



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 3-5804B

MANUFACTURER'S SPECIFICATIONS

GENERAL

CHANNELS: 40 channels, PLL digital logic synthesizer circuitry

POWER REQUIREMENT: Consumption - 18 watts, Current drain - 1.3 amps (100% mod.) at 13.8 Volt DC

POWER SUPPLY: 12 Volts DC nominal (Positive or Negative ground)

SEMICONDUCTORS: Integrated circuits, transistors and diodes

OPERATING TEMPERATURE RANGE: -30 to +50°C

MICROPHONE: Dynamic with push-to-talk switch, 500 ohm

BUILT-IN SPEAKER: 8 ohms impedance, 77mm (3 inches) dynamic

CONTROLS: Volume with ON/OFF switch, Squelch control, Channel selector switch, PA /CB switch

CONNECTORS: External speaker jack 3.5mm (8 ohms impedance), Antenna receptacle to match PL-259 coax plug (50 ohms impedance), 12 V DC power jack (polarized type).

CIRCUIT PROTECTION: Prevents transistor burn-out when transmitting without antenna (5-min. limit); 2-amp fuse in DC power cord

ANL (Automatic Noise Limiter) built in.

RECEIVER

SENSITIVITY 10 db $\frac{S+N}{N}$: Less than 1.0uv

FREQUENCY COVERAGE: 26.965 to 27.405 MHz

ADJACENT CHANNEL SELECTIVITY: Better than 50 db

AUDIO OUTPUT POWER (power to speaker): (at 10% DIST., better than 3.0 watts

SPURIOUS REJECTION: Better than 55 db

IF FREQUENCIES: 455 KHz, 9.785 MHz

SQUELCH RANGE (SENSITIVITY): 0.5 to 2000 uv nominal

IMAGE REJECTION RATIO: Better than 40 db

TRANSMITTER

FREQUENCY RESPONSE: 400 Hz to 2.5 KHz

FREQUENCY COVERAGE: 26.965 to 27.405 MHz

TRANSMIT POWER OUTPUT (RF [radio frequency] power to antenna): 4 watts maximum as limited by FCC Regulations at 13.8 Volts DC

MODULATION: Capable of 100%; factory pre-set limit 85-100%

FREQUENCY TOLERANCE: Better than $\pm .004\%$ MAX.

All measurements at 25°C and 13.8VDC.

Courtesy of the Manufacturer

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

© 1978 Howard W. Sams & Co., Inc. Printed in U. S. of America 8CE946

GENERAL ELECTRIC MODEL 3-5804B

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

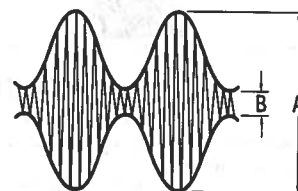
CT801. 8276, 5000

L905 9304, 9300, 9302

L901, L903, F901 9440

L101, L102, L103, T301, T302, T303, T304,

T801 thru T807 5009, 8728-A, 8728



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

FIGURE 1

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to B. (Q301, base)	Ch. 19	CT801	Adjust for 10.240MHz.
Input of oscilloscope to B. (Q301, base)	Ch. 19	T801	Adjust for maximum.
Input of DC meter to TP1 (IC801, pin 7).	Ch. 19	T802	Adjust for 2.5volts $\pm$.1 volt. Check for approx 1.8 volts on Ch. 1. Check for approx 3.3 volts on Ch. 40. Check for approx 3.3 volts on Ch. 1. Check for approx 5.1 volts on Ch. 40.
	Ch. 19, XMT		Adjust for maximum
Input of oscilloscope to A. (Q103 & Q104, Emitter)	Ch. 19	T803	Adjust for maximum
Input of frequency counter to A. (Q103 & Q104, Emitter)	Ch. 1		Check for 16.270MHz. Check all channels. (See truth chart for correct frequencies.)
Input of frequency counter to TP2. (IC802, pin 3)	Ch. 1		Check for 16.725MHz. Check all channels.
Input of frequency counter to TP2. (IC802, pin 3)	Ch. 1		Check for 16.725MHz. 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.
SQUELCH MINIMUM

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to B. (Q301, base) 455kHz, 1000Hz @ 30% modulation.	Ch. 19	T304, T303	Adjust for maximum.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	T302, T301, L103, L102, L101	Adjust for maximum. If necessary readjust T303 and T304.

RECEIVER ADJUSTMENTS

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of DC meter to TP3. No signal input.	Ch. 19	VR5	AGC Adjust for 1.25 volts +.05 volts.
Input of DC meter to TP4 (Q101, Emitter) No signal input.	Ch. 19	VR1	RF AGC Adjust for 2.0 volts +.1 volt.
Output of signal generator. thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 630uV.	Ch. 19 SQUELCH Maximum	VR4	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	VR7	RX METER Adjust for 9 on RX scale of meter.

TRANSMITTER ALIGNMENT

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of RF wattmeter to antenna input.	Ch. 19	T804,T805, T806,T807, L901,L903, L905	Adjust for maximum.
Input of RF wattmeter to antenna input.	Ch. 19	L903	Adjust for 4 watts maximum.
Input of spectrum analyzer or harmonic meter to antenna input.	Ch. 19	F901	Adjust for MINIMUM at 54MHz.

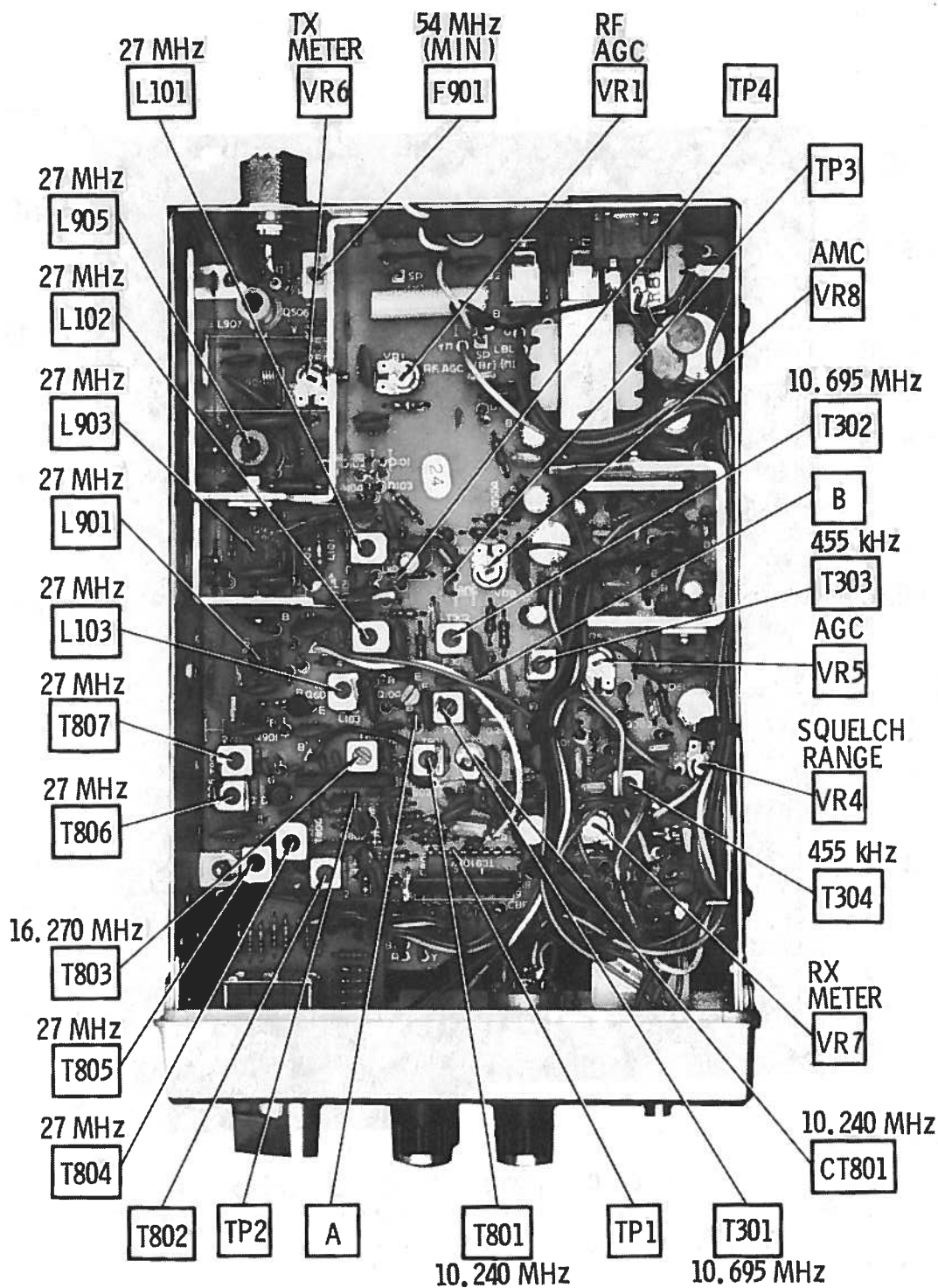
TRANSMITTER ADJUSTMENTS

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

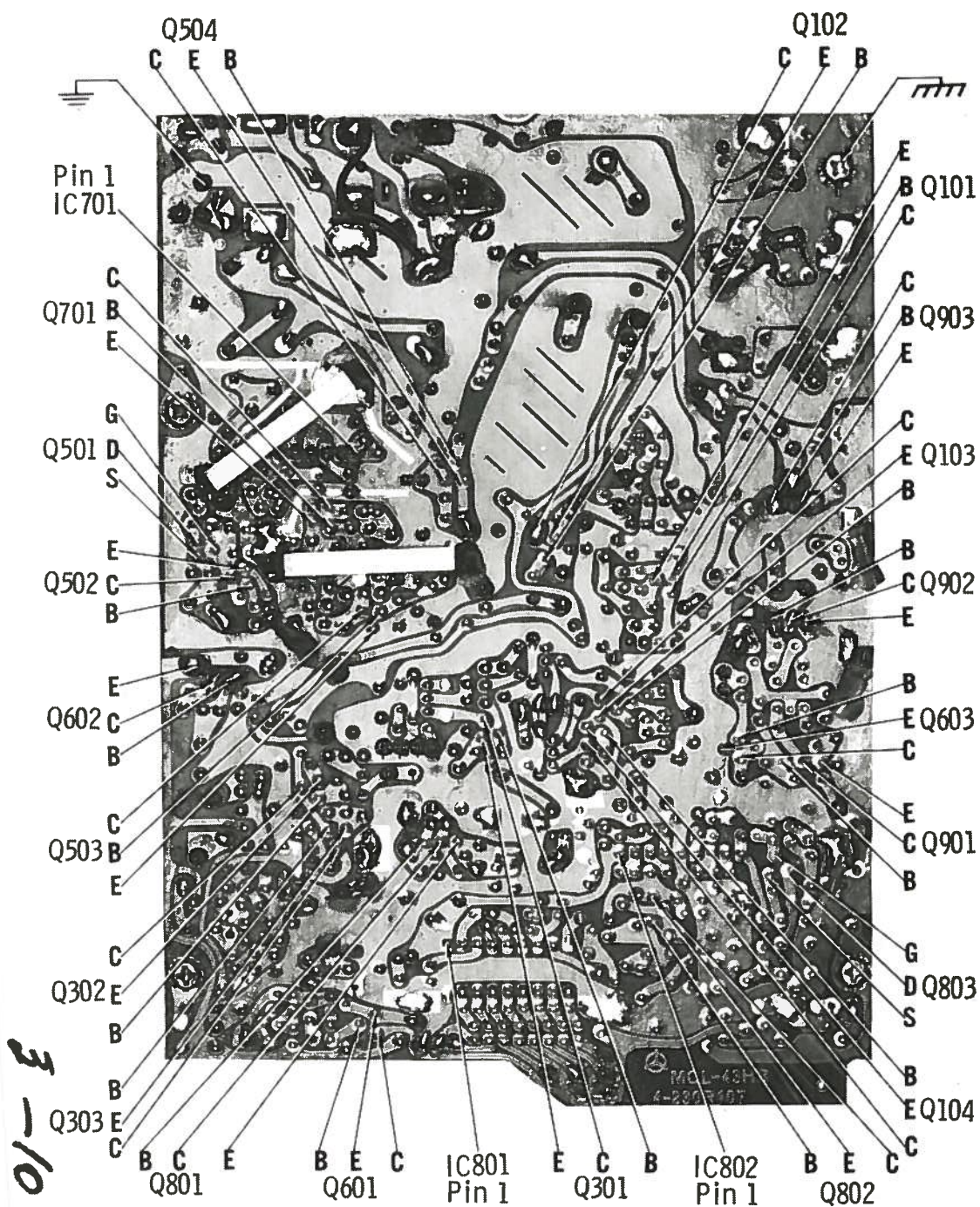
TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope or modulation meter to antenna input. Inject a 1000Hz, 200mV signal at MIC input.	Ch. 19	VR8	AMC Adjust for 100% modula- tion maximum. See Figure 1.
Input of RF wattmeter to antenna input.	Ch. 19	VR6	TX METER Adjust so the TX meter reads between the black and red areas on the TX scale of meter.

