

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 3-5819A

MANUFACTURER'S SPECIFICATIONS

RECEIVER	TRANSMITTER
Sensitivity: Better than 0.5uv for 500 MW audio output at MIN Squelch setting.	Frequency Response: 400 Hz to 2.5 kHz.
Frequency Coverage: 26.965 to 27.405MHz.	Frequency Coverage: 26.965 to 27.405 MHz.
Adjacent Channel Selectivity: Better than 50db.	Transmit Power Output: 4 watts maximum as limited by FCC Regulations at 13.8 volts DC.
Audio Output Power: @ 10% DIST. better than 2.2 watts.	Modulation: Capable of 100% factory pre-set limit.
Spurious Rejection: Better than 40db	Frequency Tolerance: Better than .005% MAX.
IF Frequencies: 455 kHz, 10.695 MHz.	
Squelch Range (Sensitivity): 0.5 to 5,000 uv.	
Image Rejection Ratio: Better than 40db	
Delta Tune Range: Approximately ± 1 kHz.	
	GENERAL
	Channels: 40 channels - PLL digital logic channel synthesizer circuitry.
	Power Requirement: Consumption - 18 watts; current drain - 1.3 amps (100% mod.) at 13.8 volt DC.
	Power Supply: 12 Volts DC normal (Positive or Negative ground).
	Microphone: Dynamic with push-to-talk switch, 500 ohm.

Courtesy of the Manufacturer

GENERAL ELECTRIC MODEL 3-5819A

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

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7CE633

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:

L14,T7 thru T10.....5009
L7,L11,L12.....9304
L1,L2,L5,T1 thru T6.....9440
CT1.....5000

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP1 (Emitter of Q1).	Ch. 19	CT1	Adjust for 10.240MHz.
Input of RF VTVM to TP2 (Junction T1 & C17).	Ch. 19	T1	Adjust for maximum.
Input of DC meter to TP8 (Junction R1, R2 & R3).	Ch. 19	L1	Adjust for 2.8 volts.
Input of frequency counter to TP3 (IC3, Pin 2).	Ch. 19, XMIT		Check for 10.695MHz.
Input of RF VTVM to TP4 (IC3, Pin 4).	Ch. 19	L2,T2	Adjust for maximum.
Input of frequency counter to TP4 (IC3, Pin 4).	Ch. 1		Check for 37.660MHz. Repeat for all channels. (channel frequency + 10.695MHz = frequency 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	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP10 (Emitter of Q10). 455KHz,1000Hz @ 30% modulation.	Ch. 19, Delta Tune 0 RF Gain MAX	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 RF Gain MAX	T7,L14,T6,T5	Adjust for MINIMUM output. Repeat above steps if necessary.

RECEIVER ADJUSTMENTS

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

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 1000uV.	Ch. 19, Delta Tune 0 RF Gain MAX	RV1	SQUELCH RANGE Set squelch control VR2 fully clockwise. Adjust RV1 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19, Delta Tune 0 RF Gain MAX	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	TRANSCIVER	ADJUST	REMARKS
RF wattmeter (See connection above).	Ch. 19	L5,T3,T4,L7, L11,L12	Adjust for maximum.
	Ch. 19	L12	Adjust for 4 watts maximum.

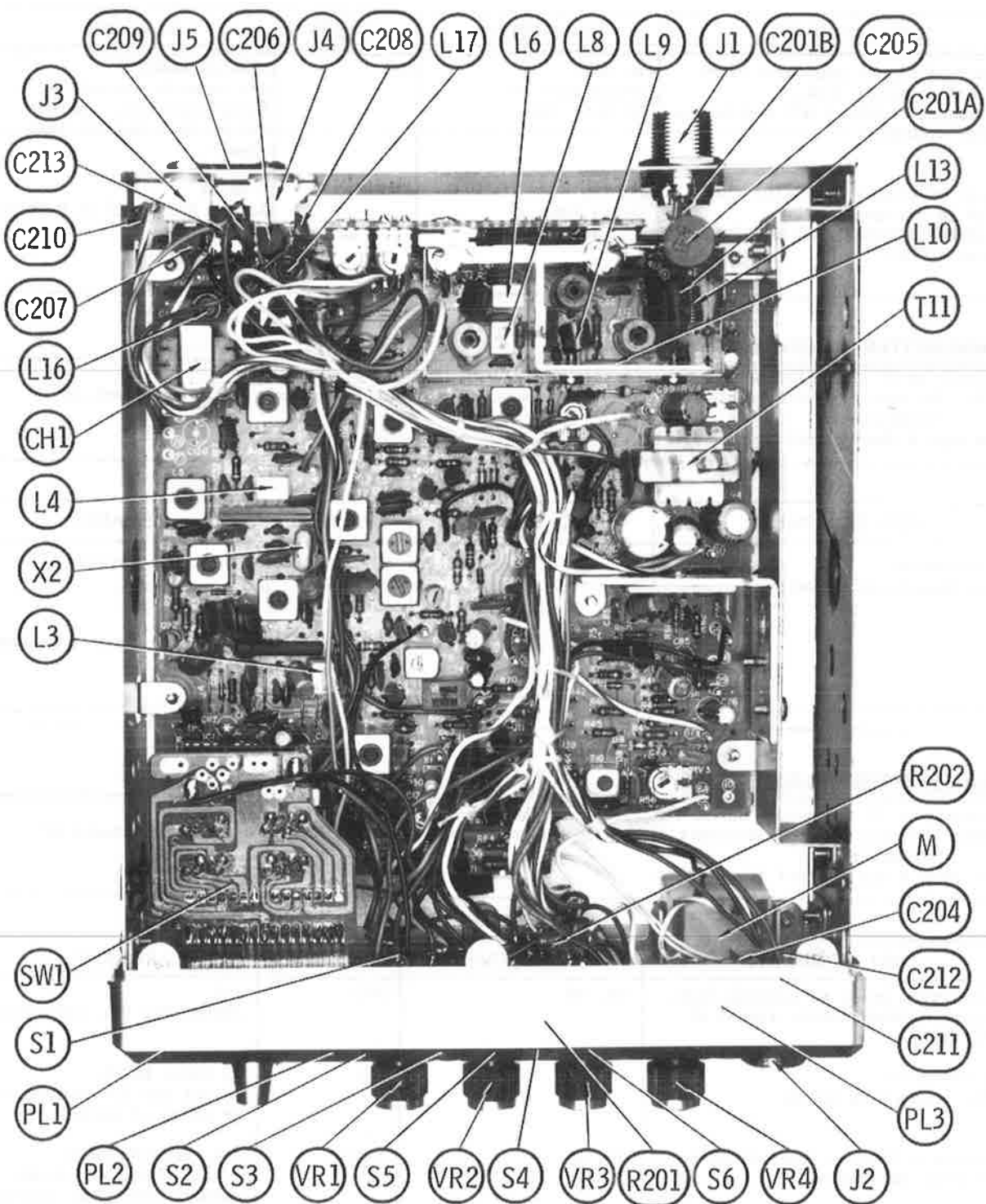
TRANSMITTER ADJUSTMENTS

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

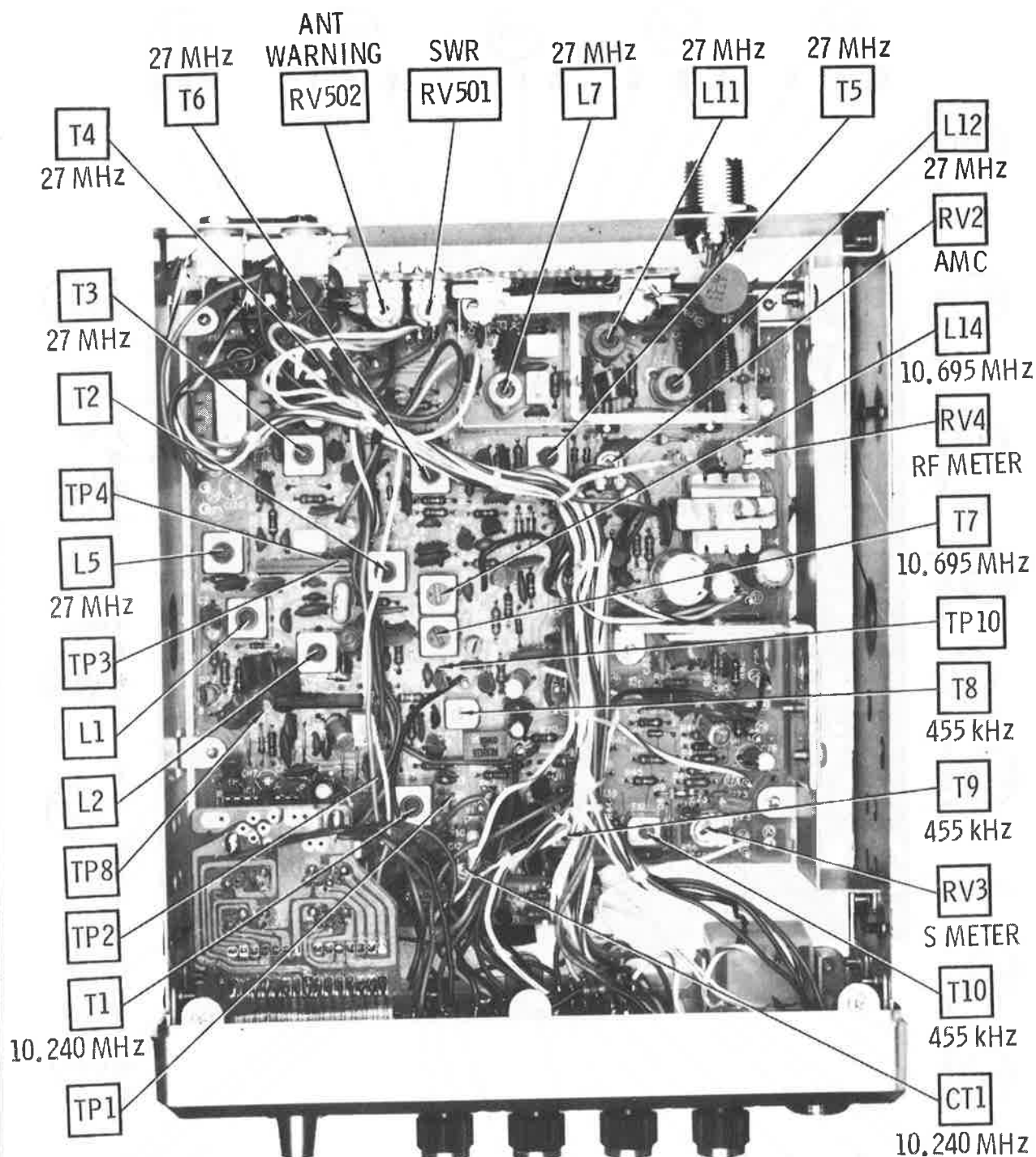
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.

See page 4 for channel frequencies.

