



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 KCB-2340

MANUFACTURER'S SPECIFICATIONS

GENERAL

Circuitry	36 Transistors, 5 FETs, 1 IC
Frequency Control	Crystal synthesizing system
Channel	23 channels all installed
Mode of Operation	AM, LSB, USB
Power Source Voltage Range	11.5 – 14.5V DC
Speaker	3" dynamic, 8 ohms
Microphone	Dynamic type
Power Source	DC 13.8 volts

RECEIVER SECTION

Receiving System	Single conversion superheterodyne
Sensitivity	AM 1 μ V for 10 dB S/N SSB 0.25 μ V for 10 dB S/N
Selectivity	AM 4 kHz at 6 dB down SSB 2.4 kHz at 6 dB down
Fine Tune (Clarifier)	$\pm$ 600 Hz
Audio Output Power	3W at 8 ohms
Squelch Range	AM 1 μ V to 500 μ V SSB 0.7 μ V to 20 μ V
Intermediate Frequency	11.2735 MHz

SSB TRANSMITTER SECTION

SSB Generation	Balanced ring modulator with crystal lattice filter
RF Output Power	PEP 12 watts (Legal Maximum)
Carrier Suppression	40 dB down
Unwanted Sideband Suppression	50 dB down
Harmonic Suppression	50 dB down

AM TRANSMITTER SECTION

Modulation	High Level Class B
RF Output Power	4 watts (Legal Maximum)
Harmonic Suppression	50 dB down

Courtesy of the Manufacturer

KRACO MODEL KCB-2340

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

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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:

L1,L10,L11,L13,L14,L20.....5009
L5,L6,L7.....9304
L2,L3,L4,L9,L12,L15 thru L19,L201 thru L204..9440
TC1,TC2,TC201 thru TC205.....5000
L601.....9440,8282

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCIEVER	ADJUST	REMARKS
Input of frequency counter to TP1.	Ch. 13, USB	TC1	Adjust for 11.275MHz $\pm$ 50Hz.
Input of frequency counter to TP2.	Ch. 1 USB	TC201	Adjust for 14.910MHz $\pm$ 50Hz.
	Clarifier Midrange	TC202	Adjust for 14.920MHz $\pm$ 50Hz.
	Ch. 2, USB	TC203	Adjust for 14.930MHz $\pm$ 50Hz.
	Clarifier Midrange	TC204	Adjust for 14.950MHz $\pm$ 50Hz.
Input of frequency counter to TP2.	Ch. 3, USB		
Input of frequency counter to TP3.	Clarifier Midrange	TC205	Adjust between 14.907MHz and 14.908MHz.
	Ch. 4, USB		
Input of RF VTVM to TP4.	Clarifier Midrange	L201	Turn L201 counterclockwise until oscillator stops. Turn L201 clockwise until oscillator starts, then turn L201 1/2 turn clockwise.
	Ch. 1, AM		
	Ch. 5, AM		Check for 23.330MHz $\pm$ 0.2kHz.
	Ch. 9, AM		Check for 23.380MHz $\pm$ 0.2kHz.
	Ch. 13, AM		Check for 23.430MHz $\pm$ 0.2kHz.
	Ch. 17, AM		Check for 23.480MHz $\pm$ 0.2kHz.
	Ch. 21, AM		Check for 23.530MHz $\pm$ 0.2kHz.
Input of RF VTVM to TP4.			Check for 23.580MHz $\pm$ 0.2kHz.
Input of RF VTVM to TP4.	Ch. 13, AM	L202,L203, L204	Adjust for maximum.
Input of oscilloscope to TP5.	Ch. 13, LSB	L12,L13,L14	Adjust for maximum.
Input of oscilloscope to TP6.	Ch. 13, LSB	L15,L16,L17	Adjust for maximum.

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.

AM

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP7 (Q17, Base). 11.2735MHz, 1000Hz @ 30% modulation.	Ch. 13, AM Clarifier Midrange RF Gain Maximum	L20, L10, L11	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation.	Ch. 13, AM	L19, L18	Adjust for maximum output. Repeat above steps, if necessary.

KRACO MODEL KCB-2340

RECEIVER ADJUSTMENTS

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
No signal input. Input of VTVM to TP41.	Ch. 13, USB	RV6	SSB AGC Adjust for 2.0 volts.
No signal input. Input of VTVM to TP41.	Ch. 13, AM	RV10	AM AGC Adjust for 1.9 volts.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation. Output 500uV.	Ch. 13, AM	RV12	SQUELCH RANGE Set Squelch Control RV602 fully clockwise. Adjust RV12 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 13, AM	RV9	S METER Adjust RV9 for 9 on S scale of meter.

TRANSMITTER ALIGNMENT

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

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

See page 4 for channel frequencies.

SSB

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Inject a 2400Hz, 10mV signal at MIC input.	Ch. 13, USB, XMIT XMIT Bias (RV1,RV2) Maximum SSB Mic Gain (RV8) Maximum	L1,L2,L3, L4,L5,L6, L7,L601	Adjust for maximum.
Inject a 2400Hz, 10mV signal at MIC input.	Ch. 13, USB, XMIT	L6,RV5	Adjust for 11 watts.
Inject a 2400Hz, 10mV signal at MIC input. Input of oscilloscope to antenna jack.	Ch. 13, USB, XMIT	L9	Adjust L9 for maximum.
No modulation. Input of oscilloscope to antenna jack.	Ch. 13, USB, XMIT	TC2,RV4	Adjust for MINIMUM.
Inject a 2400Hz, 10mV signal at MIC input.	Ch. 13, USB, XMIT	L9	Adjust L9 for maximum.

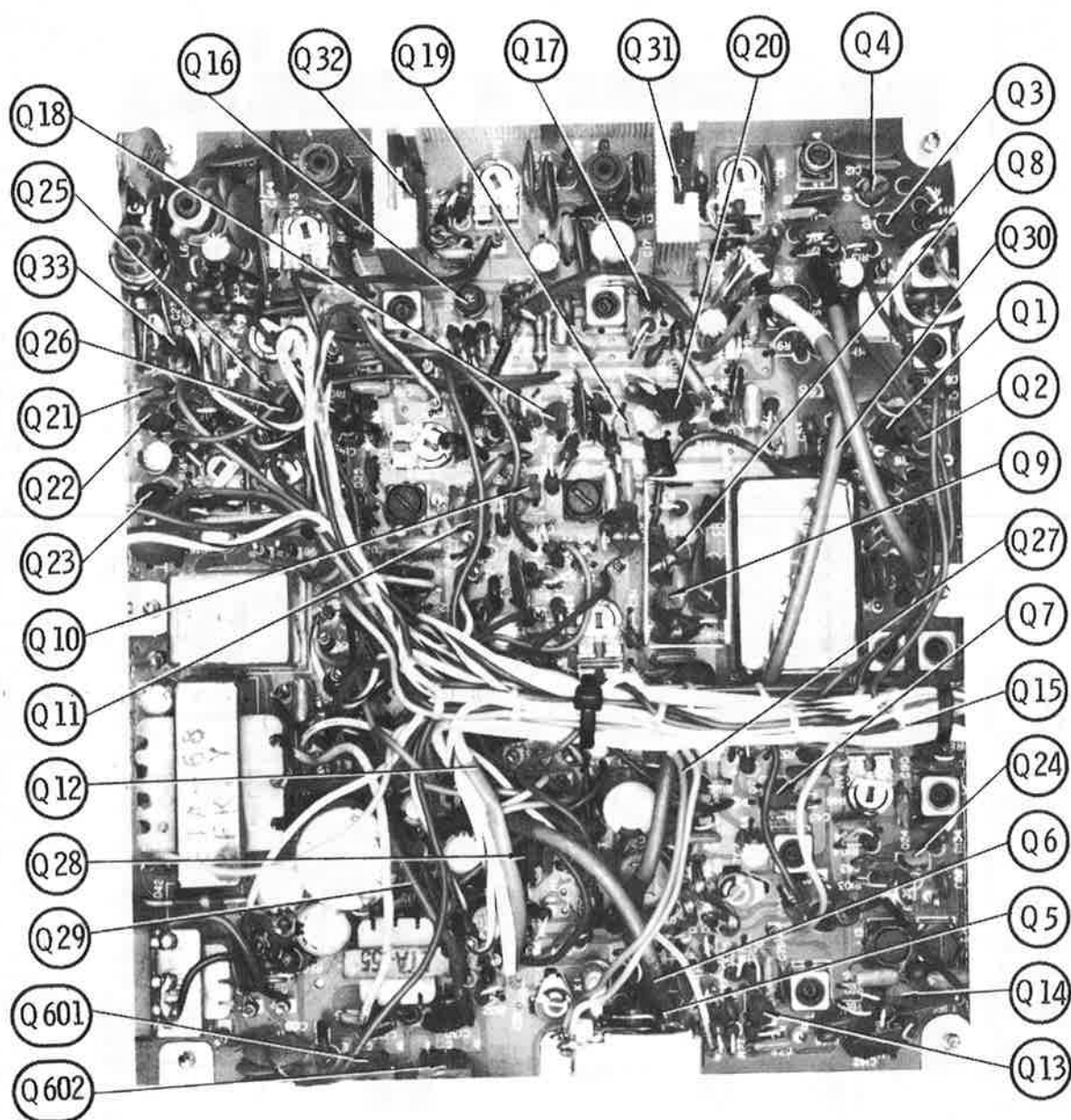
TRANSMITTER ADJUSTMENTS

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

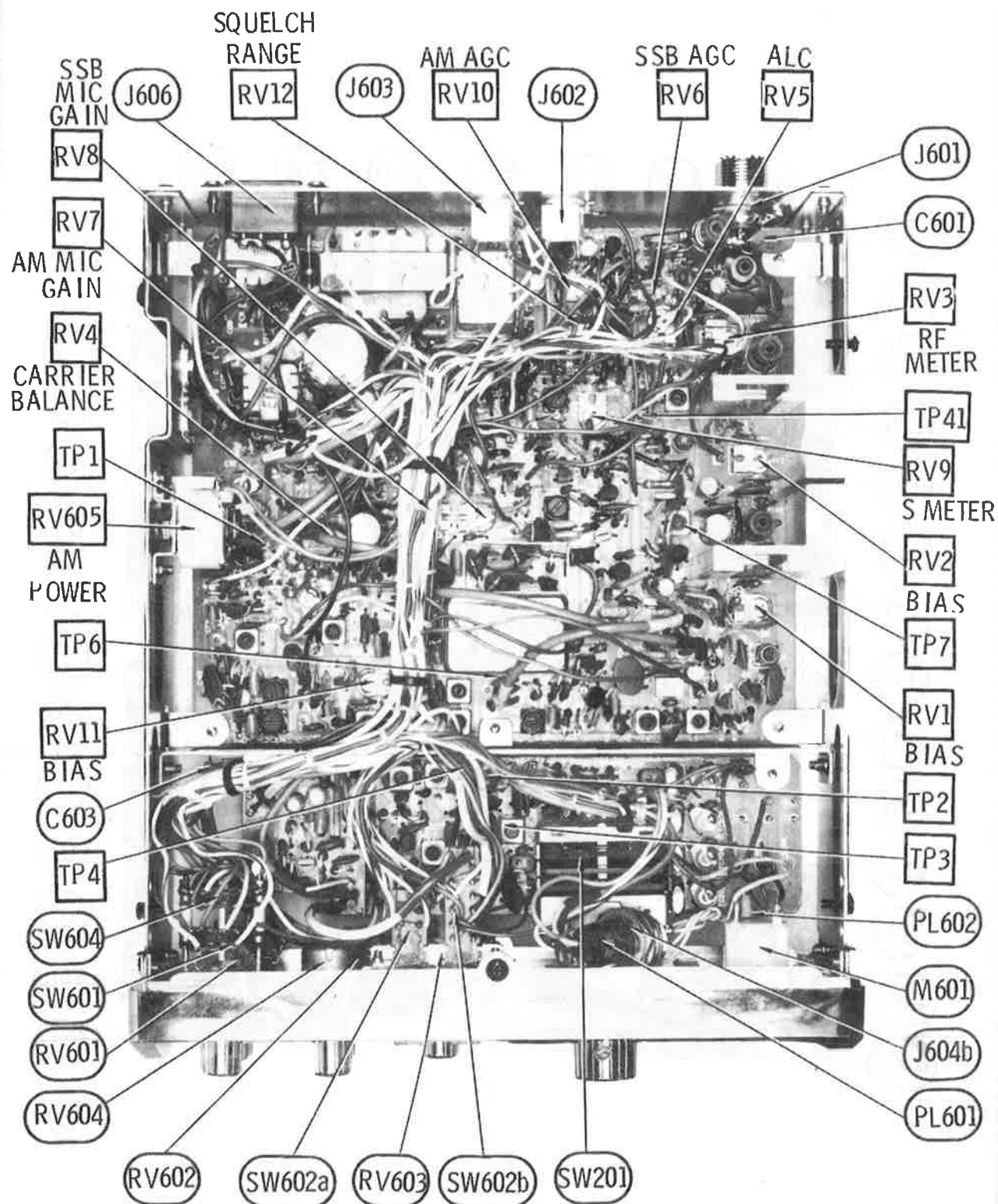
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.

