



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 8092

MANUFACTURER'S SPECIFICATIONS

GENERAL

Number of Channels	40
Operating Voltage	13.8 VDC $\pm$ ground
Frequency Range	26.965 to 27.405 MHz
Microphone	Dynamic, with plug-in connector
Speaker	8 ohms, 3 watts
Antenna Impedance	50 ohms
Dimensions (W $\times$ H $\times$ L)	Approx. 200 $\times$ 60 $\times$ 280mm (8 $\times$ 2.4 $\times$ 10 in)
Weight	Approx. 3 kg (7 lbs.) with accessories

RECEIVER

Certification	Part 15, Sub-part C
Sensitivity (AM)	0.5 μ V for 10 dB $\frac{s+n}{n}$
(SSB)	0.25 μ V for 10 dB $\frac{s+n}{n}$
Adjacent Channel Rejection	55 dB minimum
Spurious Rejection (Major Image)	50 dB minimum
Squelch Sensitivity	1-1,000 μ V
Audio Output	3 W @10% distortion

TRANSMITTER

Compliance	FCC Data 8092 Part 95
Power Output	4 W (AM) 12 W PEP (SSB)
Spurious and Harmonic Emission	-60 dB minimum
Carrier Suppression (SSB)	-40 dB minimum
Unwanted Sideband Suppression (SSB)	-40 dB minimum
Modulation	85% minimum guaranteed Sine-wave (typically 95%)

Courtesy of the Manufacturer

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

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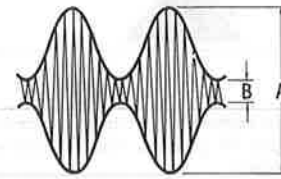
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ALIGNMENT INSTRUCTIONS

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:
L13	9091, 8728, 8728A
L10, L34	9304, 9300, 9302
C301, C302, C304, C306, VC401	8276, 5000
L1, L2, L18, L22 thru L28, L37	5009, 8728, 8728A
L3, L4, L6, L8, L19, L20, L21, L29, L31, L35	9440



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

FIGURE 1

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP3.	Ch. 19, AM	C302	Adjust for 5.120MHz.
Input of oscilloscope to TP10 (Q32 G1)	Ch. 19, AM Clarifier Detent	L35	Adjust for maximum. (260mV p-p typical).
Input of frequency counter to TP10 (Q32 G1)	Ch. 19, AM	L34	Adjust for 12.250MHz.
Input of DC meter to TP1.	Ch. 1, AM	L29	Adjust for 2 volts. Check for approx. 3.3 volts on Ch. 40.
Input of oscilloscope to TP7.	Ch. 19, AM	L31	Adjust for maximum. (100mV p-p typical)
Input of frequency counter to TP7.	Ch. 1, AM		Check for 37.660MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP2.	Ch. 1, AM		Check for .910MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP6.	Ch. 19, USB	C304	Adjust for 11.150MHz.
Input of oscilloscope to TP11 (L37 Secondary).	Ch. 19, USB or LSB	L37	Adjust for maximum. (3.6V p-p typical)
Input of frequency counter to TP11 (L37 Secondary).	Ch. 19, USB or LSB		Check for 455kHz.
Input of frequency counter to TP7.	Ch. 19, AM Clarifier Detent	R309	Adjust for 37.880MHz.
	Ch. 19, AM Clarifier Counterclockwise	R308	Adjust for 37.877MHz, while maintaining 37.880MHz with Clarifier at Detent.

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. Preset as indicated, unless otherwise noted:
Clarifier Detent, RF Gain Maximum, Squelch MINIMUM, ANL Off, NB Off

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP12. (Q22 Base) 455kHz, 1000Hz @ 30% modulation.	Ch. 19, AM	L28,L27, L26,L25, L24	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation	Ch. 19, AM	L18,L23, L22,L21, L20,L19	Adjust for maximum output. If necessary readjust L24 thru L28.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
Preset as indicated, unless otherwise noted:
Clarifier Detent, RF Gain Maximum, Squelch MINIMUM, ANL Off, NB Off

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation Output 1000uV	Ch. 19, AM Squelch Maximum	R303	SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation Output 100uV	Ch. 19, AM	R304	S METER Adjust for 9 on S 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, AM	L2,L3,L4, L6,L8,L10, L13	Adjust for maximum.
Input of RF wattmeter to antenna input.	Ch. 19, AM	L10,L13	Adjust for 4 watts maximum.
Input of RF Wattmeter to antenna input. No signal input.	Ch. 19, USB	R301,C301	Adjust for MINIMUM RF.
Input of RF wattmeter to antenna input. Inject a 1000Hz 5mV signal at Mic input.	Ch. 19, USB	L25,L26, L1	Adjust for maximum.
Input of RF wattmeter to antenna input. Inject a 1000Hz 20mV signal at Mic input.	Ch. 19, USB	C306	Adjust for 12 watts maximum.

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 20mV signal at Mic input.	Ch. 19, AM	R307	AMC Adjust for 100% modulation maximum. (See Figure 1.)
Input of RF wattmeter to antenna input.	Ch. 19, AM	R306	RFO METER Adjust so RFO meter agrees with RF wattmeter.
Connect a 150-ohm, 5 watt non-inductive resistor to antenna input.	Ch. 19, AM	R302	AWI Adjust so TX/AWI indicator flashes.

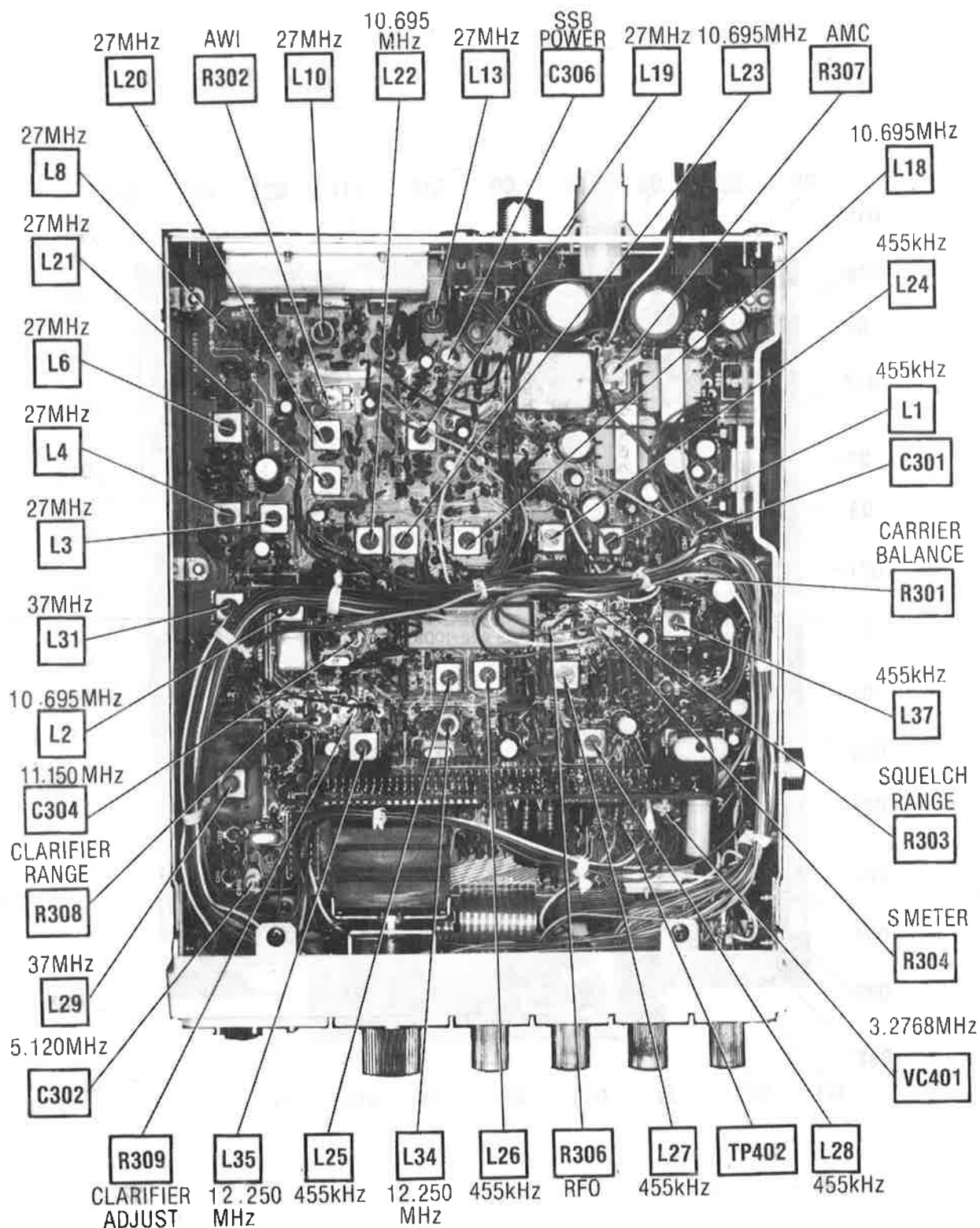
CLOCK ADJUSTMENTS

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP402.		VC401	Adjust for 3.2768MHz.

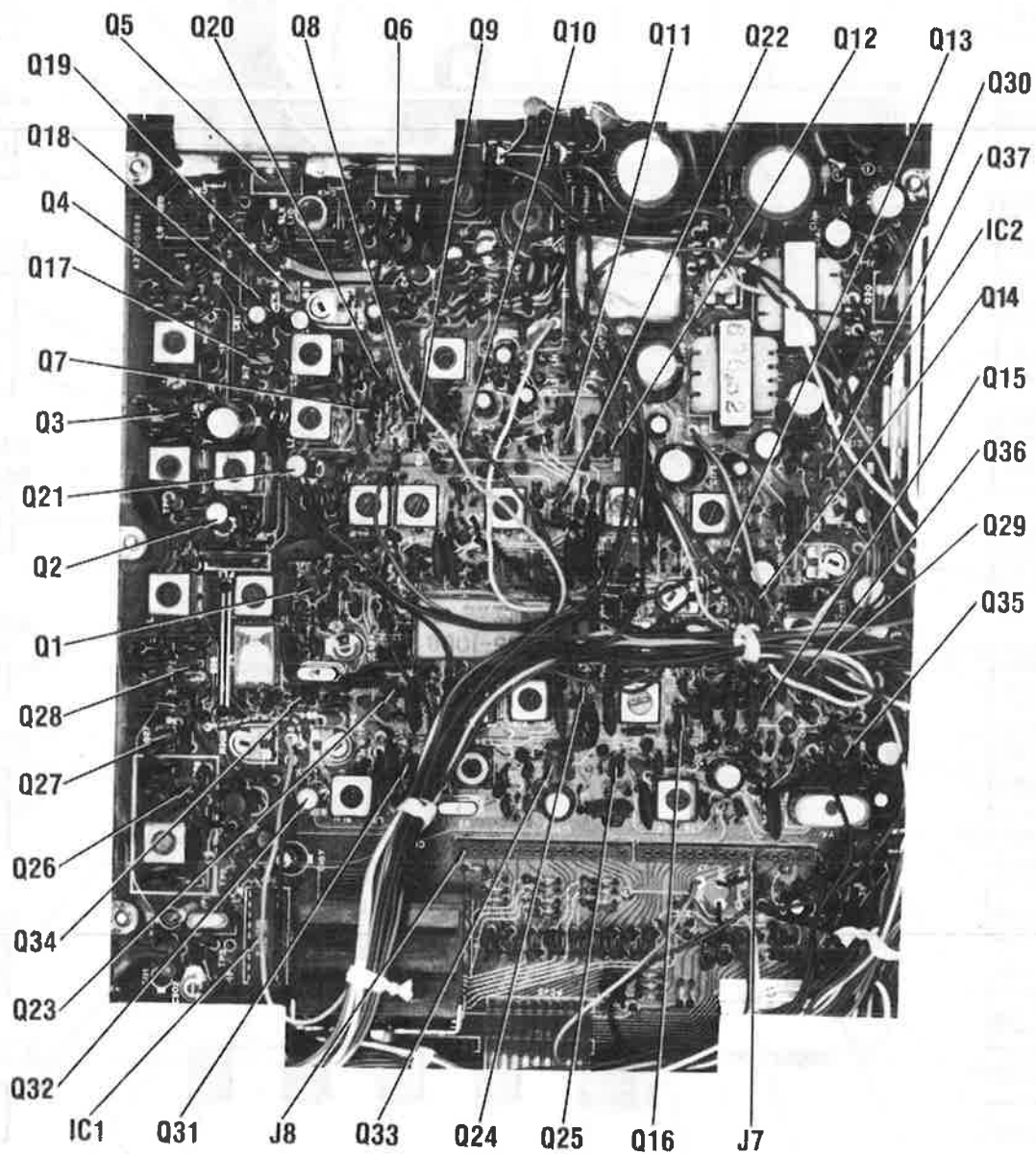
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TRUTH CHART

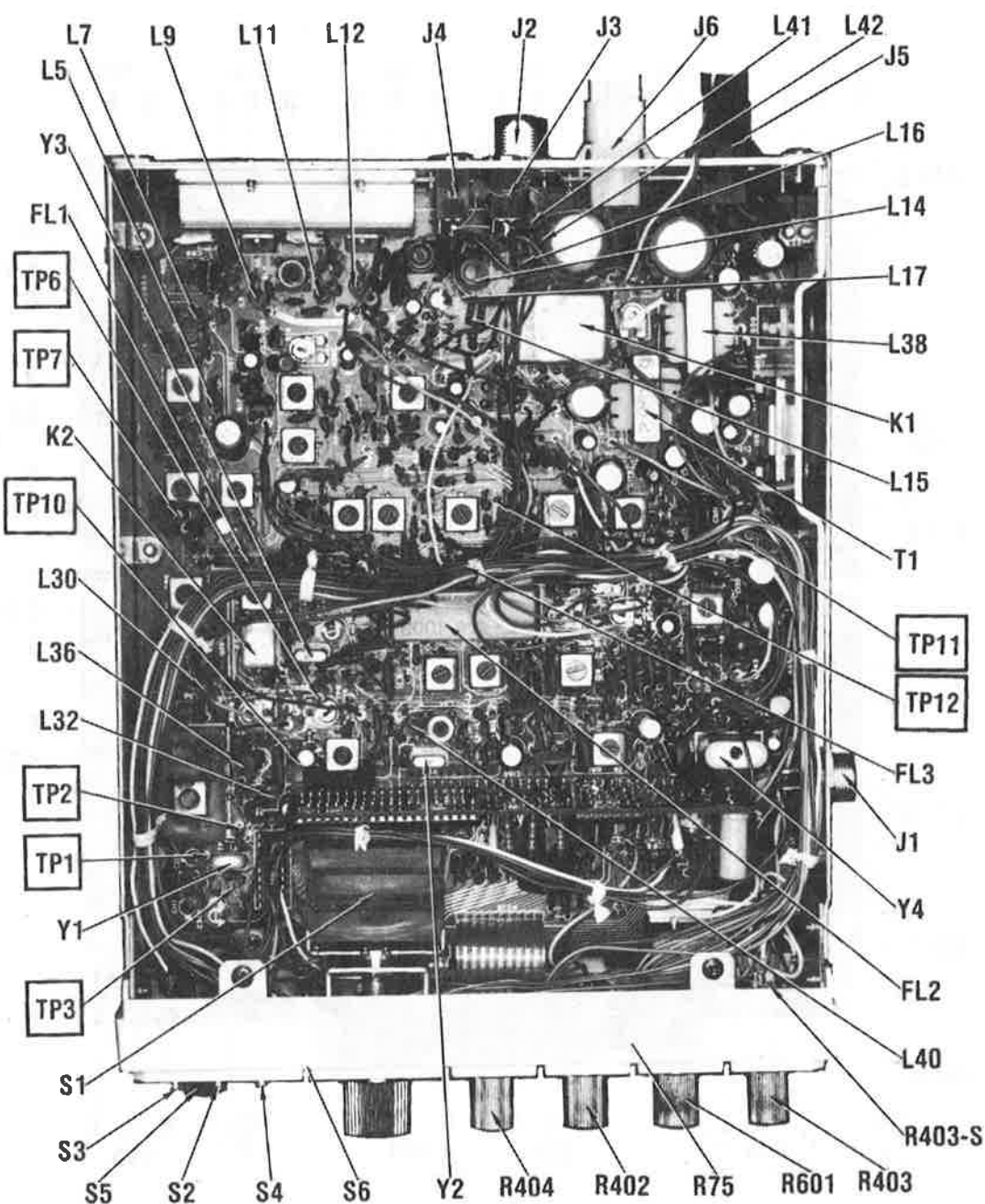
C H A N N E L	1 = 5.81 Volts 0 = 0 Volts								AM(REC & XMT) USB(REC & XMT) LSB(REC & XMT) SYNTHESIZER OUTPUT IN MHz AT TP7	AM USB LSB DIVIDER INPUT IN MHz AT TP2	
	IC1 PROGRAM DIVIDER										
	PINS										
	10	11	12	13	14	15	16	17			
1	0	1	0	1	1	0	1	1	37.660	.910	
2	0	1	0	1	1	1	0	0	37.670	.920	
3	0	1	0	1	1	1	0	1	37.680	.930	
4	0	1	0	1	1	1	1	1	37.700	.950	
5	0	1	1	0	0	0	0	0	37.710	.960	
6	0	1	1	0	0	0	0	1	37.720	.970	
7	0	1	1	0	0	0	1	0	37.730	.980	
8	0	1	1	0	0	1	0	0	37.750	1.000	
9	0	1	1	0	0	1	0	1	37.760	1.010	
10	0	1	1	0	0	1	1	0	37.770	1.020	
11	0	1	1	0	0	1	1	1	37.780	1.030	
12	0	1	1	0	1	0	0	1	37.800	1.050	
13	0	1	1	0	1	0	1	0	37.810	1.060	
14	0	1	1	0	1	0	1	1	37.820	1.070	
15	0	1	1	0	1	1	0	0	37.830	1.080	
16	0	1	1	0	1	1	1	0	37.850	1.100	
17	0	1	1	0	1	1	1	1	37.860	1.110	
18	0	1	1	1	0	0	0	0	37.870	1.120	
19	0	1	1	1	0	0	0	1	37.880	1.130	
20	0	1	1	1	0	0	1	1	37.900	1.150	
21	0	1	1	1	0	1	0	0	37.910	1.160	
22	0	1	1	1	0	1	0	1	37.920	1.170	
23	0	1	1	1	1	0	0	0	37.950	1.200	
24	0	1	1	1	0	1	1	0	37.930	1.180	
25	0	1	1	1	0	1	1	1	37.940	1.190	
26	0	1	1	1	1	0	0	1	37.960	1.210	
27	0	1	1	1	1	0	1	0	37.970	1.220	
28	0	1	1	1	1	0	1	1	37.980	1.230	
29	0	1	1	1	1	1	0	0	37.990	1.240	
30	0	1	1	1	1	1	0	1	38.000	1.250	
31	0	1	1	1	1	1	1	0	38.010	1.260	
32	0	1	1	1	1	1	1	1	38.020	1.270	
33	1	0	0	0	0	0	0	0	38.030	1.280	
34	1	0	0	0	0	0	0	1	38.040	1.290	
35	1	0	0	0	0	0	1	0	38.050	1.300	
36	1	0	0	0	0	0	1	1	38.060	1.310	
37	1	0	0	0	0	1	0	0	38.070	1.320	
38	1	0	0	0	0	1	0	1	38.080	1.330	
39	1	0	0	0	0	1	1	0	38.090	1.340	
40	1	0	0	0	0	1	1	1	38.100	1.350	