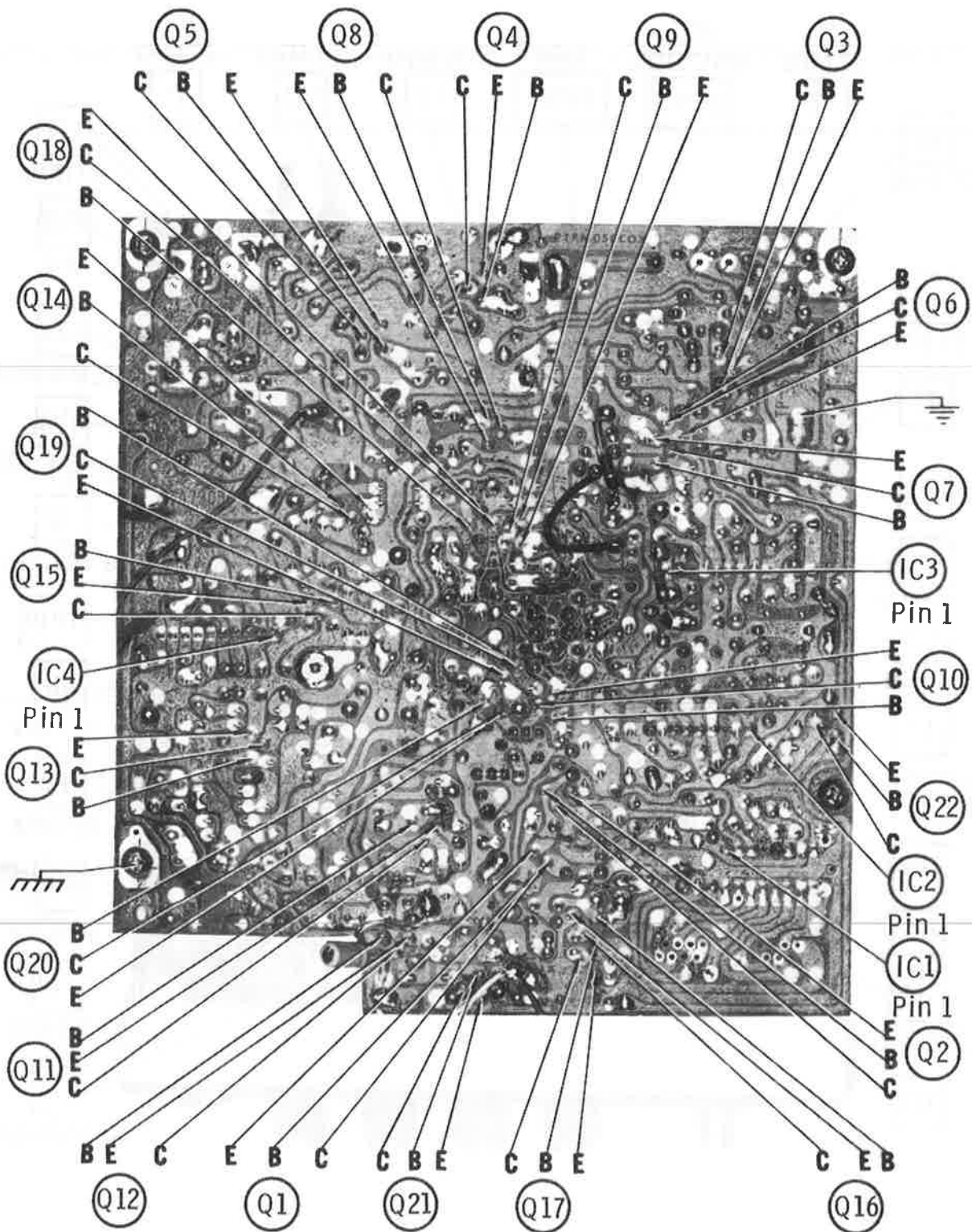
TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Modulation meter to antenna jack. Inject a 100mV 1000Hz signal at MIC input.	Ch. 19	RV2	ALC Adjust for 95% modulation.
RF wattmeter (See connection above).	Ch. 19	RV4	RF PANEL METER Adjust for 3/4 reading on RF scale of meter.
Connect a 150 Ohm non-inductive resistor to antenna jack.	Ch. 19	RV502	ANT. WARNING (AWI) Adjust RV502 so antenna warning indicator lights.
SWR meter to antenna jack.	Ch. 19	RV501	SWR METER Adjust RV501 so that SWR meter agrees with external meter.



