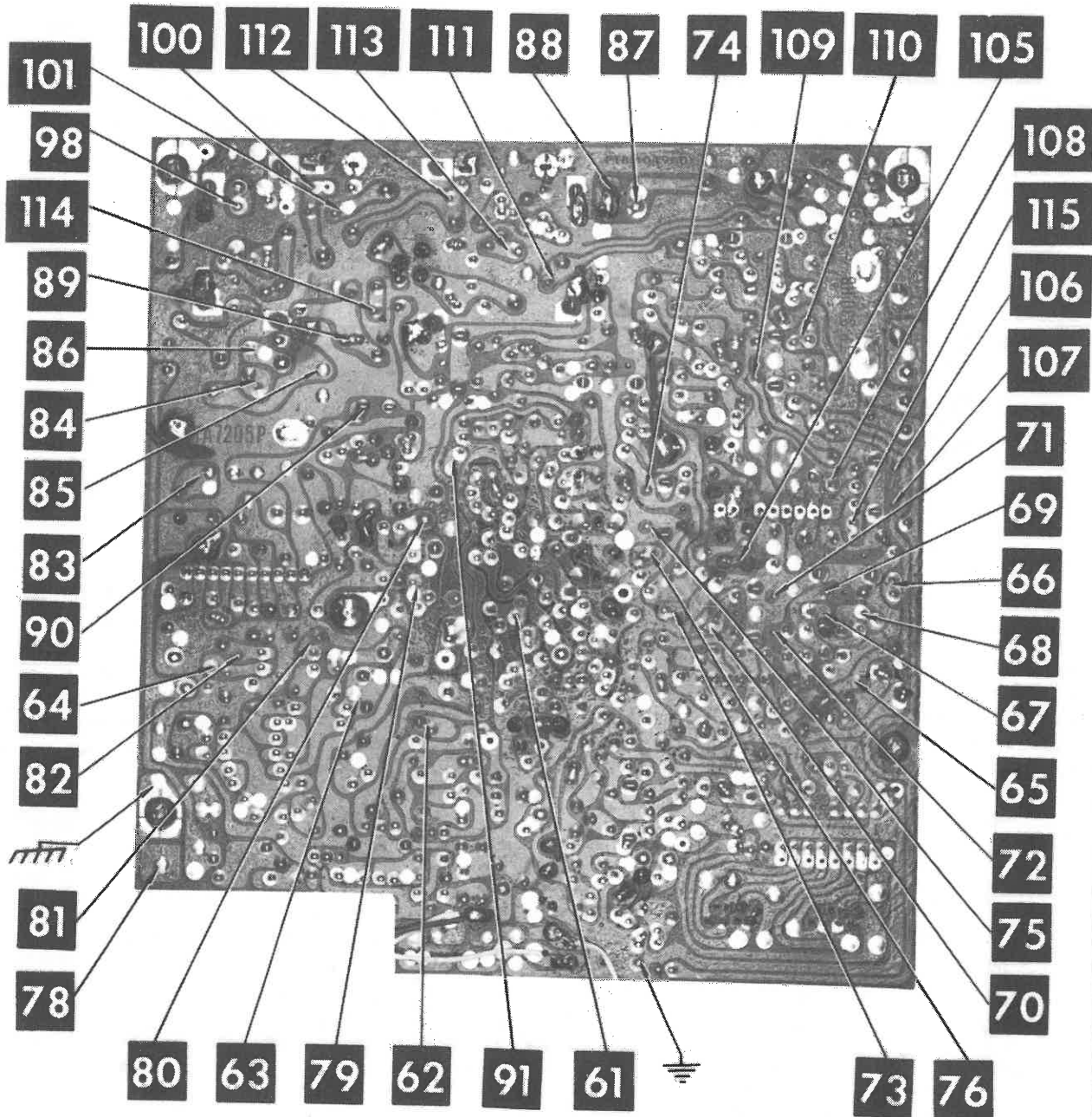


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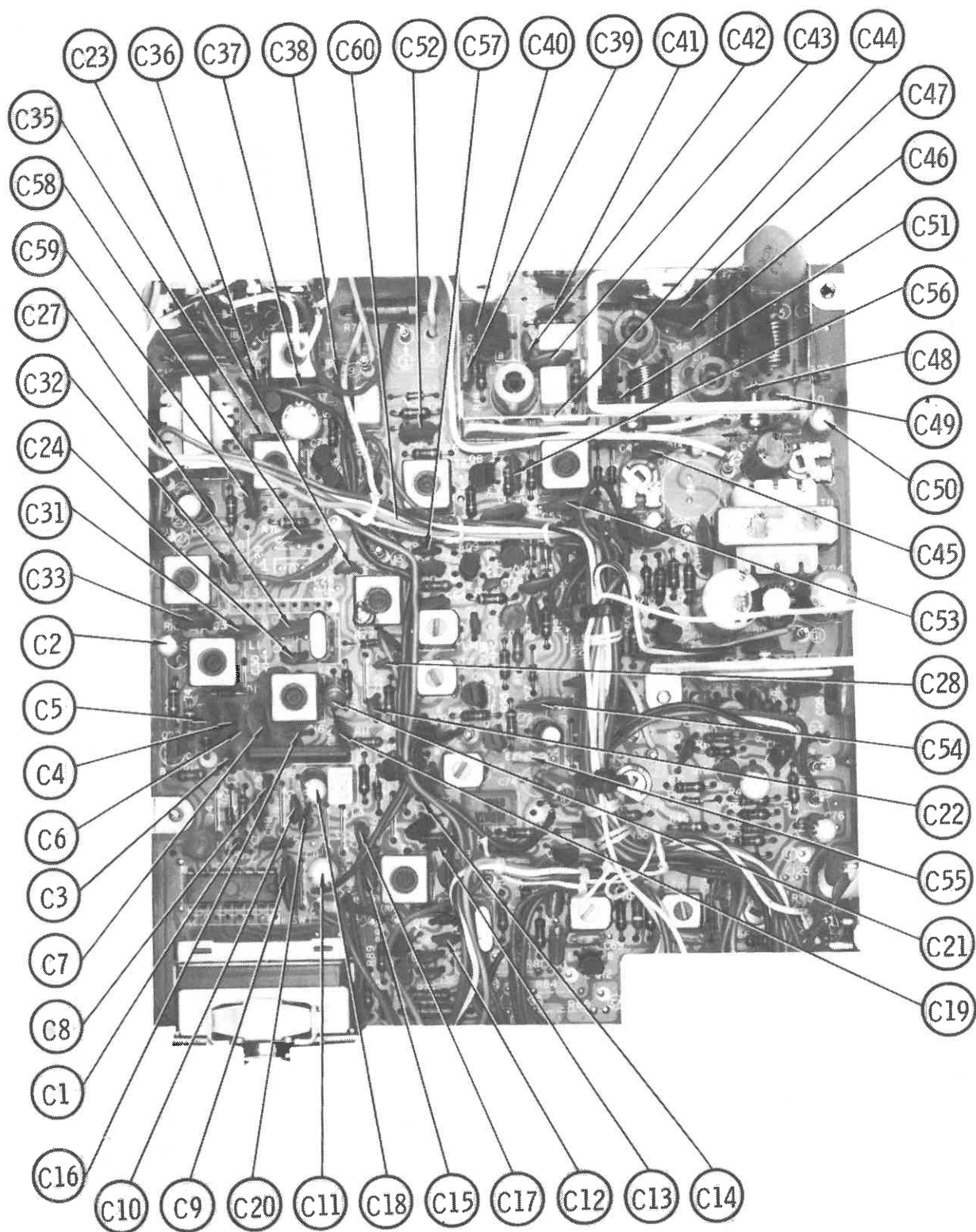
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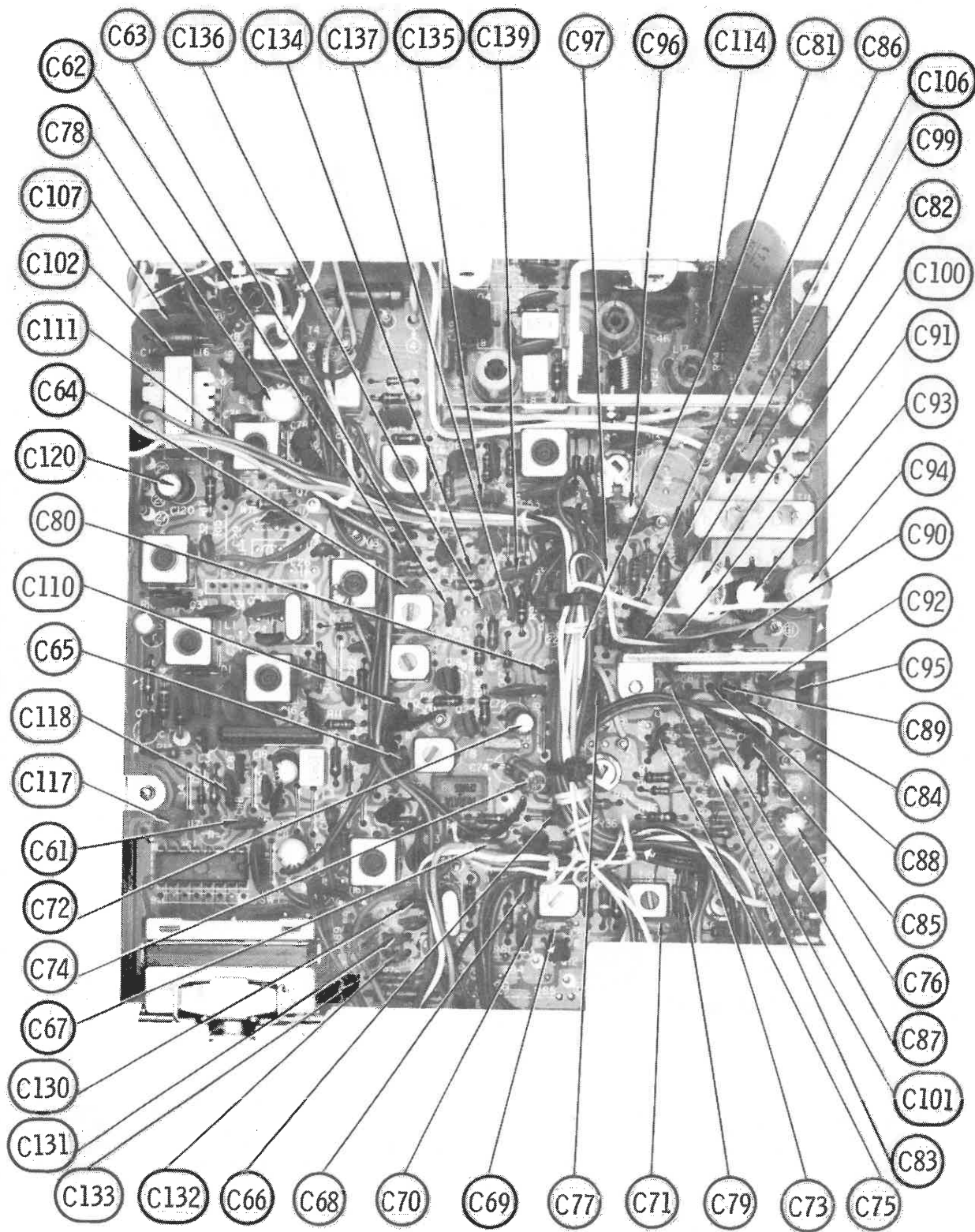