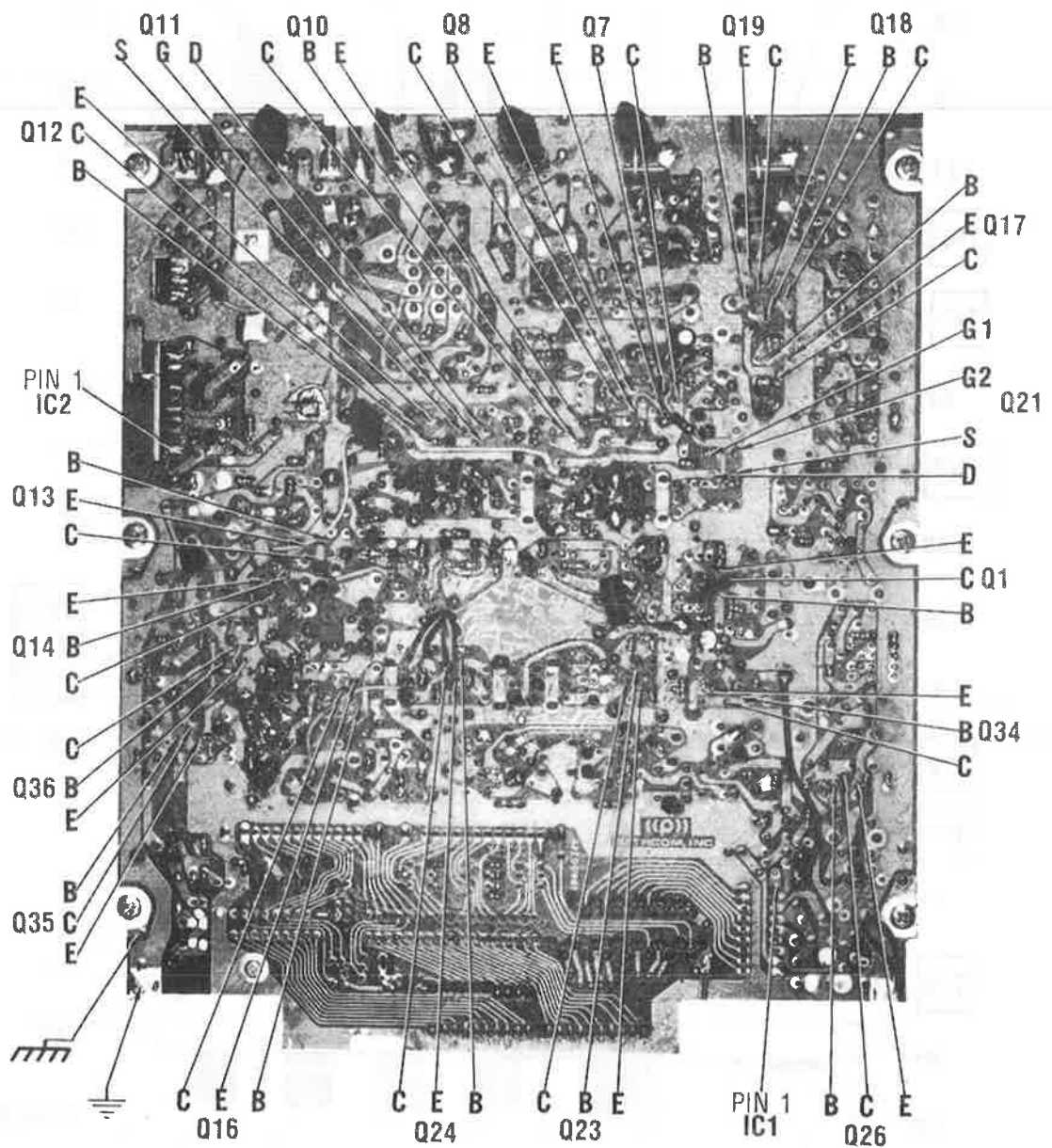
CHASSIS - BOTTOM



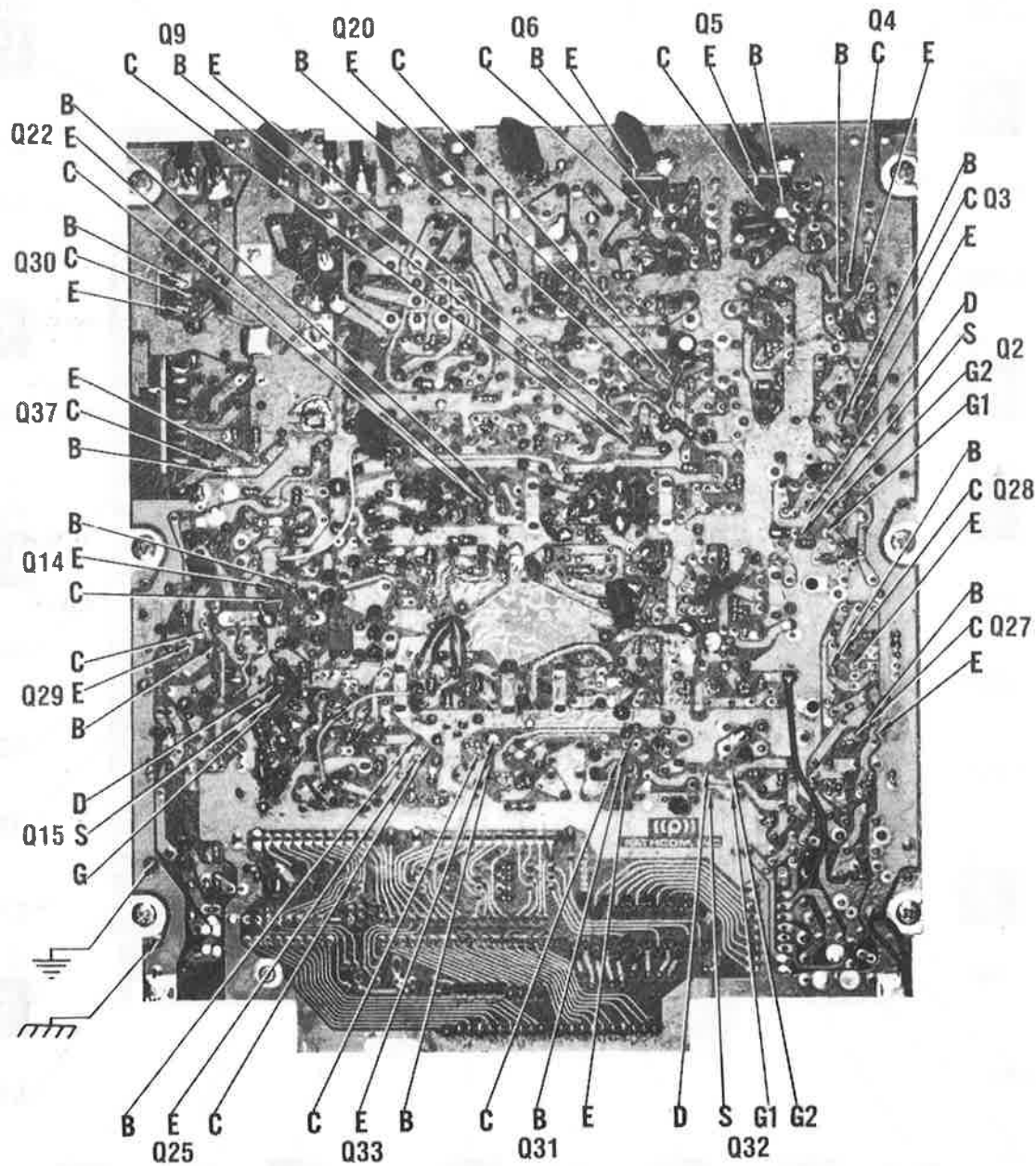
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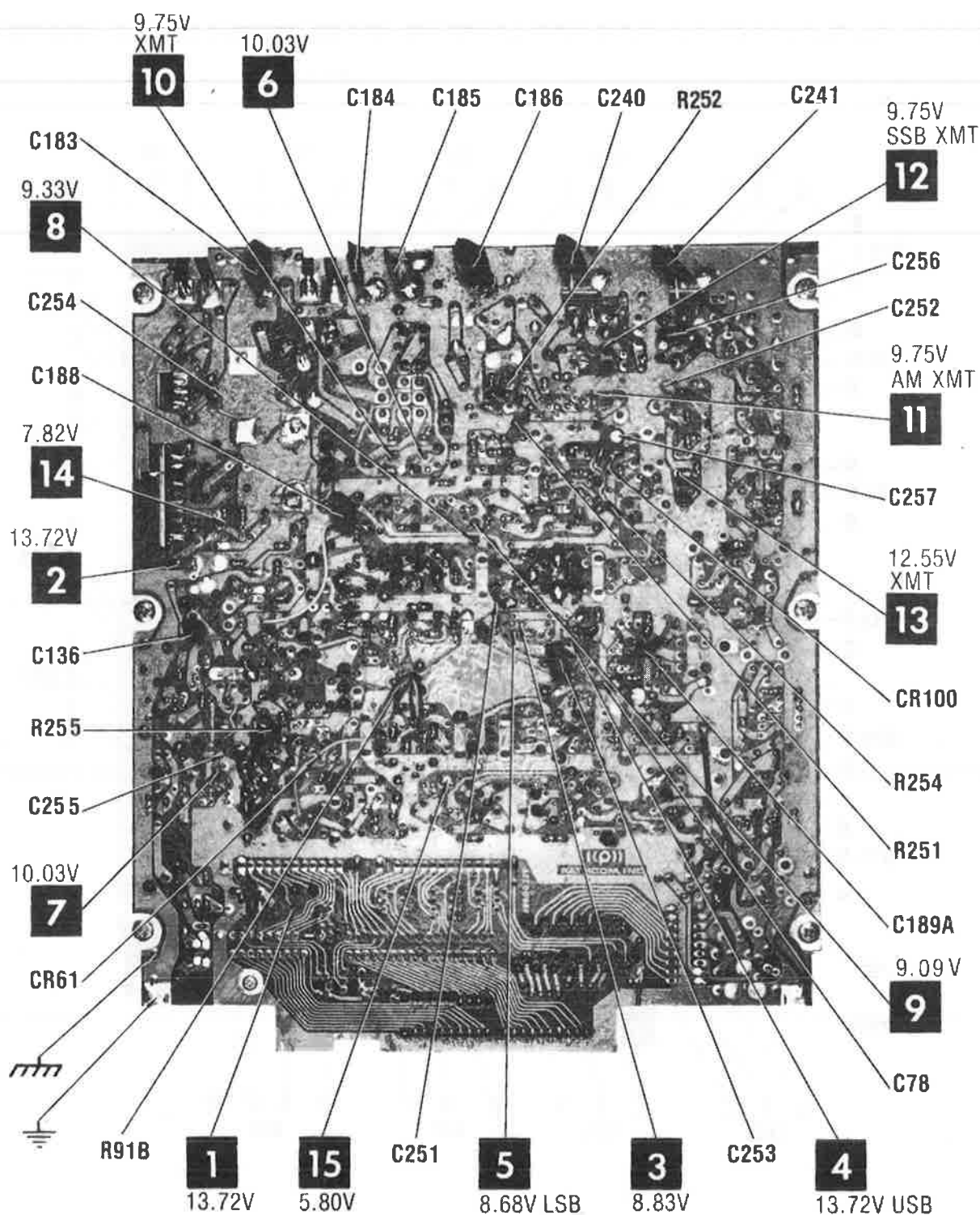
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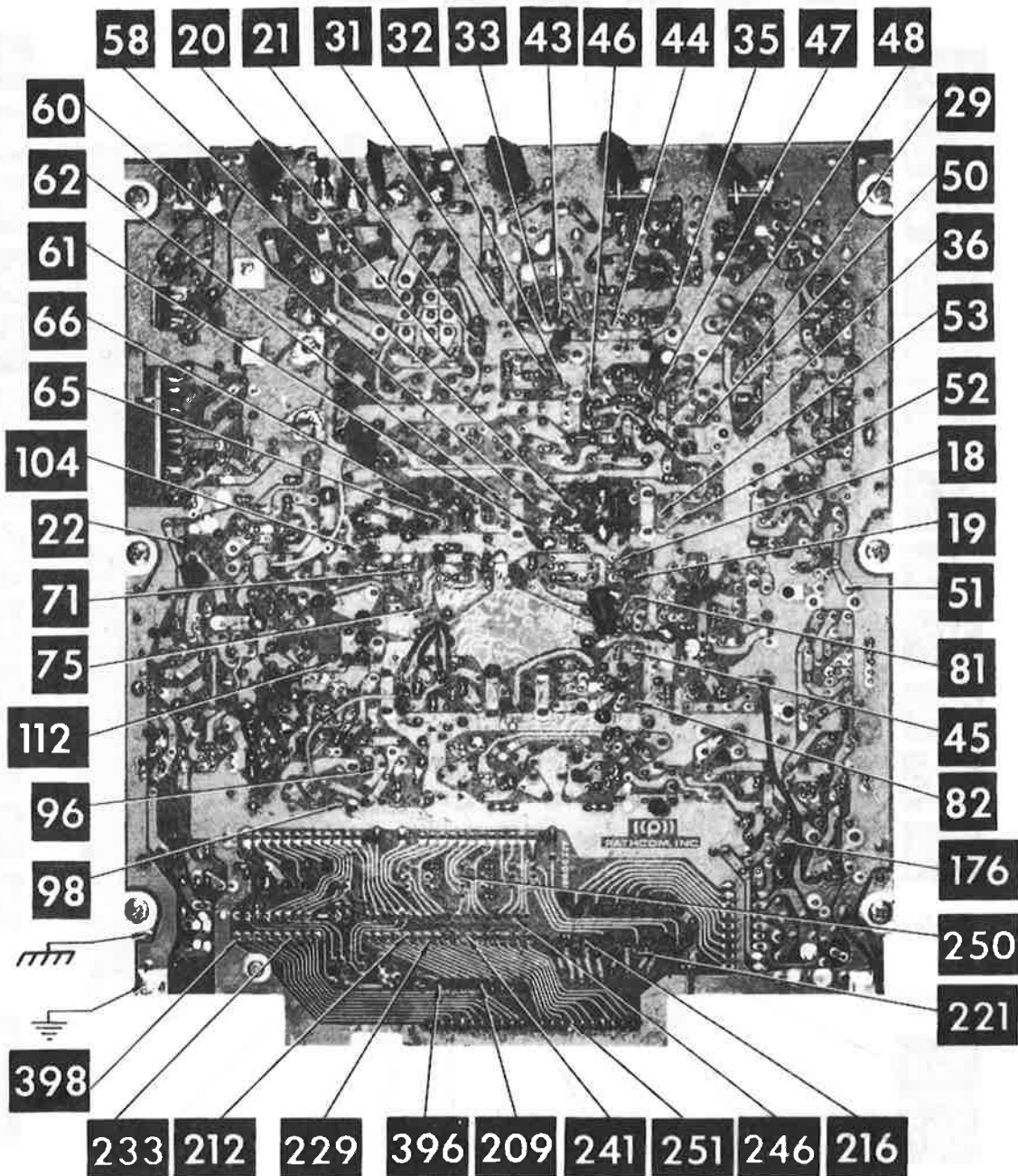
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MAIN BOARD