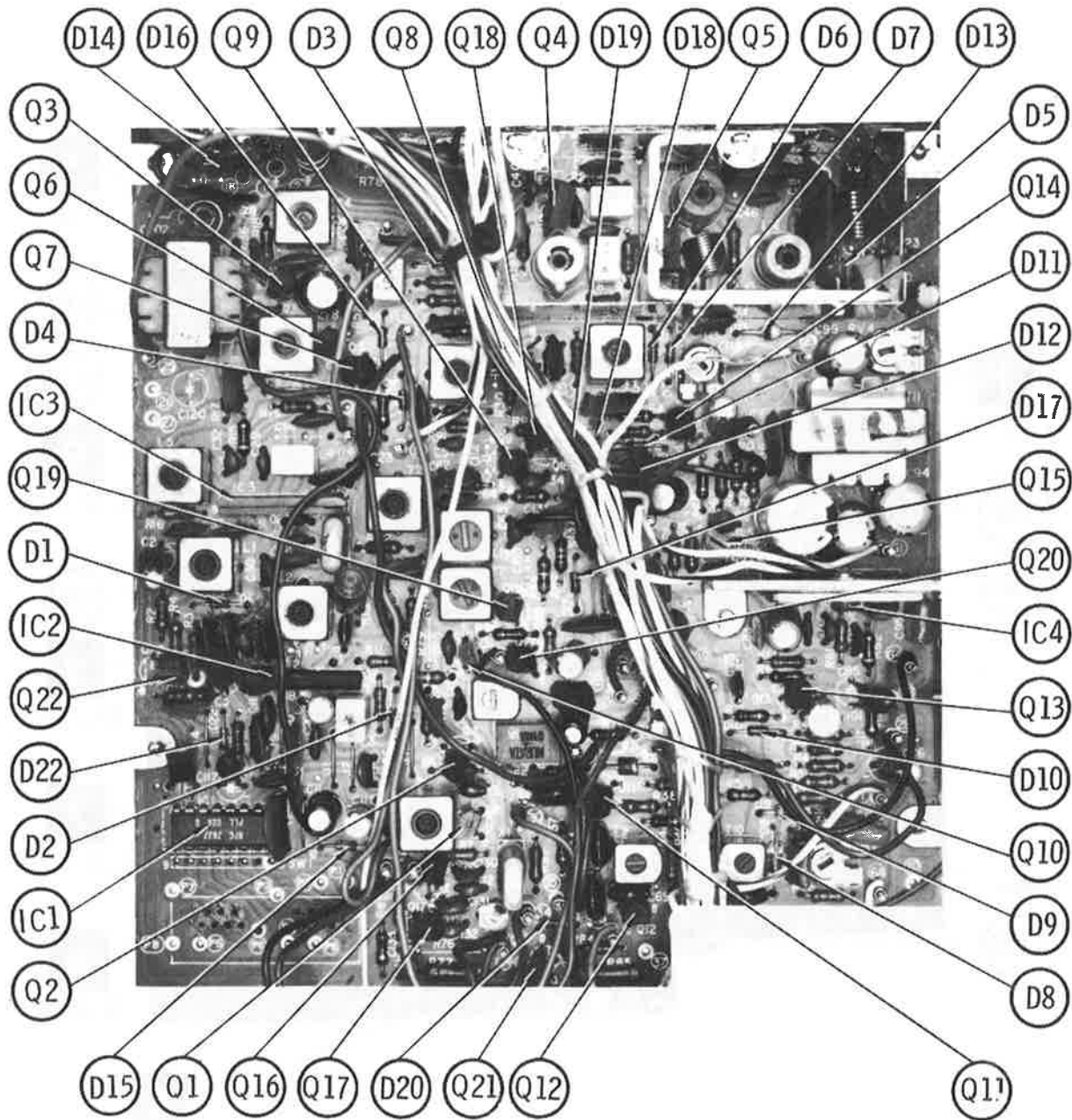
CHASSIS - BOTTOM



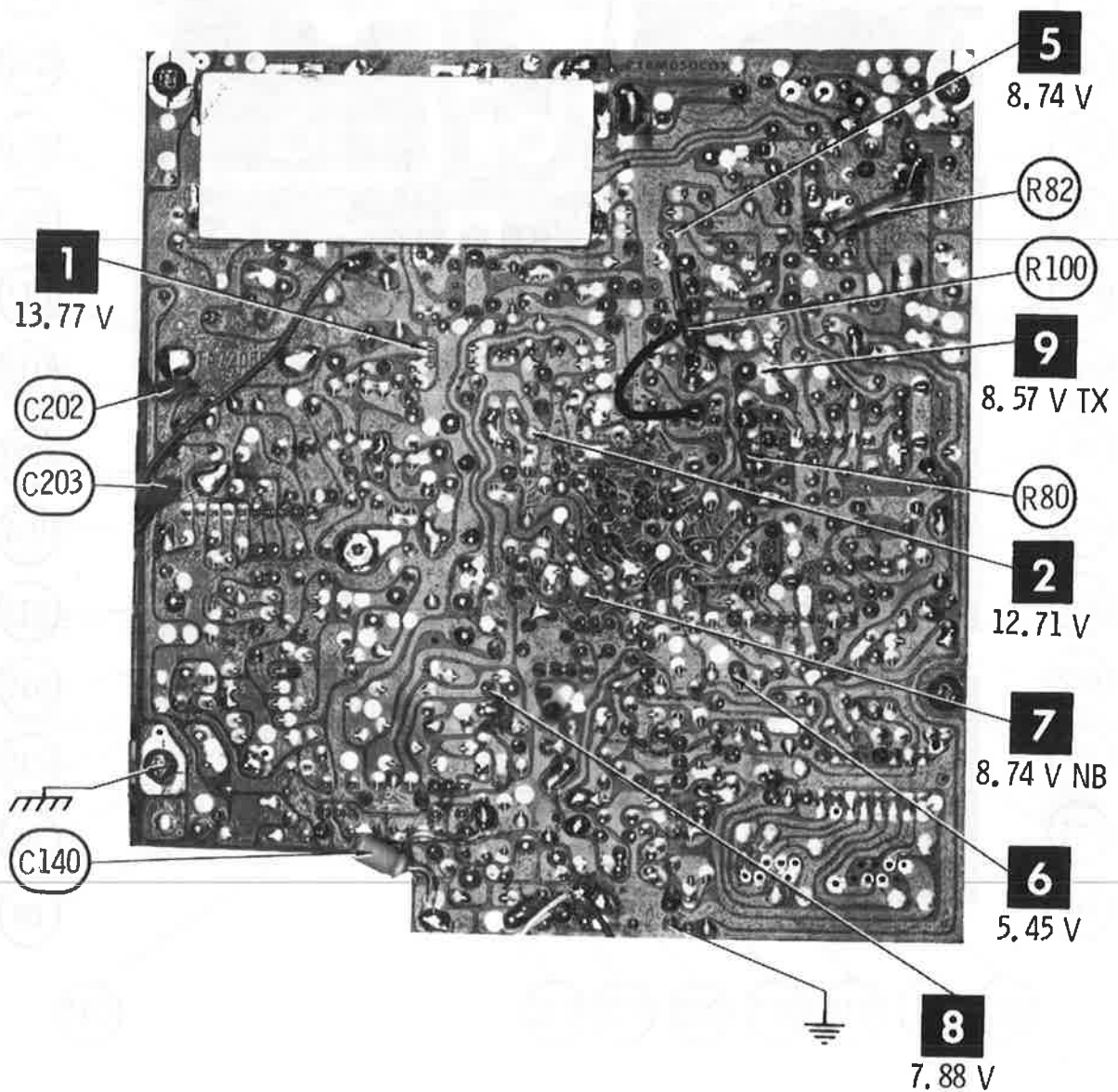
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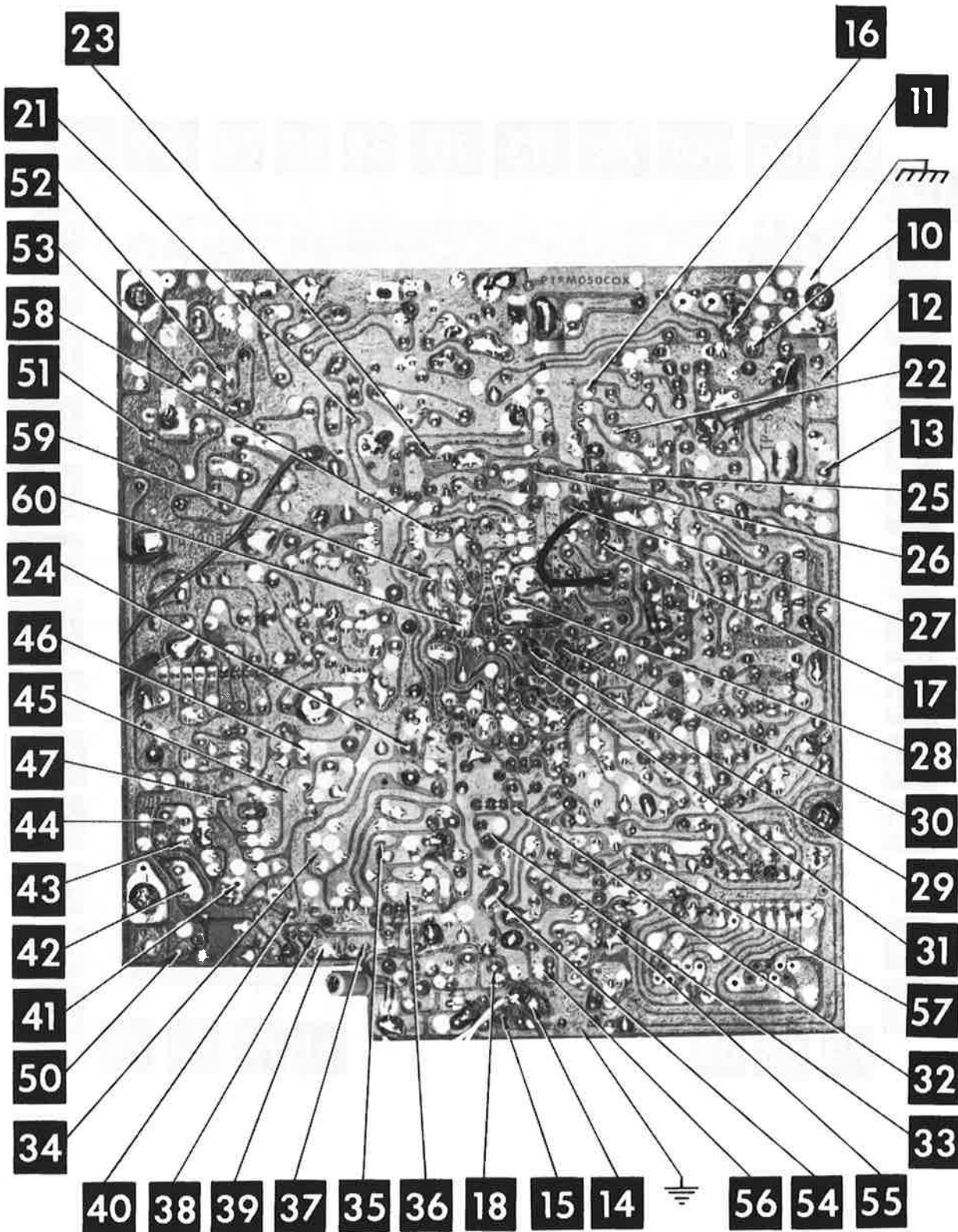
MAIN BOARD