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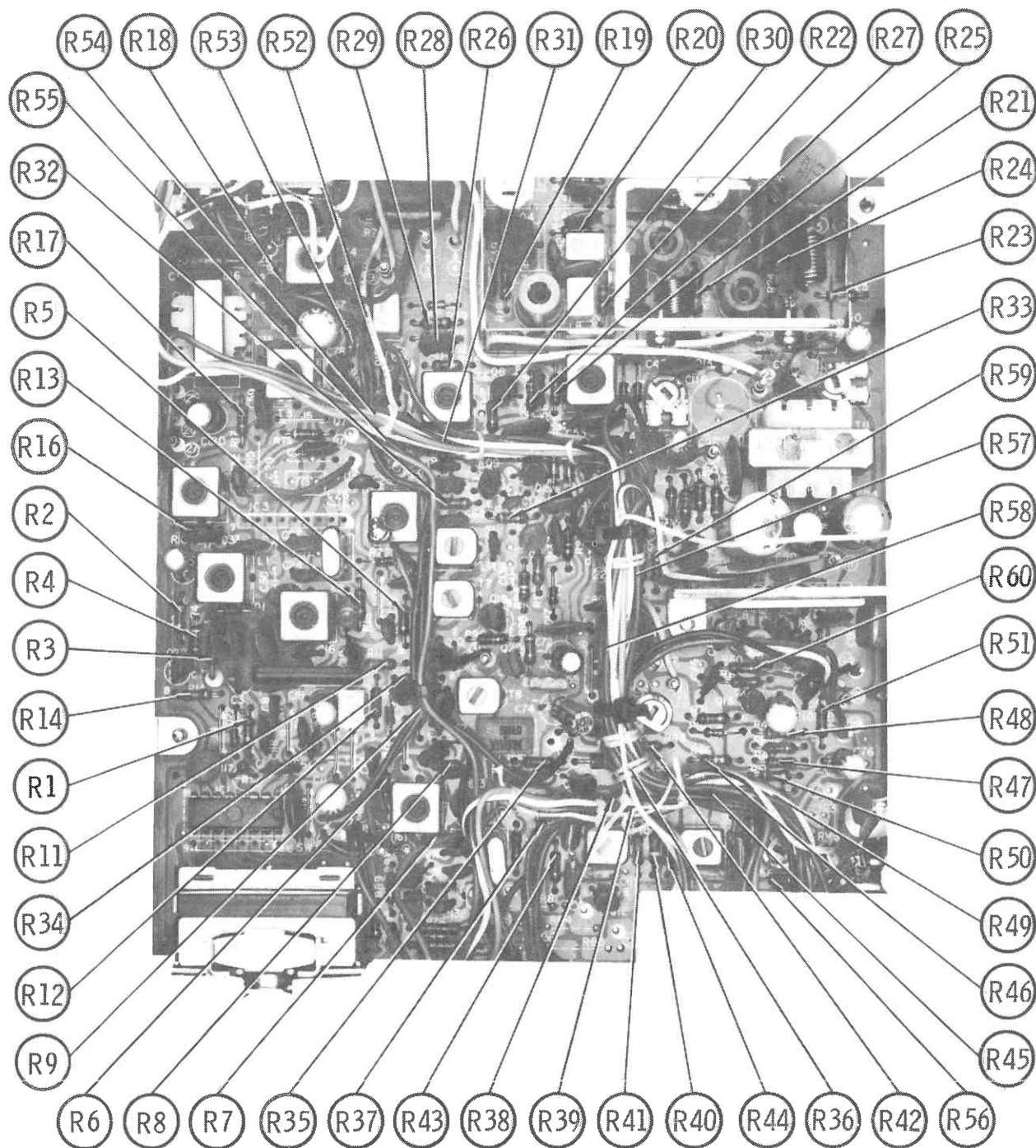
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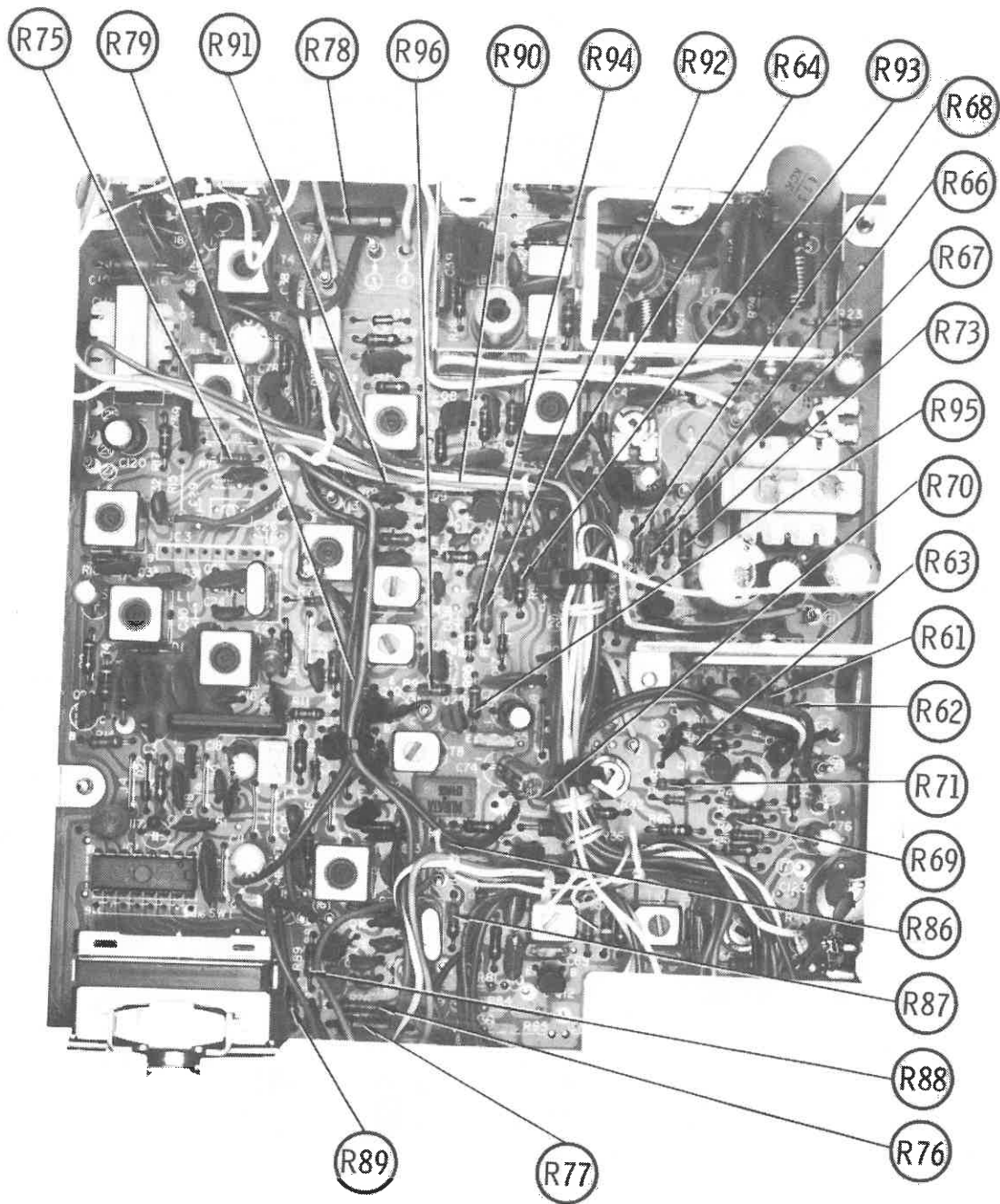