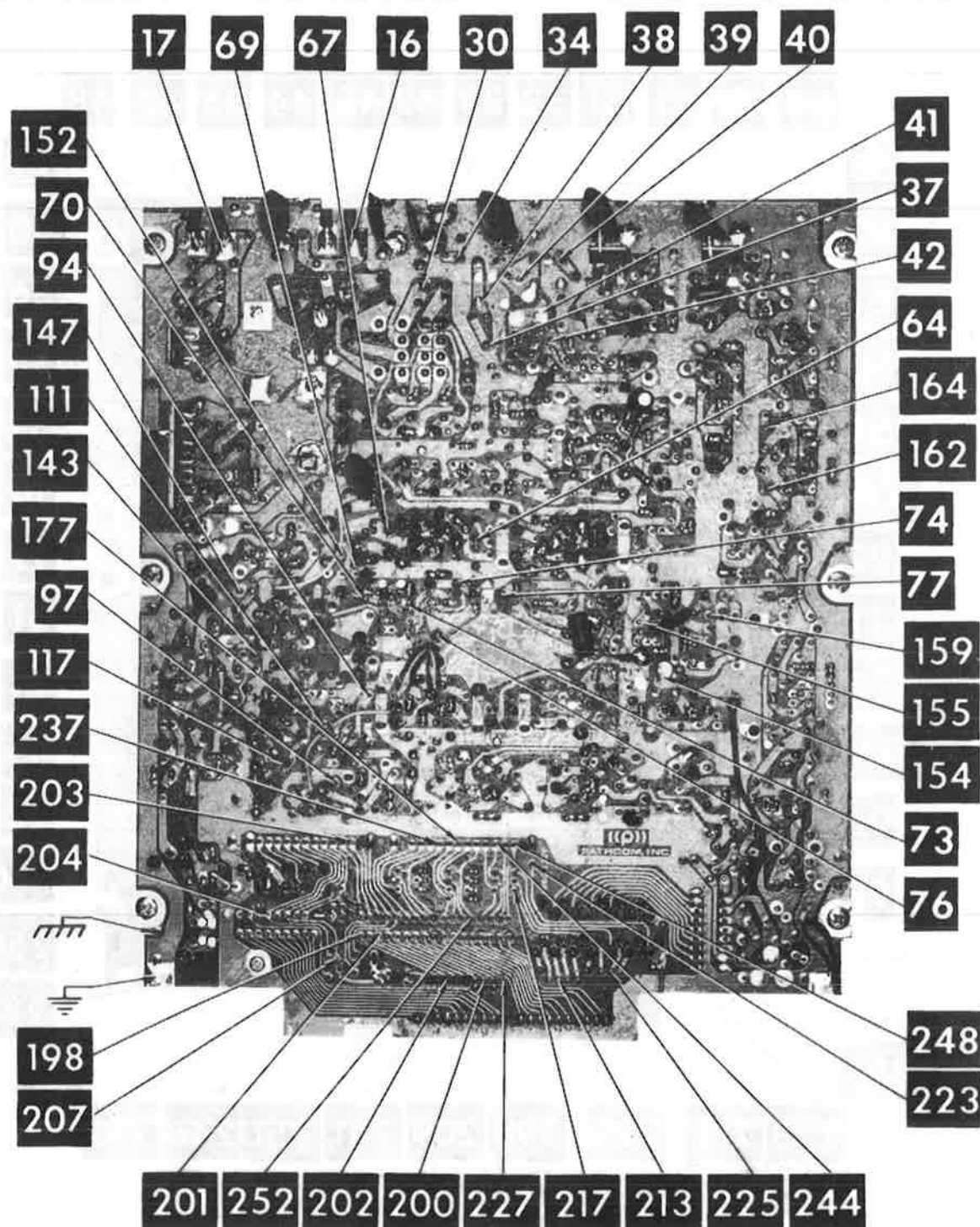


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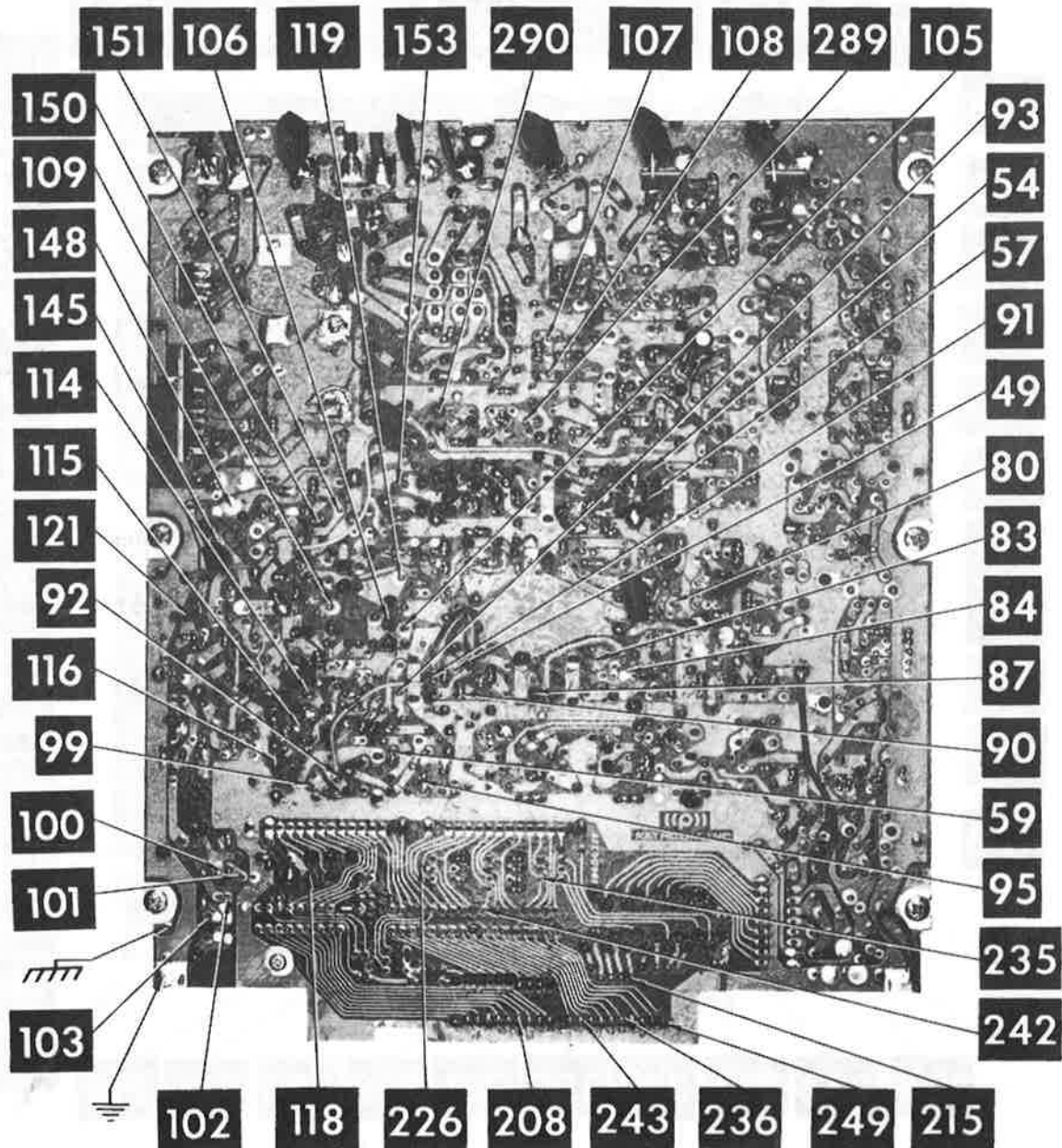


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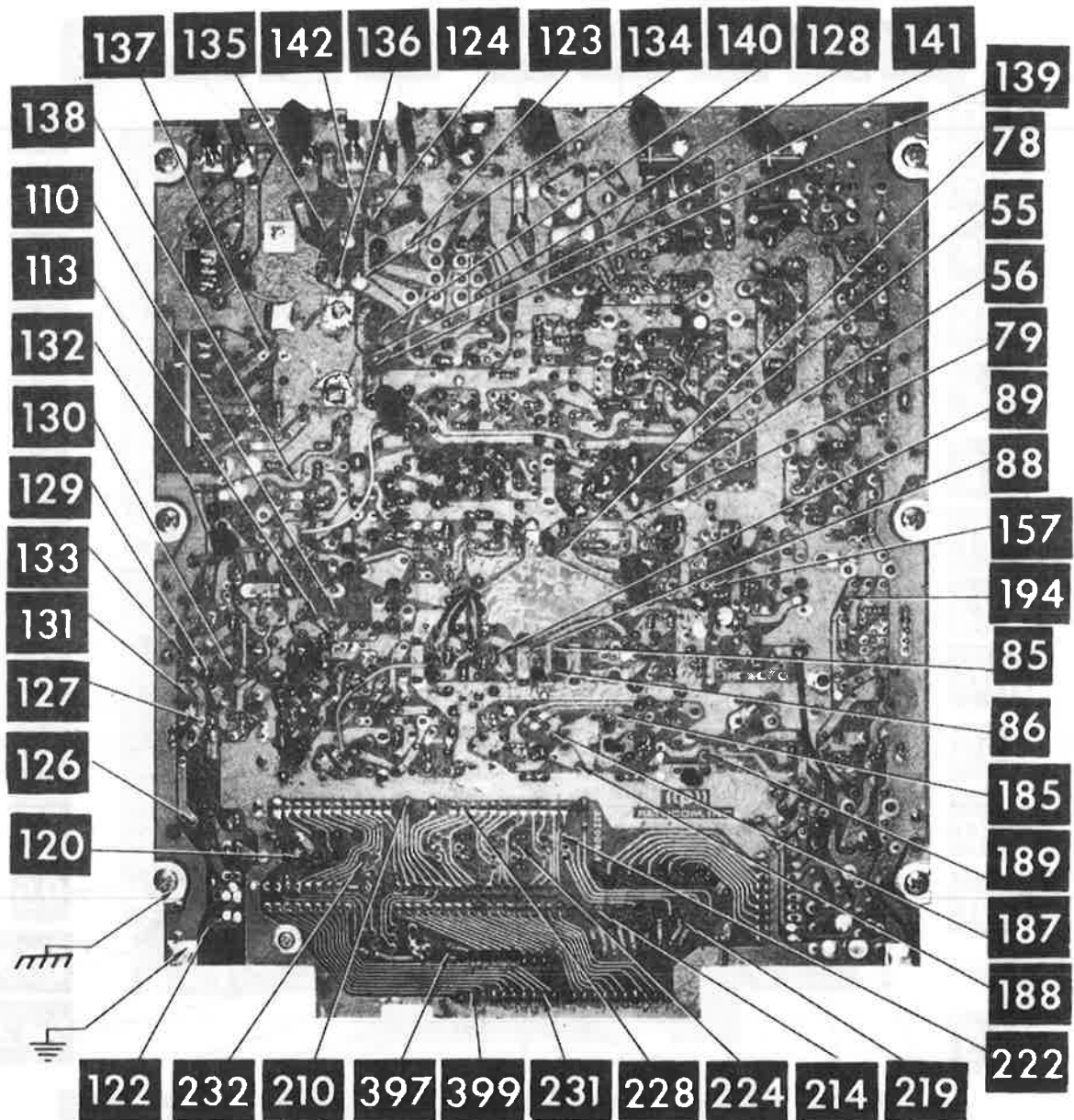


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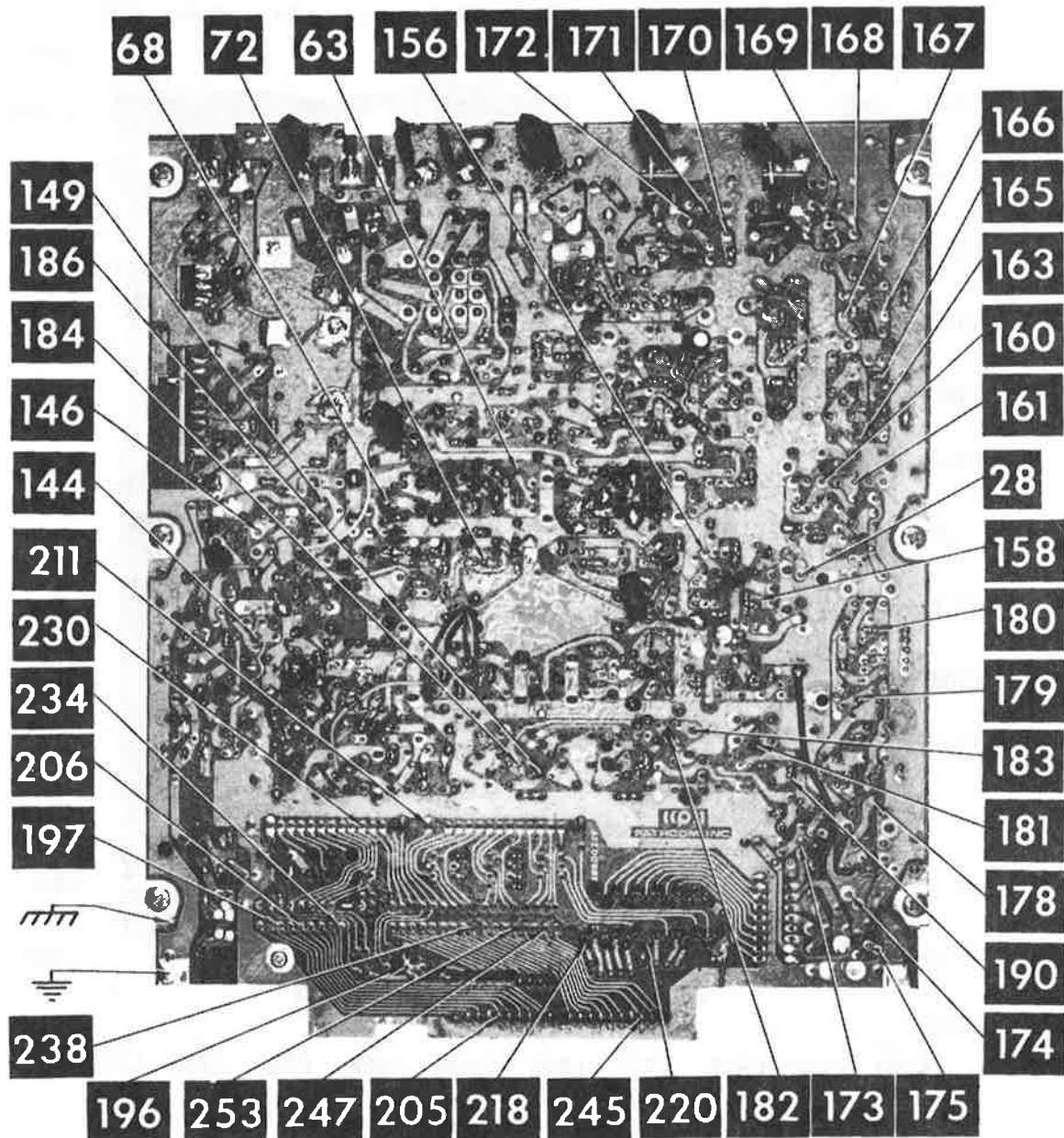