MAIN BOARD

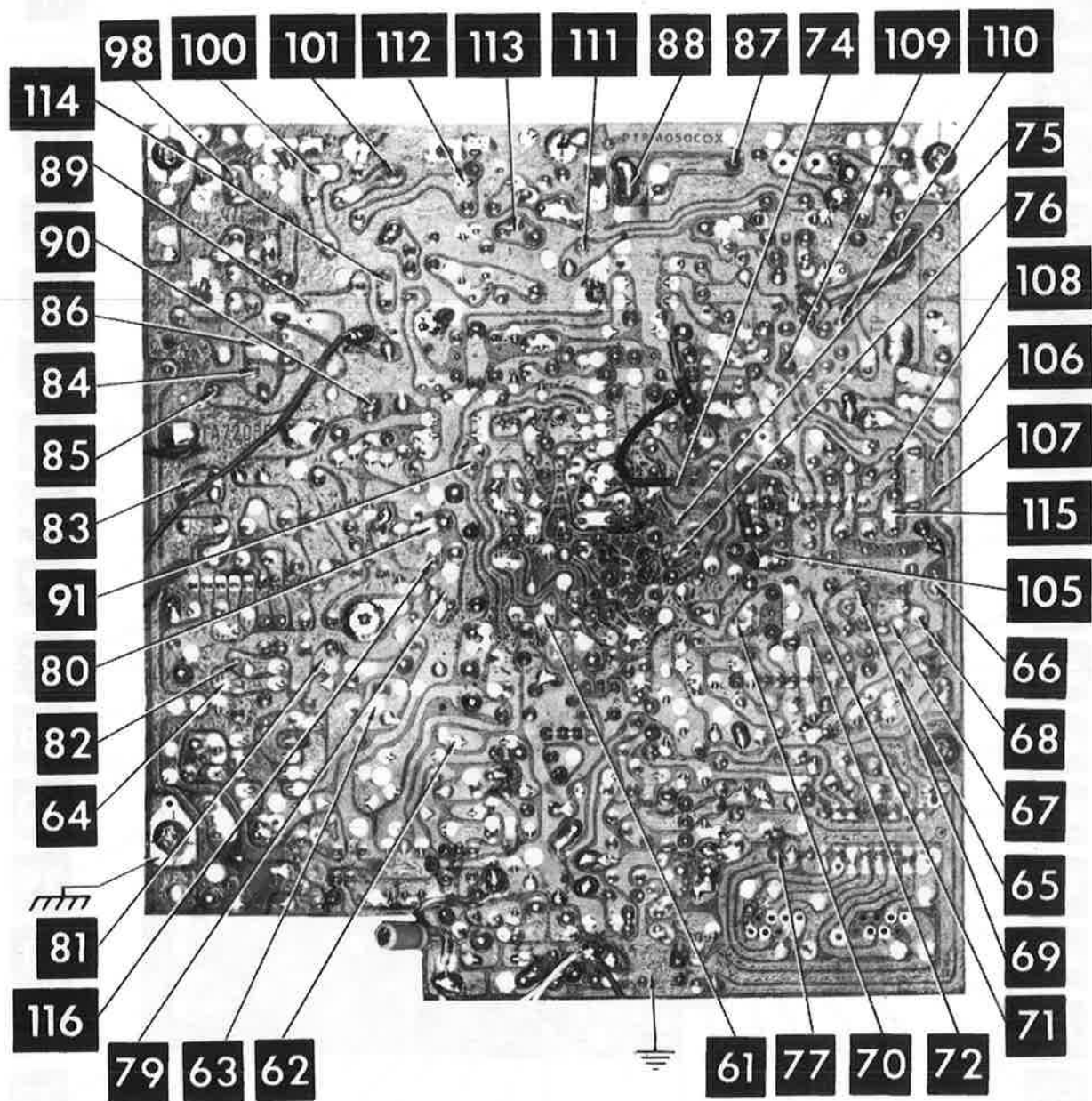


MAIN BOARD

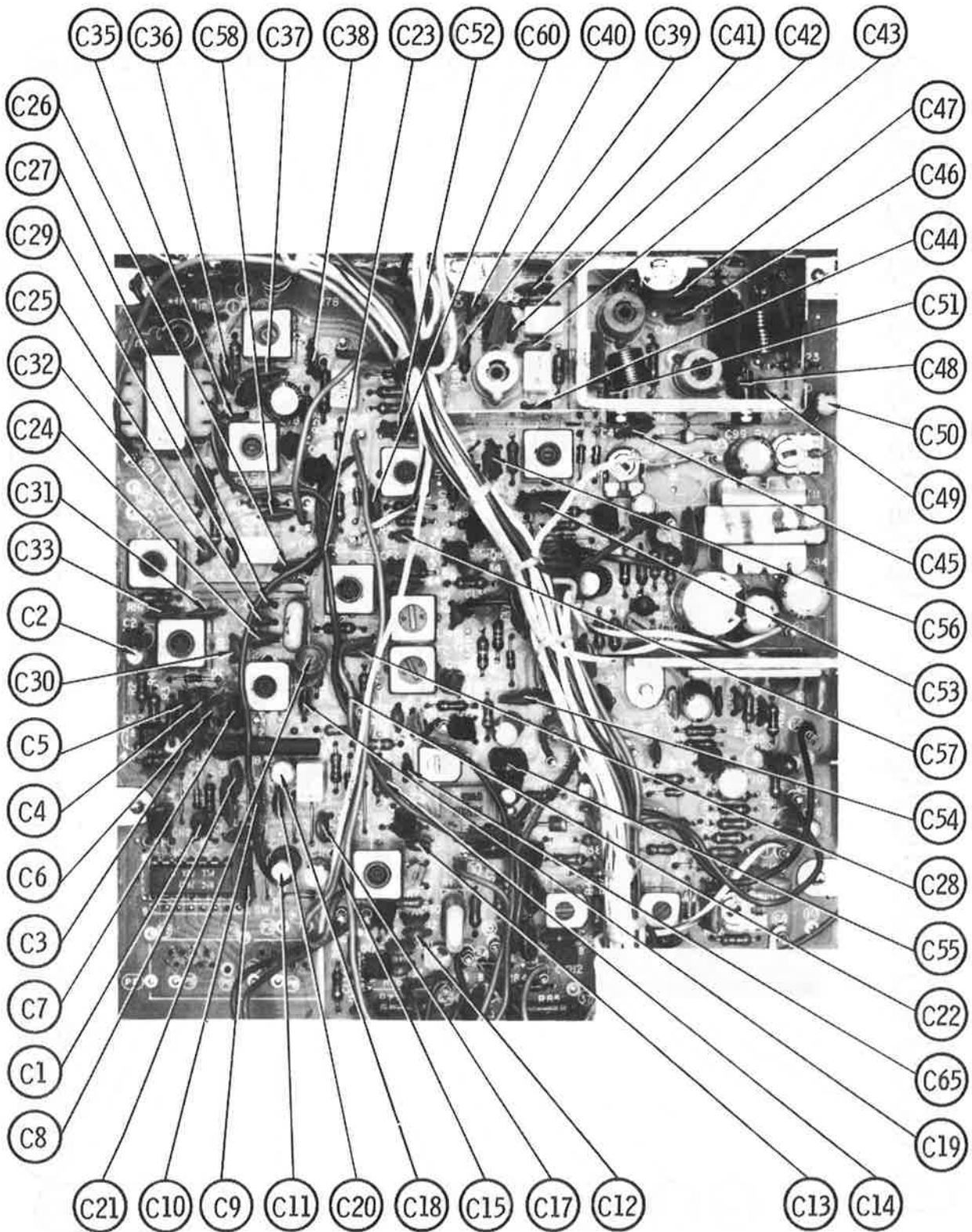


GENERAL ELECTRIC MODEL 3-5819A

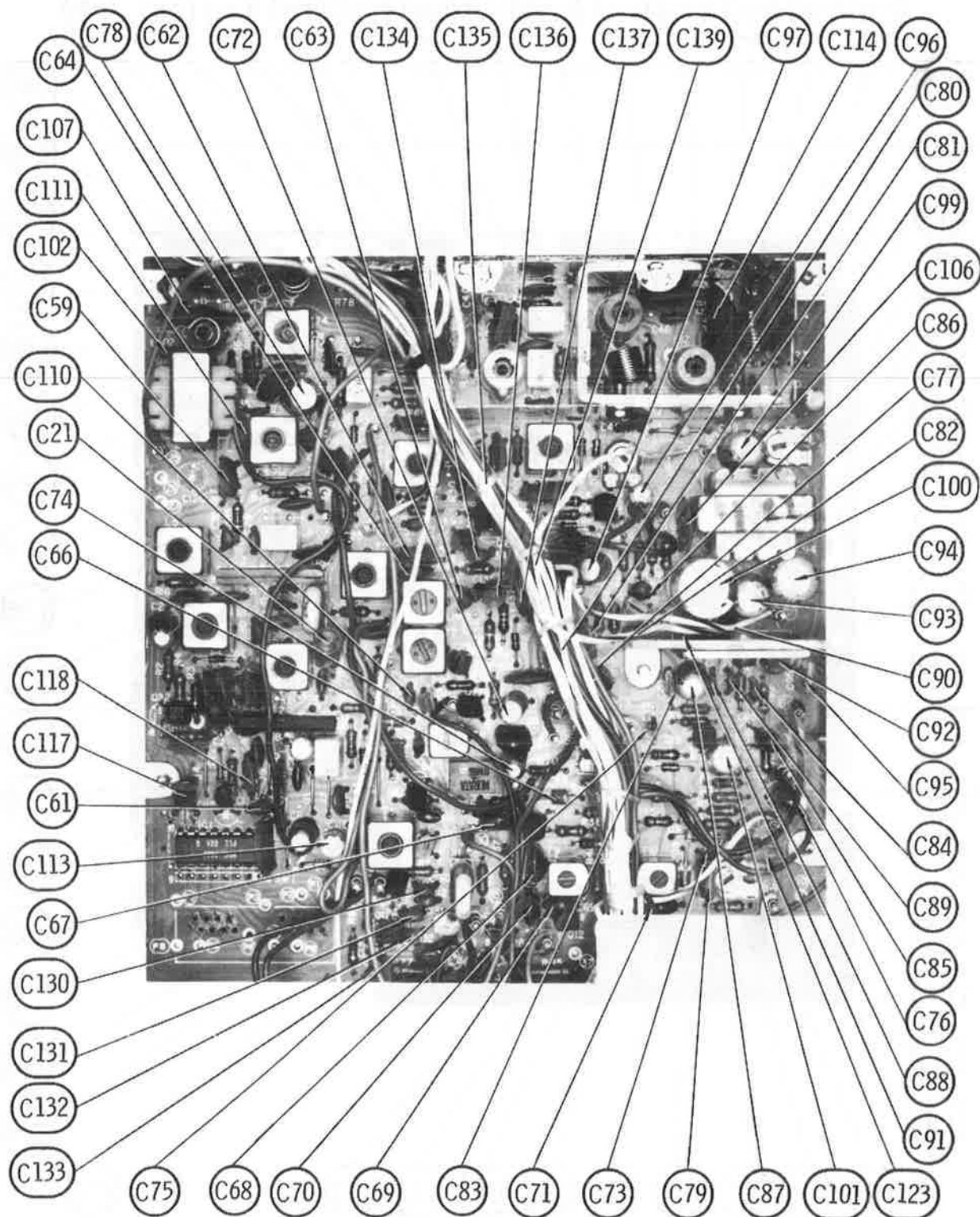
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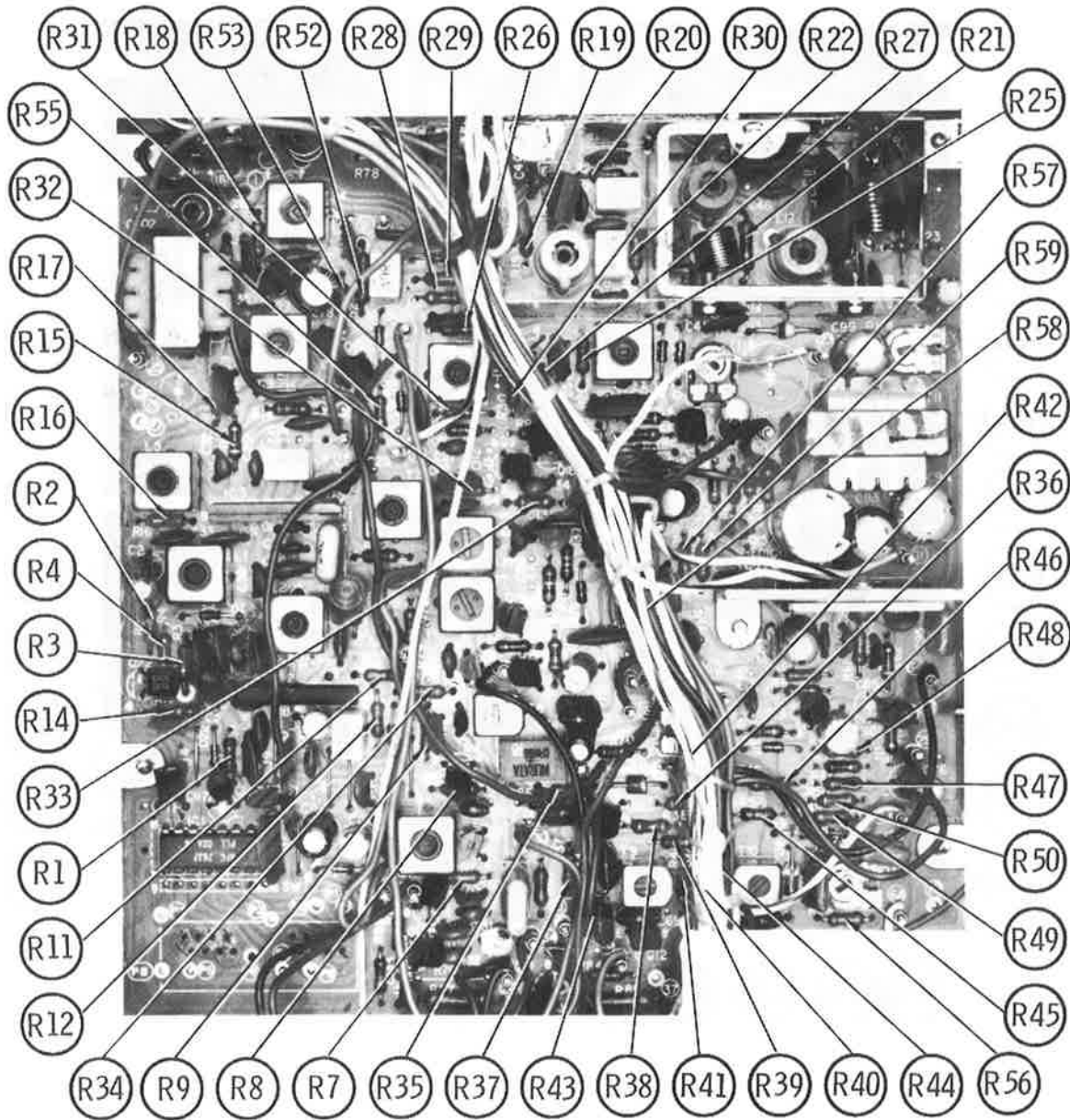
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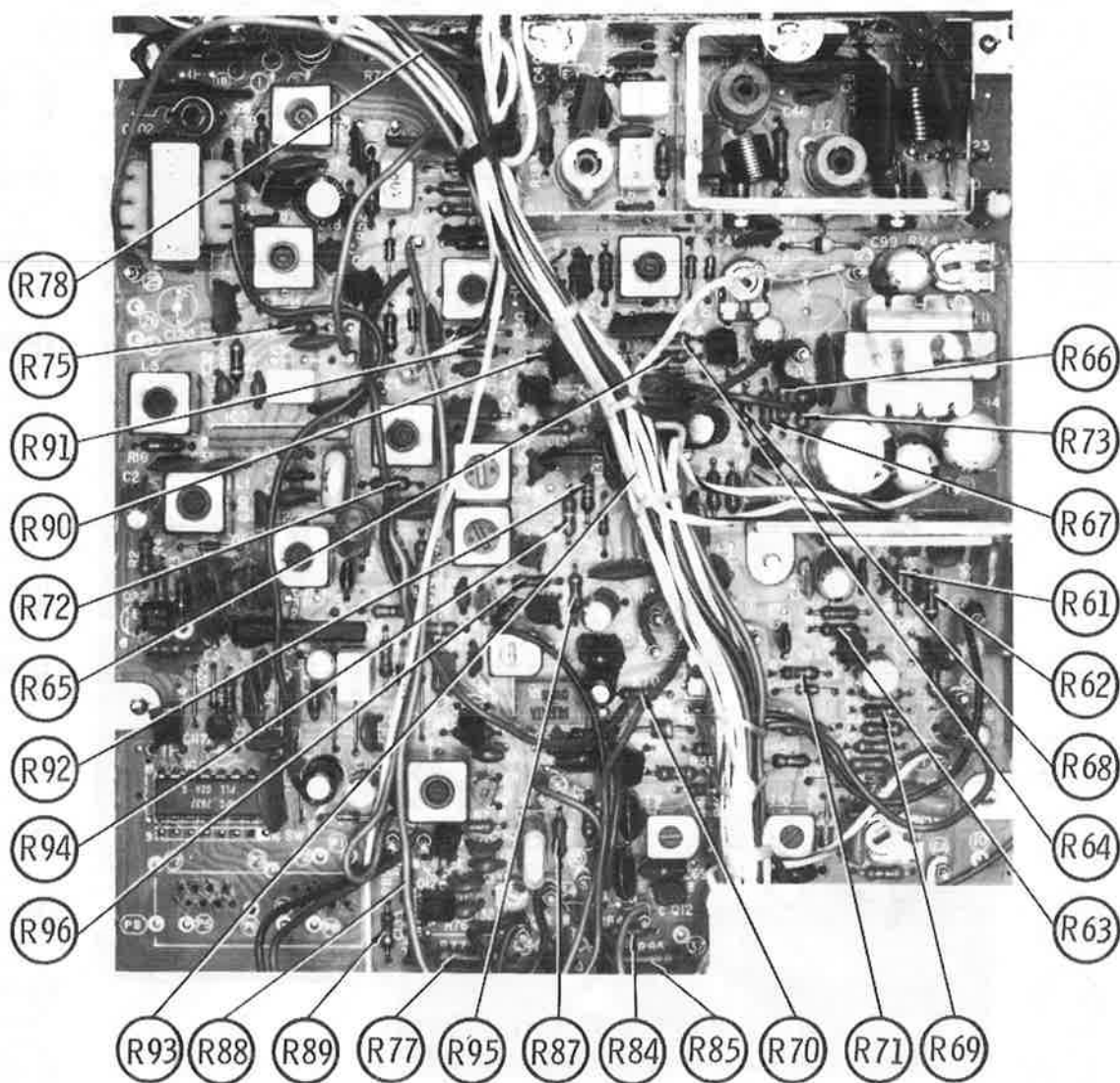
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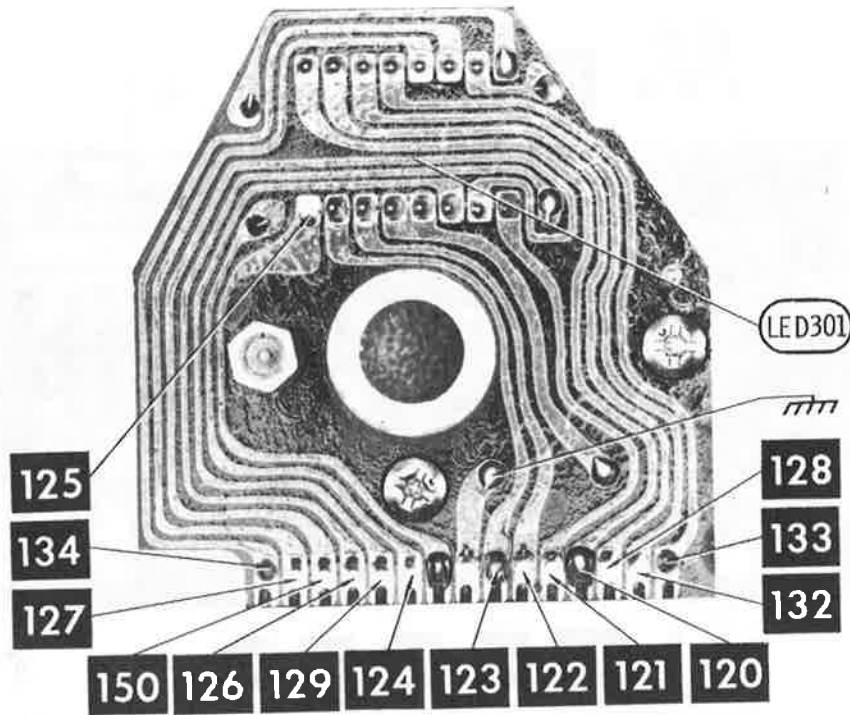
MAIN BOARD