See page 4 for channel frequencies.

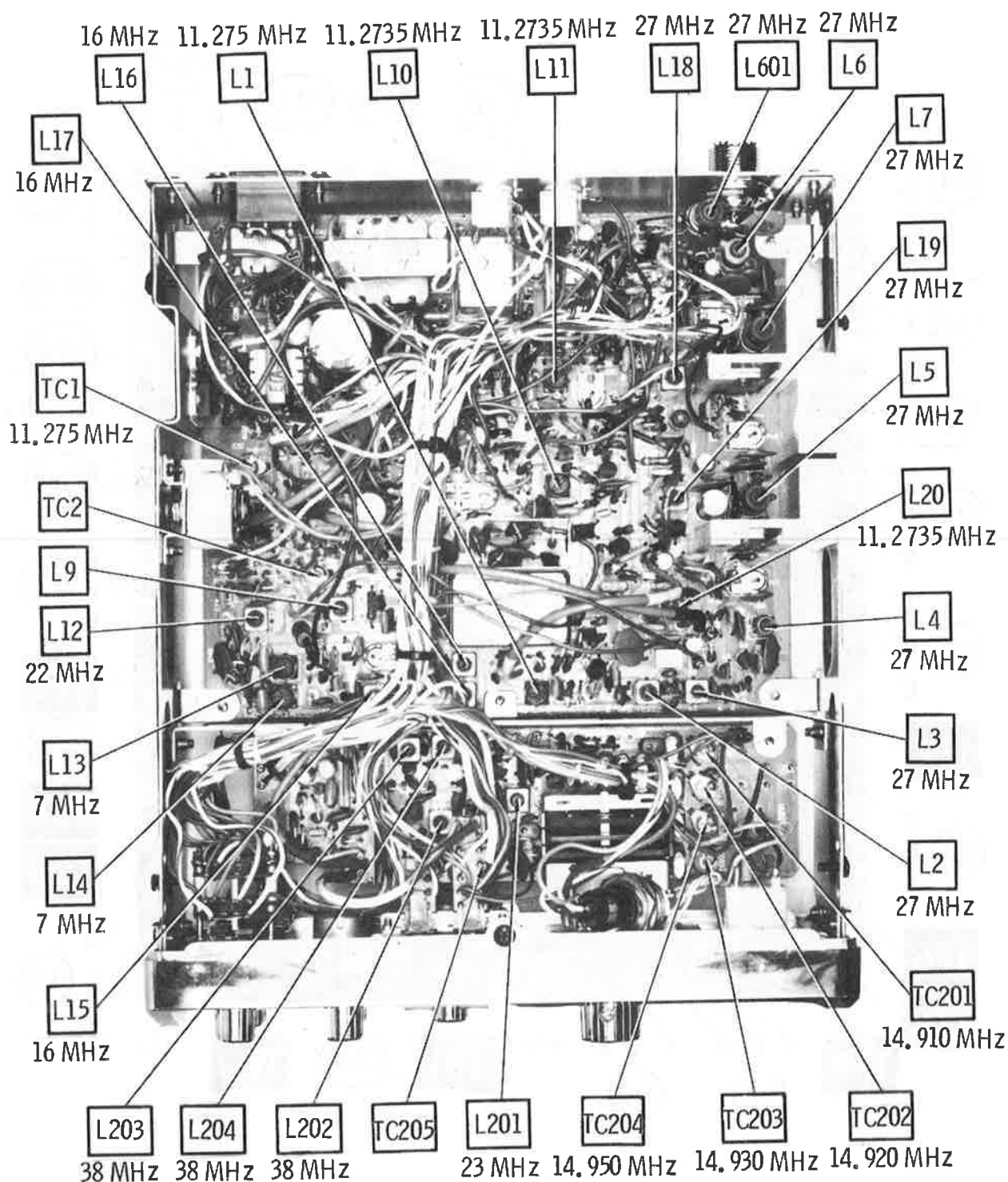
TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of 2 tone generator to MIC input. 500Hz and 2400Hz. Output 5mV. Input of oscilloscope to antenna jack.	Ch. 13, USB	RV1,RV2	BIAS Adjust for 100% modulation.
Output of 2 tone generator to MIC input. 500Hz and 2400Hz. Output 5mV. Input of oscilloscope to antenna jack.	Ch. 13, USB	RV8	SSB MIC GAIN Adjust RV8 for 100% modulation.
Inject a 2400Hz, 10mV signal at MIC input.	Ch. 13, LSB	RV11	LSB GAIN Adjust RV11 so LSB output is equal to USB output.
No modulation.	Ch. 13, AM	RV605	AM POWER Adjust for 3.8 watts.
Inject a 2500Hz, 7mV signal at MIC input.	Ch. 13, AM	RV7	AM MIC GAIN Adjust for 90% modulation.
	Ch. 13, AM	RV3	RF METER Adjust RV3 so that RF panel meter agrees with RF wattmeter.



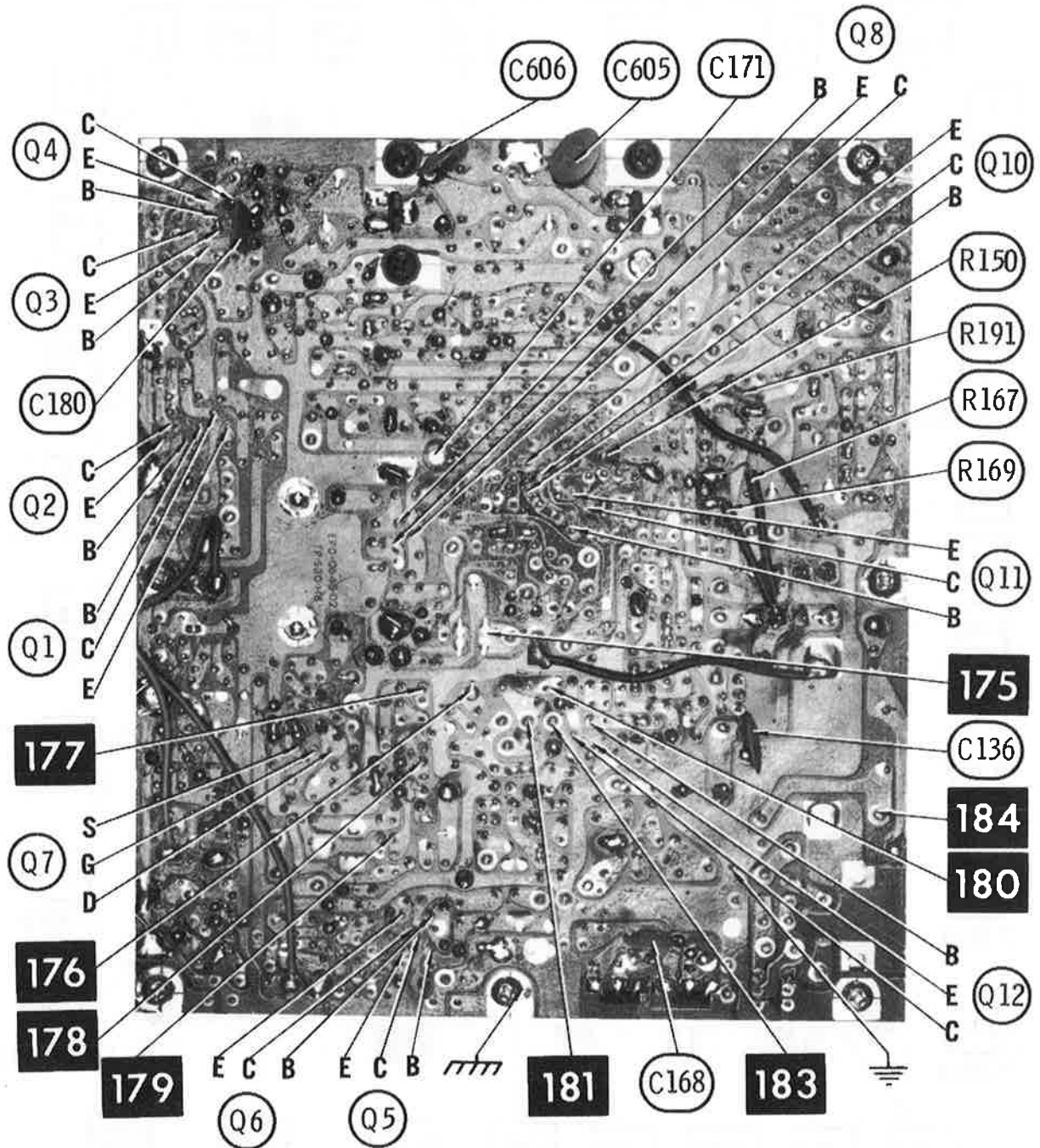
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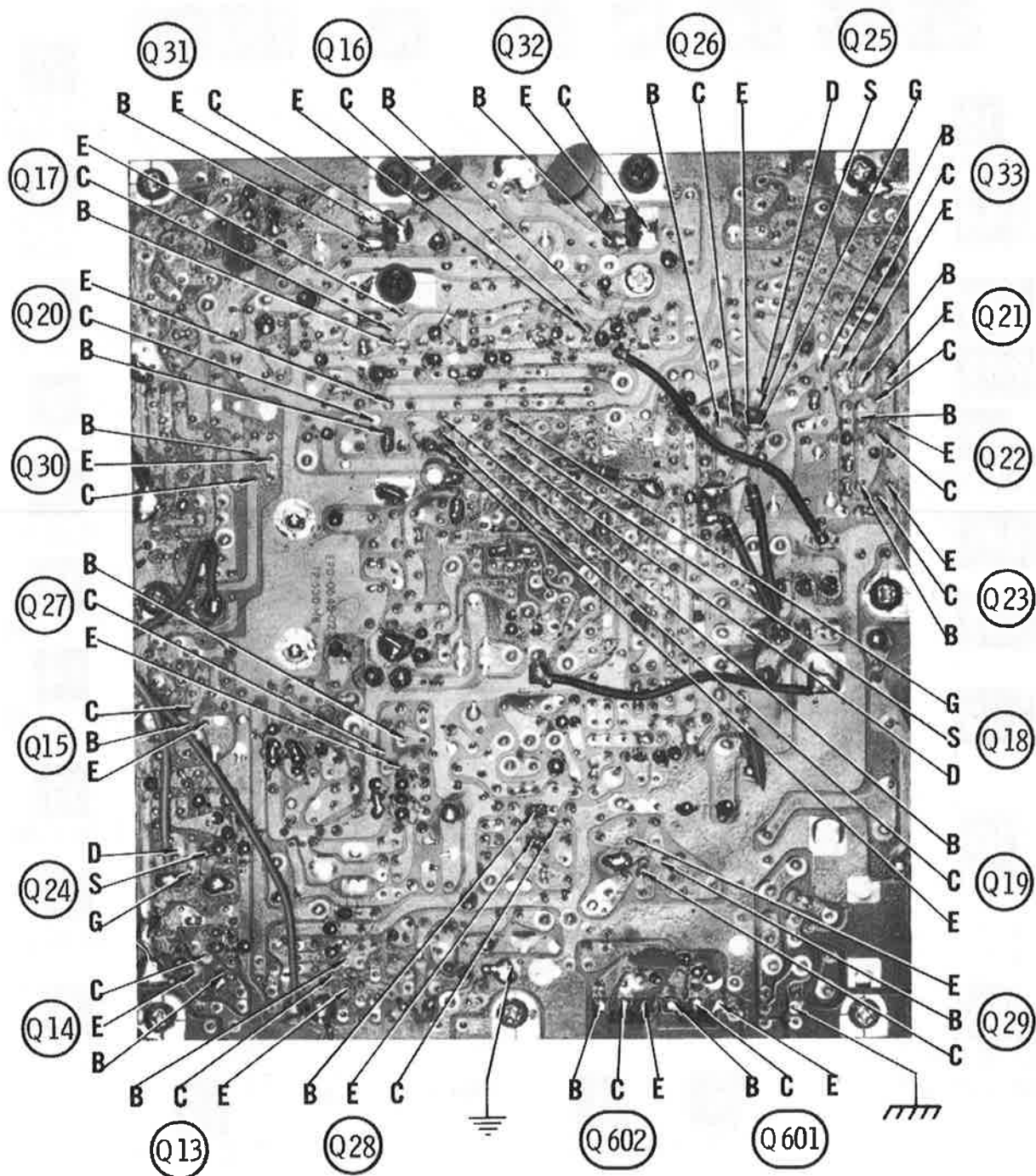
CHASSIS - BOTTOM