TRUTH CHART

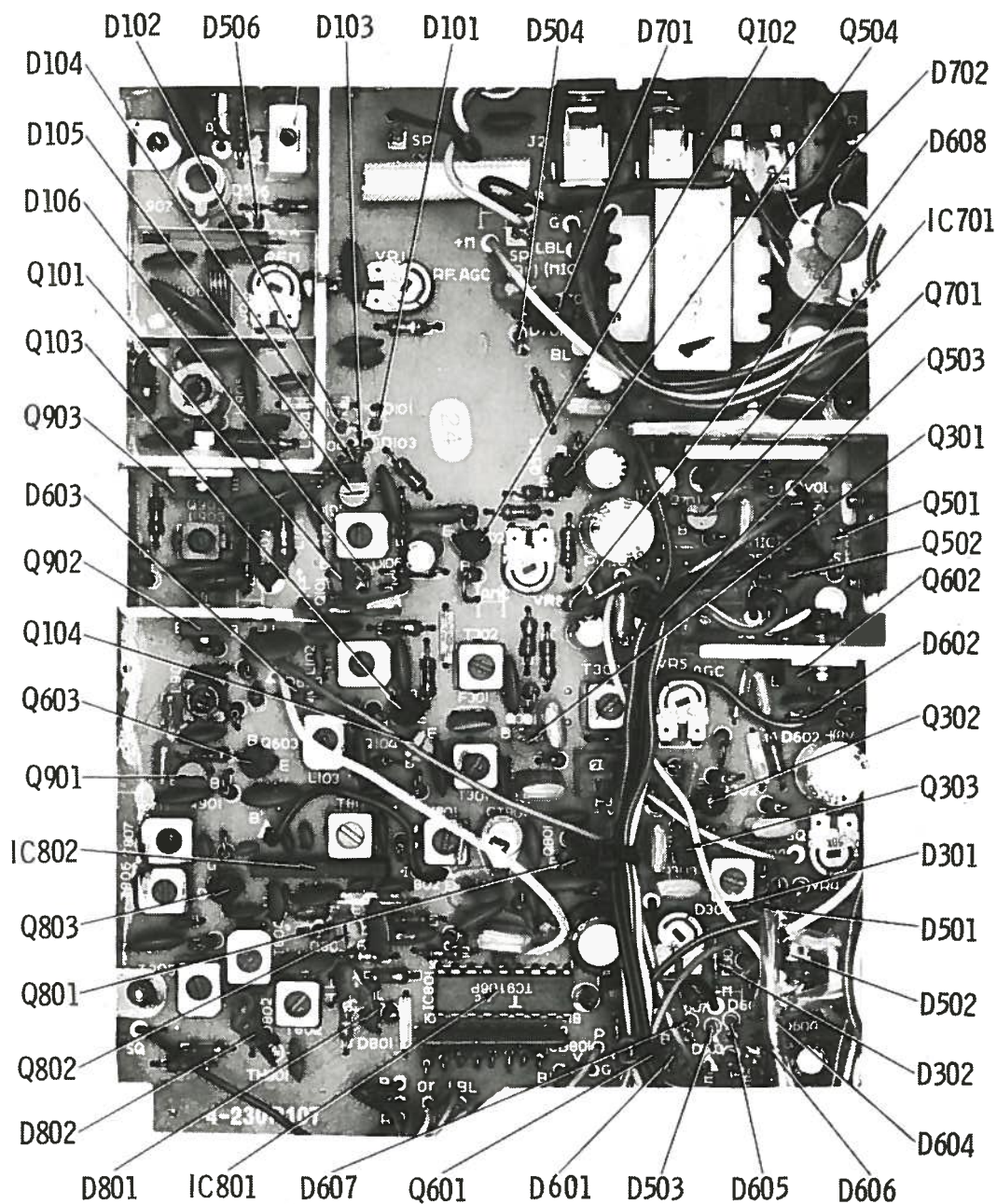
CHANNEL	1 = 7.43 Volts 0 = .42 Volts IC801 PROGRAM DIVIDER								REC VCO OUTPUT IN MHz AT Point A	XMT VCO OUTPUT IN MHz AT TP2	
	PINS										
	17	16	15	14	13	12	11	10			
1	1	1	1	1	1	1	1	1	16.270	16.725	
2	1	1	1	0	0	0	0	1	16.280	16.735	
3	1	1	1	0	1	0	0	1	16.290	16.745	
4	1	1	1	1	1	0	1	0	16.310	16.765	
5	1	1	1	0	1	0	0	0	16.320	16.775	
6	1	1	1	0	0	0	1	0	16.330	16.785	
7	1	1	1	1	1	1	0	1	16.340	16.795	
8	1	1	1	0	0	0	0	0	16.360	16.815	
9	1	1	1	1	1	0	0	0	16.370	16.825	
10	1	1	0	0	0	1	0	0	16.380	16.835	
11	1	1	0	1	1	1	1	1	16.390	16.845	
12	1	1	0	0	0	0	0	1	16.410	16.865	
13	1	1	0	0	1	0	0	1	16.420	16.875	
14	1	1	0	1	1	0	1	0	16.430	16.885	
15	1	1	0	0	1	0	0	0	16.440	16.895	
16	1	1	0	0	0	0	1	0	16.460	16.915	
17	1	1	0	1	1	1	0	1	16.470	16.925	
18	1	1	0	0	0	0	0	0	16.480	16.935	
19	1	1	0	1	1	0	0	0	16.490	16.945	
20	1	0	1	0	0	1	0	0	16.510	16.965	
21	1	0	1	1	1	1	1	1	16.520	16.975	
22	1	0	1	0	0	0	0	1	16.530	16.985	
23	1	0	1	0	1	0	0	1	16.560	17.015	
24	1	0	1	1	1	0	1	0	16.540	16.995	
25	1	0	1	0	1	0	0	0	16.550	17.005	
26	1	0	1	0	0	0	1	0	16.570	17.025	
27	1	0	1	1	1	1	0	1	16.580	17.035	
28	1	0	1	0	0	0	0	0	16.590	17.045	
29	1	0	1	1	1	0	0	0	16.600	17.055	
30	1	0	0	0	0	1	0	0	16.610	17.065	
31	1	0	0	1	1	1	1	1	16.620	17.075	
32	1	0	0	0	0	0	0	1	16.630	17.085	
33	1	0	0	0	1	0	0	1	16.640	17.095	
34	1	0	0	1	1	0	1	0	16.650	17.105	
35	1	0	0	0	1	0	0	0	16.660	17.115	
36	1	0	0	0	0	0	1	0	16.670	17.125	
37	1	0	0	1	1	1	0	1	16.680	17.135	
38	1	0	0	0	0	0	0	0	16.690	17.145	
39	1	0	0	1	1	0	0	0	16.700	17.155	
40	0	1	0	0	0	1	0	0	16.710	17.165	