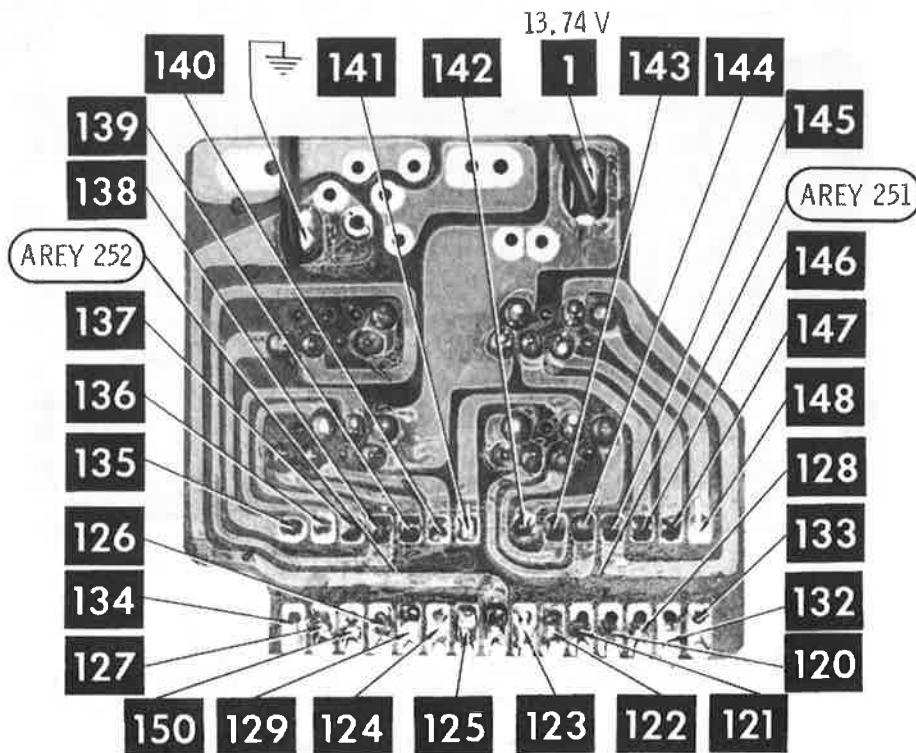
MAIN BOARD



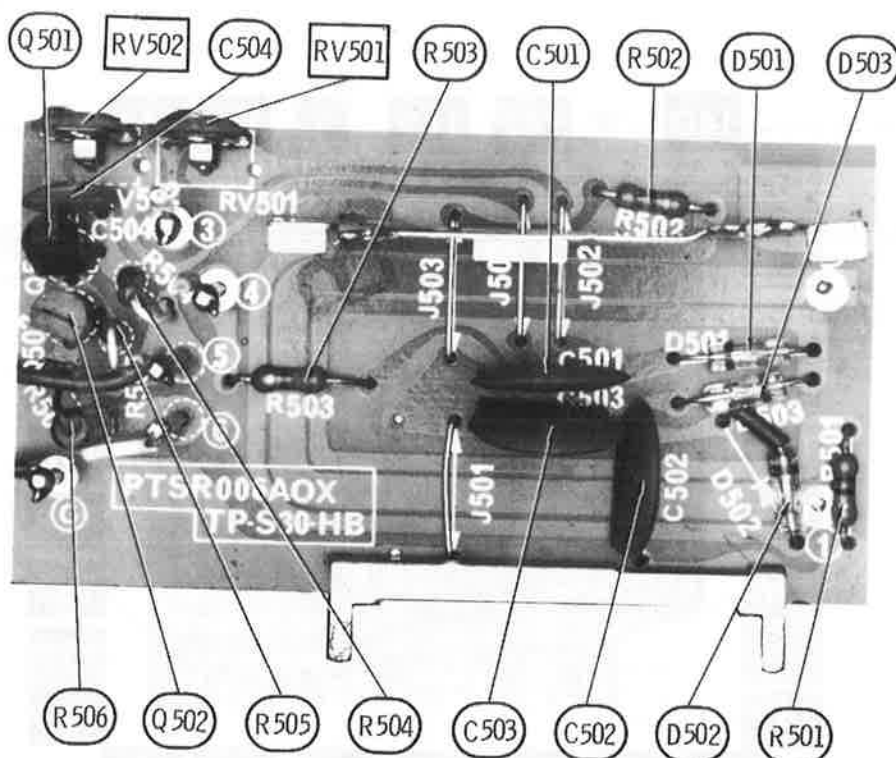
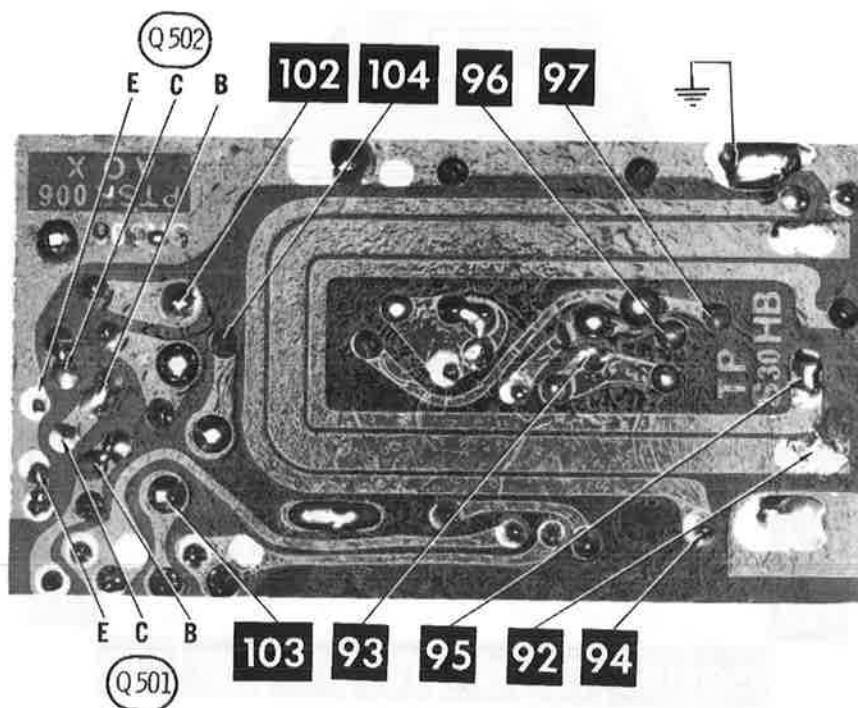
MAIN BOARD