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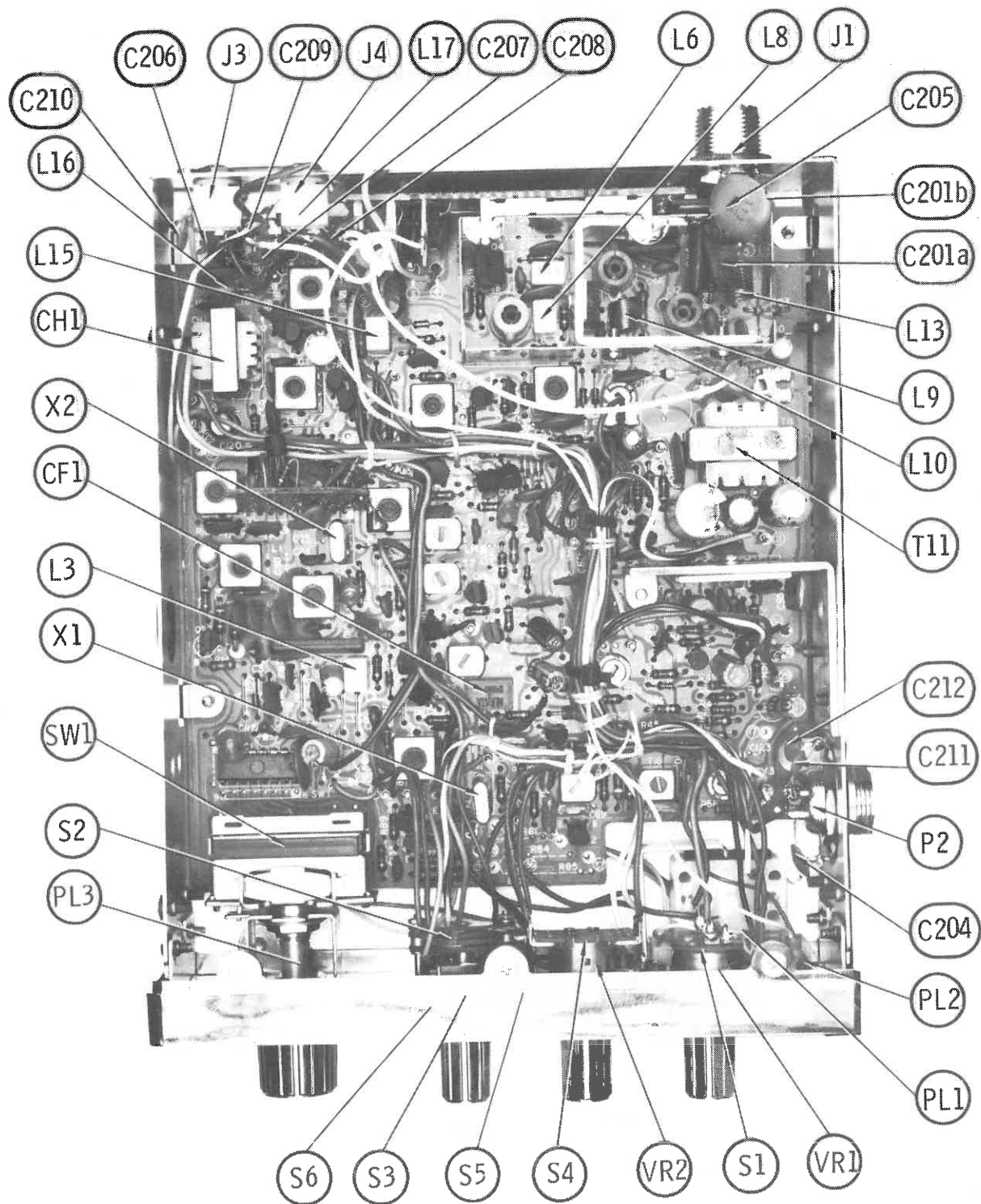
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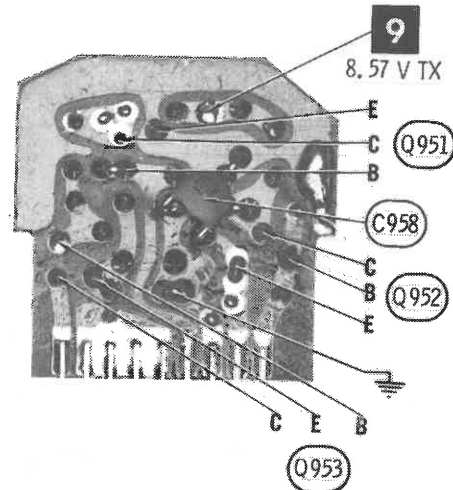
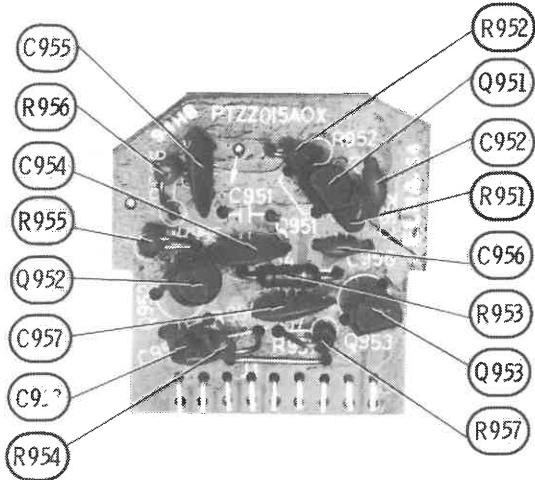