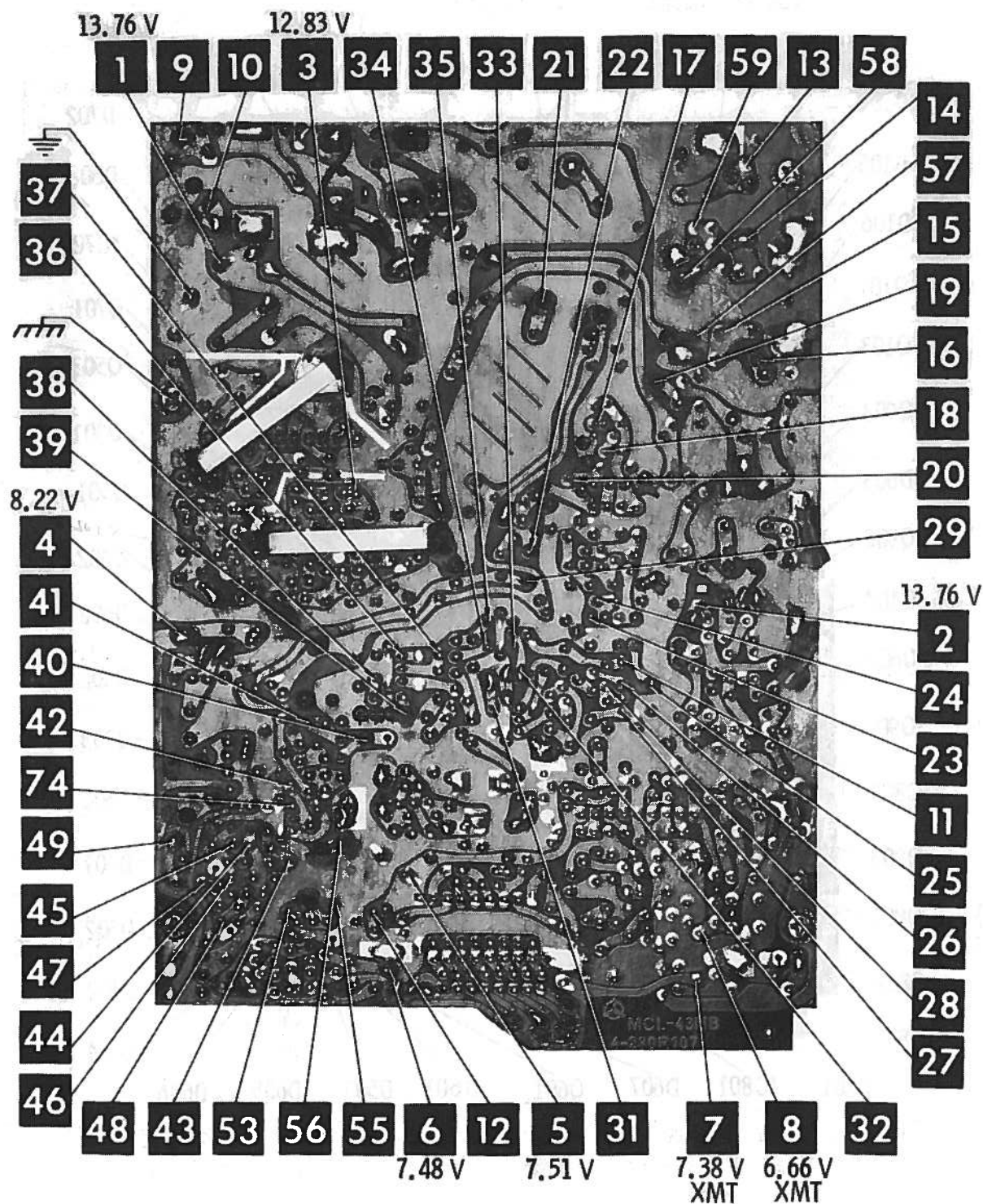
CHASSIS-BOTTOM



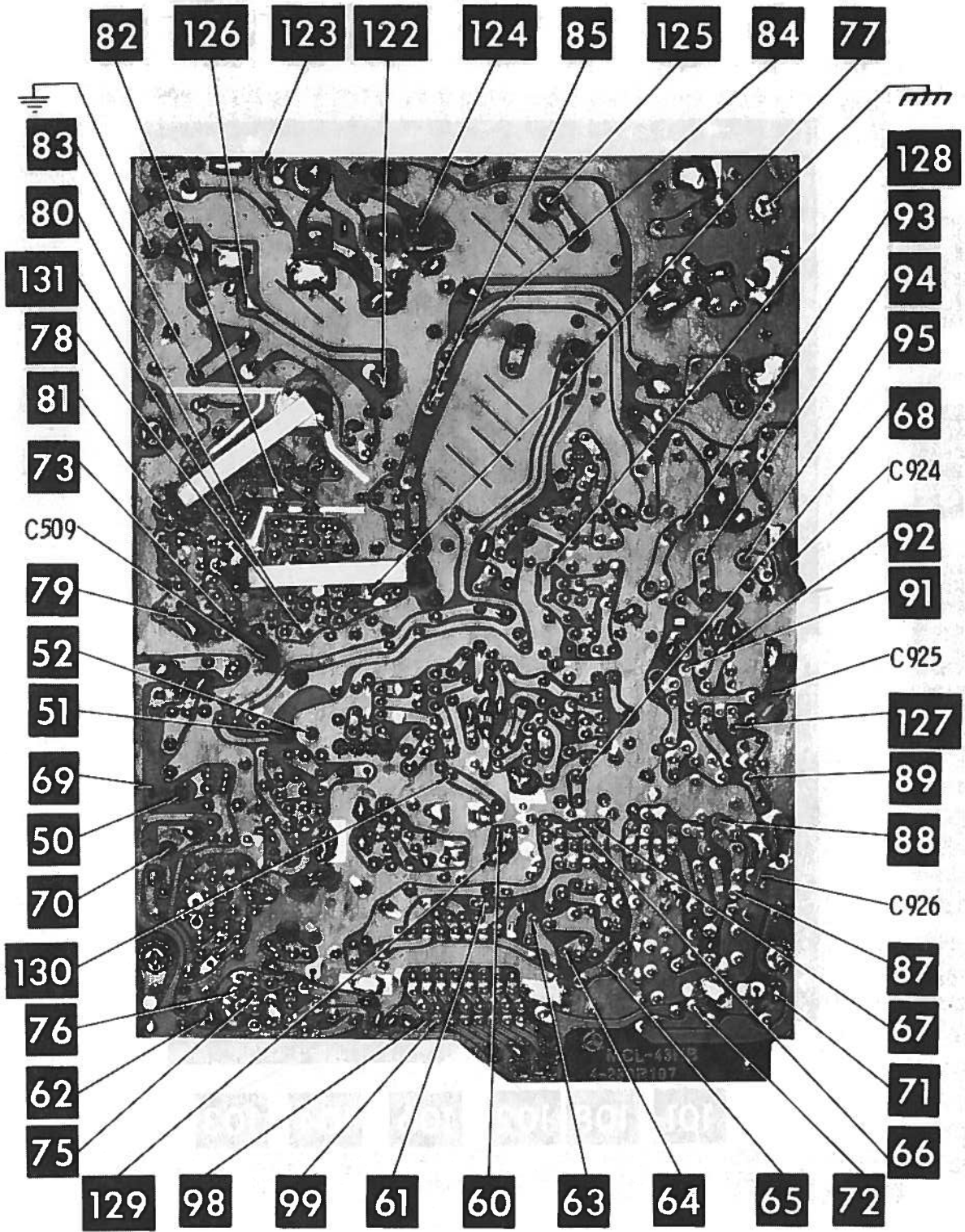
MAIN BOARD



MAIN BOARD



MAIN BOARD

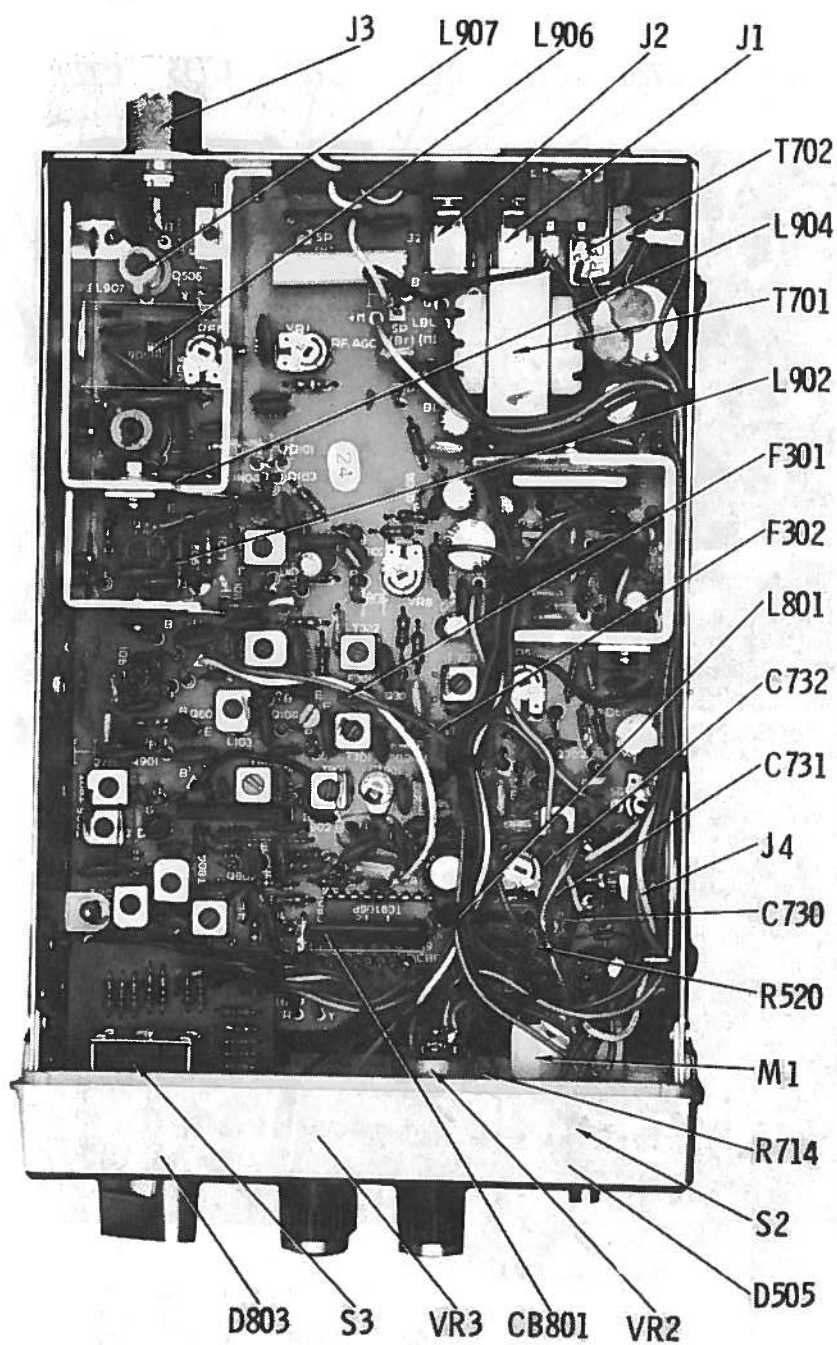


MAIN BOARD

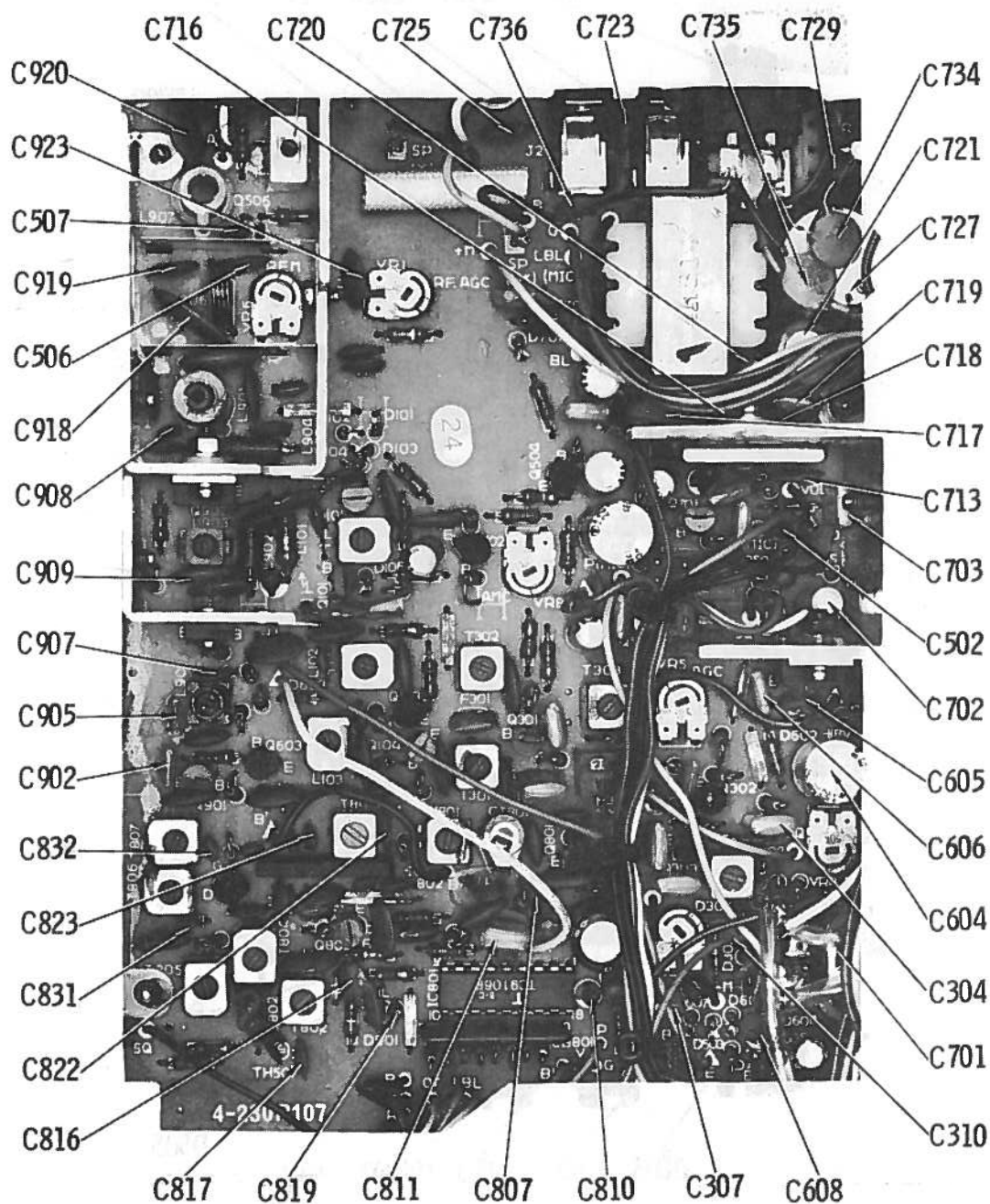


101 108 102 106 104 103

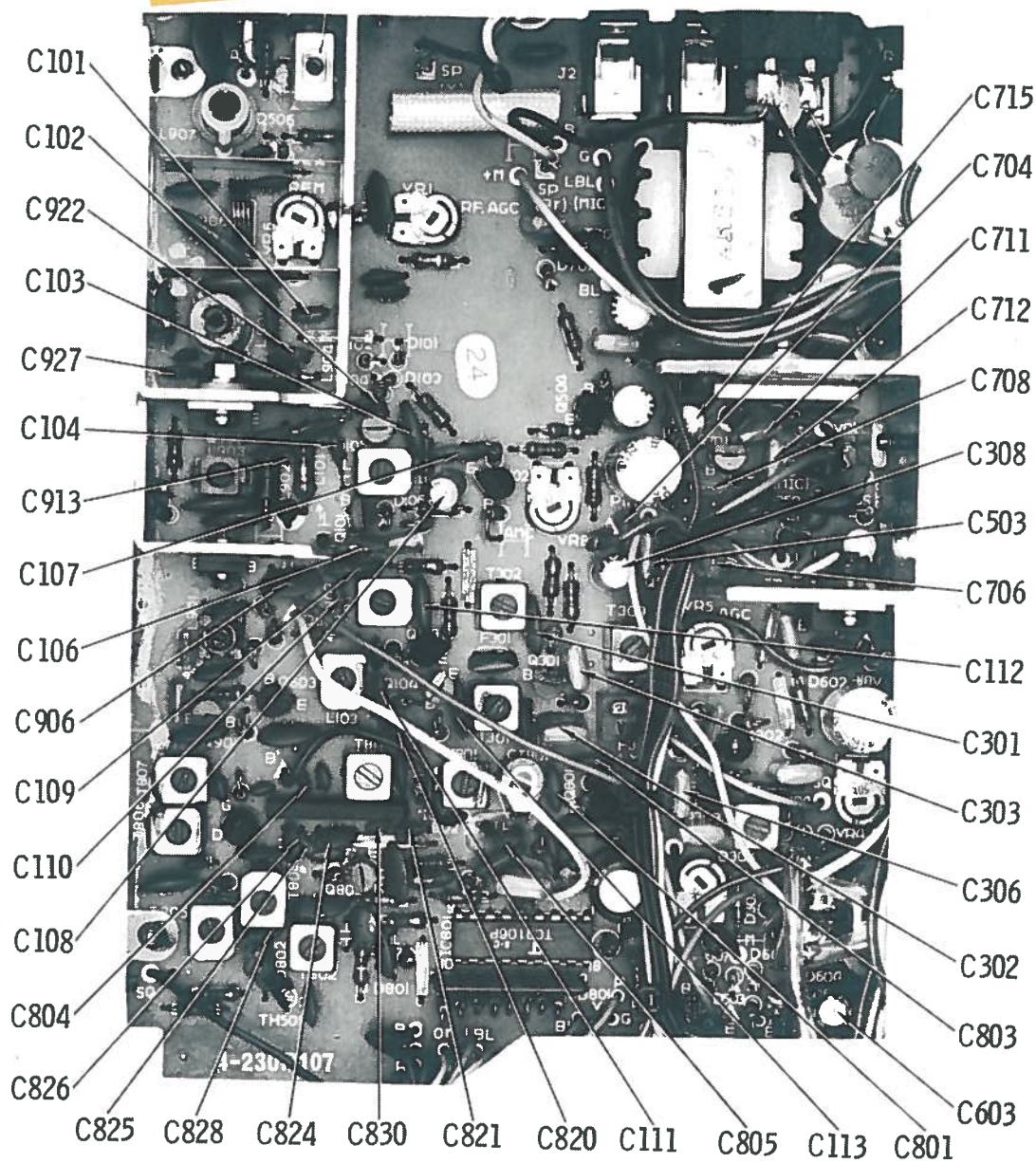
MAIN BOARD W/SHIELD LOCATION



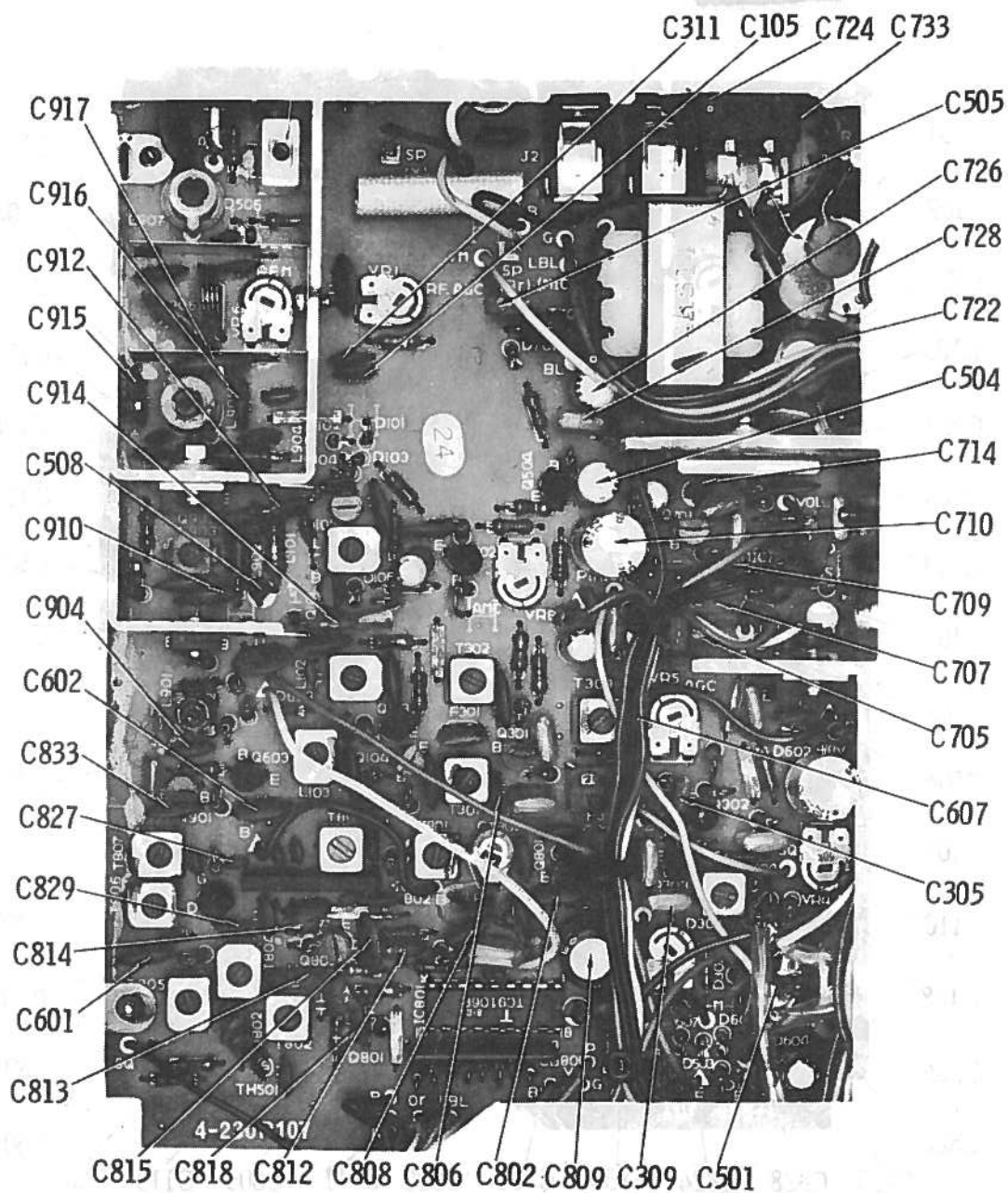
CHASSIS-BOTTOM



MAIN BOARD

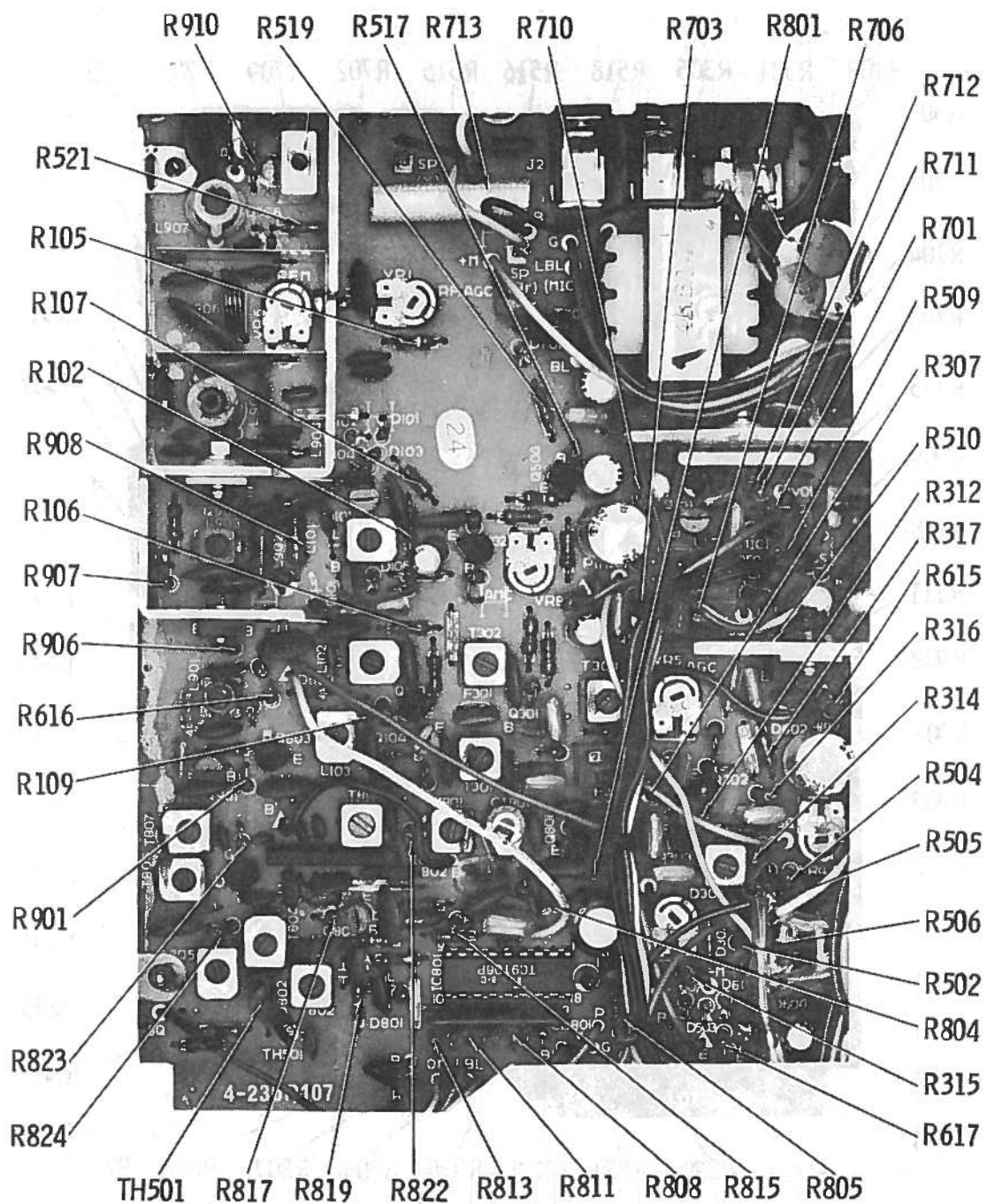


MAIN BOARD

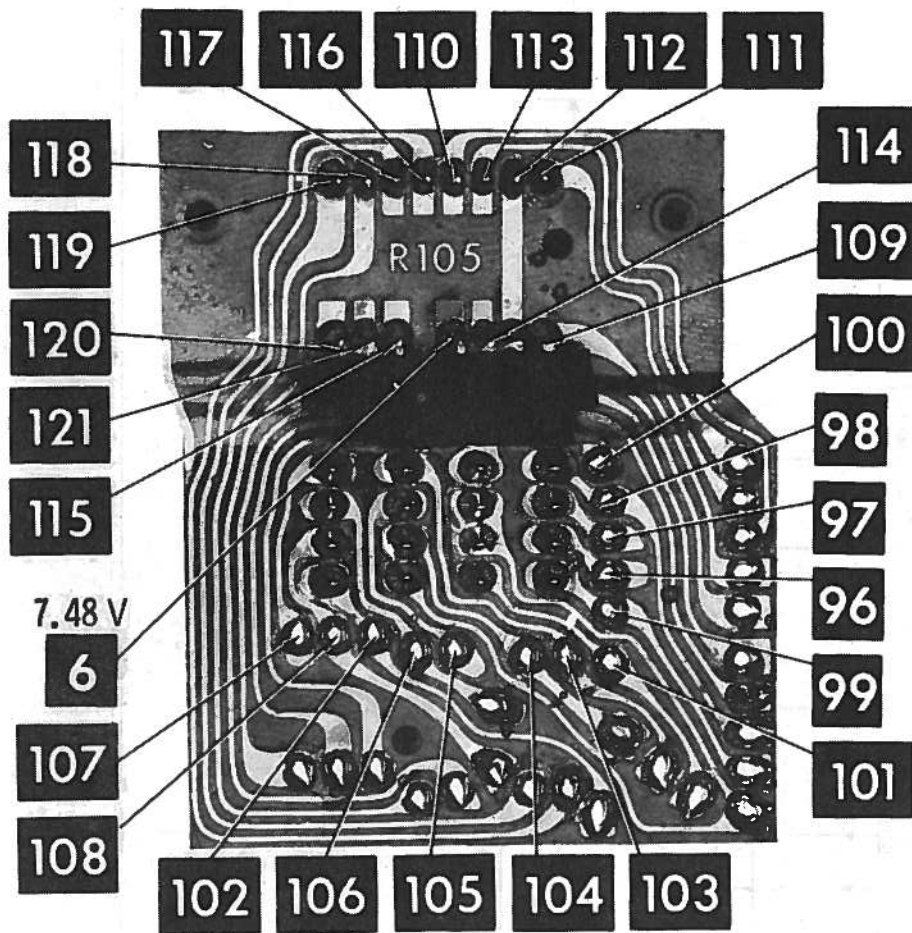


MAIN BOARD

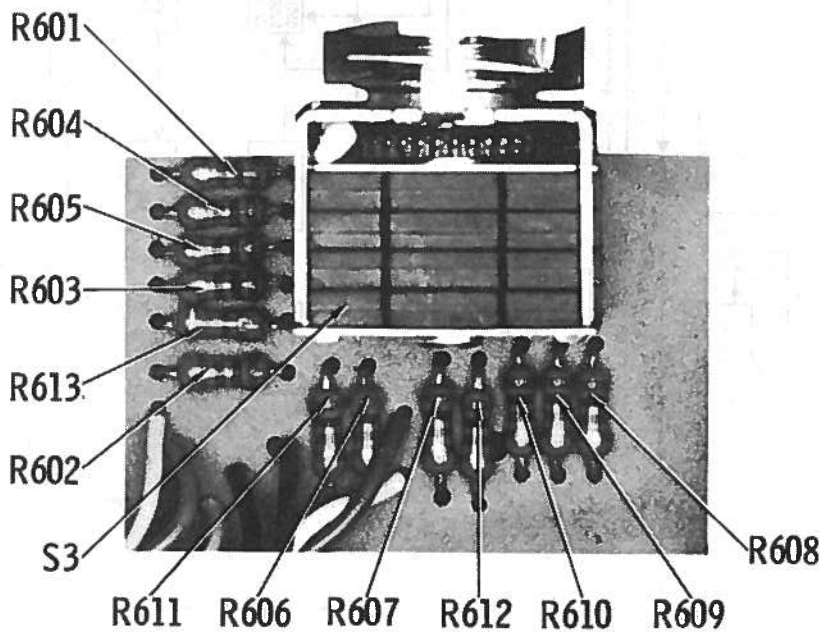




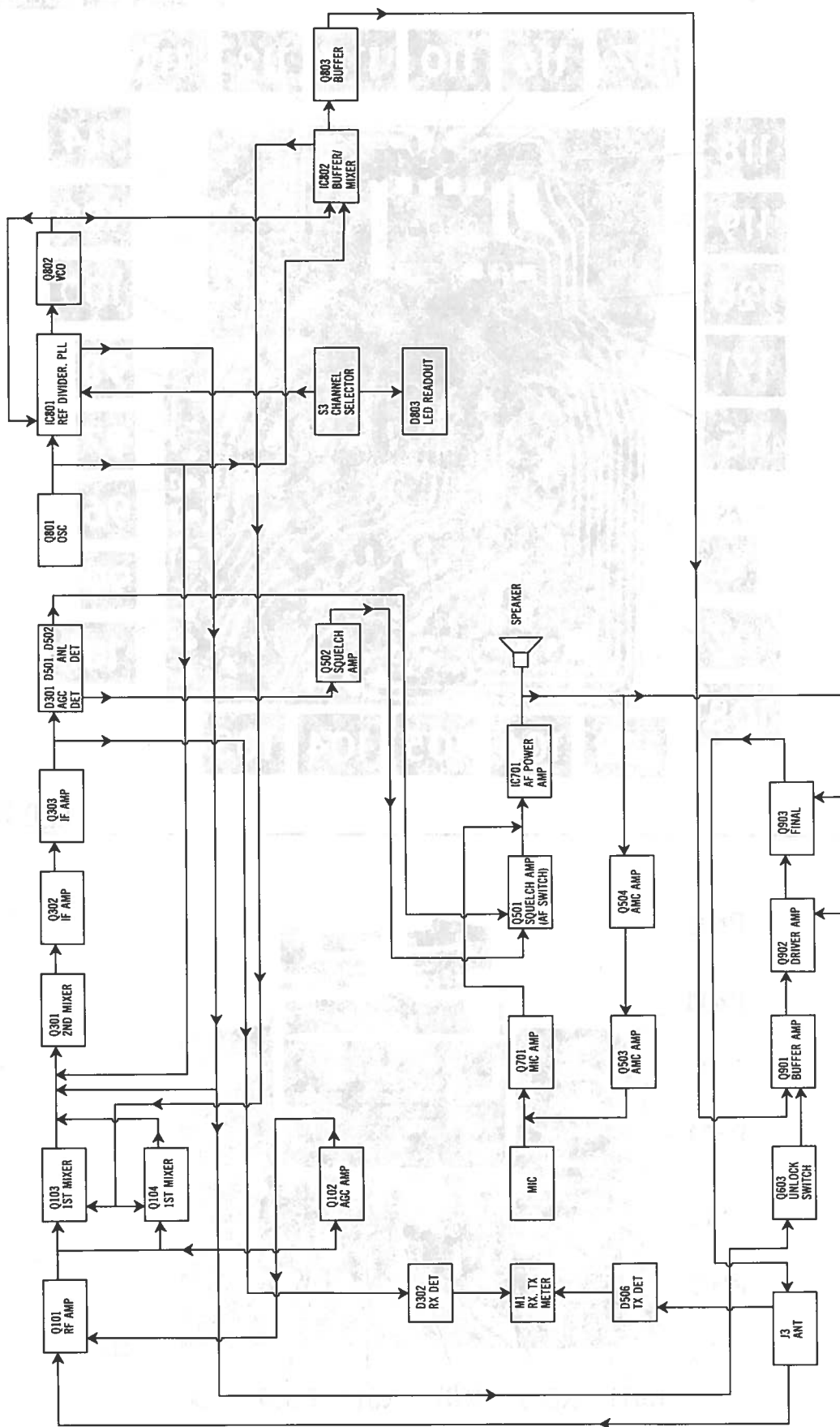
MAIN BOARD



LED BOARD



CH. SELECTOR BOARD



BLOCK DIAGRAM

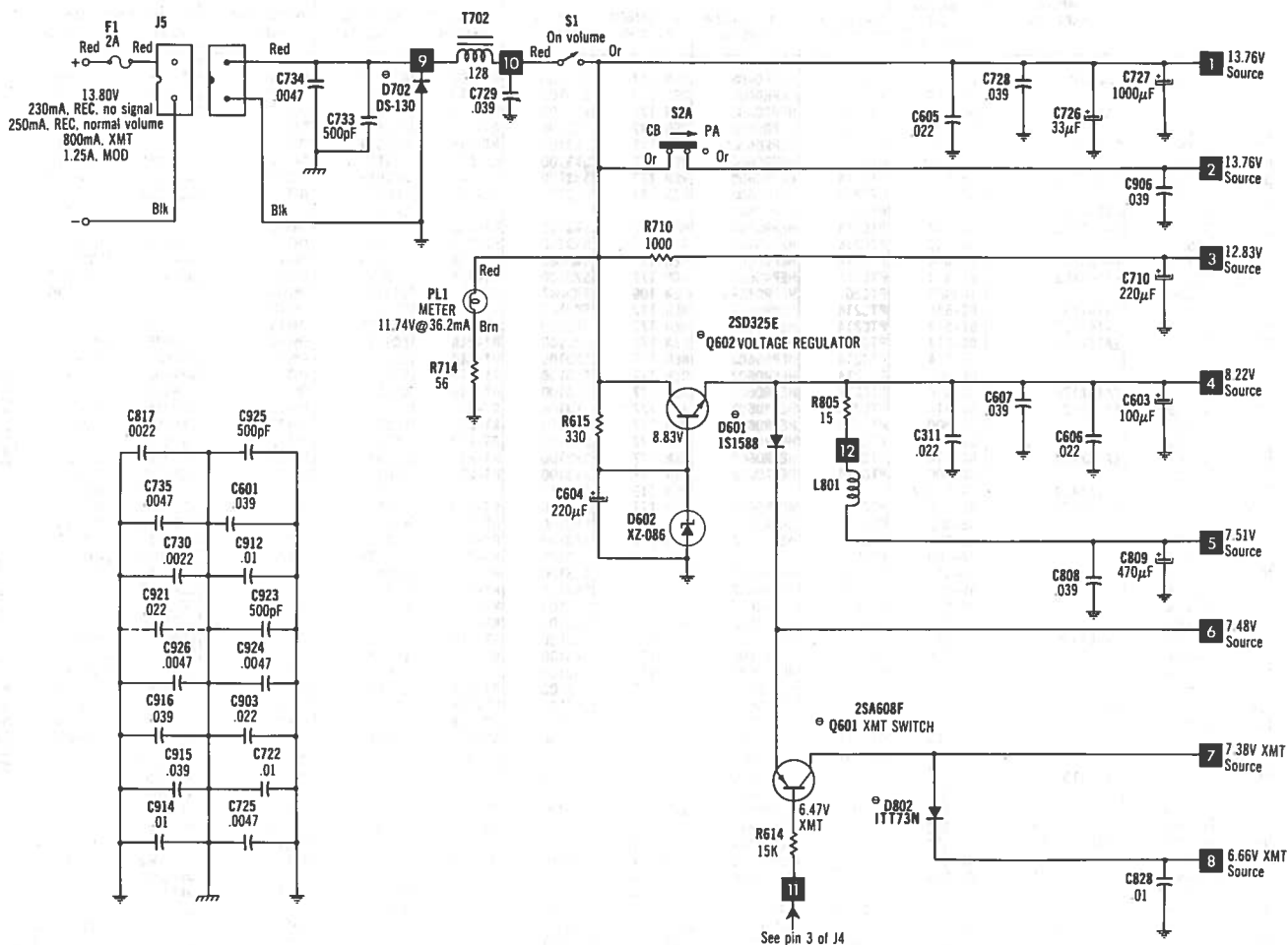
PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D101	1S1588	EA16X152	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1S1587		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D102	1S1588	EA16X152	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1S1587		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D103	1S1588	EA16X152	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1S1587		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D104	1S1588	EA16X152	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1S1587		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D105	1SV77	EA16X192		PTC311	HEPR2501				ECG611			103-146
D106	1T773N	EA16X135	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1SS53		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D301	1T773N	EA16X135	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D302	1S1588	EA16X152	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1S188		1N34AS	PTC207	HEPR9134A	REN 109	SK3087	RT-200	ECG109	TM109/**	WEP134	103-29001