LED DISPLAY BOARD



SWITCH BOARD



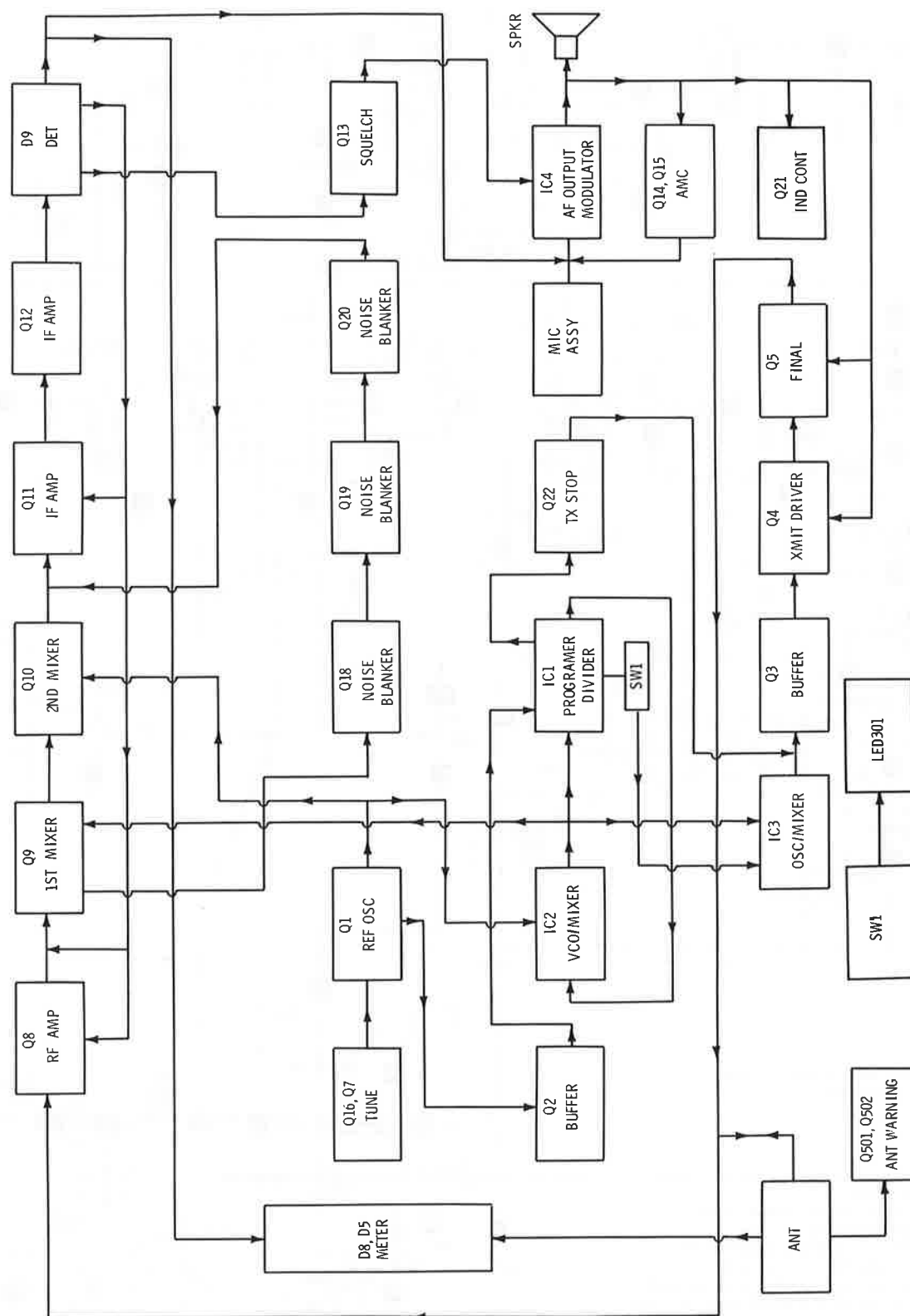
ANT WARNING BOARD

TRUTH CHART

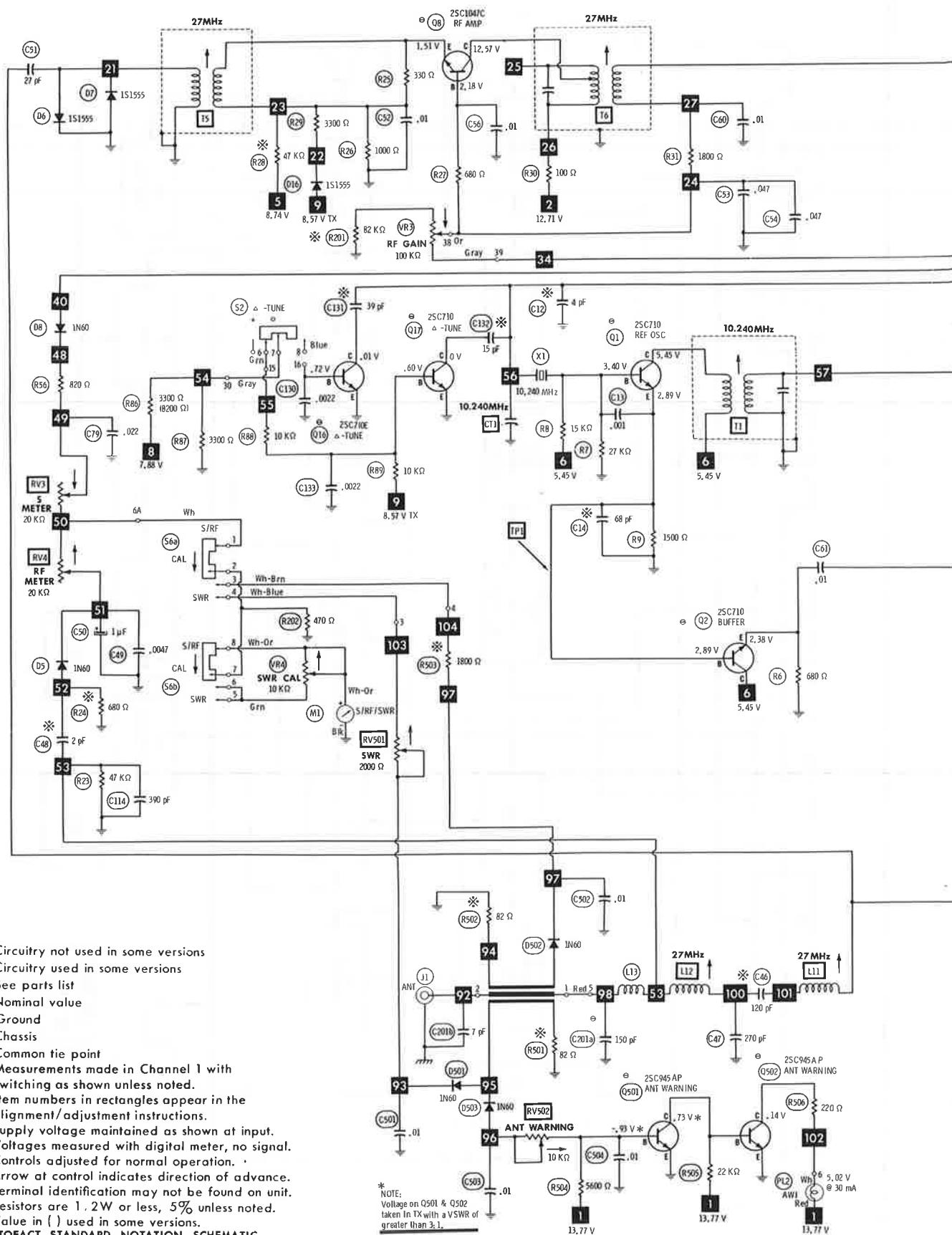
1 = <u>5.44</u> Volts 0 = <u>0</u> Volts								
C H A N N E L	IC1 PROGRAM DIVIDER							REC & XMIT VCO OUTPUT IN MHz AT TP4
	PINS							
	9	10	11	12	13	14	15	
1	1	0	0	1	0	1	0	37.660
2	1	0	0	1	0	0	1	37.670
3	1	0	0	1	0	0	0	37.680
4	1	0	0	0	1	1	0	37.700
5	1	0	0	0	1	0	1	37.710
6	1	0	0	0	1	0	0	37.720
7	1	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	1	0	1	37.870
19	0	1	1	0	1	0	0	37.880
20	0	1	1	0	0	1	0	37.900

1 = <u>5.44</u> Volts 0 = <u>0</u> Volts								
C H A N N E L	IC1 PROGRAM DIVIDER							REC & XMIT VCO OUTPUT IN MHz AT TP4
	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	1	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