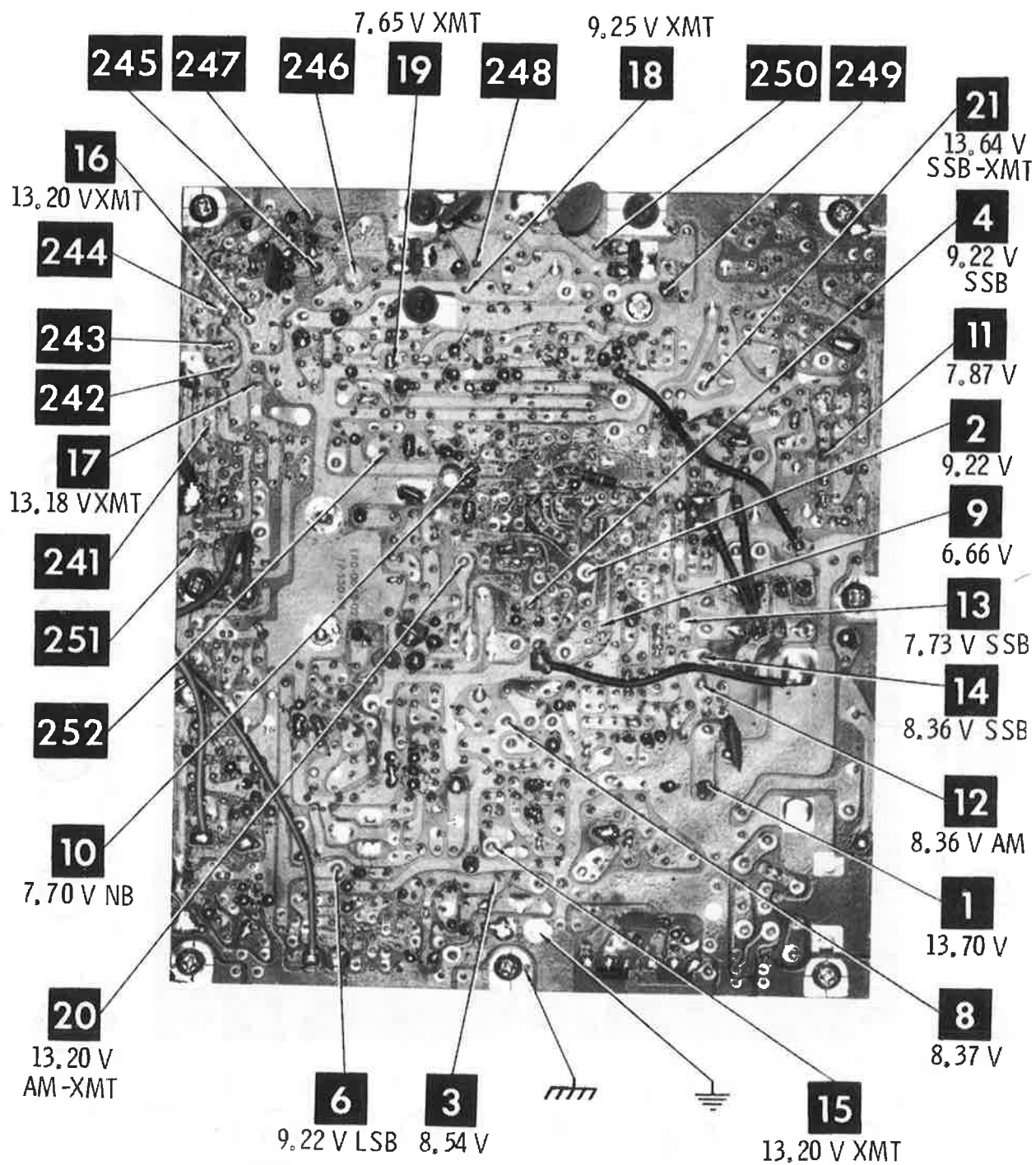
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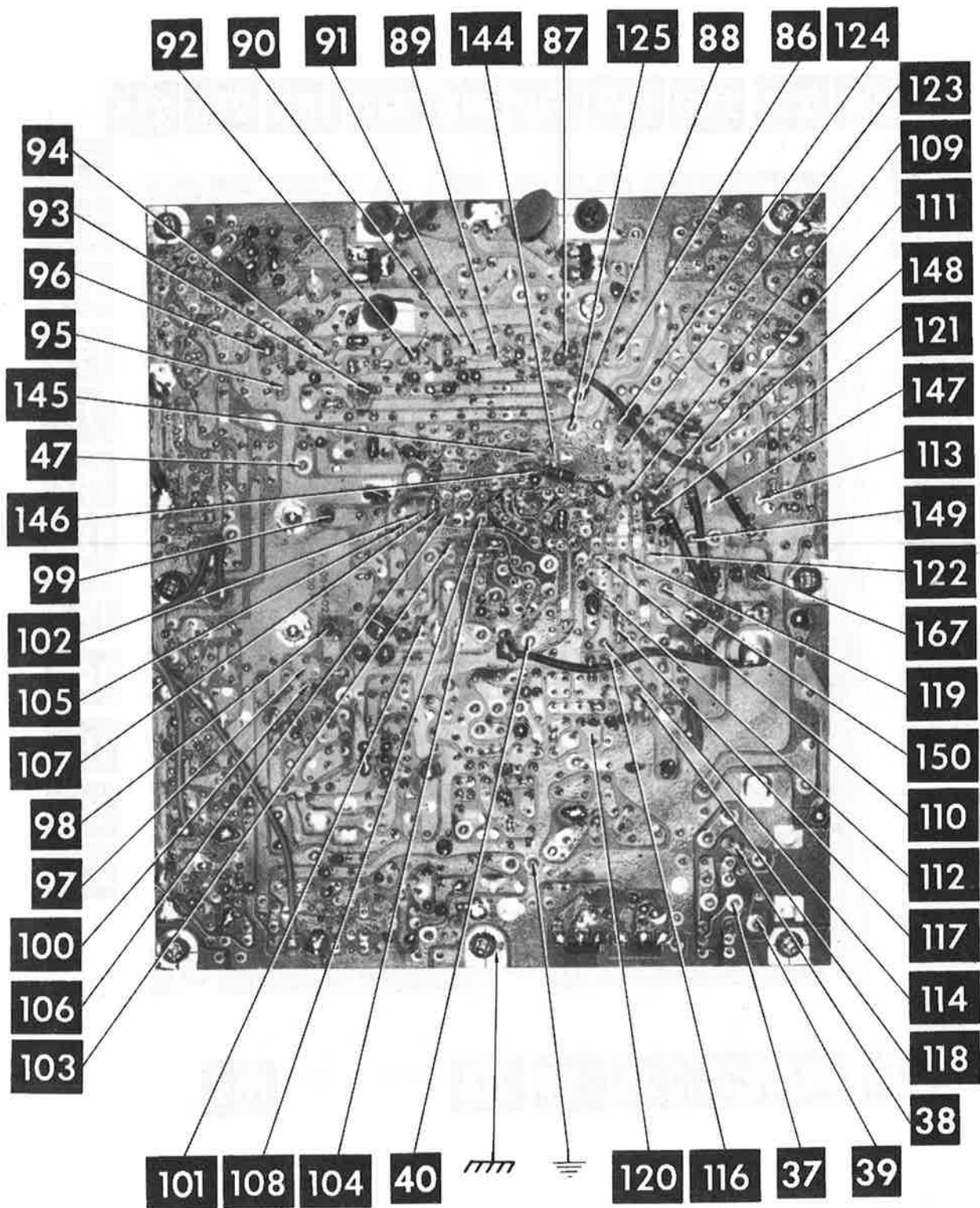
MAIN BOARD