D501	1T773N	EA16X135	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D502	1T773N	EA16X135	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D503	1T773N	EA16X135	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1S1588		GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1SS53		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D504	1S1587	EA16X172	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D506	1T773N	EA16X135	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1SS53		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S1588		GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D601	1S1588	EA16X152	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1S1587		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D602	XZ-086	EA16X402	GEZD-8.7			REN 113	SK3749		ECG5073	TM5073	WEP155	103-272
D603	1T773N	EA16X135	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1SS53		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S1588		GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1S1587		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D604	1T773N	EA16X135	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1SS53		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S1588		GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1S1587		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D605	1T773N	EA16X135	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1SS53		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S1588		GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1S1587		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D606	1T773N	EA16X135	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1SS53		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S1588		GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
D607	1S1587	EA16X135	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1T773N		GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1SS53		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S1588		GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1S1587		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D608	1T773N	EA16X135	GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1SS53		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S1588		GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1S1587		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
D701	DS-130	RV1424	GE-504A	PTC201	HEPR0052	REN 116	SK3311	RT-213	ECG116	TM116	WEP156	212-76-02
	10D-1		GE-504A	PTC201	HEPR0052	REN 116	SK3311	RT-213	ECG116	TM116	WEP156	212-76-02
D702	DS-130	RV1424	GE-504A	PTC201	HEPR0052	REN 116	SK3311	RT-213	ECG116	TM116	WEP156	212-76-02
	10D-1		GE-504A	PTC201	HEPR0052	REN 116	SK3311	RT-213	ECG116	TM116	WEP156	212-76-02
D801	1T773N	EA16X177	GE-90		HEPR2503	REN 614		RT-262	ECG614		WEP200	
D802	1T773N		GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1S1588		GE-514	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG519	TM519	WEP925	103-287
	1S1587		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
IC701	TA7205AP	EA33X8389	GEIC-179	PTC780		REN 1155	SK3231	TVCM-81	ECG1155	TM1155	WEP949	
IC801	TA7205P	EA33X8523	GEIC-179	PTC780		REN 1155	SK3231	TVCM-81	ECG1155	TM1155	WEP949	
IC802	TA7320P	EA33X8524										
Q101	2SC1393K		GE-62*	PTC136*	HEPS0015*	REN 123A*	SK3246	RT-105*	ECG123A*	TM123A*	WEP736*	121-29000A*
	2SC1393	EA15X437	GE-62*	PTC136*	HEPS0015*	REN 123A*	SK3246	RT-105*	ECG123A*	TM123A*	WEP736*	121-29000A*
Q102	2SC536E		GE-212	PTC121*	HEPS0016*	REN 199	SK3124	RT-107A	ECG199	TM199	WEP536	121-972
	2SC536	EA2740	GE-212	PTC121*	HEPS0016*	REN 199	SK3124	RT-107A	ECG199	TM199	WEP536	121-972
	2SC945		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