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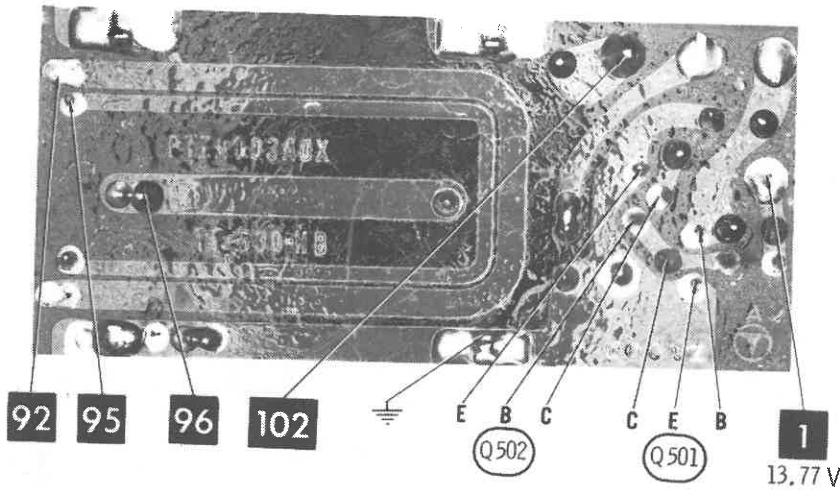
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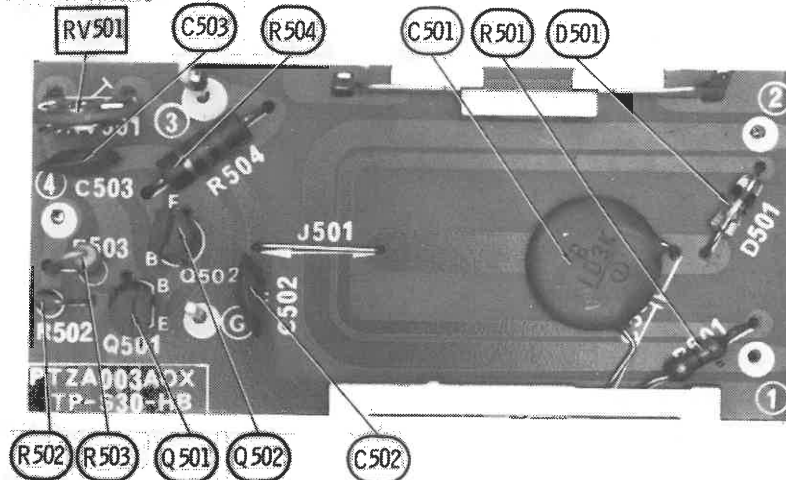
MAIN BOARD