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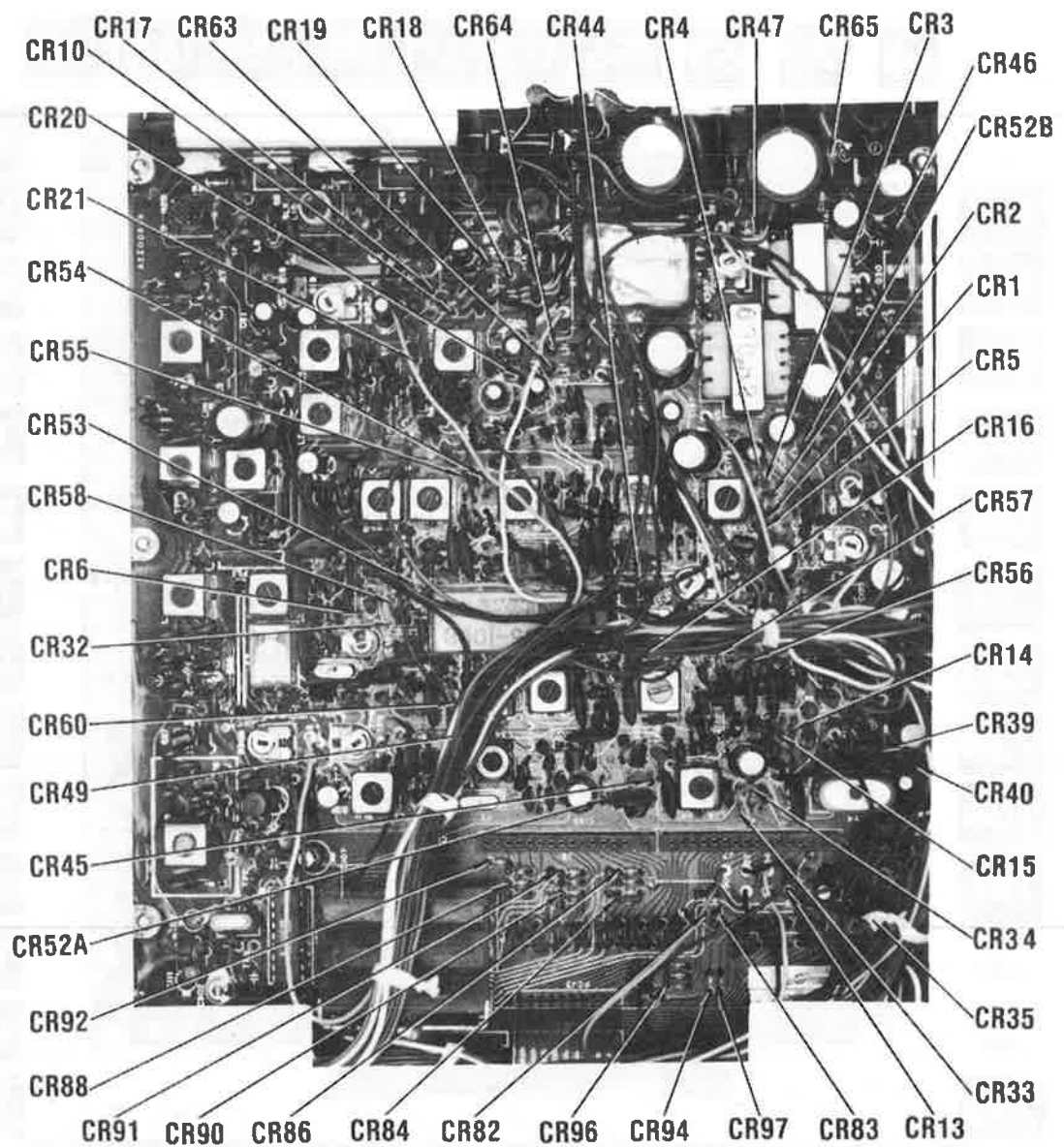


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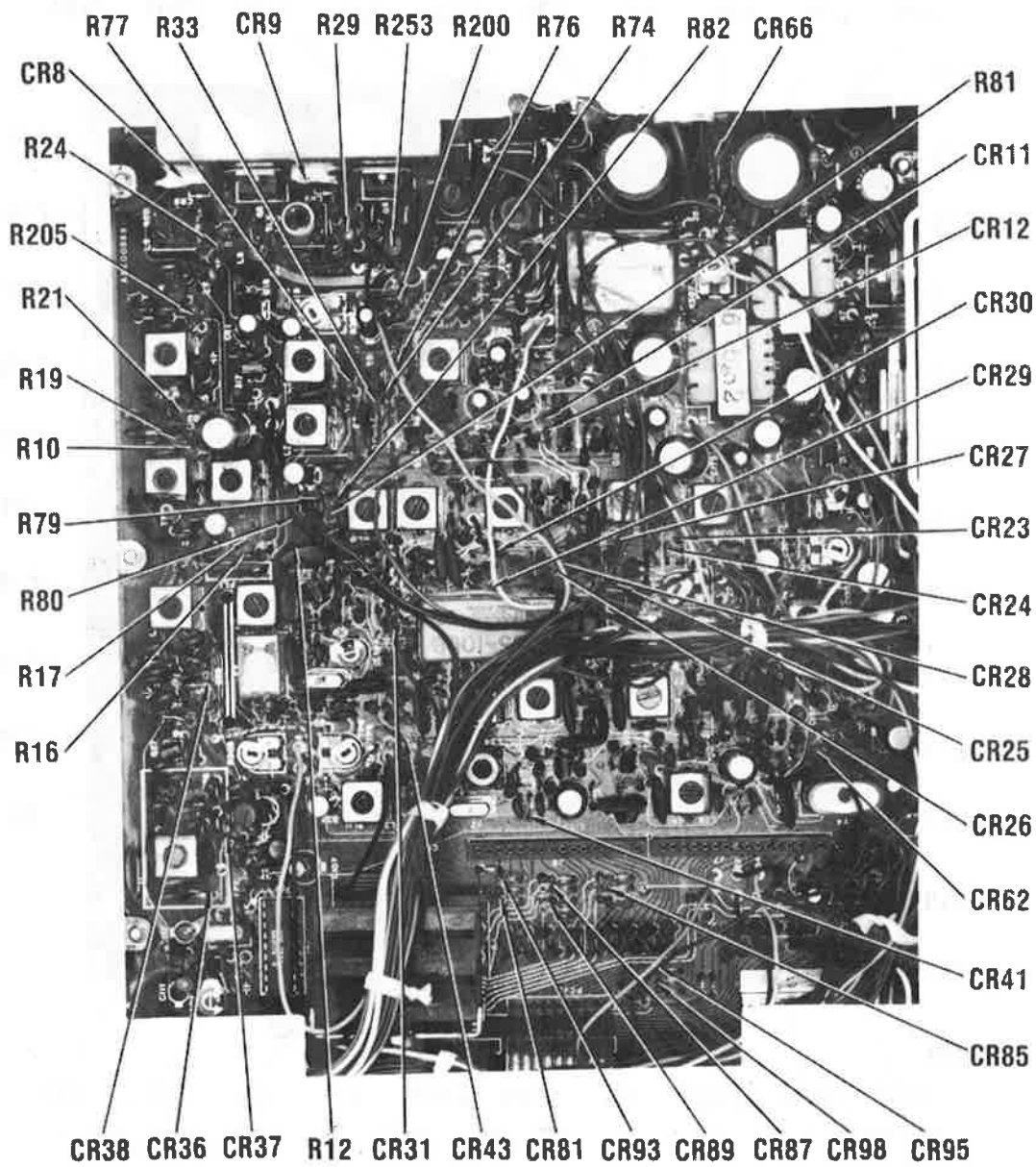