Q103	2SC930D		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	TM229/**	WEP956*	121-29021*
	2SC930	RT8333	GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	TM229/**	WEP956*	121-29021*
Q104	2SC930D		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	TM229/**	WEP956*	121-29021*
	2SC930	RT8333	GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	TM229/**	WEP956*	121-29021*
Q301	2SC930D		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	TM229/**	WEP956*	121-29021*
	2SC930	RT8333	GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	TM229/**	WEP956*	121-29021*
Q302	ED1502F		GE-20*	PTC132*	HEPS0033*	REN 123A*	SK3444*	RT-107A*	ECG229*	TM229*	WEP956*	121-29000A*
	ED1502		GE-20*	PTC132*	HEPS0033*	REN 123A*	SK3444*	RT-107A*	ECG229*	TM229*	WEP956*	121-29000A*
	2SC930	RT8333	GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	TM229/**	WEP956*	121-29021*
Q303	2SC930D		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	TM229/**	WEP956*	121-29021*
	2SC930	RT8333	GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	TM229/**	WEP956*	121-29021*
	ED1502		GE-20*	PTC132*	HEPS0033*	REN 123A*	SK3444*	RT-107A*	ECG229*	TM229*	WEP956*	121-29000A*
Q501	2SK30AY		GE-FET-1*	PTC151*	HEPF0010*	REN 133*	SK3112	RT-176*	ECG133*	TM133*	WEP801*	121-756*
	2SK104		GE-FET-2*	PTC161*	HEPF0021*	REN 132*	SK3448	RT-175*	ECG312*	TM312*	WEP920*	121-756*
	2SK30A	EA15X446	GE-FET-1*	PTC151*	HEPF0010*	REN 133*	SK3112	RT-176*	ECG133*	TM133*	WEP801*	121-756*

GENERAL ELECTRIC MODEL 3-5804B



- X— Circuitry not used in some versions
- Circuitry used in some versions
- Chassis
- Common tie point
- Signal path
- Voltage path
- See parts list
- Nominal value
- Ground

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.

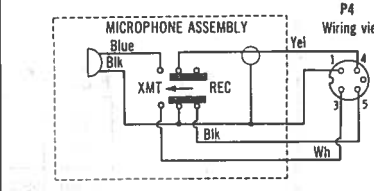
Value in () used in some versions.