XMIT OSC BOARD

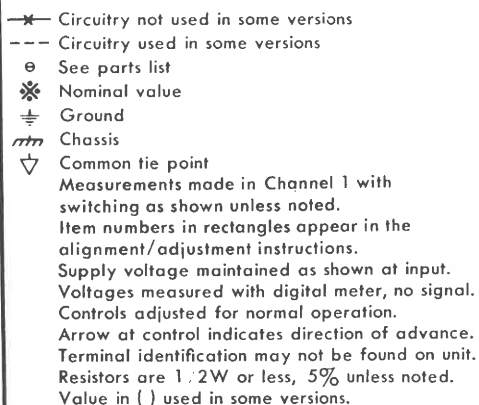


ANT WARNING



ANT WARNING BOARD

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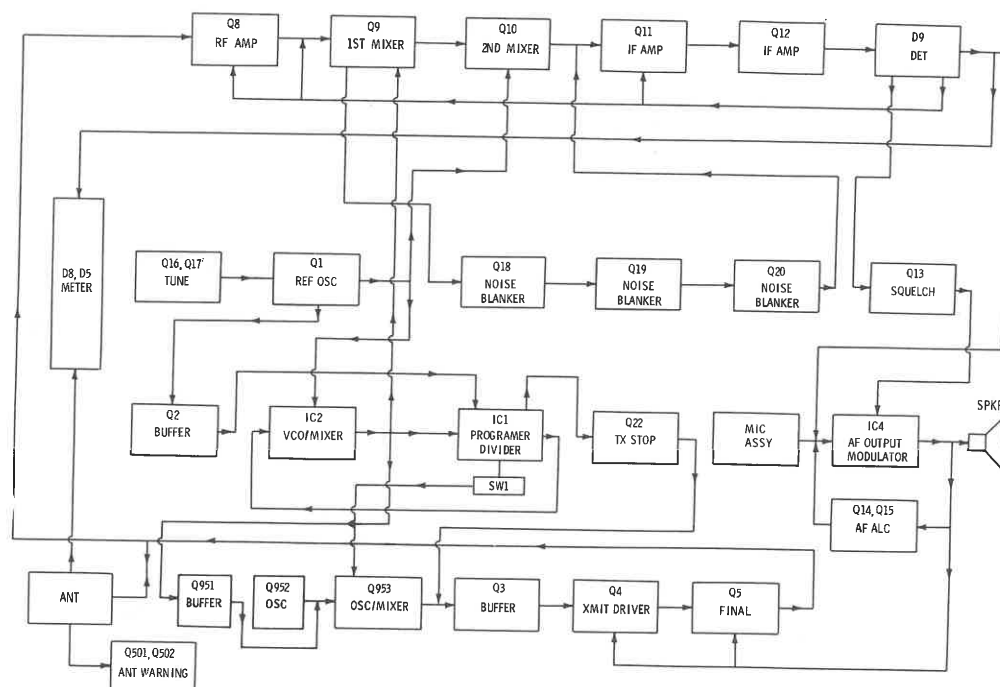


TRUTH CHART

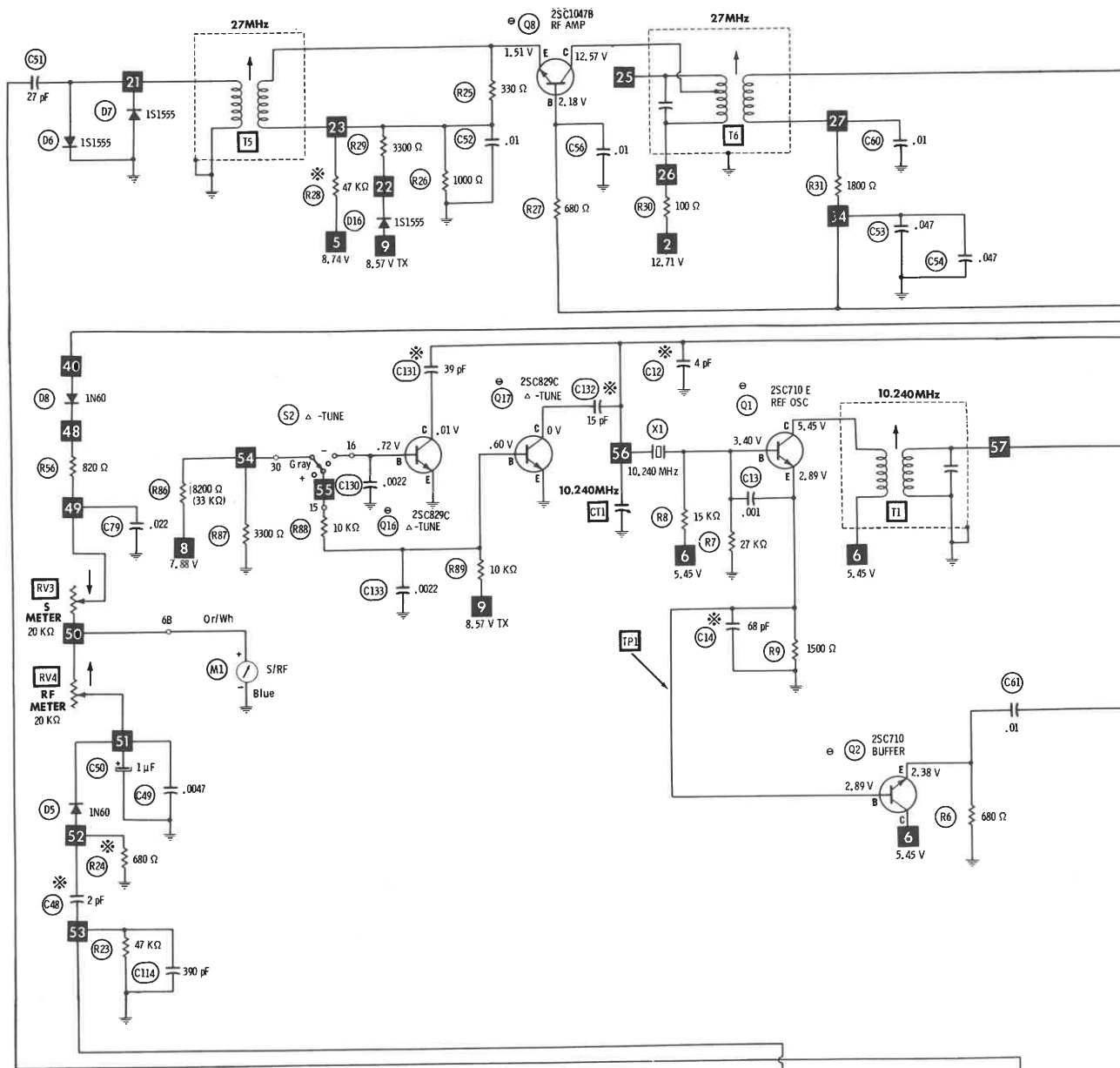
1 = 5.45 Volts 0 = 0 Volts								
CHANNEL	IC1 PROGRAM DIVIDER							REC & XMT VCO OUTPUT IN MHz AT TP4
	PINS							
	9	10	11	12	13	14	15	
	9	10	11	12	13	14	15	
1	1	0	0	1	0	1	0	37.660
2	1	0	0	1	0	0	1	37.670
3	1	0	0	1	0	0	0	37.680
4	1	0	0	0	1	1	0	37.700
5	1	0	0	0	1	0	1	37.710
6	1	0	0	0	1	0	0	37.720
7	1	0	0	0	0	1	1	37.730
8	1	0	0	0	0	0	1	37.750
9	1	0	0	0	0	0	0	37.760
10	0	1	1	1	1	1	1	37.770
11	0	1	1	1	1	1	0	37.780
12	0	1	1	1	1	0	0	37.800
13	0	1	1	1	0	1	1	37.810
14	0	1	1	1	0	1	0	37.820
15	0	1	1	1	0	0	1	37.830
16	0	1	1	0	1	1	1	37.850
17	0	1	1	0	1	1	0	37.860
18	0	1	1	0	0	0	1	37.870
19	0	1	1	0	1	0	0	37.880
20	0	1	1	0	0	1	0	37.900

CHANNEL	1 = 5.45 Volts 0 = 0 Volts							REC & XMT VCO OUTPUT IN MHz AT TP4
	IC1							
	PROGRAM DIVIDER							
	PINS							
	9	10	11	12	13	14	15	
21	0	1	1	0	0	0	1	37.910
22	0	1	1	0	0	0	0	37.920
23	0	1	0	1	1	0	1	37.950
24	0	1	0	1	1	1	1	37.930
25	0	1	0	1	0	1	0	37.940
26	0	1	0	1	1	0	0	37.960
27	0	1	0	1	0	1	1	37.970
28	0	1	0	1	0	1	0	37.980
29	0	1	0	1	0	0	1	37.990
30	0	1	0	1	0	0	0	38.000
31	0	1	0	0	1	1	1	38.010
32	0	1	0	0	1	1	0	38.020
33	0	1	0	0	1	0	1	38.030
34	0	1	0	0	1	0	0	38.040
35	0	1	0	0	0	1	1	38.050
36	0	1	0	0	0	1	0	38.060
37	0	1	0	0	0	0	1	38.070
38	0	1	0	0	0	0	0	38.080
39	0	0	1	1	1	1	1	38.090
40	0	0	1	1	1	1	0	38.100