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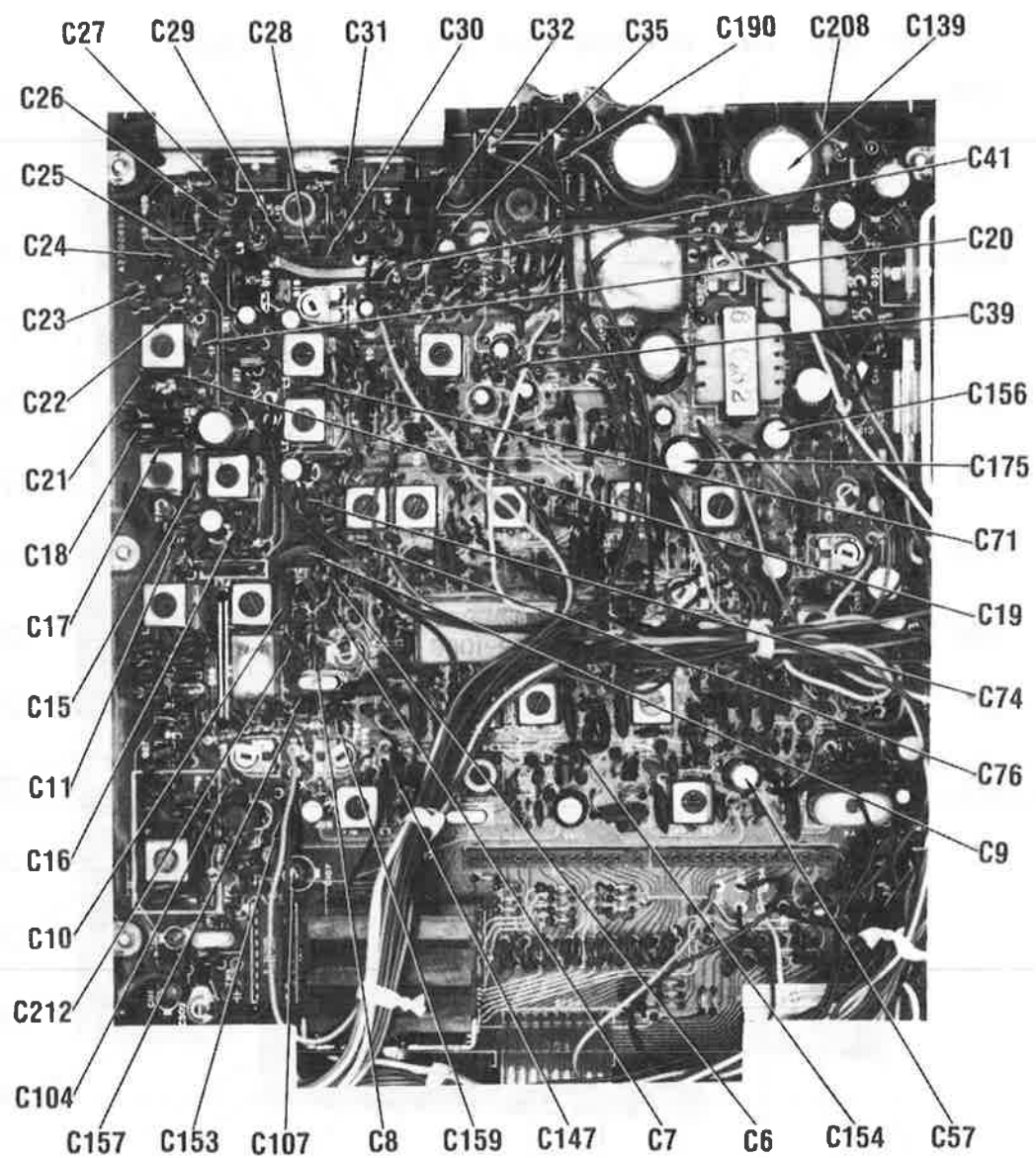
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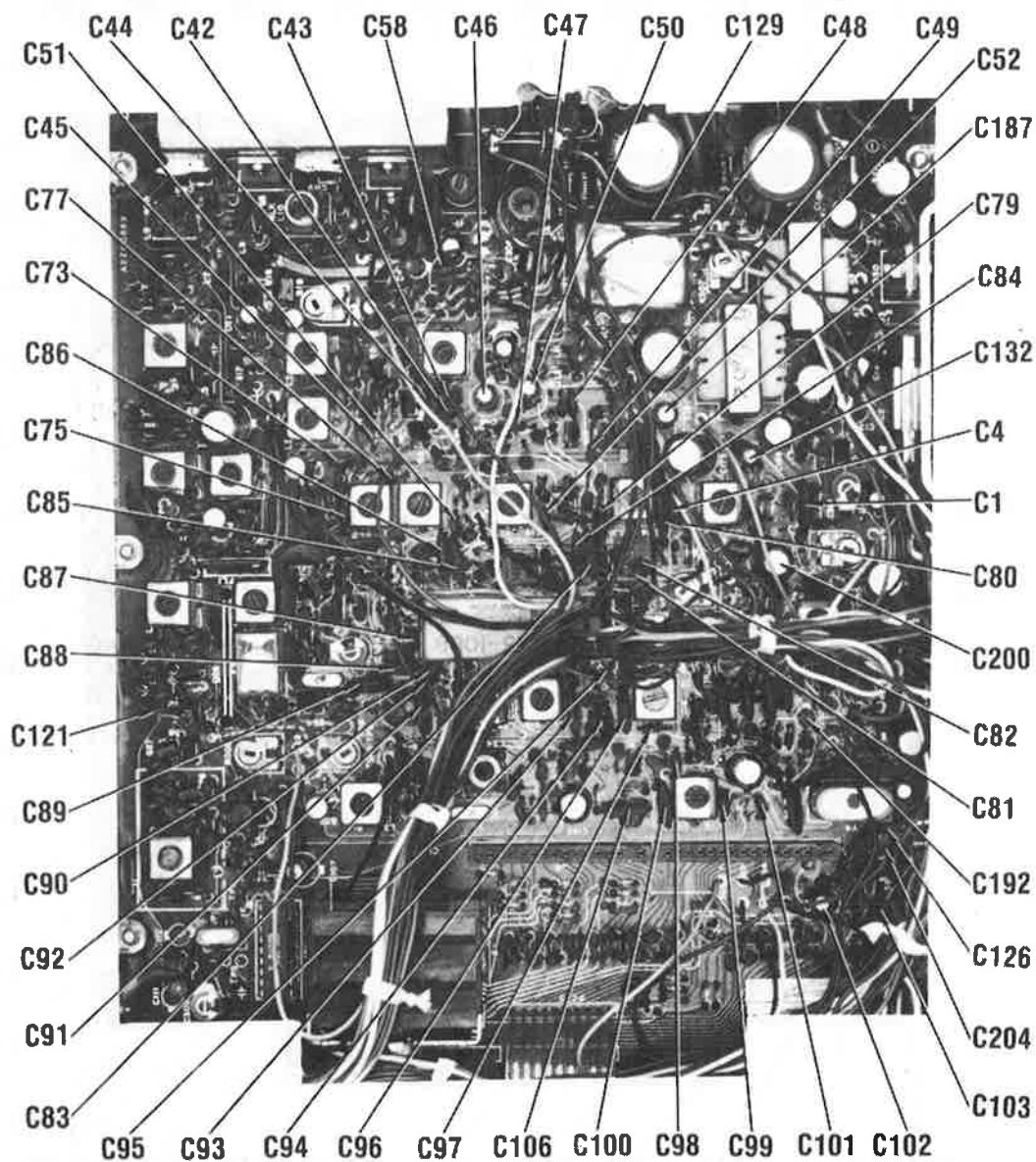
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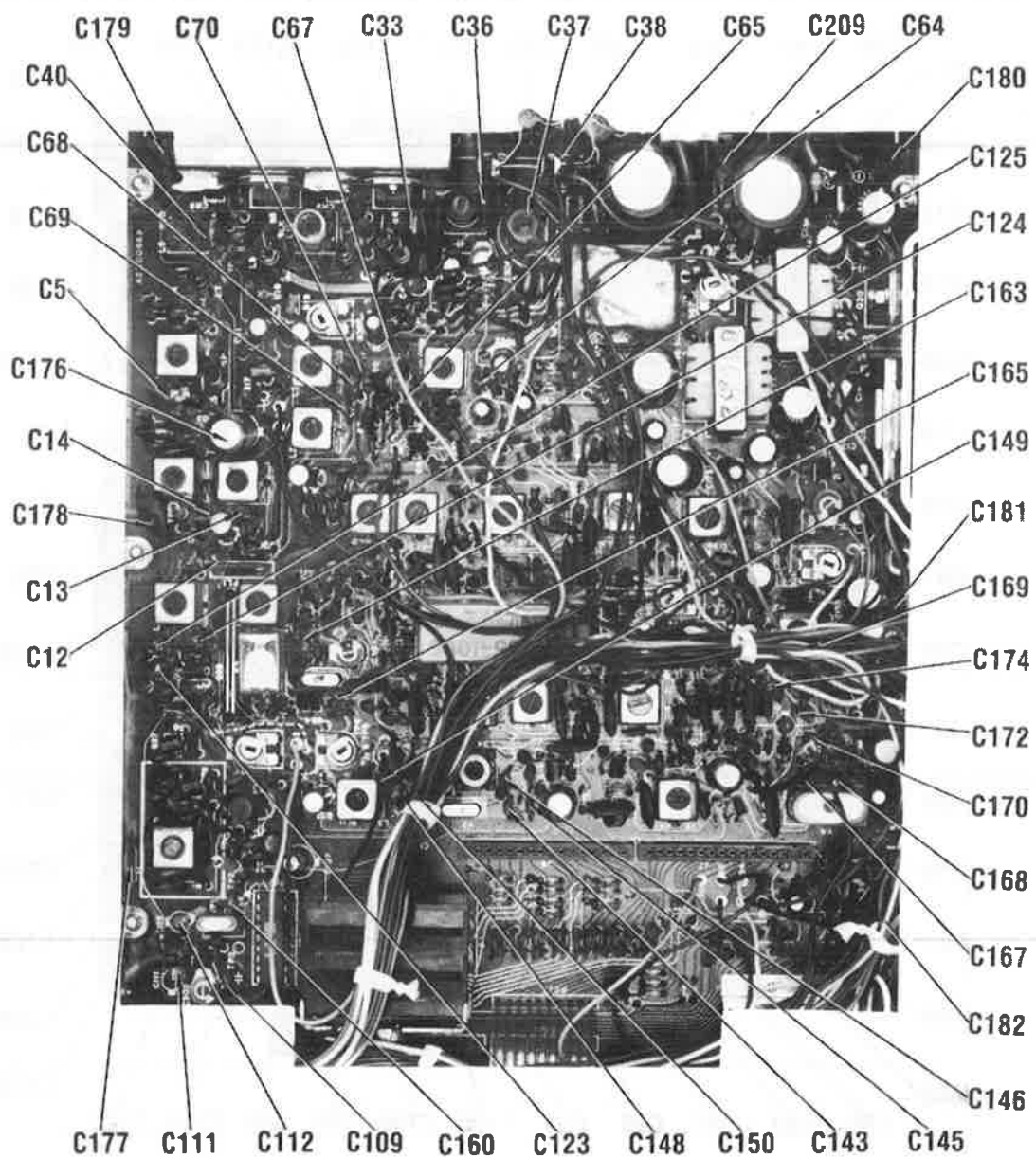
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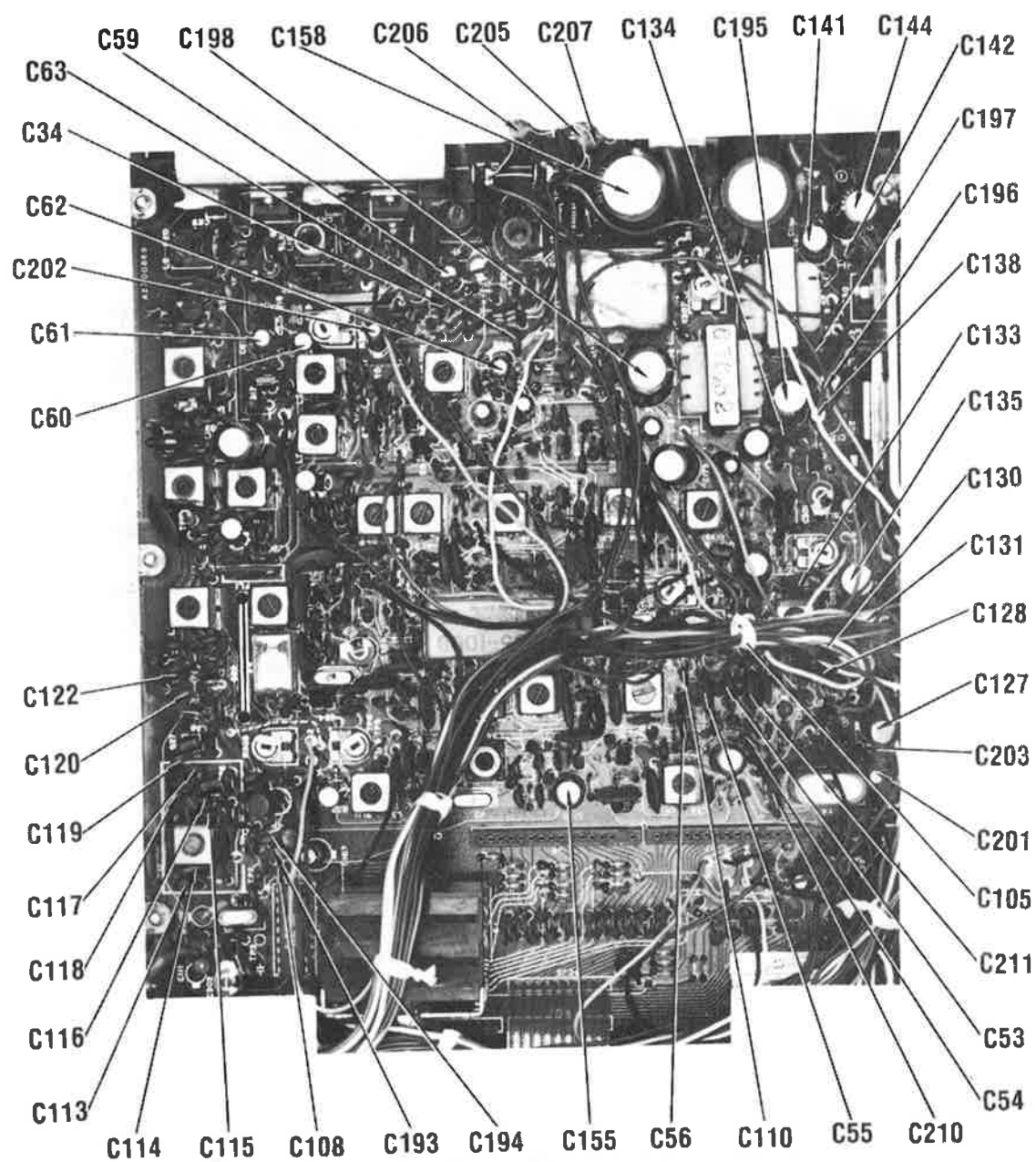
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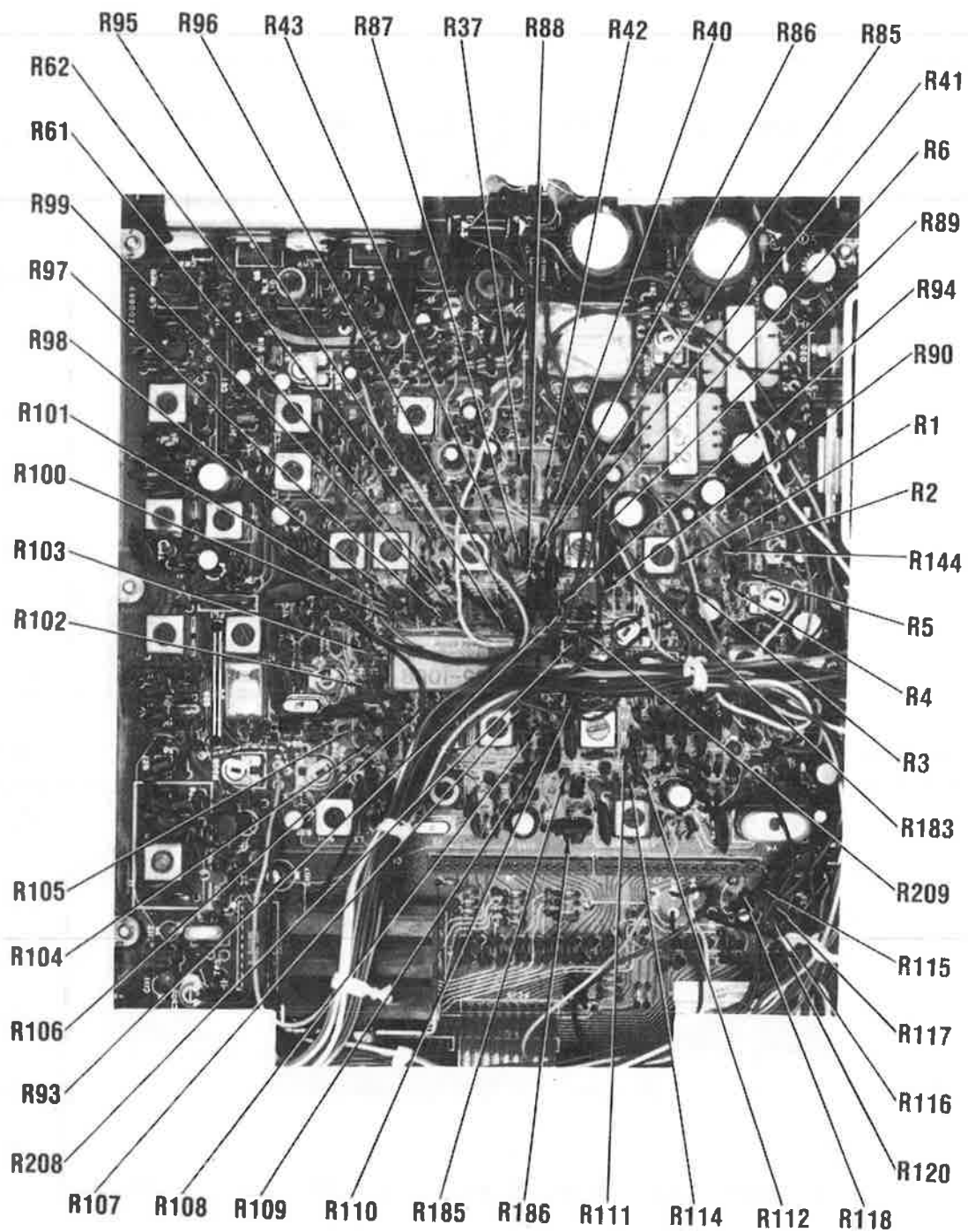