MAIN BOARD

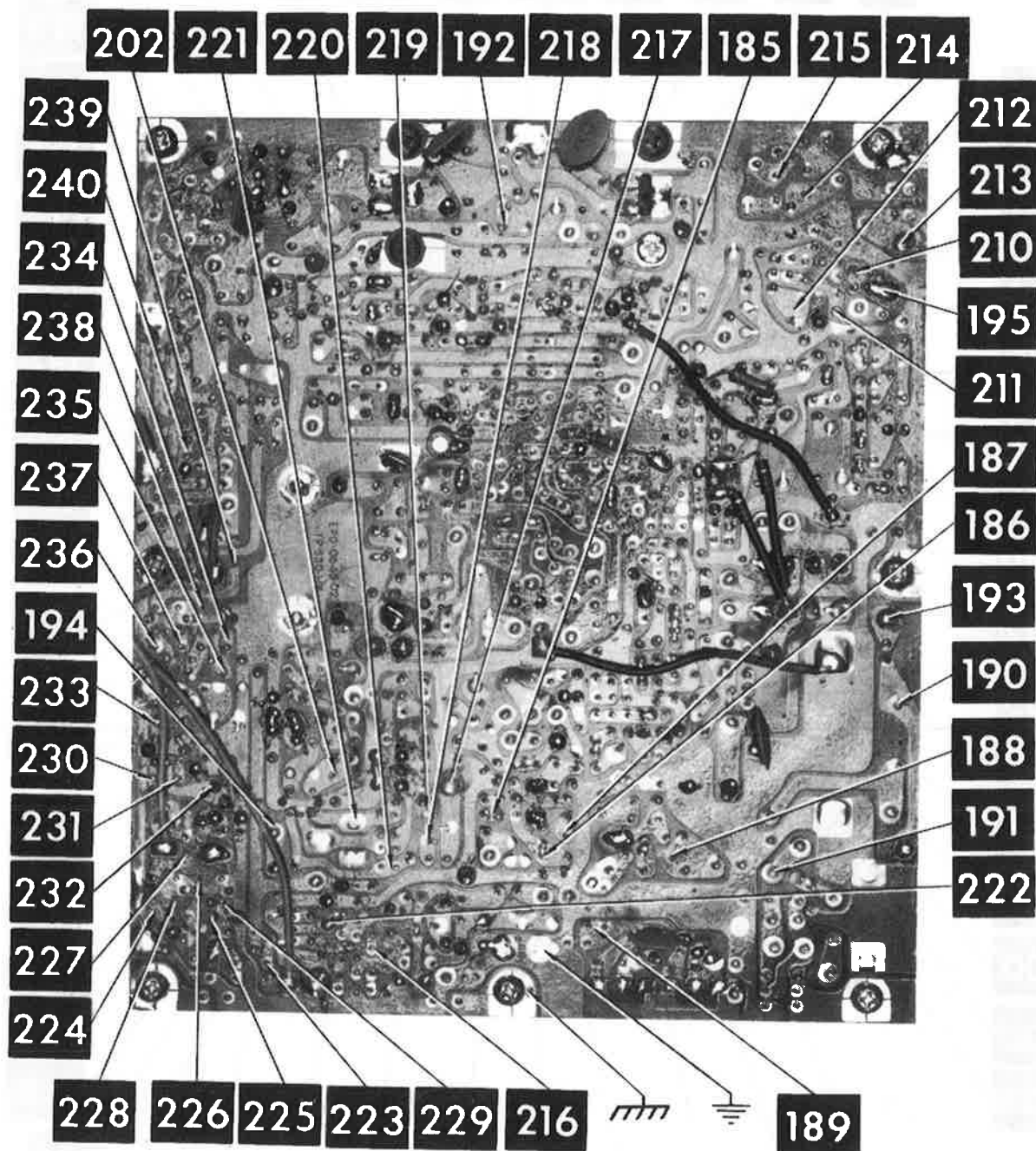


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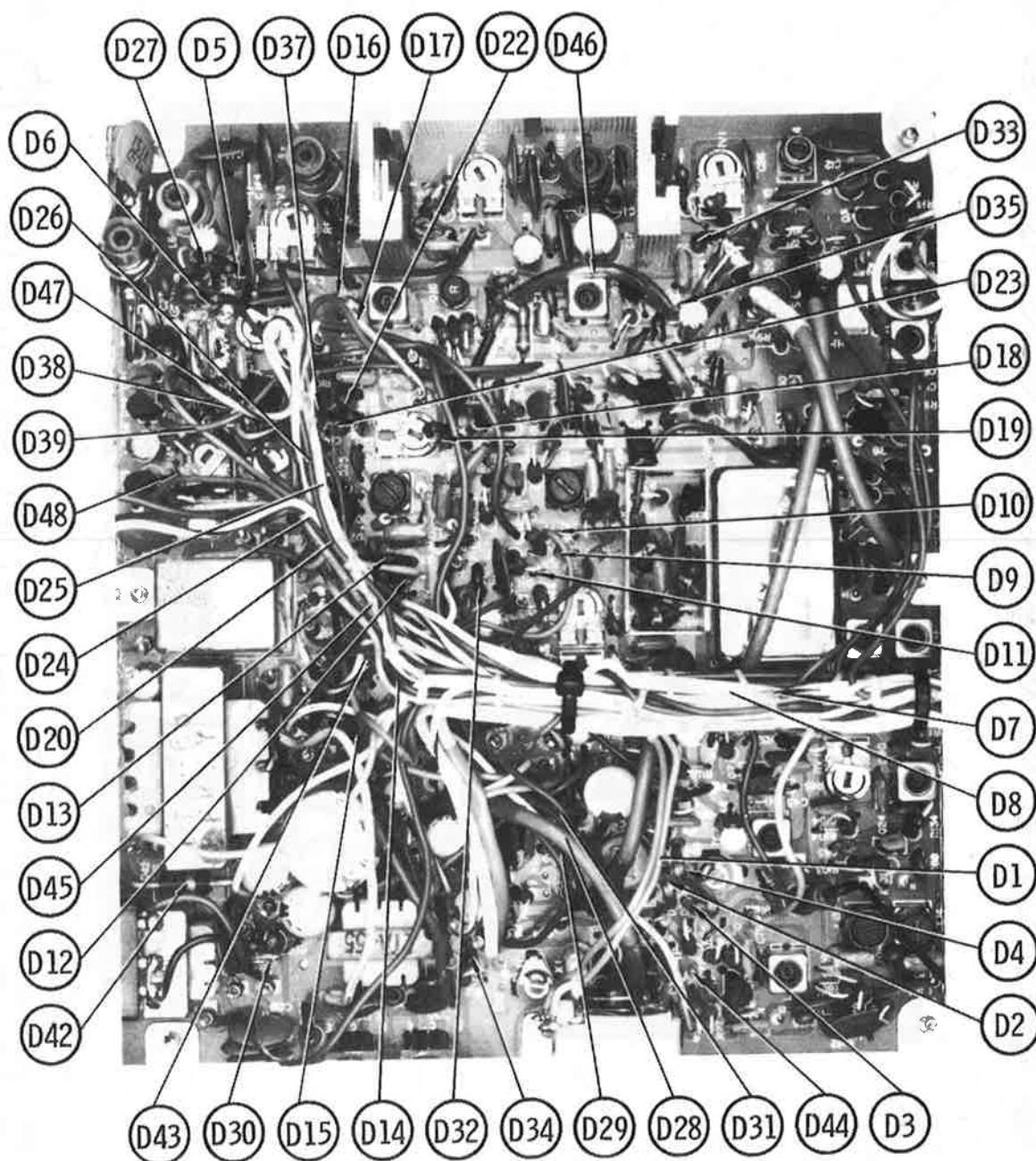


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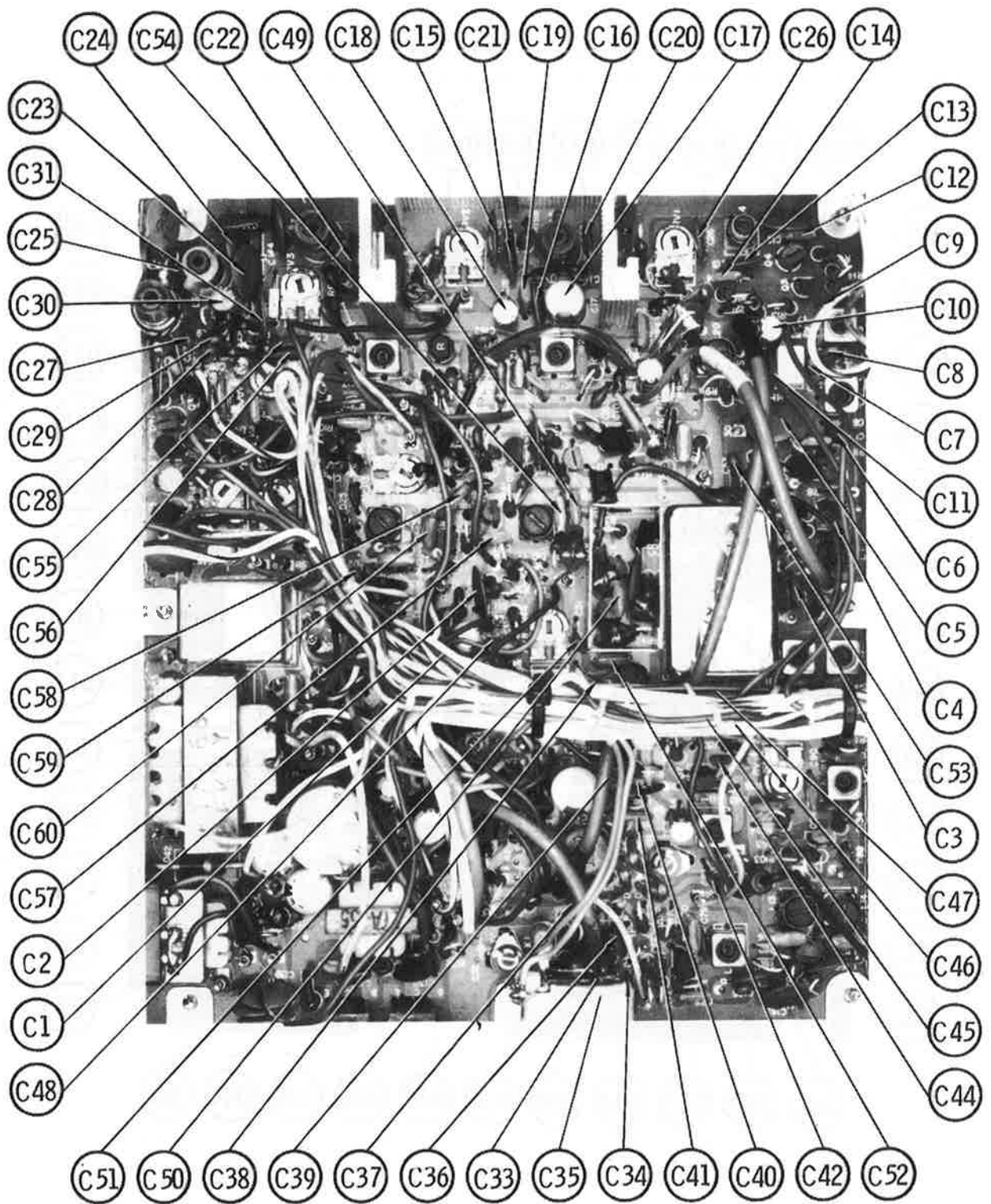
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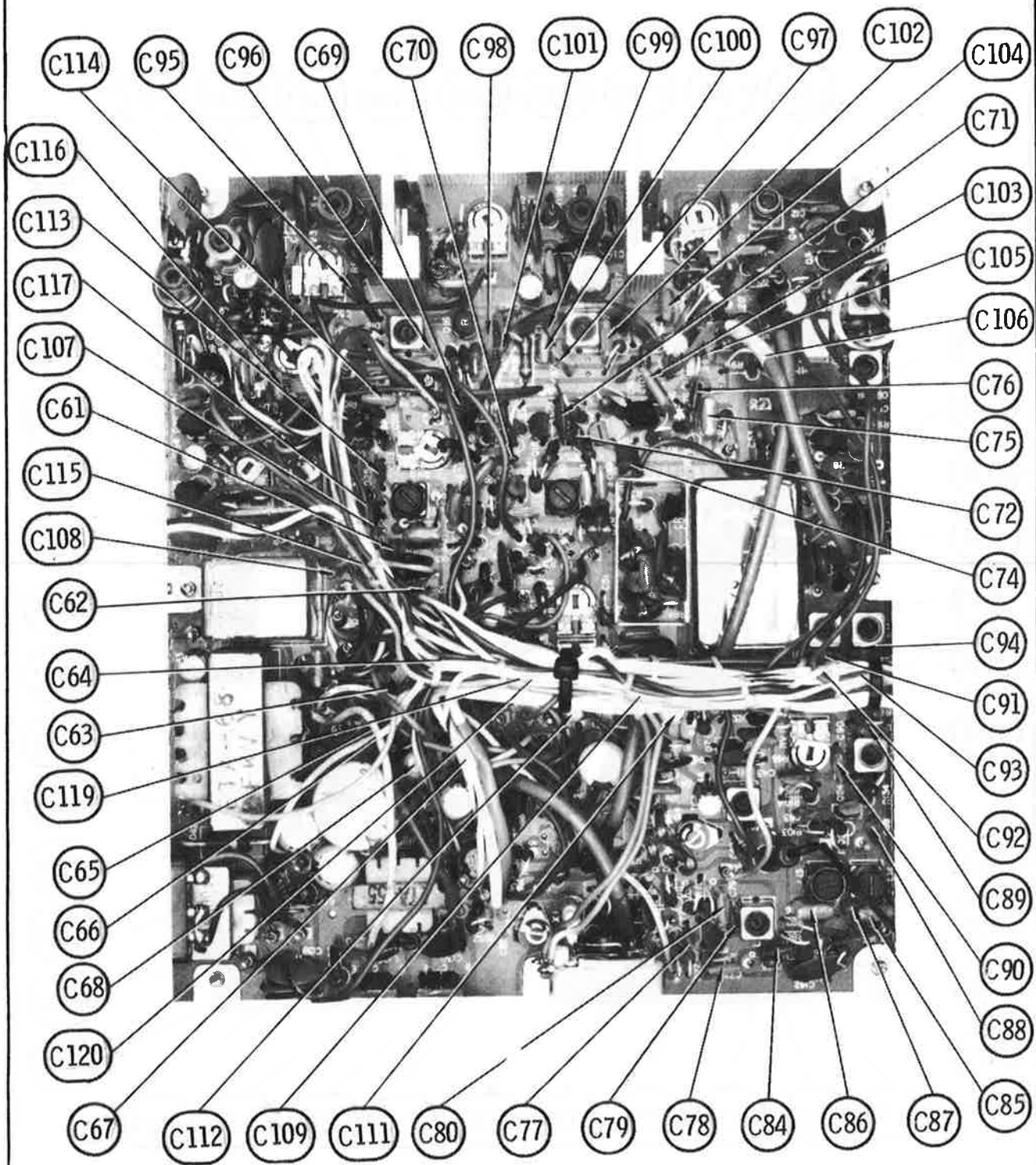
MAIN BOARD