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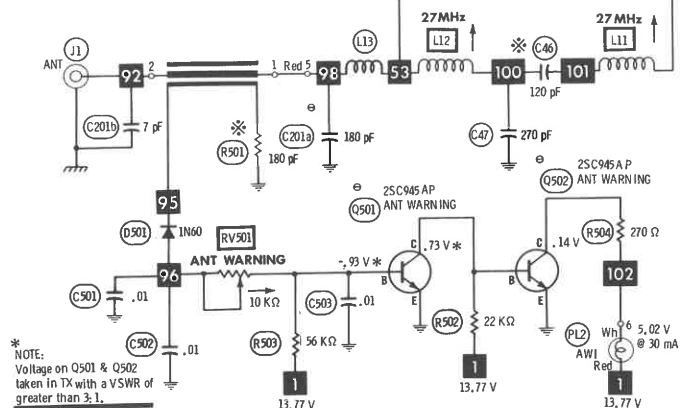
BLOCK DIAGRAM



✖ Circuitry not used in some versions
 --- Circuitry used in some versions
 Ⓢ See parts list
 * Nominal value
 Ⓢ Ground
 Ⓢ Chassis
 ▽ Common tie point
 Measurements made in Channel 1 with switching as shown unless noted.
 Item numbers in rectangles appear in the alignment/adjustment instructions.
 Supply voltage maintained as shown at input.
 Voltages measured with digital meter, no signal.
 Controls adjusted for normal operation.
 Arrow at control indicates direction of advance.
 Terminal identification may not be found on unit.
 Resistors are 1/2W or less, 5% unless noted.
 Value in () used in some versions.

A PHOTOFAC STANDARD NOTATION SCHEMATIC
 WITH CIRCUITACE®

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NOTE:
 Voltage on Q501 & Q502 taken in TX with a VSWR of greater than 3:1.



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.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	ITT-410	(1)	GE-90	D201	PTC311	HEPR2503	RE 195	SK3126	RT-262	ECG610
D3	BB142		GE-90	D201	PTC311	HEPR2503	RE 195	SK3126	RT-262	ECG610
D4	MY201		GE-90	D201	PTC311	HEPR2503	RE 195	SK3126	RT-262	ECG610
D2	MZ205	(1)	GEZD-9.1	WEP602	ZB9.1B		RE 105			ECG135
D3	RD9.1E		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-240	ECG139A
D4	1S1555		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-218	ECG109
D5	1N60	(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG109
D6	1S1555		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG109
D7	1S1555		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG109
D8	1N60	(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG109
D9	1N60		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG109
D10	1S1555		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG109
D11	1S1555	(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG109
D12	1S1555		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG109
D13	Y06C		GE-504A	5A60	PTC202	HEPRO054	RE 49	SK3017A	RT-215	ECG116
D14	1S1885	(1)	GE-504A	5A4D	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116
D15	1S1555		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG116
D16	1S1555		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG116
D17	1S1555	(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG116
D18	1N60		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG116
D19	1N60		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG116
D22	1S1555	(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG116
D501	1N60		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG116
IC1	PLL02A		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
IC2	PLL02	(1)					RE 360-IC			ECG1167
	C3001						RE 360-IC			ECG1167
	TA7310P									ECG1192
IC4	TA7205P	(1)	GEIC-179	WEP949	PTC780		RE 357-IC	SK3231	TVM-81	ECG1155
Q1	2SC710E		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q2	2SC710DE	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710E		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q3	2SC710DE	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC1687		GE-20 *	TR-24 *	PTC121 *	HEPS0015 *	RE 13 *	SK3018 *	RT-107A *	ECG123A *
Q4	2SC1760		GE-20 *	TR-24 *	PTC121 *	HEPS0015 *	RE 13 *	SK3018 *	RT-107A *	ECG123A *
	2SC1846	(1)	GE-276	WEP1014			RE 224			ECG306
	2SC2036		GE-336				RE 209			ECG306
	2SC1846Q		GE-336				RE 209			ECG306
	2SC1846R	(1)	GE-276	WEP1014			RE 224			ECG306
	2SC1846S		GE-276	WEP1014			RE 224			ECG306
	2SC1678		GE-322	WEP1678	PTC186		RE 203	SK3197	RT-146	ECG235
Q5	2SC1306	(1)	GE-215	WEP1306	PTC186		RE 203	SK3197	RT-146	ECG235
	2SC2075		GE-215	WEP1306	PTC186		RE 203	SK3197	RT-146	ECG235
	2SC1974		GE-337	WEP1306	PTC186		RE 203	SK3197	RT-146	ECG235
Q6	2SC1318Q	(1)	GE-210 *	TR-21 *	PTC178	HEPS0015 *	RE 17 *	SK3122	RT-302	ECG128 *
	2SC1318R		GE-210 *	TR-21 *	PTC178	HEPS0015 *	RE 17 *	SK3122	RT-302	ECG128 *
	2SC1318		GE-210 *	TR-21 *	PTC178	HEPS0015 *	RE 17 *	SK3122	RT-302	ECG128 *
Q7	2SA719R	(1)	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
	2SA720		GE-82	TR-19	PTC127	HEPS0026	RE 211	SK3114	RT-126A	ECG298
	2SA719W		GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
Q8	2SA719P	(1)	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
	2SC1047B		GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047		GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC460		GE-61 *	(IR)2SC460B	PTC136 *	HEPS0014 *	RE 9	SK3018 *	RT-134	ECG107
	2SC1047C		GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
Q9	2SC1359B	(1)	GE-212	(IR)2SC380A0	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
	2SC1359		GE-212	(IR)2SC380A0	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
	2SC710		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q10	2SC1359C	(1)	GE-212	(IR)2SC380A0	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
	2SC710D		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q11	2SC829	(1)	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
	2SC839		GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
	2SC710D		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC829		GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC839		GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q12	2SC829B	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829		GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC710		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q13	2SC829C	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC828P		GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC828		GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC945	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-107A	ECG199
	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
	2SA719R		GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
	2SA719	(1)	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290

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.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Q15	2SA720	(1)	GE-82	TR-19	PTC127	HEPS0026	RE 211	SK3114	RT-126A	ECG298
	2SA564	(1)	GE-65	(IR)2SA564A	PTC103 *	HEPS0019 *	RE 193	SK3114	RT-303	ECG234
	2SA719Q	(1)	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
	2SC900U	(1)	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC945		GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
2SC945L	GE-212		(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199	
Q16	2SC945P	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945Q	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC829C	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829		GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC710		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q17	2SC839	(1)	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
	2SC710DE	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC829C	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829		GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC710		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q18	2SC839	(1)	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
	2SC710DE	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC829C	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829		GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SA733P		GE-48	TR-31	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-303	ECG294
Q20	2SA733	(1)	GE-48	TR-31	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-303	ECG294
	2SA733Q	(1)	GE-48	TR-31	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-303	ECG294
	2SC900U	(1)	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC900		GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC1327		GE-85 *	(IR)2SC945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
Q22	2SC1327XAN	(1)	GE-85 *	(IR)2SC945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
	2SC900U	(1)	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC900		GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC900V		GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC900E	(1)	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
Q501	2SC945AP	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945		GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC828		GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC945AP	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q951	2SC1359C	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC1359		GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC1359B		GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC1047C	(1)	GE-212	(IR)2SC380AO	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
	2SC1047	(1)	GE-212	(IR)2SC380AO	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
Q952	2SC1359B	(1)	GE-212	(IR)2SC380AO	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
	2SC1047C		GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047		GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047C	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047		GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *