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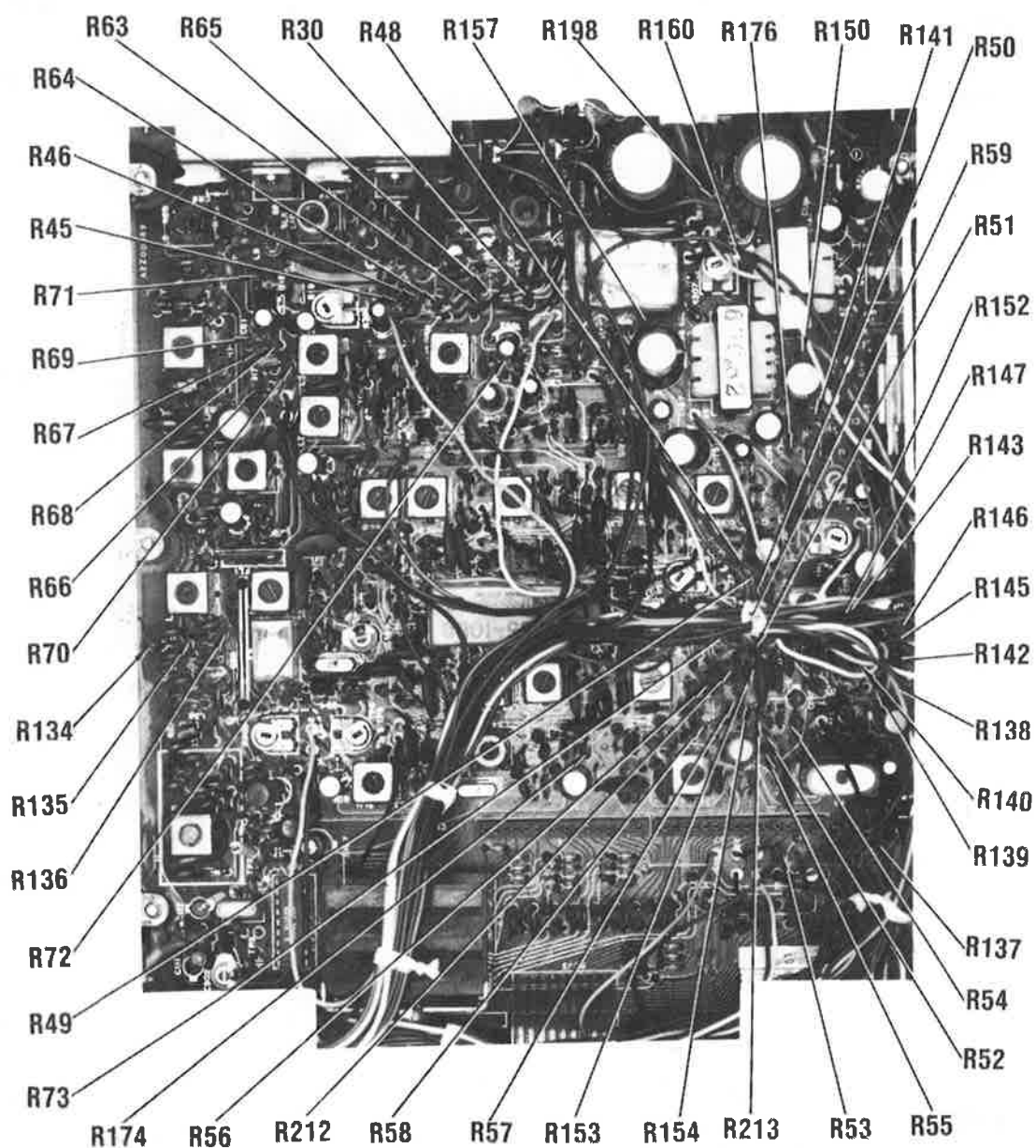
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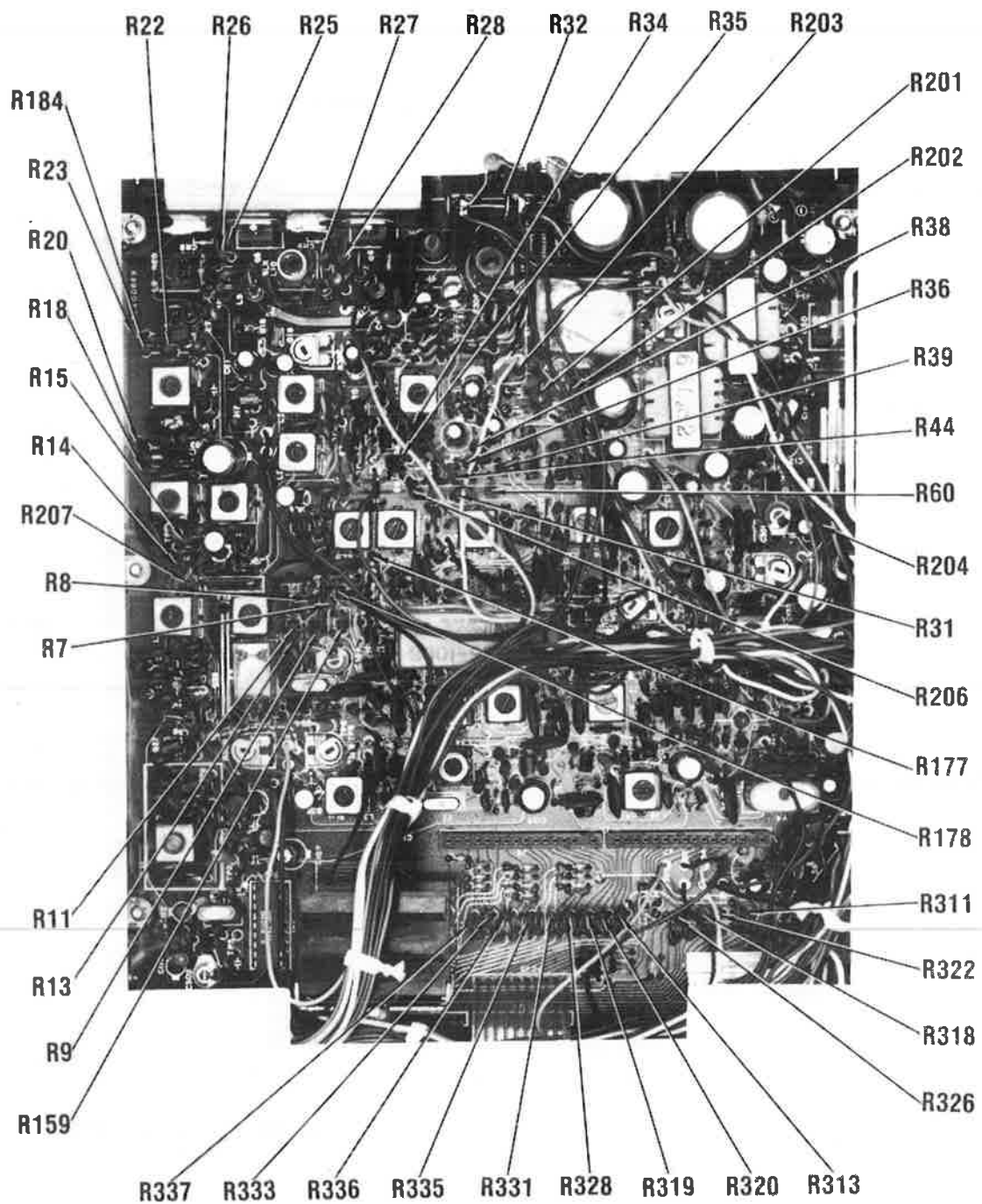
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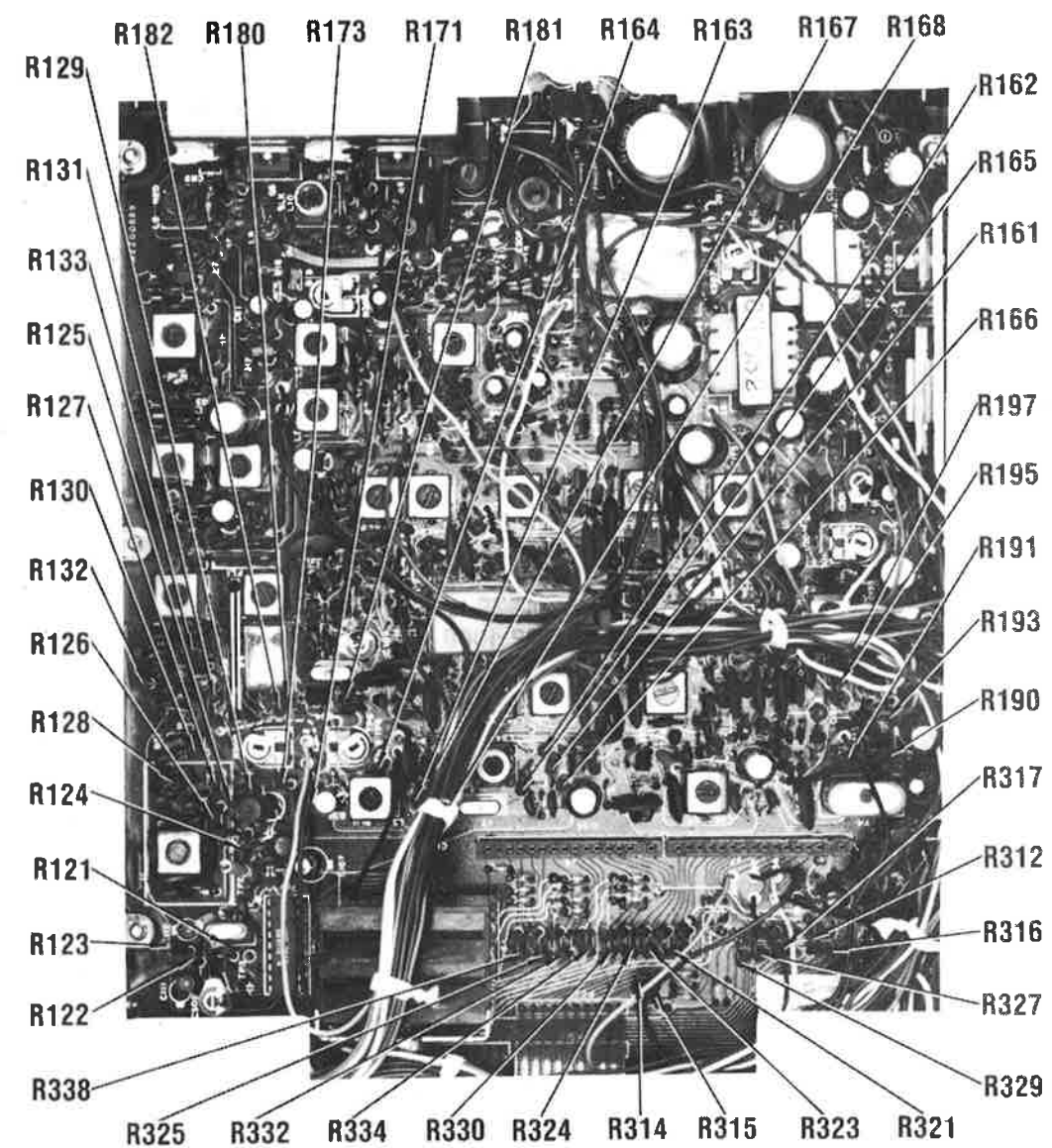
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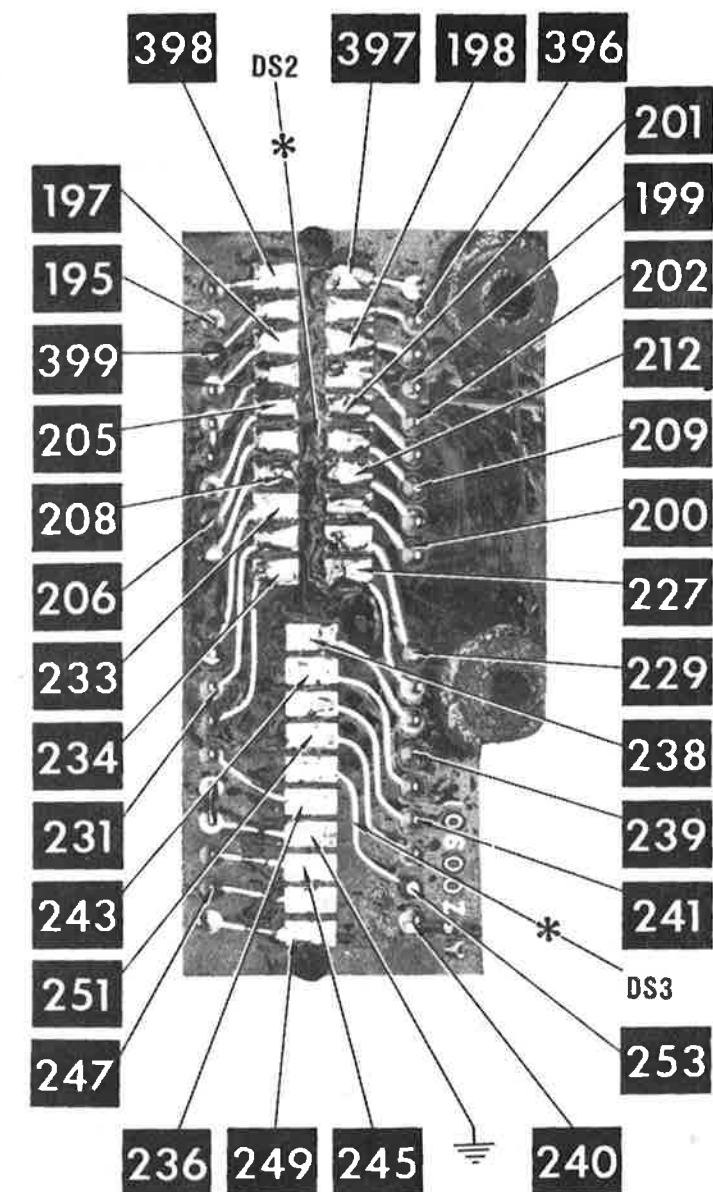
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MAIN BOARD