GENERAL ELECTRIC MODEL 3-5819A



BLOCK DIAGRAM







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	ITT410 BB121 MV201	EA16X106 (1) (1)	GE-90 GE-90 GE-90	D201 D201 D201	PTC311 PTC311 PTC311	HEPR2503 HEPR2503 HEPR2503	RE 195 RE 195 RE 195	SK3126 SK3126 SK3126	RT-262 RT-262 RT-262	ECG610 ECG610 ECG610
D2	MZ205	EA16X136					RE 105			ECG135
D3	RD9.1E	EA16X137		WEP602			RE 105			ECG135A
D4	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D5	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D6	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D7	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D8	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D9	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D10	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D11	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D12	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D13	V06C	EA57X14	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D14	1S1855	RV1189	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D15	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D16	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D17	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D18	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D19	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D20	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D22	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D501	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D502	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D503	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
IC1	PLL02A PLL02	EA33X8388(1)								ECG1167 ECG1167
IC2	C3001A TA7310P	EA33X8392(1)								ECG1192
IC3	C3001-0 TA7310P	EA33X8392(1)								ECG1192
IC4	TA7205P 2SC710	EA15X364 (1)	GEIC-179 GE-211 *	WEP949 (1R)2SC710	PTC780 PTC115	HEPS0016 *	RE 357-IC RE 13 *	SK3231 SK3018 *	TVCM-81 RT-308 *	ECG1155 ECG123A *
Q1	2SC710D 2SC710	EA15X364 (1)	GE-211 *	(1R)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q2	2SC710 2SC710D	EA15X364 (1)	GE-211 *	(1R)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q3	2SC1687C 2SC1687	EA15X379 (1)	GE-20 *	TR-24 *	PTC121 *	HEPS0015 *	RE 13 *	SK3018 *	RT-107A *	ECG123A *
Q4	2SC1760 2SC1846 2SC1846R 2SC1846S 2SC1846Q	EA15X383 (1) (1) EA15X383 (1) EA15X383 (1) EA15X383 (1)	GE-276 GE-336 GE-336 GE-336 GE-336	WEP1014	PTC121 *	HEPS0015 *	RE 224 RE 209 RE 209 RE 209 RE 209	SK3018 *	RT-310	ECG123A *
Q5	2SC2036 2SC1306 2SC2075 2SC1678 2SC1974	EA15X381(11) (1) (1) (1) (1)	GE-215 GE-215 GE-322 GE-322 GE-337	WEP1306 WEP1306 WEP1678 WEP1306	PTC186 PTC186 PTC186 PTC186	HEPS0016 *	RE 203 RE 203 RE 203 RE 203	SK3197 SK3197 SK3197 SK3197	RT-146 RT-146 RT-146 RT-146	ECG235 ECG235 ECG235 ECG235
Q6	2SC1318Q 2SC1318 2SA719R 2SA719Q 2SA719	EA15X378 (1) RV2355(1) (1) (1)	GE-210 *	TR-21 *	PTC178	HEPS0015 *	RE 17 *	SK3122	RT-302	ECG128 *
Q7	2SC1318Q 2SC1318 2SA719R 2SA719Q 2SA719	EA15X378 (1) RV2355(1) (1) (1)	GE-210 *	TR-21 *	PTC178	HEPS0015 *	RE 17 *	SK3122	RT-302	ECG128 *
Q8	2SC1047C 2SC1047B 2SC1047 2SC710 2SC460	EA15X384 (1) (1) (1) (1) (1)	GE-60 *	(1R)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
Q9	2SC1359B 2SC1359 2SC710 2SC710	EA15X251 (1) (1) (1)	GE-212 GE-212 GE-211 *	(1R)2SC380A0 (1R)2SC380A0 (1R)2SC710	PTC121 *	HEPS0014 *	RE 192 RE 192 RE 13 *	SK3038 *	RT-308 RT-308 RT-308	ECG199 ECG199 ECG123A *
Q10	2SC710D 2SC829 2SC710	EA15X364 (1) (1) (1)	GE-211 *	(1R)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q11	2SC829 2SC710 2SC710D	EA15X364 (1) (1) (1)	GE-211 *	(1R)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q12	2SC829B 2SC829C 2SC710	RT6733(1) (1) (1)	GE-20 *	(1R)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
Q13	2SC828P 2SC828 2SC945 2SC372	RV2354 (1) (1) (1)	GE-61 *	(1R)2SC828A	PTC121 *	HEPS0015 *	RE 192 RE 192 RE 192	SK3122 SK3124 SK3122	RT-302 RT-107A RT-308	ECG199 ECG199 ECG123A *
Q14	2SA719Q 2SA719 2SC945L 2SC945Q	RV2355 (1) (1) (1)	GE-269 GE-269 GE-212	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
Q15	2SC945P 2SC945 2SC900 2SC710	EA15X335 EA15X335 (1) EA15X335 (1) (1)	GE-212 GE-212 GE-62	(1R)2SC945 (1R)2SC945 (1R)2SC644	PTC121 *	HEPS0015 *	RE 192 RE 192 RE 13 *	SK3124 SK3124 SK3018 *	RT-107A RT-107A RT-308	ECG199 ECG199 ECG123A *
Q16	2SC829 2SC839	EA15X364 (1) (1)	GE-211 *	(1R)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308	ECG123A *

PARTS LIST AND DESCRIPTION (CONTINUED)
(When ordering parts, state Model, Part Number, and Description.)

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

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Q17	2SC710	EA15X364 (1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710D		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC839		GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q18	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829C	RT6733 (1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
Q19	2SA733Q	EA15X385	GE-48	TR-88 *	PTC144 *	HEPS3012 *	RE 18 *	SK3025 *	RT-115 *	ECG129 *
	2SA733P	EA15X385 (1)	GE-48	TR-88 *	PTC144 *	HEPS3012 *	RE 18 *	SK3025 *	RT-115 *	ECG129 *
	2SA733	(1)	GE-48	TR-88 *	PTC144 *	HEPS3012 *	RE 18 *	SK3025 *	RT-115 *	ECG129 *
Q20	2SC1327T	EA15X386	GE-85 *	(IR)2SC945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
	2SC1327U	EA15X386 (1)	GE-85 *	(IR)2SC945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
	2SC1327	(1)	GE-85 *	(IR)2SC945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
Q21	2SC900	(1)	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC945	RT7557	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC900E	EA4025	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
Q22	2SC900U	EA4025 (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
	2SC945AP	RT7557	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q501	2SC945	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC828	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
	2SC945AP	RT7557	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q501	2SC915	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC828	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199

* Lead configuration may vary from original.
(1) Used in some versions.
(11) Rating 12 WATTS @ 3 AMPS.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
C1	.1 10V	RT5264		TDC104M050EL	QDT1-2	SD50-R109
C2	.1 10V	EA31X246	PC10-25	VTT10B25	QV1-41	EV-1222
C3	.22 10V	RT8326		TDC224M050EL	QDT1-10	SD50-R229
C11	.47 10V	EA31X214	PC50-16	VTT47D16	QV1-73	EV-1226
C18	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C50	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C72	10 16V	EA31X246	PC10-25	VTT10B25	QV1-41	EV-1222
C74	3.3 25V	EA2552	PC5-50	VTT3R3A50	QV1-23	EV-1318
C76	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C78	.47 16V	EA31X214	PC50-16	VTT47D16	QV1-73	EV-1226
C85	3.9 25V	EA31X242		TAC395K025P05	QDT1-46	SD50-3R99
C86	.47 10V	EA31X223		TDC474M050EL	QDT1-19	SD50-R479
C87	33 6.3V	RT5269	PC30-25	VTT33B10	QV1-61	EV-1125
C93	47 16V	EA31X214	PC50-16	VTT47D16	QV1-73	EV-1226
C94	200 16V	RT5047	PC200-16	VTT220H16	QV1-479	TVA-1160.6
C96	3.3 25V	EA31X239	PC5-50	VTT3R3A50	QV1-23	EV-1318
C97	47 10V	EA31X214	PC50-16	VTT47D16	QV1-73	EV-1226
C99	47 25V	EA31X209	PC50-25	VTT47E25	QV1-75	EV-1326
C100	1000 16V	EA31X200	PC1000-16	VTT1000L16	QV1-183	EV-1260
C101	33 6.3V	RT5269	PC30-25	VTT33B10	QV1-61	EV-1125
C113	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C140	4.7 25V	EA31X211	PC5-50	VTT47B50	QV1-27	EV-1319

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
C4	68 N150 10% 50V	EA18X173	DC-103	MGPO1	TA110	QC2-141	10TCP-Q68
C5	.01 50V						TG-S10
C6	22 N150 50V	EA18X155	DD-331	GP330	GP333		10TCP-Q22
C7	330 10% 50V	(1)	DD-221		GP322		10TS-T33
C8	220 50V		DD-151		GP315		10TS-T15
C9	.047 50V		UK50-503		MAG5015		
C10	47 50V		DTZ-47	NP047	CN0447		10TCC-Q47
C12	4 N150 50V	RT7562					10TCP-V39
C13	.001 10% 50V			DPMS6D1	EWFA210	QFT2-1	1FT-D10
C14	68 N150 10% 50V	EA18X173					10TCP-Q68
C15	.01		DC-103	MGPO1	TA110	QC2-141	TG-S10
C16	33 50V	(1)	DTZ-33	NP033	CN0433		10TCC-Q33
C17	47 N150 10% 50V	EA18X248					10TCP-Q47
C19	.001 10% 50V			DPMS6D1	EWFA210	QFT2-1	1FT-D10
C20	.001 10% 50V			DPMS6D1	EWFA210	QFT2-1	1FT-D10
C21	.001 100V			CD19FD102J03	SX210		MWC-102
C22	2 50V		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C23	7 50V		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C24	33 N150 10% 50V	EA18X232					10TCP-Q33
C25	4 N150 50V	RT7562					10TCP-V39

PARTS LIST AND DESCRIPTION
(When ordering parts, state Model, Part Number, and Description.)

CAPACITORS (cont)

ITEM No.	RATING
C26	560 10% 50V
C27	330 50V
C28	390 50V
C29	.01 50V
C30	68 50V
C31	56 50V
C32	.01 50V
C33	2 50V
C35	.01 50V
C36	68 50V
C37	100 N150 10% 50V
C38	.01 50V
C39	.01 10% 50V
C40	330 50V
C41	.01 50V
C42	120 10% 50V
C43	220 50V
C44	120 10% 50V
C45	.01 50V
C46	120 10% 50V
C47	270 10%

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.
Q17	2SC710	EA15X364 (1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC7100		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC839		GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q18	2SC829	RT6733	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
	2SC829	(1)	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
Q19	2SA733Q	EA15X385	GE-48	TR-88 *	PTC144 *	HEPS3012 *	RE 18 *	SK3025 *	RT-115 *	ECG129 *
	2SA733P	EA15X385 (1)	GE-48	TR-88 *	PTC144 *	HEPS3012 *	RE 18 *	SK3025 *	RT-115 *	ECG129 *
	2SA733	(1)	GE-48	TR-88 *	PTC144 *	HEPS3012 *	RE 18 *	SK3025 *	RT-115 *	ECG129 *
Q20	2SC1327T	EA15X386	GE-85 *	(IR)2SC945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
	2SC1327U	EA15X386 (1)	GE-85 *	(IR)2SC945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
	2SC1327	(1)	GE-85 *	(IR)2SC945	PTC139 *	HEPS0024 *	RE 192	SK3124	RT-107A	ECG199
Q21	2SC900	(1)	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q22	2SC945	RT7557	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC900E	EA4025	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC900U	EA4025 (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
Q501	2SC945AP	RT7557	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	SK3122	RT-302	ECG199
Q501	2SC945AP	RT7557	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC915	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC828	(1)	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199

* Lead configuration may vary from original.

(1) Used in some versions.