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.	MFGR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Q15	2SA720	(1)	GE-82	TR-19	PTC127	HEPS0026	RE 211	SK3114	RT-126A	ECG298
	2SA564	(1)	GE-65	(IR)2SA564A	PTC103 *	HEPS0019 *	RE 193	SK3114	RT-303	ECG234
	2SA719Q	(1)	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
	2SC900U	(1)	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC900	(1)	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
Q16	2SC945	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945L	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945P	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945Q	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC829C	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
Q17	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC839	(1)	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710DE	(1)	GE-20 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC829C	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
Q18	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829C	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829P	(1)	GE-48	TR-31	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-303	ECG294
	2SA733P	(1)	GE-48	TR-31	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-303	ECG294
	2SA733Q	(1)	GE-48	TR-31	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-303	ECG294
Q20	2SC900U	(1)	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC900	(1)	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC1327	(1)	GE-85 *	(IR)2SC945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
	2SC1327XAN	(1)	GE-85 *	(IR)2SC945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
	2SC900U	(1)	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
Q501	2SC900V	(1)	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC900E	(1)	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC945AP	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC828	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
Q502	2SC945AP	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC828	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC1359C	(1)	GE-212	(IR)2SC380AO	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
	2SC1359	(1)	GE-212	(IR)2SC380AO	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
Q951	2SC1359C	(1)	GE-212	(IR)2SC380AO	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
	2SC1359	(1)	GE-212	(IR)2SC380AO	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
	2SC1047C	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047C	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
Q953	2SC1047	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	2SC1047	(1)	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *

- * Lead configuration may vary from original.
(1) Used in some versions.
(12) Rating 950 MW @ 500 mA
(13) Rating 10 W @ 3 A.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA					
		MFGR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.		
					Q-LINE	GENERAL LINE	
C1	.1 10V		PC10-25	TDC104M050EL	QDT1-2	SD50-R109	
C2	10 10V			VTT10B25	QV1-41	EV-1222	
C3	.22 10V			TDC224M050EL	QDT1-10	SD50-R229	
C11	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226	
C18	1 50V			TDC105M050EL	QDT1-25	SD50-19	
C50	1 50V			VTT1A50	QV1-11	EV-1615	
C72	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222	
C74	3.3 25V			PC5-50	VTT3R3A50	QV1-23	EV-1318
C76	1 50V			PC1-50	VTT1A50	QV1-11	EV-1615
C78	47 16V		PC50-16	VTT47D16	QV1-73	EV-1226	
C85	3.9 10V			TDC475M010EL	QDT1-48	SD10-4R79	
C86	.47 10V			TDC474M050EL	QDT1-19	SD50-R479	
C87	33 6.3V		PC30-25	VTT33B10	QV1-61	EV-1125	
C93	47 16V			PC50-16	VTT47D16	QV1-73	EV-1226
C94	220 16V			PC250-25	VTT220H16	QV1-117	EV-1240
C96	3.3 25V		PC5-50	VTT3R3A50	QV1-23	EV-1318	
C97	47 10V			PC50-16	VTT47D16	QV1-73	EV-1226
C99	47 25V			PC50-25	VTT47E25	QV1-75	EV-1326
C100	1000 16V		PC1000-16	VTT1000L16	QV1-183	EV-1260	
C101	33 6.3V			PC30-25	VTT33B10	QV1-61	EV-1125
C120	33 16V			PC30-25	VTT33D25	QV1-63	EV-1325

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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	
C4	68 N150 50V	(1)	DC-103	MGP01	*		10TCP-Q68	
C5	.01 50V				TA110	QC2-141	TG-S10	
C6	22 N150 50V				*		10TCP-Q22	
C7	220 50V				GP322		10TS-T22	
C8	120 50V			DD-221	CN0312		10TCC-T12	
C9	.047 50V			DTZ-120	MAG5015			
C10	47 50V			UK50-503	CN0447			
C12	.001 50V			DTZ-47	CN0547			
C13	4 NPO 50V			DTZ-4R7	EWFI2A10	QF1-1	10TCC-Q47	
C14	.001 50V				*		10TCC-V47	
C15	68 N150 50V	(1)	DC-103	MGP01	TA110	QC2-141	10TCP-Q68	
C16	.01 50V		DTZ-33	NP033	CN0433		TG-S10	
C17	33 50V				*		10TCC-Q33	
C19	12 N150 50V				*		10TCP-Q12	
C20	.001 50V			DPMS6D1	EWFI2A210	QF1-1	1PB-D10	
C21	.001 50V			DPMS6D1	EWFI2A210	QF1-1	1PB-D10	
C22	.001 100V			CD19FD102J03	SX210		MWC-102	
C23	2 50V			NP02P2	CN0522		10TCC-V22	
C24	7 50V			DTZ-6R8	NP06P8	CN0568		10TCC-V68
C25	39 N150 50V				*		10TCP-Q39	
C27	33 50V		DTZ-33	NP033	CN0433		10TCC-Q33	
C28	4 50V		DTZ-4R7	NP04P7	CN0547		10TCC-V47	
C31	180 N150 50V			*		10TCP-T18		
C32	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10	
C33	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10	
C35	2 50V		DTZ-2R2	NP02P2	CN0522		10TCC-V22	
C36	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10	
C37	68 50V		DD-680	GP68	GP468		10TS-Q68	
C38	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10	
C39	100 N150				*		10TCP-T10	
C40	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10	
C41	.01 50V		WMF1S1		EWFI1A110	QF1-91	1PB-S10	
C42	330 50V		DD-331	GP330	GP333		10TS-T33	
C43	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10	
C44	120 50V		DTZ-120		CN0312		10TCC-T12	
C45	220 50V		DD-221		GP322		10TS-T22	
C46	120 50V		DTZ-120		CN0312		10TCC-T12	
C47	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10	
C48	120 50V		DTZ-120		CN0312		10TCC-T12	
C49	270 500V				TA110		TG-S10	
C51	2 500V		DTZ-2R2	CD15FD271J03	SX327	QW1-37	MWB-271	
C52	.0047 50V		DD-472	NP02P2	CN0522		10TCC-V22	
C53	27 50V			GP4700	GP247		5GA-D47	
C54	.01 50V		DC-103	MGP01	CN0427		10TCC-Q27	
C55	.047 50V		UK50-503		TA110	QC2-141	TG-S10	
C56	.047 50V			DPMS2S47	MAG5015	QF1-171	1PB-S47	
C57	.01 50V				EWFI1A147			
C58	10 50V		DC-103	MGP01	TA110	QC2-141	TG-S10	
C59	.01 50V		DTZ-10	NP010	CN0410		10TCC-Q10	
C60	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10	
C61	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10	
C62	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10	
C63	2 50V		DTZ-2R2	NP02P2	CN0522		10TCC-V22	
C64	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10	
C65	18 N150 50V				*		10TCP-Q18	
C66	2.2 500V		DTZ-2R2		CN0522		10TCC-V22	
C67	.047 50V			NP02P2	EWFI1A147	QF1-171	1PB-S47	
C68	.047 50V			DPMS2S47	EWFI1A147	QF1-171	1PB-S47	
C69	.047 50V			DPMS2S47	EWFI1A147	QF1-171	1PB-S47	
C70	.047 50V			DPMS6S5	PVC615		6PS-S50	
C71	.047 50V			DPMS2S47	EWFI1A147	QF1-171	1PB-S47	
C73	.0068 50V			WMF1D68	EWFI1A268	QF1-73	1PB-D68	
C75	.0022 50V			DPMS6D22	EWFI222		6PS-D22	
C77	100 50V		DTZ-100	NP0100	CN0310		10TCC-T10	
C79	.022 50V			DPMS2S22	EWFI1A122	QF1-127	1PB-S22	
C80	.0022 50V				GP222	QC2-97	5GA-D22	
C81	.022 50V				EWFI1A122	QF1-127	1PB-S22	
C82	220 50V		DD-221		GP322		10TS-T22	
C83	.01 50V				EWFI1A110	QF1-91	1PB-S10	
C84	.0022 50V			WMF1S1	GP222	QC2-97	5GA-D22	
C88	68 50V		DD-222		GP468		10TS-Q68	
C89	68 50V		DD-680	GP68	GP468		10TS-Q68	
C90	100 50V		DD-680	GP68	GP468		10TS-Q68	
C91	.068 50V		DD-101	GP100	GP310		10TS-T10	
C92	100 50V			WMF1S68	EWFI1A168	QF1-195	1PB-S68	
C95	.068 50V		DD-101	GP100	GP310		10TS-T10	
C102	.01 50V			WMF1S68	EWFI1A168	QF1-195	1PB-S68	
C106	.047 50V		DC-103	MGP01	TA110	QC2-141	TG-S10	
C107	.047 50V		UK50-503		MAG5015			
C110	18 50V				MAG5015			
C111	82 50V		DD-820		CN0418		10TCC-Q18	
C114	390 50V				GP482		10TS-Q82	
C117	.001 50V			CD15FD391J03	SX339	QW1-41	MWA-391	
C118	.022 50V		DC-203	DPMS6D1	EWFI2A210	QF1-1	1PB-D10	
C130	.0022 50V		DD-222	MGP02	TA120	QC2-157	TG-S20	
C131	39 N150 50V				GP222		5GA-D22	
C132	15 N150 50V				*	QC2-97	10TCP-Q39	
C133	.0022 50V				*		10TCP-Q15	
C134	3 50V		DD-222		GP222		5GA-D22	
			DTZ-3R3	NP03P3	CN0533	QC2-97	10TCC-V33	