MAIN BOARD

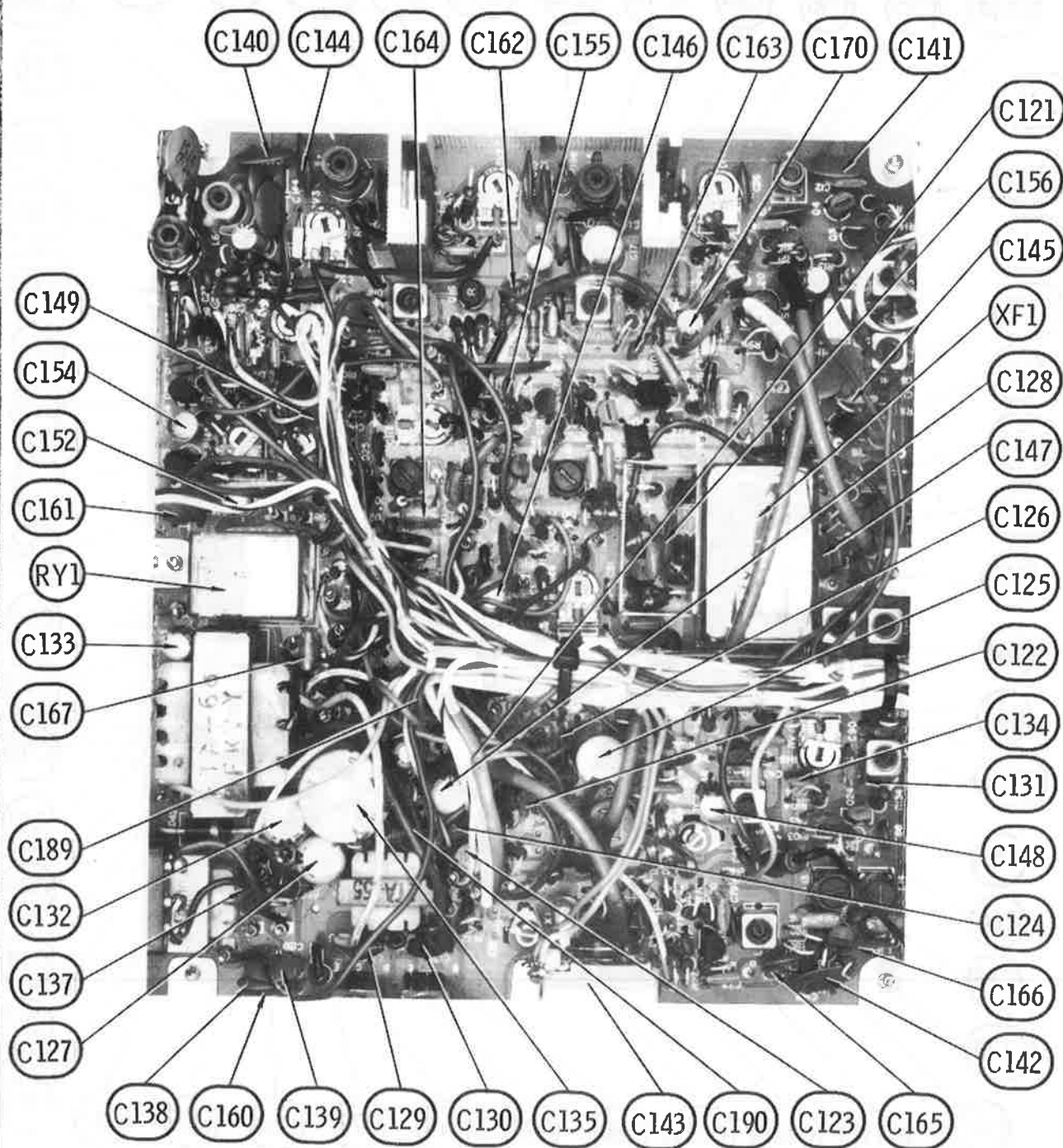


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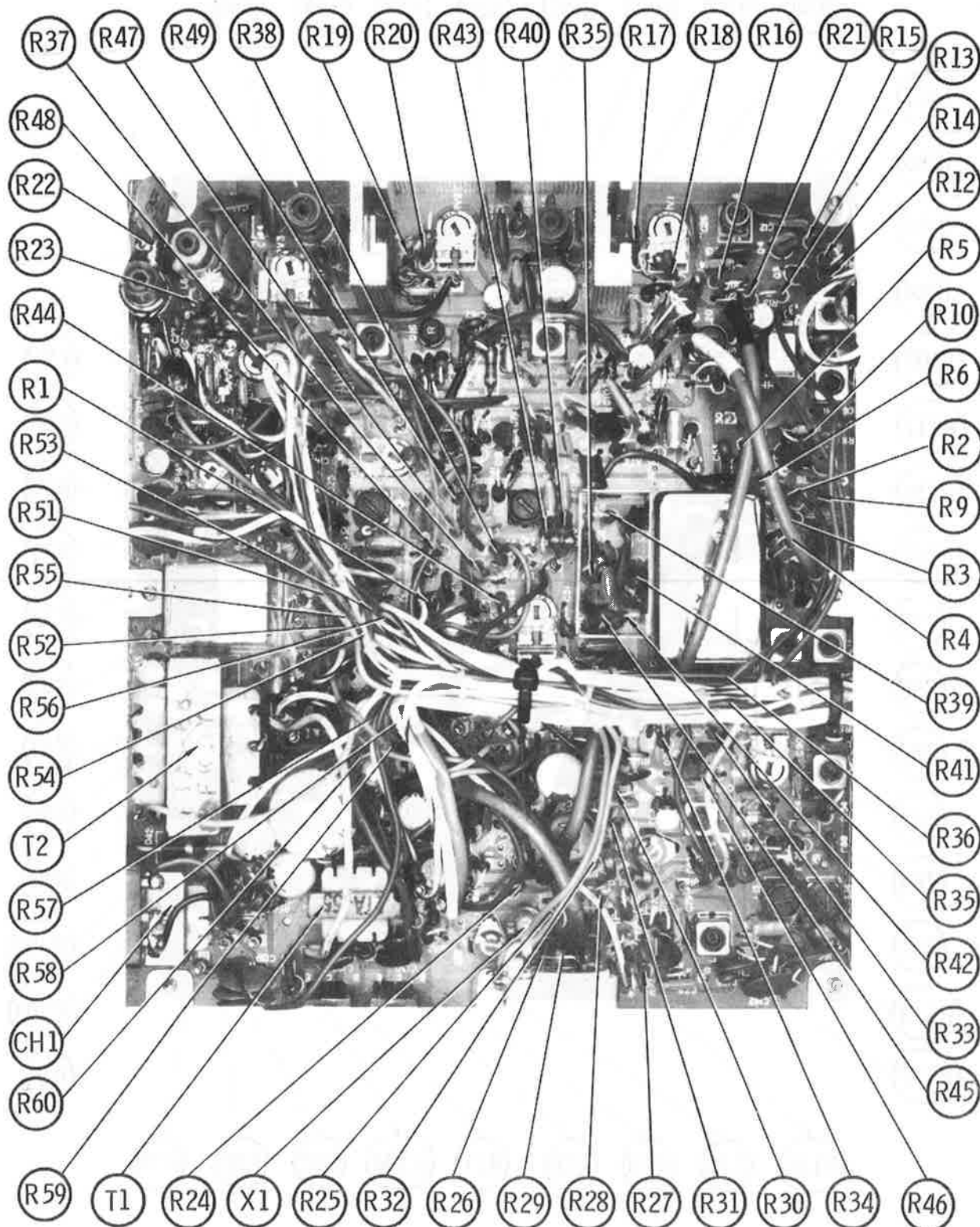