MAIN BOARD

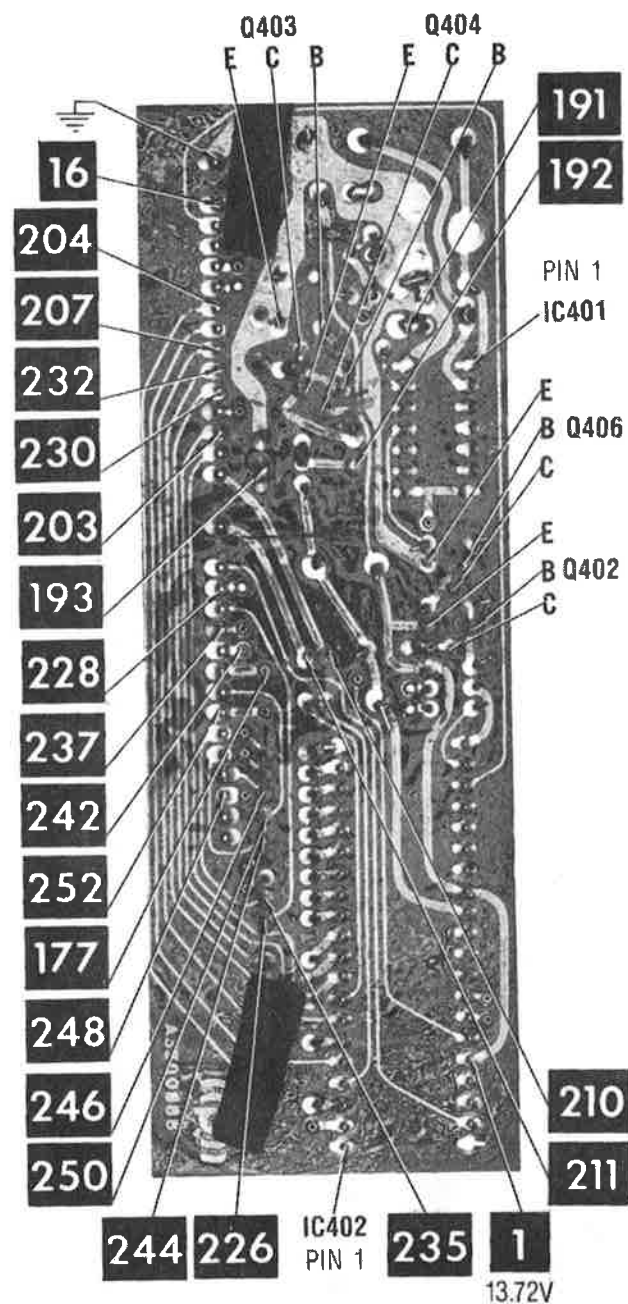


* Component on front of board

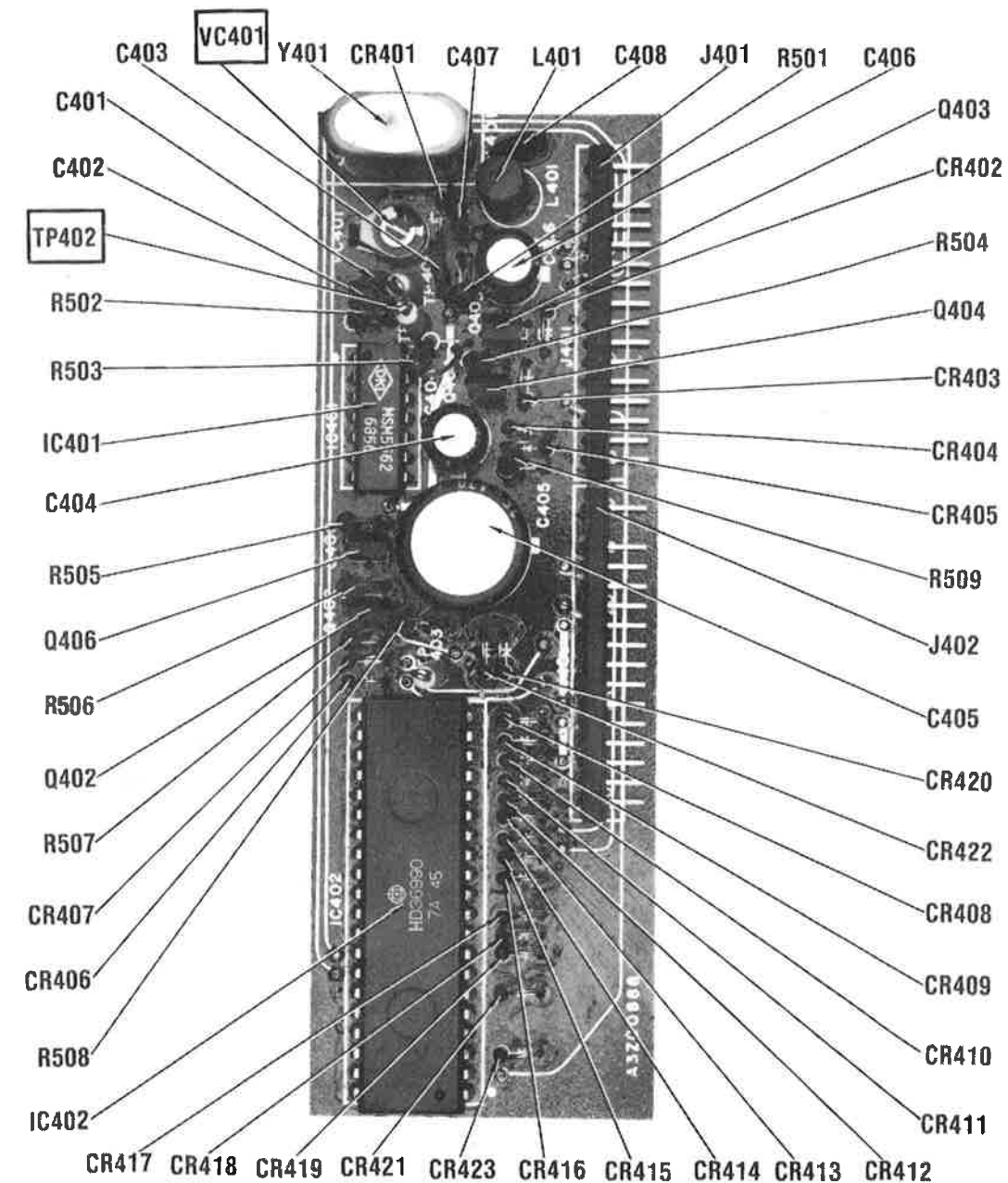
LED BOARD

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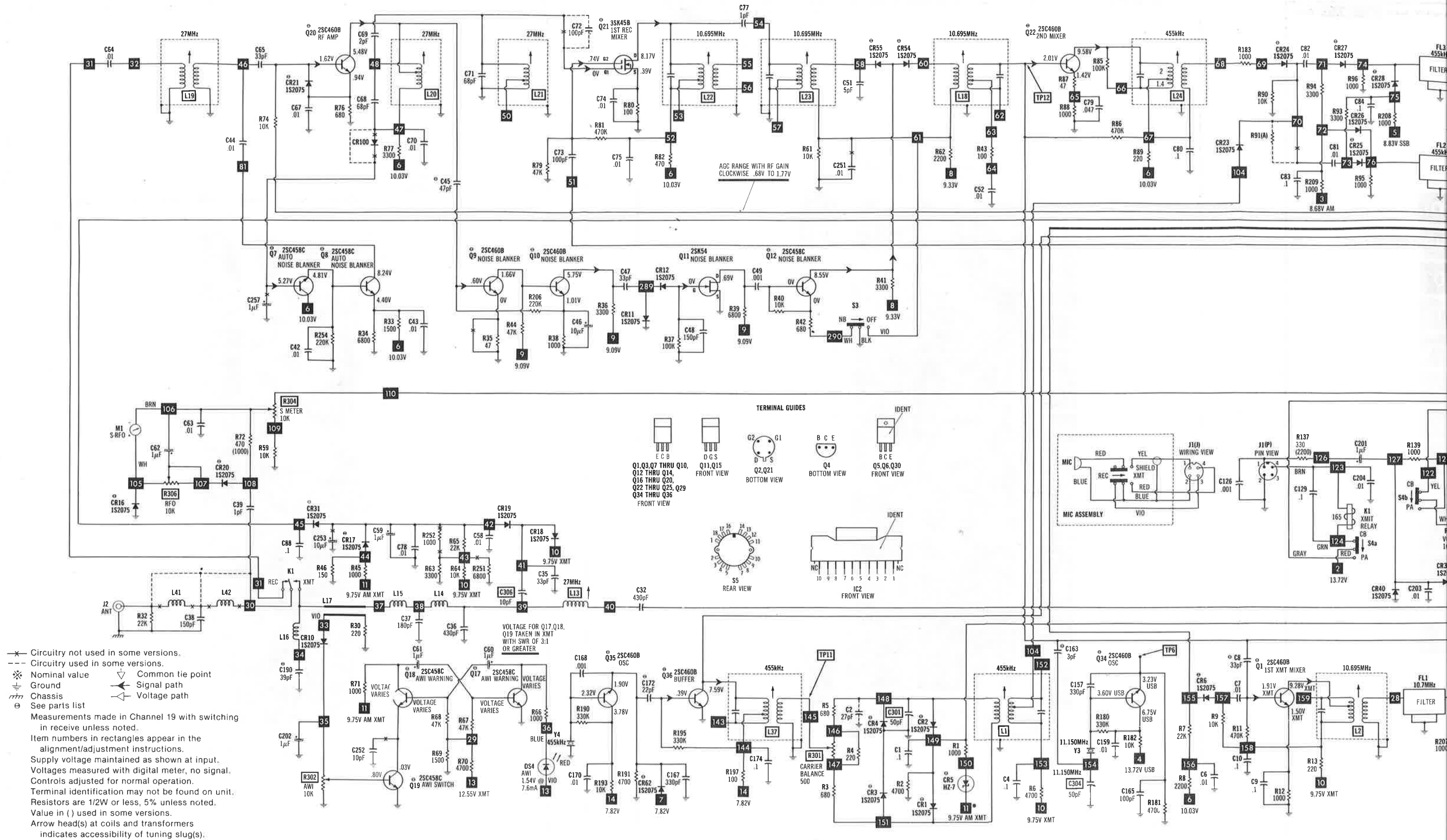
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CLOCK BOARD



CLOCK BOARD

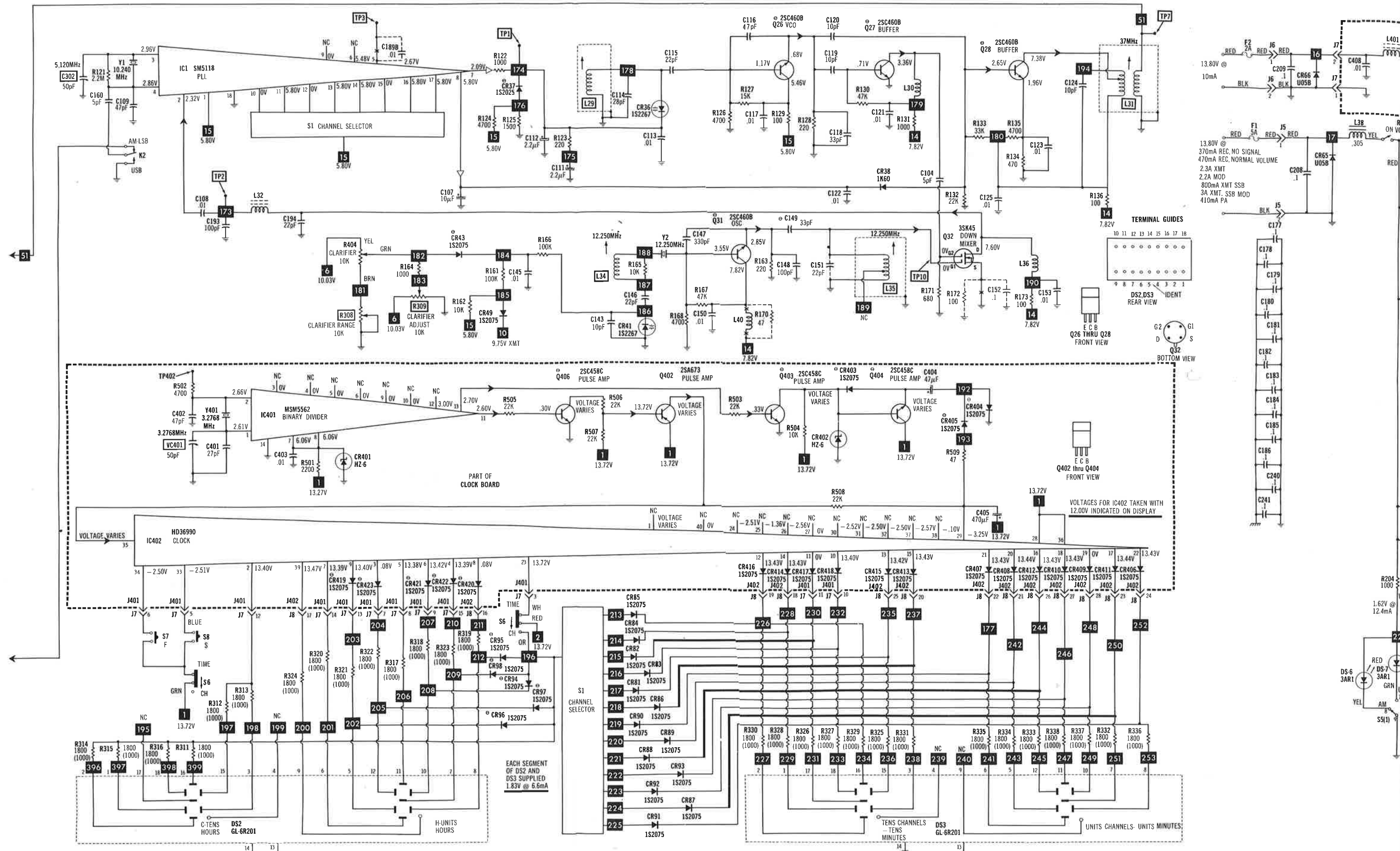


A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE**

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MAIN SCHEMATIC



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

WIRING DATA

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

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
CR1	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR2	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR3	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR4	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR5	1S2075K	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	HZ-7A		IP20-0186	GEZD-6.8	ZB6.8B	REN 5071	SK3334	RT-238	ECG5071A	TM5071/**	WEPI106	
CR6	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR8	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR9	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR10	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR11	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR12	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR13	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR14	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR15	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR16	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR17	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR18	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR19	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR20	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR21	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR23	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR24	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR25	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR26	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR27	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR28	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR29	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR30	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR31	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR32	1K60	IP20-0060	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109/**	WEPI34	103-29001
CR33	1K60	IP20-0060	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109/**	WEPI34	103-29001
CR34	1K60	IP20-0060	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	TM109/**	WEPI34	103-29001
CR35	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		IP20-0185	GE-300	PTC214	HEPR2500	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062
CR36	1S2267	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR37	1S2075		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR38	1S2075K	IP20-0060	GE-300	PTC214	HEPR0602	REN 109	SK3088	RT-263	ECG109	TM109/**	WEPI34	103-29001
	1K60		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR39	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR40	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR41	1S2267	IP20-0185	GE-300	PTC214	HEPR2500	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR44	1S2075K	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR45	1S2075K	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
CR46	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEPI062	103-131

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.
CR47	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR49	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR50	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR51	HZ-7	IP20-0186	GEZD-6.8	ZB6.8B	REN 5071	SK3334	RT-238	ECG5071A	TM5071/**	WEP1106		
	HZ-7A		GEZD-6.8	ZB6.8B	REN 5071	SK3334	RT-238	ECG5071A	TM5071/**	WEP1106		
CR52	HZ-9B	IP20-0324	GEZD-9.1	ZB9.1B	REN 5071	SK3060	RT-240	ECG39A	TM139/**	WEP1109	103-272	
CR53	1S2075		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131	
CR54	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR55	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR56	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR57	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR58	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR60	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR61	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR62	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR63	AW-01-10	IP20-0233	GE-504A	PTC201	HEPR0052	REN 116	SK3311	RT-213	ECG116	TM116	WEP156	212-76-02
CR64	AW-01-10	IP20-0233	GE-504A	PTC201	HEPR0052	REN 116	SK3311	RT-213	ECG116	TM116	WEP156	212-76-02
CR65	U05B	IP20-0164	GEZD-5.1				SK3056	RT-235		1N4733A	WEP1103	103-290
CR66	U05B	IP20-0164	GEZD-5.1				SK3056	RT-235		1N4733A	WEP1103	103-290
CR81	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR82	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR83	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR84	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR85	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR86	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR87	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR88	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR89	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR89	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR90	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR91	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR92	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR93	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR94	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR95	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR96	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR97	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR98	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR401	HZ6C	IP20-0284	GEZD-6.0		REN 5070			ECG5070A	TM5070	WEP1153	103-2900B	
CR402	HZ6C	IP20-0284	GEZD-6.0		REN 5070			ECG5070A	TM5070	WEP1153	103-2900B	
CR403	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR404	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR405	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR406	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR407	1S2075	IP20-0184	GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPR0602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131

PARTS LIST AND DESCR

(When ordering parts, state Model, Part

SEMICONDUCTORS (Select replacement)

ITEM No.	TYPE No.	MFG. PART No.	GENERAL
			ELECTRIC PART No.
CR408	1S2075	IP20-0184	GE-300
CR409	1S2075K		GE-300
	1S2075		GE-300
CR410	1S2075K	IP20-0184	GE-300
	1S2075	GE-300	
CR411	1S2075K	IP20-0184	GE-300
	1S2075	GE-300	
CR412	1S2075K	IP20-0184	GE-300
	1S2075	GE-300	
CR413	1S2075K	IP20-0184	GE-300
	1S2075	GE-300	
CR414	1S2075K	IP20-0184	GE-300
	1S2075	GE-300	
CR415	1S2075K	IP20-0184	GE-300
	1S2075	GE-300	
CR416	1S2075K	IP20-0184	GE-300
	1S2075	GE-300	
CR417	1S2075K	IP20-0184	GE-300
	1S2075	GE-300	
CR418	1S2075K	IP20-0184	GE-300
	1S2075	GE-300	
CR419	1S2075K	IP20-0184	GE-300
	1S2078	GE-300	
CR420	1S2078K	IP20-0184	GE-300
	1S2078	GE-300	
CR421	1S2078K	IP20-0184	GE-300
	1S2078	GE-300	
CR422	1S2078K	IP20-0184	GE-300
	1S2078	GE-300	
CR423	1S2078K	IP20-0184	GE-300
	1S2078	GE-300	
IC1	SM5116G	IP20-0234	GE-300
	SM5118		
IC2	HA1366R	IP20-0317	
IC401	MSM5562	IP20-0318	
IC402	HD36990	IP20-0319	
	25C460B	IP20-0179	GE-61*
Q1	25C460		GE-61*
	35K45B	IP20-0157	GE-FET-4
35K45	GE-FET-4		
Q3	25C460B	IP20-0179	GE-61*
	25C460		GE-61*
Q4	25C2086	IP20-0320	GE-47*
Q5	25C2166	IP20-0321	GE-46
Q6	25C1969	IP20-0322	GE-216
Q7	25C458C	IP20-0191	GE-210
	25C458		GE-210
Q8	25C458C	IP20-0191	GE-210
	25C458		GE-210
Q9	25C460B	IP20-0179	GE-61*
	25C460		GE-61*
Q10	25C460B	IP20-0179	GE-61*
	25C460		GE-61*
Q11	25K54B	IP20-0305	GE-FET-2
	25K54		GE-FET-2
Q12	25C458C	IP20-0191	GE-210
	25C458		GE-210
Q13	25C460B	IP20-0179	GE-61*
	25C460		GE-61*
Q14	25A673	IP20-0192	GE-269
Q15	25K54B	IP20-0308	GE-FET-2
	25K54C		GE-FET-2
Q16	25C460B	IP20-0179	GE-61*
	25C460		GE-61*
Q17	25C458C	IP20-0191	GE-210
	25C458		GE-210
Q18	25C458C	IP20-0191	GE-210
	25C458		GE-210
Q19	25C458C	IP20-0191	GE-210
	25C458		GE-210
Q20	25C460B	IP20-0179	GE-61*
	25C460		GE-61*
Q21	35K45B	IP20-0157	GE-FET-4
	35K45		GE-FET-4
Q22	25C460B	IP20-0179	GE-61*
	25C460		GE-61*
Q23	25C460B	IP20-0179	GE-61*
	25C460		GE-61*
Q24	25C460B	IP20-0179	GE-61*
	25C460		GE-61*

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.
CR408	1S2075	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR409	1S2075	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR410	1S2075	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR411	1S2075	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR412	1S2075	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR413	1S2075	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR414	1S2075	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR415	1S2075	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR416	1S2075	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR417	1S2075	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR418	1S2075	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2075K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR419	1S2078	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2078K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR420	1S2078	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2078K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR421	1S2078	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2078K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR422	1S2078	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2078K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
CR423	1S2078	IP20-0184	GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
	1S2078K		GE-300	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG177	TM177	WEP1062	103-131
IC1	SM5118G	IP20-0234	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	SM5118		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
IC2	HAT366R	IP20-0317	GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222	TM222	WEP905	121-826
IC401	MSM5562	IP20-0318	GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222	TM222	WEP905	121-826
IC402	HD36990	IP20-0319	GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222	TM222	WEP905	121-826
Q1	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q2	3SK45B	IP20-0157	GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222	TM222	WEP905	121-826
	3SK45		GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222	TM222	WEP905	121-826
Q3	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q4	2SC2086	IP20-0320	GE-47*	PTC143*	HEPS3001*	REN 237	SK3049	RT-174	ECG237	TM237	WEP799	121-29041
Q5	2SC2166	IP20-0321	GE-46	PTC158	HEPS3001*	REN 236	SK3197	RT-158	ECG236	TM236	WEP848	121-29040
Q6	2SC1969	IP20-0322	GE-216	PTC186	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
Q7	2SC458C	IP20-0191	GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
	2SC458		GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
Q8	2SC458C	IP20-0191	GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
	2SC458		GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
Q9	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q10	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q11	2SK54B	IP20-0305	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP920	121-756
	2SK54		GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP920	121-756
Q12	2SC458C	IP20-0191	GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
	2SC458		GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
Q13	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q14	2SA673	IP20-0192	GE-269	PTC103*	HEPS0026*	REN 290	SK3114	RT-115*	ECG290	TM290	WEP911	121-1019
Q15	2SK54B	IP20-0308	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP920	121-756
	2SK54C		GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312	TM312	WEP920	121-756
Q16	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q17	2SC458C	IP20-0191	GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
	2SC458		GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
Q18	2SC458C	IP20-0191	GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
	2SC458		GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
Q19	2SC458C	IP20-0191	GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
	2SC458		GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
Q20	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q21	3SK45B	IP20-0157	GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222	TM222	WEP905	121-826
	3SK45		GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222	TM222	WEP905	121-826
Q22	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q23	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q24	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*

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.
Q25	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q26	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q28	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q29	2SC458C	IP20-0191	GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
	2SC458		GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
Q30	2SC1061	IP20-0323	GE-66	PTC167	HEPS3061	REN 152	SK3054	RT-197	ECG152	TM152/**	WEP745	121-29002
Q31	2SC460B		IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	EGG107	TM107/**	WEP460
	2SC460	GE-61*		PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q32	3SK45B	IP20-0157	GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222	TM222	WEP905	121-826
	3K45		GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222	TM222	WEP905	121-826
Q33	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q34	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q35	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q36	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q37	2SC460B	IP20-0179	GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
	2SC460		GE-61*	PTC136*	HEPS0014*	REN 107	SK3122	RT-134	ECG107	TM107/**	WEP460	121-29000*
Q401	2SC458C	IP20-0191	GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
	2SC458		GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
Q402	2SA673	IP20-0197	GE-269	PTC121*	HEPS0003*	REN 290	SK3114	RT-115*	ECG290	TM290	WEP911	121-1019
Q403	2SC458C		IP20-0191	GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458
	2SC458	GE-210		PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
Q404	2SC458C	IP20-0191	GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*
	2SC458		GE-210	PTC121*	HEPS0009*	REN 289	SK3122	RT-187	ECG289	TM289/**	WEP458	121-29000A*