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
C135	220 50V	(1)	DD-221		GP322		10TS-T22
C136	.0033 50V			CD19FD332J03	SX233		MWC-332
C137	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C138	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C139	220 50V		DD-221		GP322		10TS-T22
C201a	180 500V			CD15FD181J03	SX318	QW1-33	MWA-181
C201b	7 500V		DTZ-6R8	NPO6P8	CN0568		10TCC-V68
C202	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C203	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C204	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C205	.047 50V		UK50-503		MAG5015		
C206	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C207	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C208	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C209	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C210	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C211	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C212	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C501	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C502	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C503	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C951	47 50V	(1)	DTZ-47	NPO47	CN0447		10TCC-Q47
C952	39 50V				CN0439		10TCC-Q39
C953	.001 50V			DPMS6D1	EW1A210	QF1-1	1PB-D10
C954	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C955	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C956	47 50V		DTZ-47	NPO47	CN0447		10TCC-Q47
C957	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C958	100 50V		DD-101	GP100	GP310		10TS-T10
CT1	20 50V						

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

(1) Used in some versions.

MIDLAND MODEL 77-882

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	VCO	77-176001			
L2	VCO (37MHz)	13-090405			
L3	RF Choke (68uH)	13-178210			
L5	Xmit Mixer (27MHz)	77-176003			
L6	RF Choke (22uH)	13-176564			
L7	Xmit Driver (27MHz)	13-176508			
L8	RF Choke (68uH)	13-178210			
L9	RF Choke (.55uH)	13-176567			
L10	RF Choke (1uH)	13-176565			
L11	Final (27MHz)	13-176509			
L12	Antenna Match (27MHz)	13-176510			
L13	RF Choke (.4uH)	77-176004			
L14	IF (10.7MHz)	13-176615			
L15	RF Choke (68uH)	13-178210			
L16	RF Choke (.75uH)	13-178209			
L17	RF Choke (.75uH)	13-178209			
T1	Ref Oscillator (10.240MHz)	77-094001			
T2	VCO Mixer (37MHz)	77-094002			
T3	Xmit Mixer (27MHz)	13-094232			
T4	Xmit Buffer (27MHz)	13-094234			
T5	Rec Antenna (27MHz)	13-094234			
T6	Rec RF (27MHz)	77-094003			
T7	IF (10.7MHz)				
T8	IF (455kHz)	13-090371			
T9	IF (455kHz)	13-090375			
T10	IF (455kHz)	13-090372			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
CH1	1.4A	.12	.48mH	13-178208 ELA-16 (1)	TR523		(1) Number on unit.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T11	2.88	1 8 2 13.5	13-096200 ETA-66 (1)	TR723	MCB-16	(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3" PM 8 Ohms	13-060118	30A05Z8R	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	2Amp		13-034097	AGC2	HDJ	312002	150145	FG2-2

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	77-038001	18-032	18-034	18-010	18-092	1	2	4	3	NC	2	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Ceramic Filter	77-179001	
J1	Jack	13-159220	Antenna
J2	Jack	13-159234	Microphone
J3	Jack	13-153168	PA
J4	Jack	13-153168	External Speaker
J5	Jack	13-159235	Power
M1	Meter	13-200078	S/Rf
PL1	Lamp	13-201076	Channel (32mA @ 4.98V)
PL2	Lamp	13-201079	Antenna Warning (30mA @ 5.02V)
PL3	Lamp	13-201076	Meter (56mA @ 4.98V)
S1	Switch		Power (Part of Volume Control)
S2	Switch	13-180117	Delta Tune
S3	Switch	13-183236	ANL
S4	Switch		PA (Part of Squelch Control)
S5	Switch	13-183236	NB
S6	Switch	13-183263	External CB Speaker
SW1	Switch	77-180001	Channel Selector
X1	Crystal	77-128001	Ref Osc (10.240MHz)
X2	Crystal	77-128002	Xmit Osc (10.695MHz)

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

ITEM	PART No.	ITEM	PART No.
Escutcheon	77-011003	Cabinet, Top	77-010005
Knob, Control	13-110198	Mounting Bracket	13-158510
Knob, Channel	13-115141	Microphonic Holder	13-158509
Channel Indicator Disc	77-115001		

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')