A PHOTOFACT STANDARD NOTATION SCHEMATIC

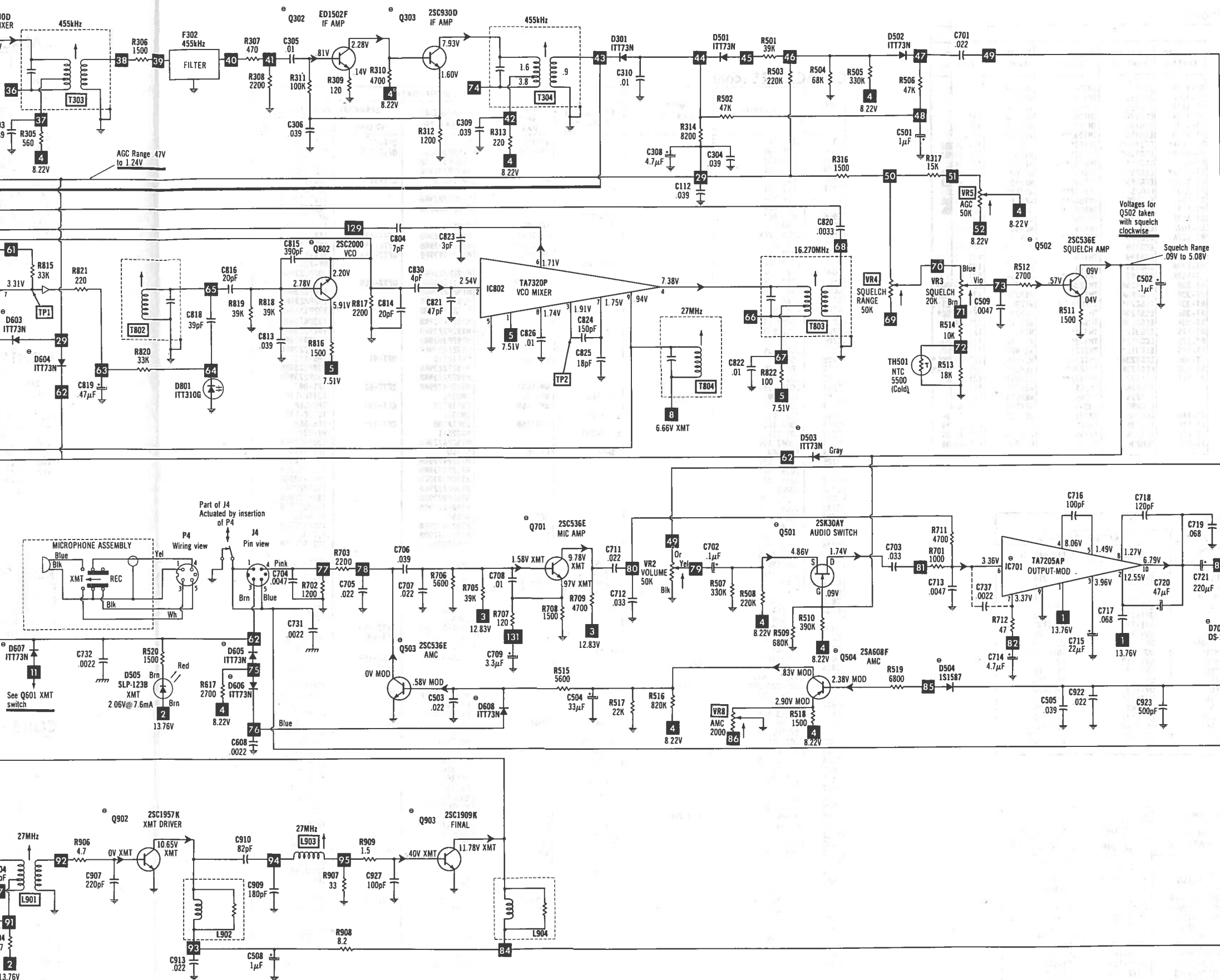
WITH **CIRCUITRACE**

© Howard W. Sams & Co., Inc. 1978

POWER SUPPLY SCHEMATIC



© Howard W. Sams & Co., Inc. 1978



PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
Q502	2SC536E	EA2740	GE-212	PTC121*	HEPS0016*	REN 199	SK3124	RT-107A	ECG199	TM199	WEP536	121-972
	2SC536		GE-212	PTC121*	HEPS0016*	REN 199	SK3124	RT-107A	ECG199	TM199	WEP536	121-972
	2SC945		GE-212	PTC121*	HEPS0016*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
Q503	2SC536E	EA2740	GE-212	PTC121*	HEPS0016*	REN 199	SK3124	RT-107A	ECG199	TM199	WEP536	121-972
	2SC536		GE-212	PTC121*	HEPS0016*	REN 199	SK3124	RT-107A	ECG199	TM199	WEP536	121-972
	2SC945		GE-212	PTC121*	HEPS0016*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
Q504	2SA608F	EA15X233	GE-82*	PTC103*	HEPS0013*	REN 159*	SK3114	RT-103A*	ECG159*	TM159*	WEP62	121-29003
	2SA608		GE-82*	PTC103*	HEPS0013*	REN 159*	SK3114	RT-103A*	ECG159*	TM159*	WEP62	121-29003
	2SA733		GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	TM294/**	WEP916	121-952
Q601	2SA608F	EA15X233	GE-82*	PTC103*	HEPS0013*	REN 159*	SK3114	RT-103A*	ECG159*	TM159*	WEP62	121-29003
	2SA608		GE-82*	PTC103*	HEPS0013*	REN 159*	SK3114	RT-103A*	ECG159*	TM159*	WEP62	121-29003
	2SA733		GE-48	PTC127	HEPS0019*	REN 294	SK3138	RT-303	ECG294	TM294/**	WEP916	121-952
Q602	2SD325E	EA4055	GE-28	PTC110	HEPS5027	REN 186	SK3197	RT-197	ECG186	TM186/**	WEP751	121-29008
	2SD325		GE-28	PTC110	HEPS5027	REN 186	SK3197	RT-197	ECG186	TM186/**	WEP751	121-29008
	2SD325E		GE-28	PTC110	HEPS5027	REN 186	SK3197	RT-197	ECG186	TM186/**	WEP751	121-29008
Q603	2SC536E	EA2740	GE-212	PTC121*	HEPS0016*	REN 199	SK3124	RT-107A	ECG199	TM199	WEP536	121-972
	2SC536		GE-212	PTC121*	HEPS0016*	REN 199	SK3124	RT-107A	ECG199	TM199	WEP536	121-972
	2SC945		GE-212	PTC121*	HEPS0016*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	8C408		GE-212	PTC121*	HEPS0015*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
Q701	2SC536E	EA2740	GE-212	PTC121*	HEPS0016*	REN 199	SK3124	RT-107A	ECG199	TM199	WEP536	121-972
	2SC536		GE-212	PTC121*	HEPS0016*	REN 199	SK3124	RT-107A	ECG199	TM199	WEP536	121-972
	2SC945		GE-212	PTC121*	HEPS0016*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
Q801	2SC2000L	EA15X441	GE-211	PTC132*	HEPS0016*	REN 123A*	SK3444*	RT-308	ECG123A*	TM123A*	WEP710*	121-29000*
	2SC2000		GE-211	PTC132*	HEPS0016*	REN 123A*	SK3444*	RT-308	ECG123A*	TM123A*	WEP710*	121-29000*
	2SC930		GE-60*	PTC132*	HEPS0016*	REN 229	SK3018	RT-308	ECG229*	TM229/**	WEP956*	121-29021*
Q802	2SC2000L	EA15X441	GE-211	PTC132*	HEPS0016*	REN 123A*	SK3444*	RT-308	ECG123A*	TM123A*	WEP710*	121-29000*
	2SC2000		GE-211	PTC132*	HEPS0016*	REN 123*	SK3444*	RT-308	ECG123A*	TM123A*	WEP710*	121-29000*
	2SK196R		GE-FET-2*	PTC161*	HEPF0021	REN 132*	SK3448*	RT-175	ECG312*	TM312*	WEP920	121-756
	2SK19	RT8667	GE-FET-2*	PTC161*	HEPF0021	REN 132*	SK3448*	RT-175	ECG312*	TM312*	WEP920	121-756
	2SK49		GE-FET-2*	PTC161*	HEPF0021	REN 132*	SK3448*	RT-175	ECG312*	TM312*	WEP920	121-756
Q901	2SC1175E	RV1395	GE-210	PTC123*	HEPS0025*	REN 123A*	SK3444	RT-300	ECG123A*	TM123A*	WEP59*	121-29000A*
	2SC1175		GE-210	PTC123*	HEPS0025*	REN 123A*	SK3444	RT-300	ECG123A*	TM123A*	WEP59*	121-29000A*
	2SC1166		GE-81*	PTC143	HEPS0026*	REN 297	SK3122	RT-141	ECG297	TM297/**	WEP914	121-1007
Q902	2SC1957K	EA15X372	GE-270	PTC180	HEPS3044	REN 295	SK3197		ECG295	TM295	WEP913	121-880
	2SC1957		GE-270	PTC180	HEPS3044	REN 295	SK3197		ECG295	TM295	WEP913	121-880
	2SC2314		GE-270	PTC180	HEPS3044	REN 295	SK3197		ECG295	TM295	WEP913	121-880
Q903	2SC1909K	EA15X363	GE-215	PTC186		REN 235	SK3197	RT-146	ECG235	TM235	WEP785	121-29039
	2SC2078		GE-215	PTC186		REN 235	SK3197	RT-146	ECG235	TM235	WEP785	121-29039
	2SC2166		GE-215	PTC186		REN 235	SK3197	RT-146	ECG235	TM235	WEP785	121-29039
	2SC1909		GE-215	PTC186		REN 235	SK3197	RT-146	ECG235	TM235	WEP785	121-29039

* Lead configuration may vary from original.

** Also available as exact type replacement.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C108	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C308	4.7 25V	EA31X211	PC5-50	VTT4R7850	QV1-27	EV-1319
C501	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C502	.1 50V	EA31X241		TDC104M50EL	QDT1-2	SD50-R109
C504	33 16V	EA31X194	PC30-25	VTT33025	QV1-63	EV-1325
C508	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C603	100 10V	RS6480	PC100-10	VTT100E10	QV1-93	EV-1130
C604	220 10V	EA2777	PC250-10	VTT220F10	QV1-115	EV-1140
C702	.1 50V	EA31X241		TDC104M50EL	QDT1-2	SD50-R109
C709	3.3 10V	EA31X260		TDC335M15FL	QDT1-41	S015-3R39
C710	220 16V	EA5047	PC250-25	VTT220H16	QV1-117	EV-1240
C714	4.7 25V	EA31X211	PC5-50	VTT4R7850	QV1-27	EV-1319
C715	22 10V	EA31X225	PC25-25	VTT22B16	QV1-55	EV-1224
C720	47 16V	EA31X214	PC50-16	VTT47016	QV1-73	EV-1226
C721	220 16V	EA5047	PC250-25	VTT220H16	QV1-117	EV-1240
C726	33 16V	EA31X194	PC30-25	VTT33025	QV1-63	EV-1325
C727	1000 16V	EA31X200	PC1000-16	VTT1000L16	QV1-183	EV-1260
C809	470 10V		PC500-16	VTT470K16	QV1-149	EV-1150
C810	.1 50V	EA31X241		TDC104M50EL	QDT1-2	SD50-R109
C819	.47 35V	EA31X134		TDC474M50EL	QDT1-19	SD50-R479

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											
C101	27 N220 50V	EA18X181	UK25-103	DPMS6S39	*	HY-520	10TCR-Q27											
C102	.01 25V	EA18X215			MAG2511													
C103	.039 25V							M192P393R8										
C104	15 N220 50V								QFT2-159									
C105	.022 25V									1FT-S39								
C106	.022 25V										10TCR-Q15							
C107	.039 25V											QFT2-127						
C109	.039 25V												1FT-S22					
C110	2 50V													QFT2-159				
C111	.039 25V														1FT-S39			
C112	.039 25V															QFT2-159		
C113	.039 25V																1FT-S39	
C301	.039 25V																	QFT2-159
C302	.039 50V																	
C303	.039 50V		192P3939R8															
C304	.039 50V	192P3939R8																
				192P3939R8														
					192P3939R8													
						192P3939R8												
							192P3939R8											
								192P3939R8										
									192P3939R8									
										192P3939R8								
											192P3939R8							
												192P3939R8						
													192P3939R8					
														192P3939R8				
															192P3939R8			
			192P3939R8															
		192P3939R8																
				192P3939R8														
					192P3939R8													
						192P3939R8												
							192P3939R8											
								192P3939R8										
									192P3939R8									
										192P3939R8								
											192P3939R8							
												192P3939R8						
													192P3939R8					
														192P3939R8				
															192P3939R8			
			192P3939R8															
		192P3939R8																
				192P3939R8														
					192P3939R8													
						192P3939R8												
							192P3939R8											
								192P3939R8										
									192P3939R8									
										192P3939R8								
											192P3939R8							
												192P3939R8						
													192P3939R8					
														192P3939R8				
															192P3939R8			
			192P3939R8															
		192P3939R8																
				192P3939R8														
					192P3939R8													
						192P3939R8												
							192P3939R8											
								192P3939R8										
									192P3939R8									
										192P3939R8								
											192P3939R8							
												192P3939R8						
													192P3939R8					
														192P3939R8				
															192P3939R8			
			192P3939R8															
		192P3939R8																
				192P3939R8														
					192P3939R8													
						192P3939R8												
							192P3939R8											
								192P3939R8										
									192P3939R8									
										192P3939R8								
											192P3939R8							
												192P3939R8						
													192P3939R8					
														192P3939R8				
															192P3939R8			
			192P3939R8															
		192P3939R8																
				192P3939R8														
					192P3939R8													
						192P3939R8												
							192P3939R8											
								192P3939R8										
									192P3939R8									
										192P3939R8								
											192P3939R8							
												192P3939R8						
													192P3939R8					
														192P3939R8				
															192P3939R8			
			192P3939R8															
		192P3939R8																
				192P3939R8														
					192P3939R8													
						192P3939R8												
							192P3939R8											
								192P3939R8										
									192P3939R8									
										192P3939R8								
											192P3939R8							
												192P3939R8						
													192P3939R8					
														192P3939R8				
															192P3939R8			
			192P3939R8															
		192P3939R8																
				192P3939R8														
					192P3939R8													
						192P3939R8												
							192P3939R8											
								192P3939R8										
									192P3939R8									
										192P3939R8								
											192P3939R8							
												192P3939R8						
													192P3939R8					
														192P3939R8				
															192P3939R8			
			192P3939R8															
		192P3939R8																
				192P3939R8														
					192P3939R8													
						192P3939R8												
							192P3939R8											
								192P3939R8										
									192P3939R8									
										192P3939R8								
											192P3939R8							
												192P3939R8						
													192P3939R8					
														192P3939R8				
															192P3939R8			
			192P3939R8															
		192P3939R8																
				192P3939R8														
					192P3939R8													
						192P3939R8												
							192P3939R8											
								192P3939R8										
									192P3939R8									
										192P3939R8								
											192P3939R8							
												192P3939R8						
													192P3939R8					
														192P3939R8				
															192P3939R8			
			192P3939R8															
		192P3939R8																
				192P3939R8														
					192P3939R8													
						192P3939R8												
							192P3939R8											
								192P3939R8										
									192P3939R8									
										192P3939R8								
											192P3939R8							
												192P3939R8						
													192P3939R8					
														192P3939R8				
															192P3939R8			
			192P3939R8															
		192P3939R8																
				192P3939R8														
					192P3939R8													
						192P3939R8												
							192P3939R8											
								192P3939R8										
									192P3939R8									
										192P3939R8								
											192P3939R8							
												192P3939R8						
													192P3939R8					
														192P3939R8				
															192P3939R8			
			192P3939R8															
		192P3939R8																
				192P3939R8														
					192P3939R8													
						192P3939R8												
							192P3939R8											
								192P3939R8										
									192P3939R8									
										192P3939R8								
											192P3939R8							
												192P3939R8						
													192P3939R8					
														192P3939R8				
															192P3939R8			
			192P39															