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C1	.1 50V		CK-104		MAG5001		
C2	27						
C4	.1 50V		CK-104		MAG5001		
C5	.1 50V 10%			WMF05P1	EWFO5010	QFT2-215	1FT-P10
C6	.01		UK50-103		MAG5011		
C7	.01		UK50-103		MAG5011		
C8	33			GP33	GP433	QC2-27	5GAQ33
C9	.1 50V		CK-104		MAG5001		
C10	.1 50V		CK-104		MAG5001		
C11	33			GP33	GP433	QC2-27	5GAQ33
C12	.01		UK50-103		MAG5011	QC2-27	5GAQ33
C13	33			GP33	GP433		
C14	1				GP433	QC2-27	5GAQ33
C15	33				MAG5011		
C16	.01		UK50-103		GP322		
C17	220 10%		DD-221		EWFI1A147	QFT2-171	10TS-T22
C18	.047 10%			DPMS2S47	GP310		1FT-S47
C19	100 10%		DD-101	GP100	GP418		10TS-T10
C20	18				MAG5011		5GA-Q18
C21	.01		UK50-103		MAG5011		
C22	.01		UK50-103		MAG5011		
C23	.01		UK50-103		EWFI1A110	QFT2-91	1FT-S10
C24	.01 50V 10%			WMF1S1	GP310		10TCU-Q15
C25	15 N750		DTN-15	N15	CN7415		10TS-T10
C26	100 10%		DD-101	GP100	GP310		
C27	.01		UK50-103		MAG5011		10TCU-Q68
C28	68 N750		DTN-68	N68	CN7468		
C29	.01		UK50-103		MAG5011		
C30	150		DD-151		GP315	QFT2-91	10TS-T15
C31	.01 50V 10%			WMF1S1	EWFI1A110		1FT-S10
C32	430 10%			CD15FD431J03	SX343	QFT2-215	MMA-431
C33	.1 50V 10%			WMF05P1	EWFO5010		1FT-P10
C34	.01		UK50-103		MAG5011		
C35	33			GP33	GP433	QC2-27	5GAQ33
C36	430 10%			CD15FD431J03	SX343		MMA-431
C37	180 10%		DD-181		GP318		10TS-T18
C38	150 ±5%			CD15FD151J03	SX315	QW1-31	MMA-151
C39	1						
C40	.1 50V 10%			WMF05P1	EWFO5010	QFT2-215	1FT-P10
C42	.01		UK50-103		MAG5011		
C43	.01		UK50-103		MAG5011		
C44	.01		UK50-103		MAG5011		
C45	47 N750		DTN-47	N47	CN7447		10TCU-Q47
C47	33			GP33	GP433	QC2-27	5GAQ33
C48	150 10%		DD-151		GP315		10TS-T15
C49	.001		DD-102		GP210		10TS-D10
C51	5			GP5	GP550	QC2-1	5GAV50
C52	.01		UK50-103		MAG5011		
C53	.1 50V		CK-104		MAG5001		
C54	.001		DD-102		GP210		10TS-D10
C55	.1 50V		CK-104		MAG5001		
C56	68 N750		DTN-68	N68	CN7468		10TCU-Q68
C58	.01		UK50-103		MAG5011		
C63	.01		UK50-103		MAG5011		
C64	.01		UK50-103		MAG5011		
C65	33			GP33	GP433	QC2-27	5GAQ33
C67	.01		UK50-103		MAG5011		
C68	68 N220				*		10TCR-Q68
C69	2						
C70	.01		UK50-103		MAG5011		
C71	68 N220 5%				*		10TCR-Q68
C72	100						
C73	100 10%		DD-101	GP100	GP310		10TS-T10
C74	.01		UK50-103		MAG5011		
C75	.01		UK50-103		MAG5011		
C76	.1 50V		CK-104		MAG5001		
C77	1						
C78	.01		UK50-103		MAG5011		
C79	.047 10%						
C80	.1 50V		CK-104		MAG5001		
C81	.01		UK50-103		MAG5011		
C82	.01		UK50-103		MAG5011		
C83	.1 50V		CK-104		MAG5001		
C84	.1 50V		CK-104		MAG5001		
C85	.1 50V		CK-104		MAG5001		
C86	.1 50V		CK-104		MAG5001		
C87	.01		UK50-103		MAG5011		
C88	.1 50V		CK-104		MAG5001		
C89	.047 10%			DPMS2S47	EWFI1A147	QFT2-171	1FT-S47
C90	1						
C91	.1 50V		CK-104		MAG5001		
C92	27 N750				CN7427		10TCU-Q27
C93	.1 50V		CK-104		MAG5001		
C94	.047 10%			DPMS2S47	EWFI1A147	QFT2-171	1FT-S47
C95	1						
C96	.1 50V		CK-104		MAG5001		
C97	.01		UK50-103		MAG5011		
C98	1						
C99	100 10%		DD-101	GP100	GP310		10TS-T10
C100	.1 50V		CK-104		MAG5001		
C101	.001		DD-102		GP210		10TS-D10
C103	.01			WMF1S1	EWFI1A110	QFT2-91	1FT-S10
C104	5			GP5	GP550	QC2-1	5GAV50
C106	.1 50V		CK-104		MAG5001		
C108	.01		UK50-103		MAG5011		
C109	47			GP47	GP447	QC2-31	5GAQ47
C110	.001		DD-102		GP210		10TS-D10
C113	.01		UK50-103		MAG5011		

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PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE Q-LINE	PART No. GENERAL LINE
C114	68 N220 5%			GP22	*		10TCR-Q68
C115	22			N47	GP422	QC2-19	5GAQ22
C116	47 N750		DTN-47		CN7447		10TCU-Q47
C117	.01		UK50-103		MAG5011		
C118	33			GP33	GP433	QC2-27	5GAQ33
C119	10			GP10	GP410	QC2-9	5GAQ10
C120	10			GP10	GP410	QC2-9	5GAQ10
C121	.01		UK50-103		MAG5011		
C122	.01		UK50-103		MAG5011		
C123	.01		UK50-103		MAG5011		
C124	10			GP10	GP410	QC2-9	5GAQ10
C125	.01		UK50-103		MAG5011		
C126	.001		DD-102		GP210		10TS-D10
C128	.1 50V 10%			WMF05P1	EWFO5010	QFT2-215	1FT-P10
C129	.1 50V		CK-104		MAG5001		1FT-P10
C130	.01		UK50-103		MAG5011		
C133	.1 50V 10%			WMF05P1	EWFO5010	QFT2-215	1FT-P10
C134	.01			WMF1S1	EWFTA110	QFT2-91	1FT-S10
C136	.01			WMF1S1	EWFTA110	QFT2-91	1FT-S10
C137	.001						
C142	.01			WMF1S1	EWFTA110	QFT2-91	1FT-S10
C143	10			GP10	GP410	QC2-9	5GAQ10
C145	.01		UK50-103		MAG5011		
C146	22 N220				*		10TCR-Q22
C147	330 10%		DD-331	GP330	GP333		10TS-T33
C148	100 10%		DD-101	GP100	GP310		10TS-T10
C149	33			GP33	GP433	QC2-27	5GAQ33
C150	.01		UK50-103		MAG5011		
C151	22						
C152	.1						
C153	.1 50V		CK-104		MAG5001		
C154	.1 50V		CK-104		MAG5001		
C157	330 10%		DD-331	GP330	GP333		10TS-T33
C159	.01		UK50-103		MAG5011		
C160	5			GP5	GP550	QC2-1	5GAV50
C163	3						
C165	100 10%		DD-101	GP100	GP310		10TS-T10
C167	330 10%		DD-331	GP330	GP333		10TS-T33
C168	.001 50 10%			DPMS601	EWFTA210	QFT2-1	1FT-D10
C169	39				GP439	QC2-29	5GAQ39
C170	.01 50V		UK50-103		MAG5011		
C172	22			GP22	GP422	QC2-19	5GAQ22
C174	.1 50V		CK-104		MAG5001		
C177	.1 50V		CK-104		MAG5001		
C178	.1		CK-104		MAG5001		
C179	.1 50V		CK-104		MAG5001		
C180	.1		CK-104		MAG5001		
C181	.1 50V		CK-104		MAG5001		
C182	.1 50V		CK-104		MAG5001		
C183	.1		CK-104		MAG5001		
C184	.1		CK-104		MAG5001		
C185	.1		CK-104		MAG5001		
C186	.1		CK-104		MAG5001		
C188	.1 50V		CK-104		MAG5001		
C189A	.1 50V		CK-104		MAG5001		
C189B	.01						
C190	39				GP439	QC2-29	5GAQ39
C193	100 10%		DD-101	GP100	GP310		10TS-T10
C194	22			GP22	GP422	QC2-19	5GAQ22
C197	.1 50V 10%			WMF05P1	EWFO5010	QFT2-215	1FT-P10
C203	.01		UK50-103		MAG5011		
C204	.01		UK50-103		MAG5011		
C205	.01		UK50-103		MAG5011		
C206	.01		UK50-103		MAG5011		
C207	.01		UK50-103		MAG5011		
C208	.1 50V		CK-104		MAG5001		MWC-362
C209	.1 50V		CK-104		MAG5001		
C210	.1 50V		CK-104		MAG5001		
C211	.1 50V		CK-104		MAG5001		
C212	.1 50V		CK-104		MAG5001		
C240	.1		CK-104		MAG5001		
C241	.1		CK-104		MAG5001		
C251	.01		UK50-103		MAG5011		
C252	10			GP10	GP410	QC2-9	5GAQ10
C254	.01 100V		DC-103	MGPO1	TA110	QC2-141	TG-S10
C256	270 5%			CD15FD271J03	SX327	QW1-37	MWB-271
C301	50	IP22-0092					
C302	50	IP22-0092					
C304	50	IP22-0092					
C306	10	IP22-0093					
C401	27 N750				CN7427		10TCU-Q27
C402	47 N750		DTN-47	N47	CN7447		10TCU-Q47
C403	.01		UK50-103		MAG5011		
C407	.01		UK50-103		MAG5011		
C408	.01		UK50-103		MAG5011		
VC401							

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

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA			
			MFGR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
R301	Carrier Balance	500	IP24-0008			U260R501B
R302	AWI	10K	IP24-0003			U260R103B
R303	Squelch Range	10K	IP24-0003			U260R103B
R304	S Meter	10K	IP24-0003			U260R103B
R306	RFO	10K	IP24-0003			U260R103B
R307	AMC	500	IP24-0008			U260R103B
R308	Clarifier Range	10K	IP24-0003			U260R501B
R309	Clarifier Adjust	10K	IP24-0003			U260R103B
R402	RF Gain	10K	IP24-0043			
R403	Volume/Power Switch	10K	IP24-0032			
R404	Clarifier	10K	IP24-0042			
R601	Squelch	10K	IP24-0043			

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	IF (455kHz)	IP21-0316			
L2	XMT Mixer (10.695MHz)	IP21-0312			
L3	XMT Mixer (27MHz)	IP21-0296			
L4	XMT Mixer (27MHz)	IP21-0395			
L5	RF Choke	IP21-0297			
L6	XMT Preamp (27MHz)	IP21-0396			
L7	XMT Predriver (1uH)	IP21-0297			
L8	RF Choke (27MHz)	IP21-0301			
L9	RF Choke (.4uH)	IP21-0397			
L10	Driver (27MHz)	IP21-0398			
L11	RF Choke (1uH)	IP21-0297			
L12	RF Choke (.4uH)	IP21-0397			
L13	Loading Final (27MHz)	IP21-0399			
L14	Pi Filter	IP21-0400			
L15	RF Choke (.22uH)	IP21-0308			
L16	RF Choke (.22uH)	IP21-0308			
L17	Directional Coupler	IP21-0382			
L18	Noise Blanker (10.7MHz)	IP21-0312			
L19	Antenna Matching (27MHz)	IP21-0310			
L20	RF Amp (27MHz)	IP21-0311			
L21	RF Amp (27MHz)	IP21-0311			
L22	Rec Mixer (10.695MHz)	IP21-0312			
L23	Rec Mixer (10.695MHz)	IP21-0312			
L24	IF (455kHz)	IP21-0314			
L25	IF (455kHz)	IP21-0315			
L26	IF (455kHz)	IP21-0315			
L27	IF (455kHz)	IP21-0316			
L28	IF (455kHz)	IP21-0316			
L29	VCO (38MHz)	IP21-0315			
L30	Buffer (1uH)	IP21-0297			
L31	Buffer (38MHz)	IP21-0401			
L32	RF Choke (47uH)	IP21-0295			
L34	Oscillator (12.250MHz)	IP21-0402			
L35	Oscillator (27MHz)	IP21-0311			
L36	Down Mixer (2.2mH)	IP21-0403			
L37	IF (455kHz)	IP21-0316			
L40	RF Choke				
L41	RF Choke				
L42	RF Choke				
L401	RF Choke (2.2mH)	IP21-0403			

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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.	
L38	3A	.305	2.63mH	IP21-0317 L-24(1)			(1) Number on unit.

CHOKE (Audio Output)

ITEM No.	INDUCTANCE	REPLACEMENT DATA			NOTES
		MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	11.2mH	IP21-0404 63682(1)			(1) Number on unit.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3 1/2" PM 8 Ohms	IP29-0022 92P25(1)	3A05Z8R	(1) Number on unit.

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	DEVICE
F1	5A Quick Acting	IP36-0007		AGC5	HRK	312005	150145	FG5-2	
F2	2A Quick Acting	IP36-0002		AGC2	HRK	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
Mfc	IP29-0021	18-032	18-034	18-010	18-092	1	4	2	NC	NC	4

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
DS1	Lamp	IP28-0036	Meter w/Holder (13.72V @ 40mA)
DS2	LED	IP28-0035	C-Tens Hours/H-Units Hours (Each segment 1.83V @ 6.6mA)
DS3	LED	IP28-0035	Tens Channels-Tens Minute/Units Channel Minutes
DS4	LED	IP28-0037	AWI (1.54V @ 7.6mA) (3AR1)
DS5	LED	IP28-0038	Receive (1.94V @ 11.7mA) (3PG1)
DS6	LED	IP28-0037	AM (1.62V @ 12.4mA) (3AR1)
DS7	LED	IP28-0037	USB (1.62V @ 12.4mA) (3AR1)
DS8	LED	IP28-0037	LSB (1.62V @ 12.4mA) (3AR1)
FL1	Filter	IP31-0118	10.7MHz
FL2	Filter	IP31-0119	455kHz
FL3	Filter	IP31-0091	455kHz
J1	Jack	IP26-0014	Microphone (4 Pin)
J2	Jack	IP26-0028	Antenna
J3	Jack	IP26-0005	External Speaker (Miniature Phone)
J4	Jack	IP26-0005	PA Speaker
J5	Socket	IP26-0036	DC Power
J6	Socket	IP35-0033	Clock
J7	Socket	IP38-0037	(R41-3144N)
J8	Socket	IP38-0037	(R41-3144N)
K1	Relay	IP32-0011	12V DC (MY4-0)
K2	Relay	IP32-0012	12V DC (BR211 ADO12-M)
M1	Meter	IP27-0018	S/RFO
S1	Switch	IP25-0080	Channel Selector
S2	Switch	IP25-0052	ANL/NB (Slide)
S3	Switch	IP25-0052	ANL/NB (Slide)
S4	Switch	IP25-0051	CB/PA (Slide)
S5	Switch	IP25-0081	AM/USB/LSB (Rotary)
S6	Switch	IP35-0082	CB/Clock (JP3504) (Push)
S7	Switch	IP25-0083	Clock (JP5019) (Push)
S8	Switch	IP25-0083	Clock (JP5019) (Push)
Y1	Crystal	IP31-0095	10.240MHz
Y2	Crystal	IP31-0114	12.250MHz
Y3	Crystal	IP31-0115	11.150MHz
Y4	Crystal	IP31-0116	455kHz
Y401	Crystal	IP31-0117	3.276MHz
	Cord	IP35-0007	Power Assembly (w/5A Fuse) DC
	Cord		Power Assembly (w/2A Fuse) Clock

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

ITEM	PART No.	ITEM	PART No.
Cover, Top	IP30-0360	Knob, Mode	IP30-0371
Cover, Bottom	IP30-0370	Knob, Control (4 used)	IP30-0297
Knob, Channel	IP30-0296		