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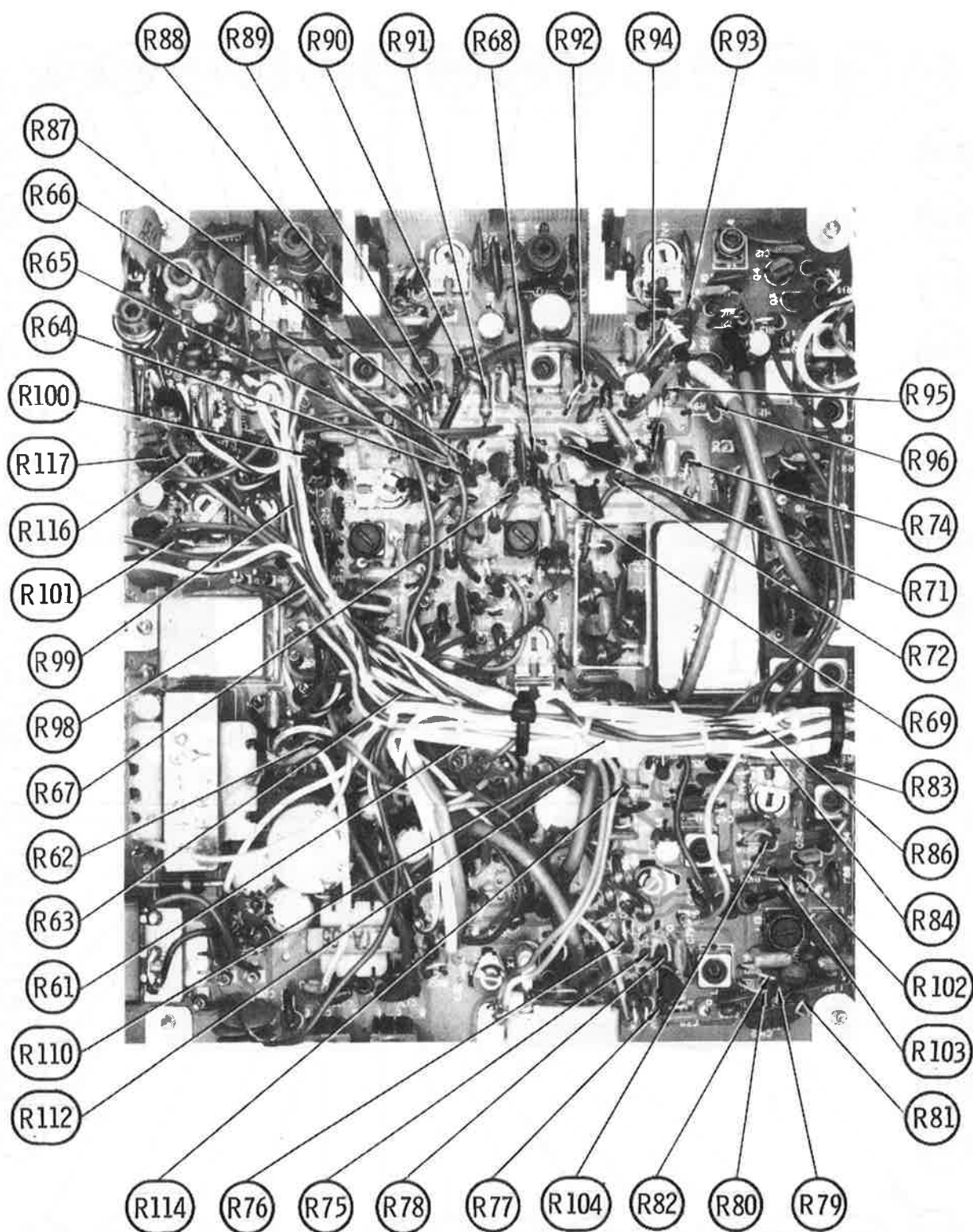
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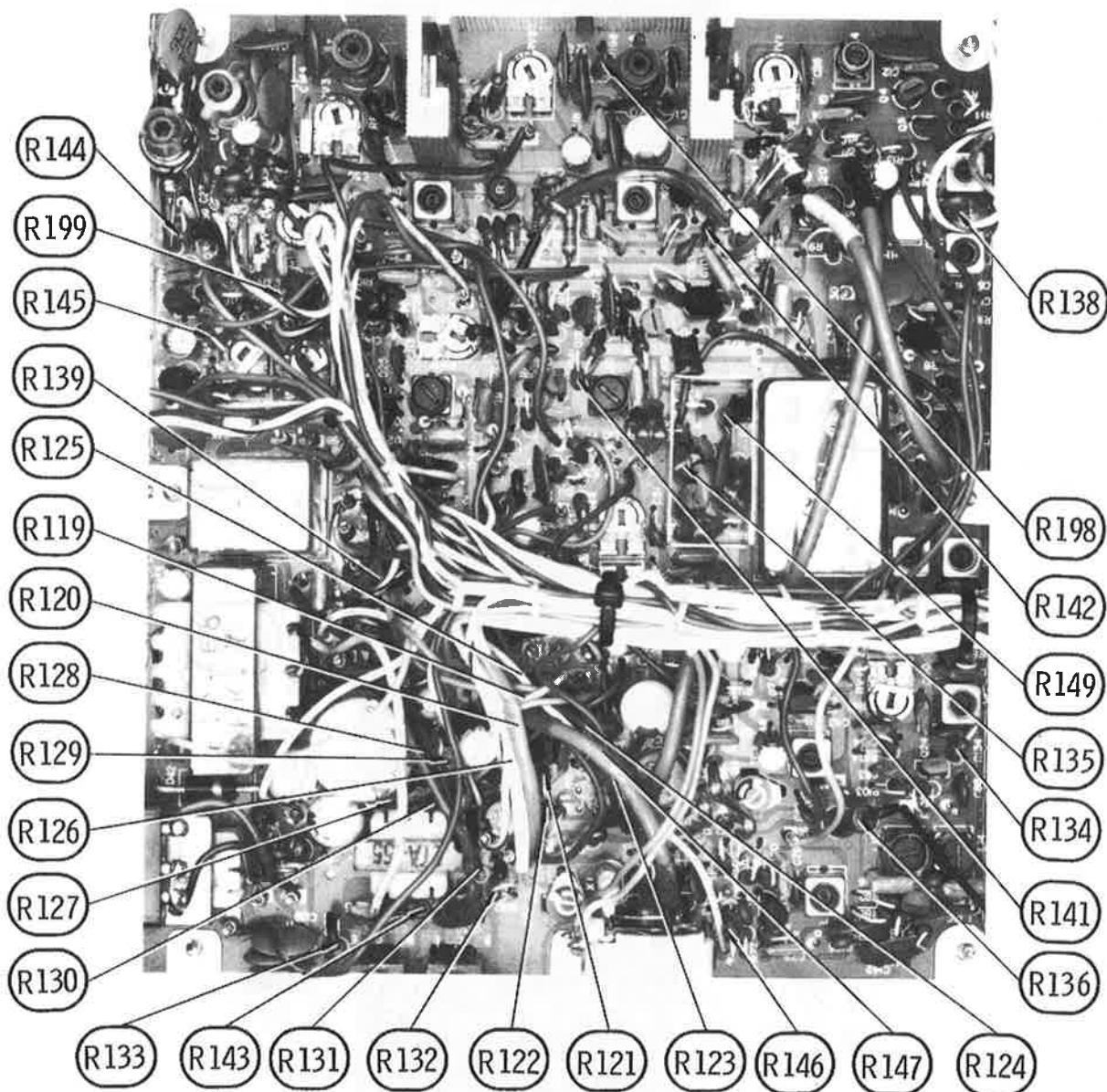
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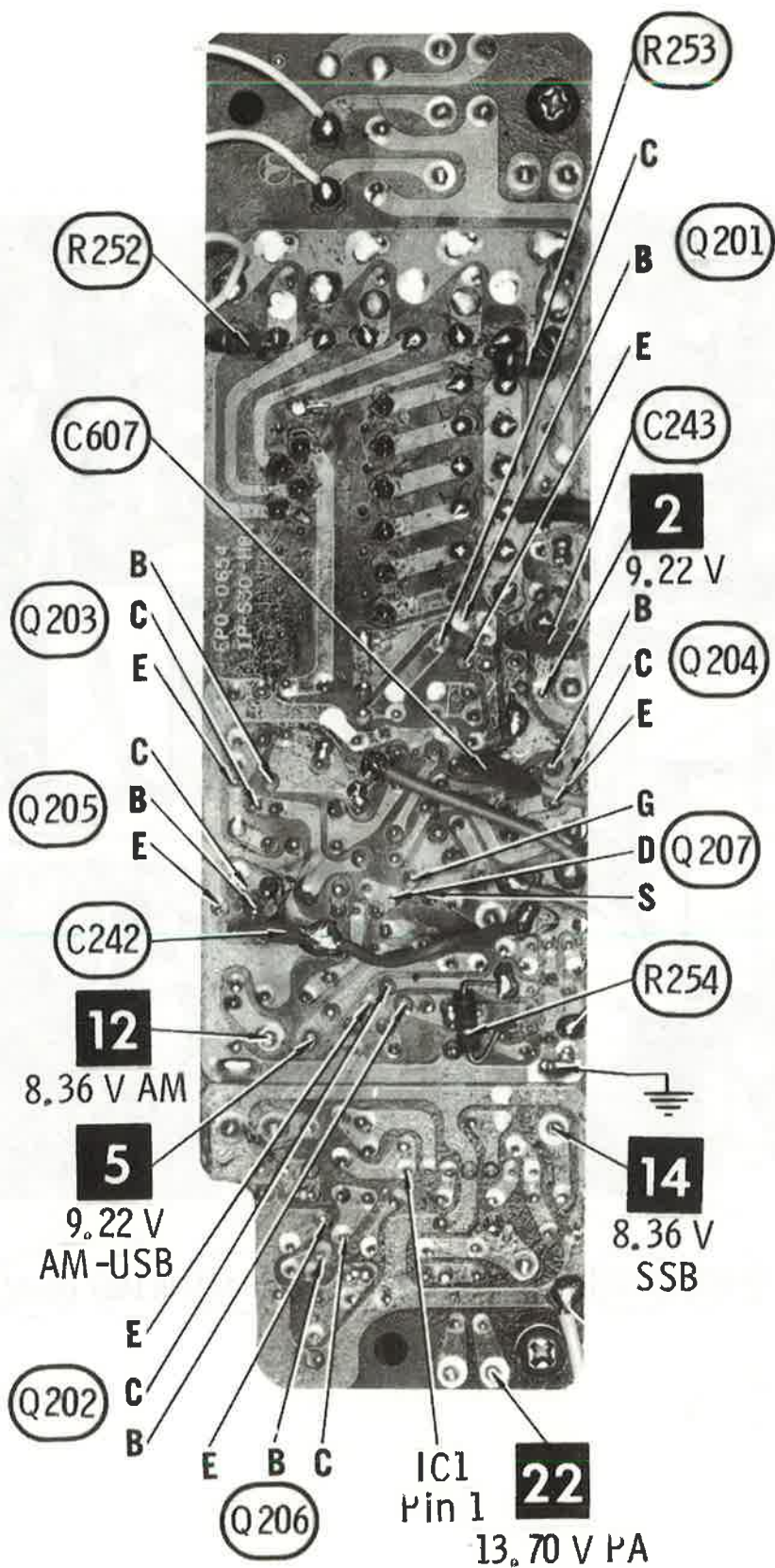
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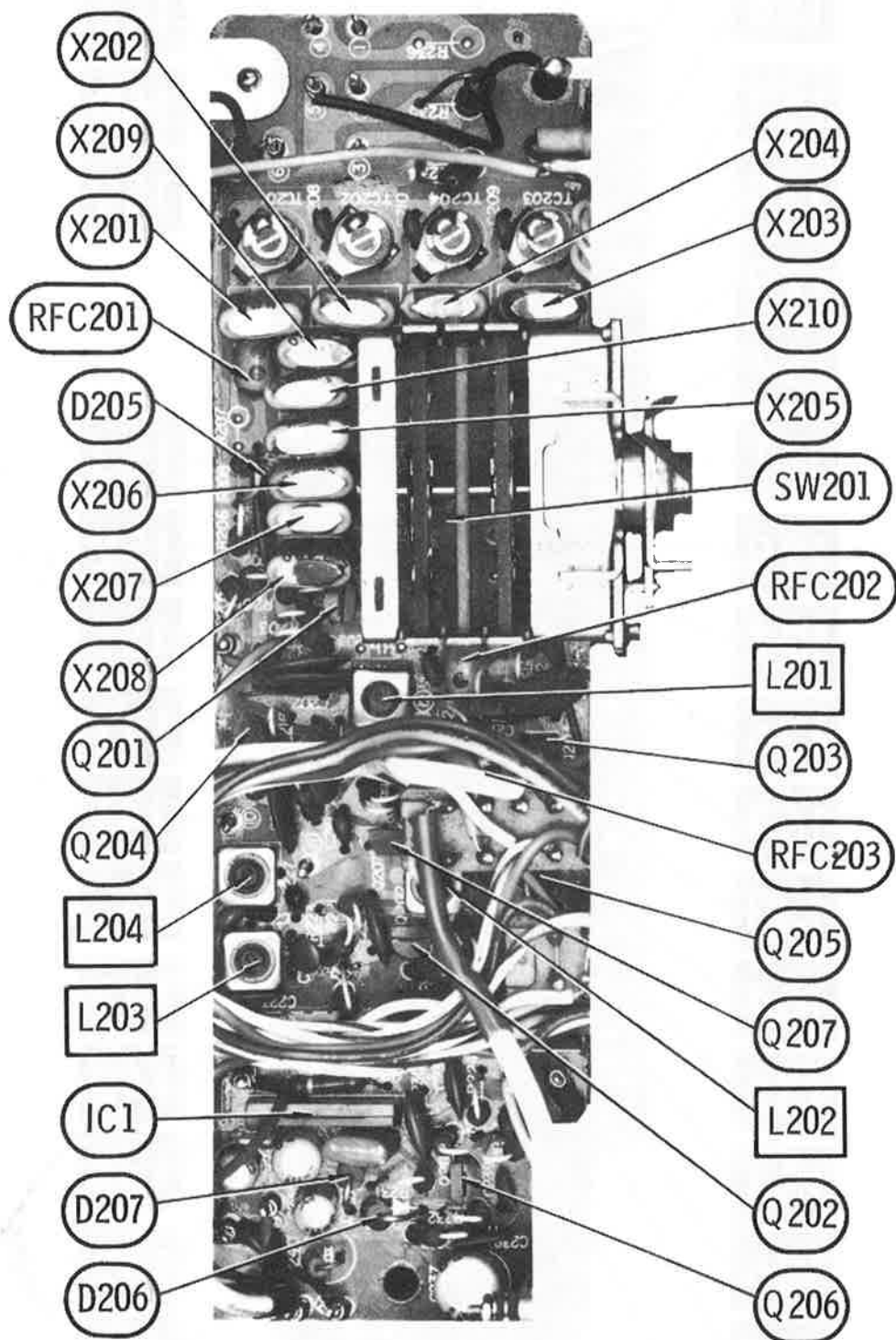
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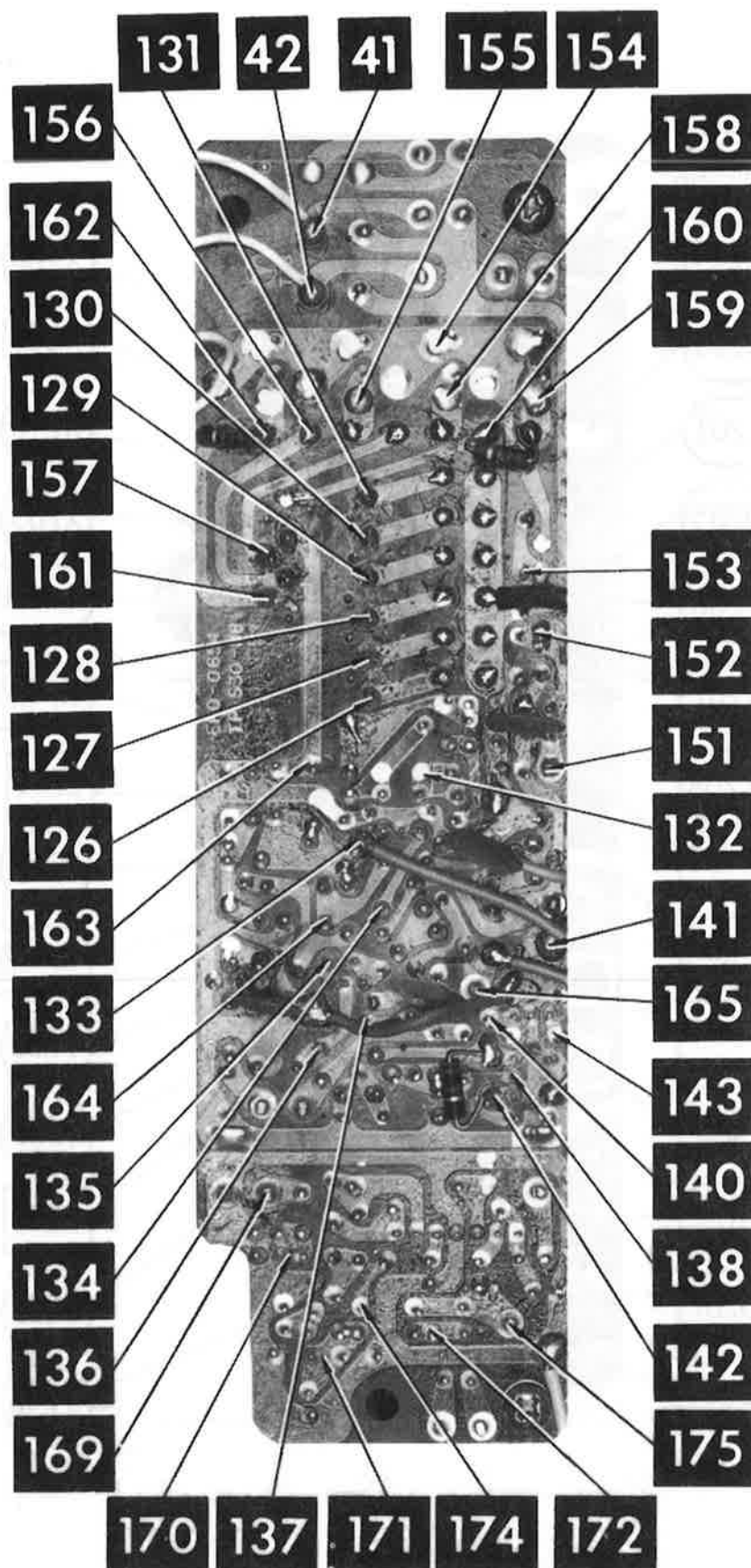