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	
C305	.01 50V	EA18X295	UK25-223	WMF1S1	EWF1A110	QF1-91	1PB-S10	
C306	.039 25V			DPMS6S39	M192P3939R8	QFT2-159	1FT-S39	
C307	.039 50V				M192P3939R8		192P3939R8	
C309	.039 50V				M192P3939R8		192P3939R8	
C310	.01 50V			WMF1S1	EWF1A110	QF1-91	1PB-S10	
C311	.022 25V						HY-725	
C503	.022 50V				M192P2239R8		192P2239R8	
C505	.039 50V				M192P3939R8		192P3939R8	
C506	.022 50V		UK25-223				HY-725	
C507	5 50V			NP04P7	CN0547		10TCC-V47	
C509	.0047 25V		DTZ-4R7	WMF1D47	M192P4729R8	QFT2-63	1FT-D47	
C601	.039 25V			DPMS6S39	M192P3939R8	QFT2-159	1FT-S39	
C602	.039 25V			DPMS6S39	M192P3939R8	QFT2-159	1FT-S39	
C605	.022 25V		UK25-223				HY-725	
C606	.022 50V				M192P2239R8		192P2239R8	
C607	.039 25V			DPMS6S39	M192P3939R8	QFT2-159	1FT-S39	
C608	.0022 50V				M192P2239R8		192P2239R8	
C701	.022 50V				M192P2239R8		192P2239R8	
C703	.033 50V				M192P3339R8		192P3339R8	
C704	.0047 25V				M192P4729R8		192P4729R8	
C705	.022 50V				M192P2239R8		192P2239R8	
C706	.039 50V				M192P3939R8		192P3939R8	
C707	.022 50V				M192P2239R8		192P2239R8	
C708	.01 50V			WMF1S1	EWF1A110	QF1-91	1PB-S10	
C711	.022 50V				M192P2239R8		192P2239R8	
C712	.033 50V				M192P2739R8		192P2739R8	
C713	.0047 25V		DTZ-100	WMF1D47	M192P4729R8	QFT2-63	1FT-D47	
C716	100 50V			NP0100	CN0310		10TCC-T10	
C717	.068 50V		DTZ-120	WMF1S68	EWF1A168	QF1-195	1PB-S68	
C718	120 50V				CN0312		10TCC-T12	
C719	.068 50V		UK25-103	WMF1S68	EWF1A168	QF1-195	1PB-S68	
C722	.01 25V				MAG2511		HY-520	
C723	.0047 50V	DD-501		M192P4729R8		192P4729R8		
C724	500 50V			GP350		10TS-T50		
C725	.0047 25V			M192P4729R8		192P4729R8		
C728	.039 50V			M192P3939R8		192P3939R8		
C729	.039 25V			M192P3939R8		192P3939R8		
C730	.0022 50V			M192P2229R8		192P2229R8		
C731	.0022 50V			M192P2229R8		192P2229R8		
C732	.0022 50V			M192P2229R8		192P2229R8		
C733	500 50V	DD-501	GP500	GP350		10TS-T50		
C734	.0047 25V			M192P4729R8		192P4729R8		
C735	.0047 25V			M192P4729R8		192P4729R8		
C736	.0047 25V			M192P4729R8		192P4729R8		
C801	70 N220 5%	EA18X295	DD-391	GP390	GP339		10TS-T39	
C802	390 50V						HY-725	
C803	.022 25V		UK25-223	NP06P8	CN0568		10TCC-V68	
C804	7 50V			NP04P7	CN0547		10TCC-V47	
C805	5 50V		DTZ-6R8		CN0427		10TCC-Q27	
C806	27 50V				CN0422		10TCC-Q22	
C807	22 50V		DTZ-4R7	NP022	CN0427		10TCC-Q27	
	27 50V				M192P3939R8	QFT2-159	1FT-S39	
C808	.039 25V		DTZ-33	DPMS6S39	EWF1A168	QF1-195	1PB-S68	
C811	.068 50V			WMF1S68			10TCC-Q33	
C812	35 50V	EA18X214		NP033	CN0433	QFT2-159	1FT-S39	
C813	.039 25V			DPMS6S39	M192P3939R8		10TCR-Q20	
C814	20 N220 50V				*		10TCR-Q20	
C815	390 5% 50V						192P2229R8	
C816	20 N220 50V						10TCC-Q39	
C817	.0022 50V				M192P2229R8		192P3329R8	
C818	39 50V				CN0439		192P3329R8	
C820	.0033 50V	DTZ-47		M192P3329R8		10TCC-Q47		
C821	47 5%		NP047	CN0447		10TCC-Q27		
	27 50V			CN0427		HY-520		
C822	.01 25V	EA18X286	UK25-103	NP03P3	MAG2511		10TCC-V33	
C823	3 50V				CN0533		10TCC-T15	
C824	150 50V 5%		DTZ-3R3		CN0315		10TCC-Q18	
C825	18 50V			CN0418		HY-520		
C826	.01 25V		UK25-103		MAG2511		10TCC-Q39	
C827	39 50V			CN0439		HY-520		
C828	.01 25V		UK25-103		MAG2511		192P2229R8	
C829	.0022 50V			M192P2229R8				
C830	4 50V							
C831	5 50V		DTZ-4R7	NP04P7	CN0547		10TCC-V47	
C832	3 50V			NP03P3	CN0533		10TCC-V33	
C833	500 5% 50V	EA18X214	DD-501	GP500	GP350		10TS-T50	
C902	.01 50V			WMF1S1	EWF1A110	QF1-91	1PB-S10	
C903	.022 25V		UK25-223				HY-725	
C904	50 50V			NP050	CN0450		10TCC-Q50	
C905	.01 50V		DTZ-50	WMF1S1	EWF1A110	QF1-91	1PB-S10	
C906	.039 25V							
C907	220 5% 50V			DPMS6S39	M192P3939R8	QFT2-159	1FT-S39	
C908	27 50V				CN0427		10TCC-Q27	
C909	180 50V		DTZ-180	NP082			10TCC-T18	
C910	82 50V				CN0482		10TCC-Q82	
C912	.01 25V		UK25-103		MAG2511		HY-520	
C913	.022 25V					HY-725		
C914	.01 25V	EA18X214	UK25-103	DPMS6S39	MAG2511		HY-520	
C915	.039 25V				M192P3939R8	QFT2-159	1FT-S39	

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
C916	.039 25V	EA18X203	DTZ-220	DPMS6S39	M192P3939R8	QFT2-159	1FT-539
C917	220 5% 50V						10TCC-T22
C918	390 N220 5%		DTZ-270				10TCC-T27
C919	270 5% 50V						10TCR-T15
C920	150 N220 5%	EA18X217			*		HY-725
C921	.022 25V		UK25-223				HY-725
C922	.022 25V		UK25-223				10TS-T50
C923	500 5% 50V		DD-501	GP500	GP350	QFT2-63	1FT-D47
C924	.0047 25V	EA42X8(1) EA30X69		WMF1D47	M192P4729R8		10TS-T50
C925	500 5%		DD-501	GP500	GP350	QFT2-63	1FT-D47
C926	.0047 25V			WMF1D47	M192P4729R8		10TCC-T10
C927	100 5% 50V		DTZ-100	NP0100	CN0310		
CB801	.022						
CT801							

*Not normally in distributor's stock. Available thru distributor on order to manufacturer.
(1)Consists of eight .022mfd feed thrus.

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
VR1	RF AGC	5000	EA49X486			U260R502B
VR2	Volume/Switch	50K	EA49X484			
VR3	Squelch	20K	EA49X485			
VR4	Squelch Range	50K	EA49X391			U260R503B
VR5	AGC	50K	EA49X391			U260R503B
VR6	TX Meter	50K	EA49X391			U260R503B
VR7	RX Meter	5000	EA49X486			U260R502B
VR8	AMC	2000	EA49X471			U260R252B

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.
TH-501	5500 Cold NTC		EA12X25				

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
F901	TVI Trap (54MHz)	EA36X306			
L101	Rec RF (27MHz)	EA36X454			
L102	RF Amp (27MHz)	EA36X455			
L103	RF Amp (27MHz)	EA36X456			
L801	RF Choke	EA36X460			
L901	Xmt Amp (27MHz)	EA36X206			
L902	RF Choke	EA36X435			
L903	Final (27MHz)	EA36X457			
L904	RF Choke	EA36X436			
L905	Final Loading(27MHz)	EA36X458			
L906	Pi Filter (27MHz)	EA36X311			
L907	RF Choke	EA36X459			
T301	IF (10.695MHz)	EA61X258	6R76884BJ		
T302	IF (10.695MHz)	EA61X259	6R76984BD		
T303	IF (455kHz)	EA61X260	6R77084BG		
T304	IF (455kHz)	EA61X261	6R77184BC		
T801	OSC (10.240MHz)	EA36X461			
T802	VCO	EA36X462			
T803	VCO Mixer (16.270MHz)	EA36X463	8R83184BJ		
T804	VCO Mixer (27MHz)	EA36X464	9R92784EF		
T805	Harmonic Trap (27MHz)	EA36X465			
T806	Harmonic Trap (27MHz)	EA36X465			
T807	Harmonic Trap (27MHz)	EA36X466			

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~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T702	1.25A	.128	1.3mH	EA36X437 R810(1)			(1) Number on unit

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T701	25.92	8	EA64X41 4RB14(1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3" PM 8 Ohms	5-1711	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	2A Quick Acting	5-1725		AGC2	HDJ	312002	150145	FG2-2

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

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	5-1727	18-032	18-034	18-010	18-105	4	1	3	5	NC	1

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
D505	LED	EA16X209	XMT (2.06V @ 7.6mA)
D803	LED	EA16X306	Channel Readout (1.81V @ 5.6mA)
F301	Filter	EA36X444	10.695MHz
F302	Filter	EA36X371	455kHz
J1	Jack	EA41X125	PA
J2	Jack	EA41X125	Ext Spk
J3	Jack	EA41X196	Antenna
J4	Jack	EA41X124	Mic
J5	Jack	EA41X183	Power DC
M1	Meter	EA62X172	TX/RX
PL1	Lamp		Meter (11.74V @ 36.2mA)(Part of M1)
S2	Switch	EA31X198	CB/PA
S3	Switch	EA55X152	Channel Selector
X801	Crystal	EA75X6	10.240MHz
	Cord	5-1722	DC Power

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

ITEM	PART No.	ITEM	PART No.
Cabinet, Bottom	EA98X663	Knob, Control	EA43X813
Cabinet, Top	EA98X662	Panel, Front	EA98X660
Knob, Channel Selector	EA43X763		

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')

GENERAL ELECTRIC MODEL 3-5804B