(11) Rating 12 WATTS @ 3 AMPS.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFRG. PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C1	.1 10V	RT5264	PC10-25	TDC104M050EL	QDT1-2	SD50-R109
C2	10 16V	EA31X246		VTT10B25	QV1-41	EV-1222
C3	.22 10V	RT8326		TDC224M050EL	QDT1-10	SD50-R229
C11	47 10V	EA31X214	PC50-16	VTT47D16	QV1-73	EV-1226
C18	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C50	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C72	10 16V	EA31X246	PC10-25	VTT10B25	QV1-41	EV-1222
C74	3.3 25V	EA2552	PC5-50	VTT3R3A50	QV1-23	EV-1318
C76	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C78	47 16V	EA31X214	PC50-16	VTT47D16	QV1-73	EV-1226
C85	3.9 25V	EA31X242	PC30-25	TAC395K025P05	QDT1-46	SD50-3R99
C86	.47 10V	EA31X223		TDC474M050EL	QDT1-19	SD50-R479
C87	33 6.3V	RT5269		VTT33B10	QV1-61	EV-1125
C93	47 16V	EA31X214	PC50-16	VTT47D16	QV1-73	EV-1226
C94	200 16V	RT5047	PC200-16	VTT220H16	QV1-479	TVA-1160.6
C96	3.3 25V	EA31X239	PC5-50	VTT3R3A50	QV1-23	EV-1318
C97	47 10V	EA31X214	PC50-16	VTT47D16	QV1-73	EV-1226
C99	47 25V	EA31X209	PC50-25	VTT47E25	QV1-75	EV-1326
C100	1000 16V	EA31X200	PC1000-16	VTT1000L16	QV1-183	EV-1260
C101	33 6.3V	RT5269	PC30-25	VTT33B10	QV1-61	EV-1125
C113	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C140	4.7 25V	EA31X211	PC5-50	VTT47R850	QV1-27	EV-1319

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
C4	68 N150 10% 50V	EA18X173	DC-103	MGP01	TA110	QC2-141	10TCP-Q68
C5	.01 50V	EA18X155					TG-S10
C6	22 N150 50V						10TCP-Q22
C7	330 10% 50V						10TS-T33
	220 50V	(1)	DD-331	GP330	GP333		10TS-T22
	150 10% 50V		DD-221		GP322		10TS-T15
C8	.047 50V		DD-151		GP315		
C9	.047 50V		UK50-503		MAG5015		
C10	47 50V		DTZ-47	NP047	CN0447		10TCC-Q47
C12	4 N150 50V	RT7562			*		10TCP-V39
C13	.001 10% 50V			DPMS6D1	EWF1A210	QFT2-1	1FT-D10
C14	68 N150 10% 50V	EA18X173			*		10TCP-Q68
C15	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C16	33 50V	(1)	DTZ-33	NP033	CN0433		10TCC-Q33
C17	47 N150 10% 50V	EA18X248			*		10TCP-Q47
C19	.001 10% 50V			DPMS6D1	EWF1A210	QFT2-1	1FT-D10
C20	.001 10% 50V			DPMS6D1	EWF1A210	QFT2-1	1FTD10
C21	.001 100V			CD19FD102J03	SX210		MWC-102
C22	2 50V		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C23	7 50V		DTZ-6R8	NP06P8	CN0568		10TCC-V68
C24	33 N150 10% 50V	EA18X232			*		10TCP-Q33
C25	4 N150 50V	RT7562			*		10TCP-V39

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
C26	560 10% 50V	(1)	DD-561	GP330	GP356	QC2-141	10TS-T56
C27	330 50V		DD-331		GP333		10TS-T33
C28	390 50V		DD-391		GP339		10TS-T39
C29	.01 50V	EA18X186	DC-103	MGP01	TA110	QC2-141	TG-S10
C30	68 50V		DD-680	GP68	GP468		10TS-Q68
C31	56 50V		DD-560		GP456		10TS-Q56
C32	.01 50V	EA18X228	DC-103	MGP01	TA110	QC2-141	TG-S10
C33	2 50V		DTZ-2R2	NPO2P2	CN0522		10TCC-V22
C34	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C35	68 50V	EA18X186	DD-680	GP68	GP468		10TS-Q68
C36	.01 50V		DC-103	MGP01	TA110		TG-S10
C37	100 N150 10% 50V				*	QC2-141	10TCP-T10
C38	.01 50V	EA18X228	DC-103	MGP01	TA110		TG-S10
C39	.01 10% 50V		DC-103	WMF1S1	EWF1A110		1FT-S10
C40	330 50V		DD-331	GP330	GP333	QC2-141	10TS-T33
C41	.01 50V	EA18X228	DTZ-120	MGP01	TA110		TG-S10
C42	120 10% 50V		DTZ-120		CN0312		10TCC-T12
C43	220 50V	EA18X228	DD-221		GP322	QC2-141	10TS-T22
C44	120 10% 50V		DTZ-120		CN0312		10TCC-T12
C45	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C46	120 10% 50V	EA18X228	DTZ-120		CN0312		10TCC-T12
C47	270 10% 500V		DTZ-120		CN0312		10TCC-T12
C48	2 500V	EA18X228	DTZ-2R2		SX327	QC2-141	56A-D47
C49	.0047 50V		DD-472		GP247		10TCC-Q27
C51	27 50V				GP4700		TG-S10
C52	.01 50V	EA18X228	DC-103	MGP01	TA110	QC2-141	TG-S10
C53	.047 50V		UK50-503		MAG5015		10TCC-Q10
C54	.047 50V		UK50-503		MAG5015	QC2-141	10TCC-Q10
C55	.047 10% 50V	EA18X228	DC-103	MGP01	EWF1A147		1FT-S47
C56	.01 50V		DTZ-10	MGP01	TA110	QC2-141	TG-S10
C57	10 50V		DC-103	MGP01	CN0410		TG-S10
C58	.01 50V	EA18X228	DC-103	MGP01	TA110	QC2-141	TG-S10
C59	.01 50V		DC-103	MGP01	TA110		TG-S10
C60	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C61	.01 50V	EA18X228	DC-103	MGP01	TA110		TG-S10
C62	.01 50V		DC-103	MGP01	TA110		TG-S10
C63	2 50V	EA18X228	DTZ-2R2	NPO2P2	CN0522	QC2-141	10TCC-V22
C64	.01 50V		DTZ-2R2	MGP01	TA110		TG-S10
C65	18 NPO 50V				CN0418	QC2-141	10TCC-Q18
C66	2.2 500V	EA18X228	DTZ-2R2	NPO2P2	CN0522		10TCC-V22
C67	.047 10% 50V				EWF1A147	QC2-141	1FT-S47
C68	.047 10% 50V	EA18X228			EWF1A147		1FT-S47
C69	.047 10% 50V				EWF1A147	QC2-141	1FT-S47
C70	.047 10% 50V	EA18X228			EWF1A147		1FT-S47
C71	.047 10% 50V				EWF1A147	QC2-141	1FT-S47
C72	.0068 10% 50V				EWF1A147		1FT-S47
C73	.0022 10% 50V	EA18X228			EWF1A268	QC2-141	1FT-D68
C74	100 10% 50V				M192P2229R8		1FT-D22
C75	.0022 10% 50V				GP310	QC2-141	10TS-T10
C76	.0022 50V	EA18X228			GP222		10TS-D22
C77	.0022 10% 50V				M192P2239R8	QC2-141	1FT-S22
C78	.0022 10% 50V				GP322		10TS-T22
C79	220 50V	EA18X228			GP322	QC2-141	1FT-S10
C80	.01 10% 50V				EWF1A110		10TS-D22
C81	.0022 50V				GP222	QC2-141	10TS-Q68
C82	.01 10% 50V	EA18X228			GP222		10TS-Q68
C83	.0022 50V				GP222		10TS-T10
C84	68 50V	EA18X228			GP222	QC2-141	10TS-T1

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
C203	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C204	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C205	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
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	.047 50V		UK50-503		MAG5015		
C213	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C501	.01 10% 50V	EA18X228					
C502	.01 10% 50V	EA18X228					
C503	.01 10% 50V	EA18X228					
C504	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
CT1	20	EA30X52					GKB20000

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

(1) Used in some versions.

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
RV1	Squelch Range	10K	EA49X330				
RV2	AMC	5000	EA49X345				
RV3	S Meter	20K	EA49X332				
RV4	RF Meter	20K	EA49X332				
RV501	SWR	5000	EA49X355				
RV502	Ant Warning	10K	EA49X356				
VR1	Volume/Power Switch	50K	EA49X328				
VR2	Squelch	10K	EA49X344				
VR3	RF Gain	100K	EA49X353				
VR4	SWR CAL	10K	EA49X344				

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	VCO	EA36X257	10DD-003S-69MT		
L2	VCO/Mixer	EA36X258	10MB-003T-6914		
L3	RF Choke (68uH)	EA36X239			
L4	RF Choke (1uH)	EA36X259			
L5	Harmonic Suppressor (27MHz)	EA36X260			
L6	RF Choke (2.2uH)	EA36X237			
L7	Xmit Driver (27MHz)	EA36X238			
L8	RF Choke (68uH)	EA36X239			
L9	RF Choke (.55uH)	EA36X245			
L10	RF Choke (1uH)	EA36X240			
L11	Final Amp (27MHz)	EA36X241			
L12	Antenna Match (27MHz)	EA36X242			
L13	RF Choke (.4uH)	EA36X261			
L14	Rec Mixer (10.695MHz)	EA36X242	10MA-017S-6813		
L15	RF Choke (68uH)	EA36X239			
L16	RF Choke (1.15uH)	EA36X263			
L17	RF Choke (1.15uH)	EA36X263			
T1	Ref Oscillator (10.240MHz)	EA35X102	100B-002S-6813		
T2	VCO/Mixer	EA36X264			
T3	VCO/Mixer	EA36X247	1008-001M-68LT		
T4	Xmit Buffer (27MHz)	EA36X248	10CP-0059-V2		
T5	Rec Antenna (27MHz)	EA36X249	10MP-003S-W0		
T6	Rec RF (27MHz)	EA36X265	0CA-003T-602E		
T7	Rec Mixer (10.695MHz)	EA36X266			
T8	IF (455kHz)	EA61X188	E11-0122-683T		
T9	IF (455kHz)	EA61X189	860		
T10	IF (455kHz)	EA61X190	ET1-0129-68BT		

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	1.3A	.24	3.72mH	EA36X256 LJ119H004W(1)			(1) Number on unit.

GENERAL ELECTRIC MODEL 3-5819A

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	EA64X30 ETA-66(1)	TR723	MCB-16	(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3 1/2" PM, 8 Ohms	EA95X120	3A05Z8R	

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	EA68X123	18-032	18-034	18-010	18-092	1	2	4	3	NC	2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	EA36X232	455kHz
J1	Jack	EA41X143	Antenna
J2	Jack	EA41X148	Microphone
J3	Jack	EA41X135	External PA
J4	Jack	EA41X135	External Speaker
J5	Jack	EA41X149	DC Power
LED301	LED	EA16X303	Channel Indicator (With circuit board)
M1	Meter	EA62X152	S/R/SWR
PL1	Lamp	EA41X145	MOD (4.45V @ 32mA)
PL2	Lamp	EA41X150	AWI (5.02V @ 30mA)
PL3	Lamp		Meter (4.98V @ 32mA)
S1	Switch		Power (On Volume)
S2	Switch	EA39X224	Delta Tune
S3	Switch	EA39X226	Tone
S4	Switch	EA55X133	CB/PA
S5	Switch	EA39X225	Noise Blanker
S6	Switch	EA39X227	SWR-CAL-S/R
SW1	Switch	EA55X137	Channel Selector (With circuit board and resistor network)
X1	Crystal	EA75X5	Ref Oscillator (10.240MHz)
X2	Crystal	EA75X6	Xmit Oscillator (10.695MHz)
	Cord Assembly	EA68X119	DC Power
	Printed Circuit Board	EA93X289	AWI/SWR (With components)

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

ITEM	PART No.	ITEM	PART No.
Cabinet, Top	EA98X491	Knob, Channel Selector	EA43X683
Cabinet, Bottom	EA98X492	Knob, Control	EA43X682
Escutcheon Assembly	EA89X256		

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')