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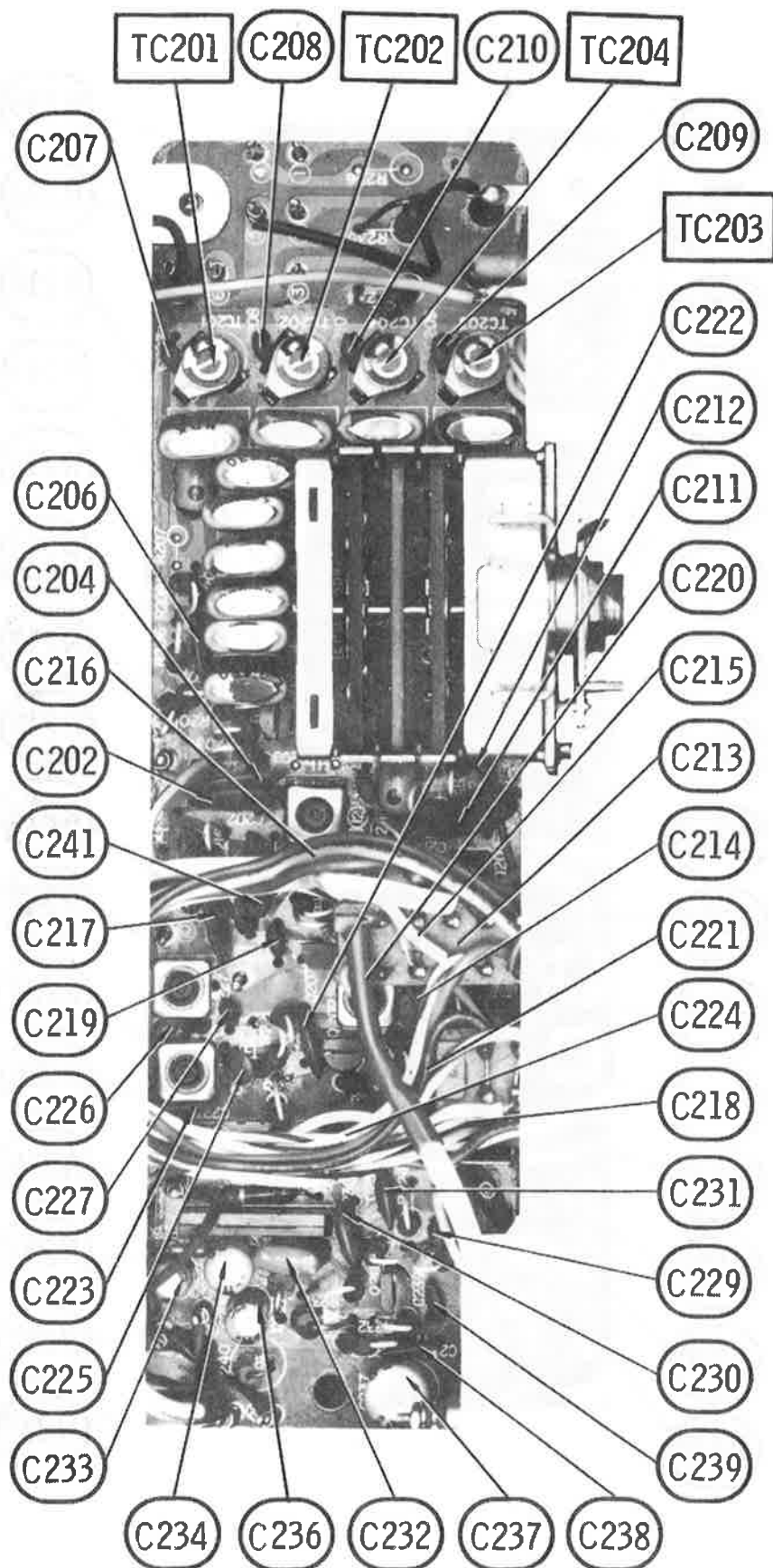
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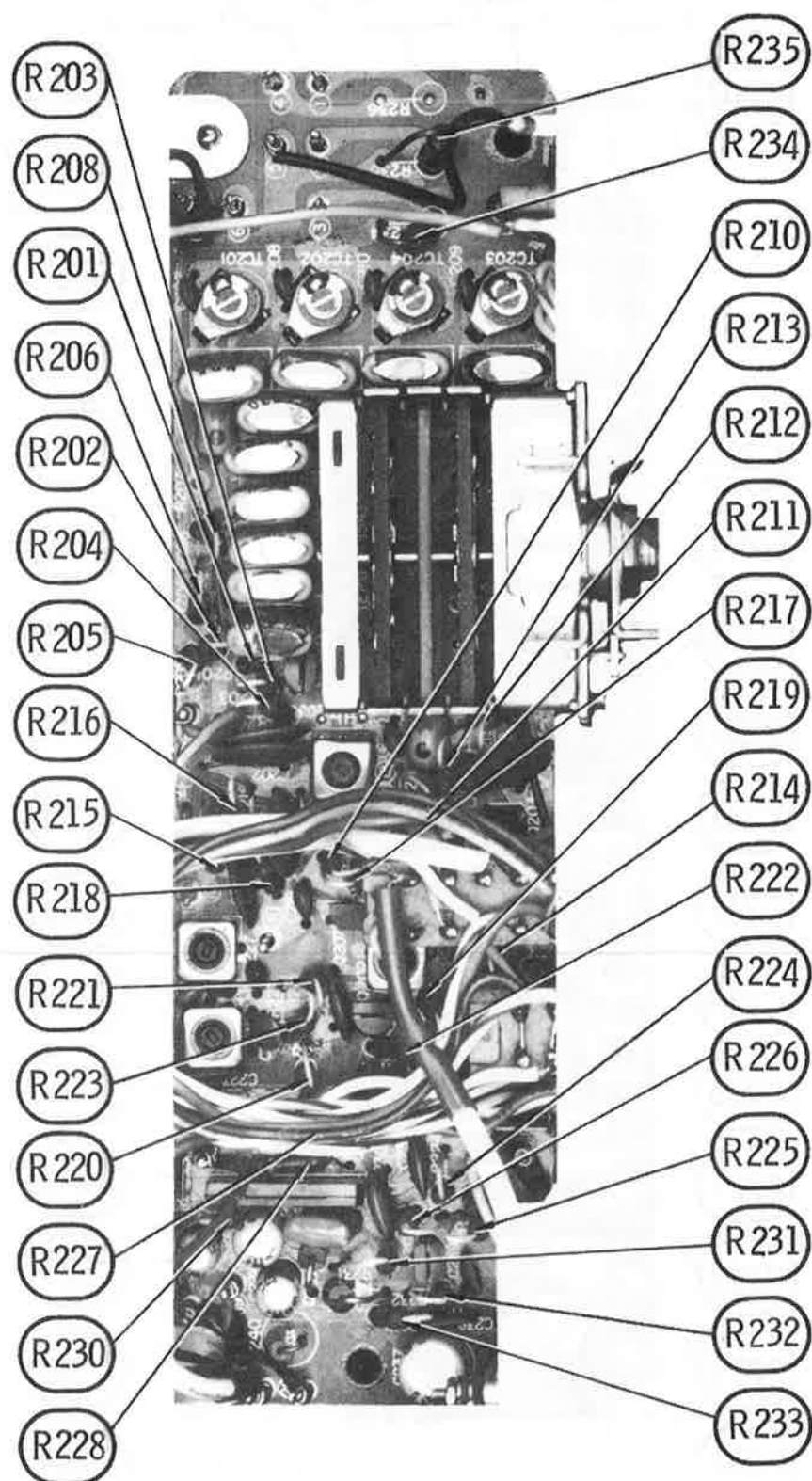
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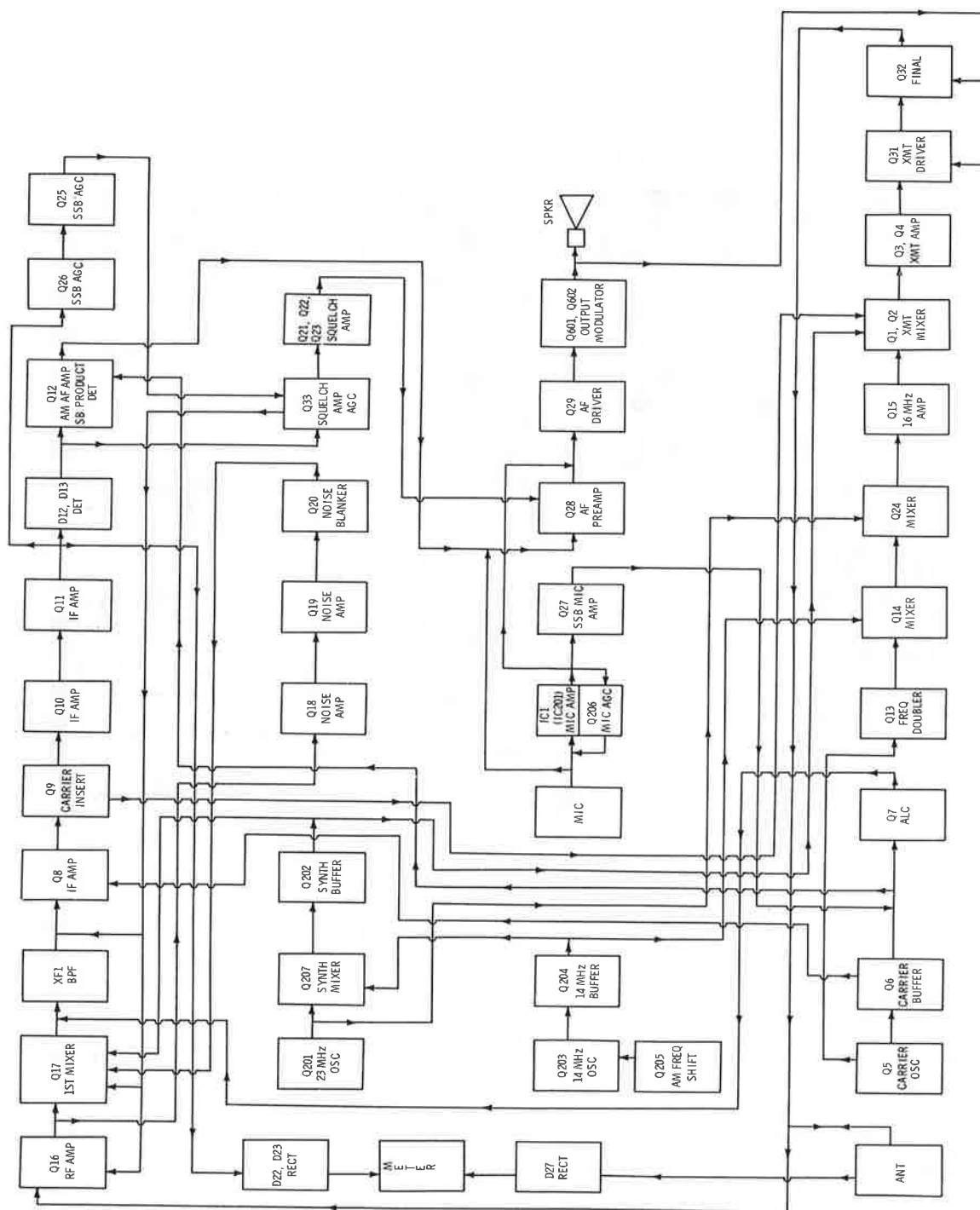
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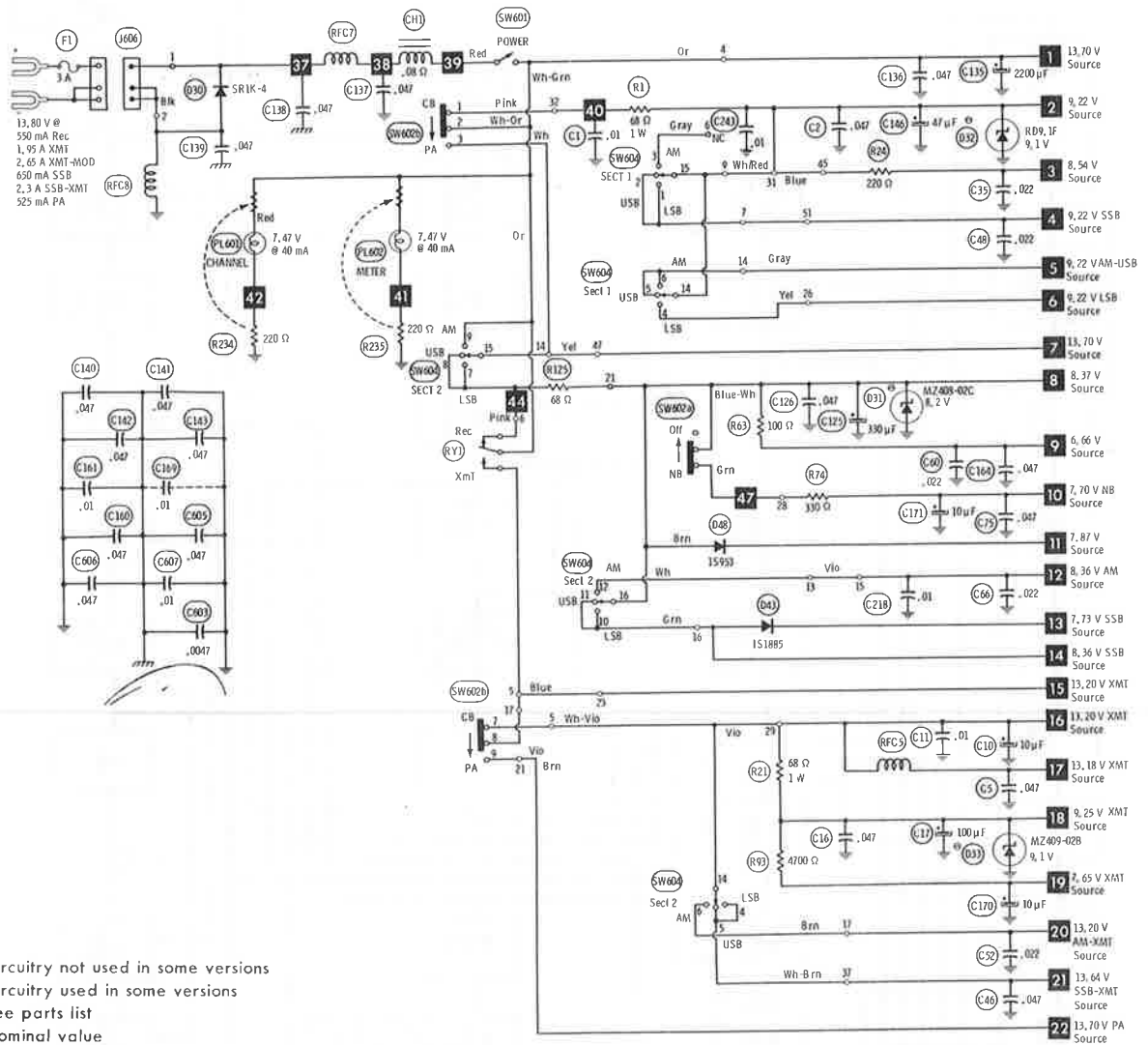
SYNTH BOARD



SYNTH BOARD



BLOCK DIAGRAM



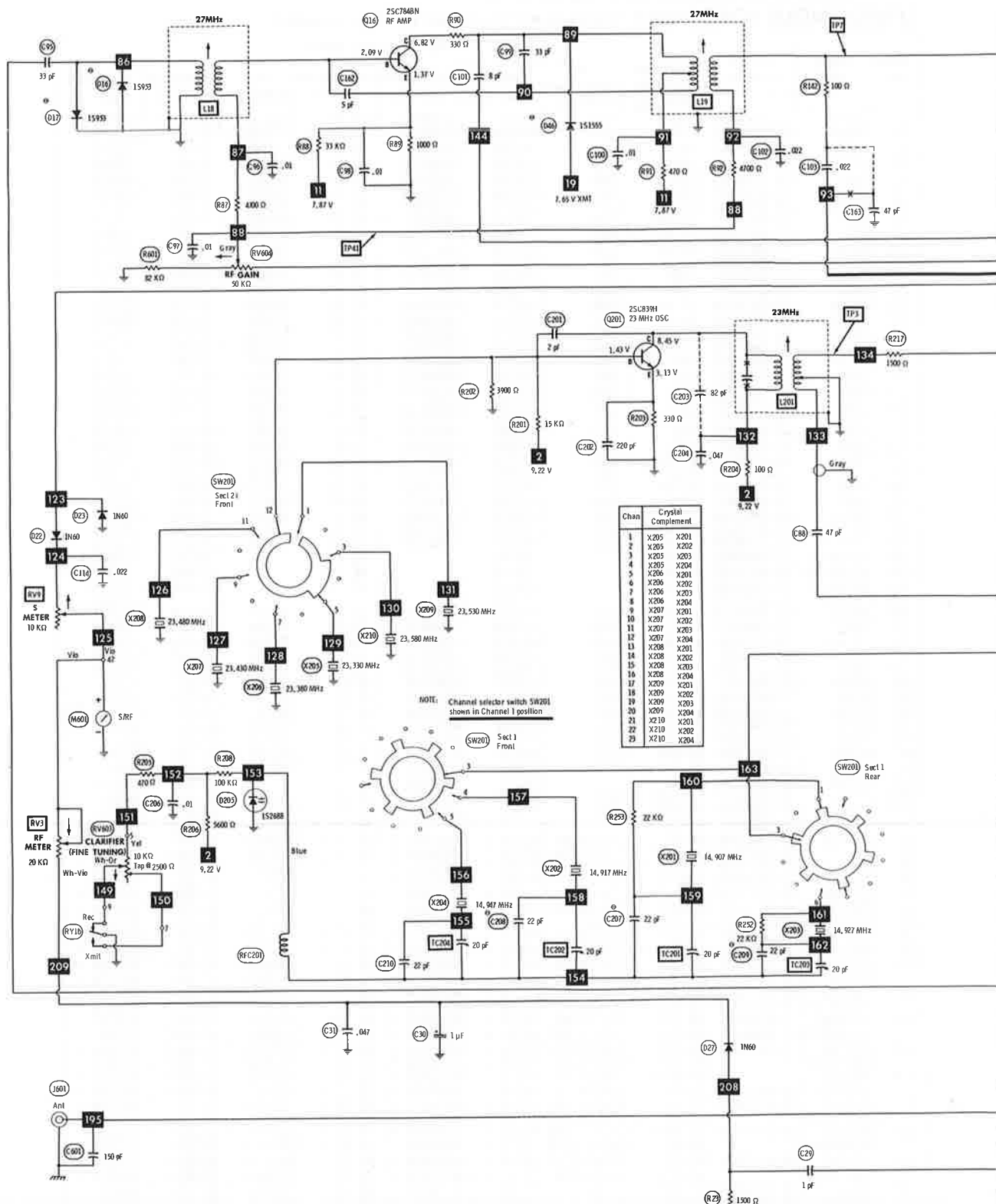
PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	1N60P	QD-G1N60PXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D2	1N60P	QD-G1N60PXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D3	1N60P	QD-G1N60PXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D4	1N60P	QD-G1N60PXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D5	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D6	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D7	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D8	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D9	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D10	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D11	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D12	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D13	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D14	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D14	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D15	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D16	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D17	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D18	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D19	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D20	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D21	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D22	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D23	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D24	1S953	QD-S1S953XA	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D25	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D26	1S953	QD-S1S953XA	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D27	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D28	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D29	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D30	SP1K-4	QD-SSR1KX4P	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D31	MZ408-02C	QD-ZMZ408CE	GEZD-8.2		ZB8.2B		RE 112		RT-257	ECG5072A
D32	MZ409-02B	QD-ZMZ409BE	GEZD-9.1		ZB9.1B		RE 114		RT-240	ECG139A
D33	MZ409-02B	QD-ZMZ409BE	GEZD-9.1		ZB9.1B		RE 114		RT-240	ECG139A
D34	VD1120	QV-BD11225A			PTC301					ECG605
D35	MA140	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D36	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D37	1S1953	QD-S1S953XA	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D38	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D39	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D42	1N5401	QD-SN5401Z	GE-512	R350	PTC204	HEPR0092	RE 92	SK3051	RT-201	ECG156
D43	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D44	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D45	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D46	1S555	QD-S1S555XT	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D47	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D48	MA150	QD-SMA150XN	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D205	1S2688	QD-CS2688DJ	GE-90		PTC311	HEPR2503			RT-262	ECG614
D206	1S1885	QD-331885XT	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D207	1S1885	QD-331885XT	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
IC201	UPC566H	QD-MM566AA	GEIC-135				RE 327-IC	SK3249	TYCM-82	ECG1052
Q1	2SC839H	QT-C0839XBA	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q2	2SC839H	QT-C0839XBA	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q3	2SC710D	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132 *	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q4	BC546	QT-CBC546AA	GEIC-61 *	TR-24	PTC121	HEPS0015 *	RE 13 *	SK3015	RT-308	ECG123A *
Q5	2SC839H	QT-C0839XBA	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q6	2SC710D	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132 *	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q7	2SK23A-540	QT-K0023AA5	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q8	2SC710D	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132 *	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q9	2SC710D	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132 *	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q10	2SC710D	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132 *	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q11	2SC710D (1)	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132 *	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q12	2SC710D (1)	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132 *	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q12	2SC945P	QT-C0954AAA	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q13	2SC945P (1)	QT-C0954AAA	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q13	2SC710C	QT-C0710XAE	GE-211 *	(IR)2SC710	PTC132 *	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q14	2SC710D (1)	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132 *	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q14	2SC710D (1)	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132 *	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q15	2SC710C (1)	QT-C0716XAE	GE-211 *	(IR)2SC710	PTC132 *	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q15	2SC710C	QT-C0710XAE	GE-211 *	(IR)2SC710	PTC132 *	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q16	2SC710D (1)	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132 *	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q16	2SC784R	QT-C0784XBT	GE-60 *	(IR)2SC380A	PTC132 *	HEPS0008 *	RE 28 *	SK3018 *	RT-187	ECG229 *
Q17	2SC784BN (1)	QT-C0784XBT	GE-60 *	(IR)2SC380A	PTC132 *	HEPS0008 *	RE 28 *	SK3018 *	RT-187	ECG229 *
Q17	2SC710C	QT-C0710XAE	GE-211 *	(IR)2SC710	PTC132 *	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q18	2SC710D (1)	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132 *	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q18	2SK33E	QT-K0033XBE	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q19	2SA733Q	QT-A0733XAA	GE-48	TR-31	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-303	ECG294
Q20	2SC763	QT-C0763XDA	GE-61 *	(IR)2SC710	PTC132 *	HEPS0020 *	RE 10 *	SK3018 *	RT-309	ECG108 *
Q20	2SC763D (1)	QT-C0763XDA	GE-61 *	(IR)2SC710	PTC132 *	HEPS0020 *	RE 10 *	SK3018 *	RT-309	ECG108 *
Q21	2SC945A	QT-C0945AAA	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q21	2SC945P	QT-C0945AAA	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q22	2SC945A	QT-C0945AAA	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q22	2SC945P (1)	QT-C0945AAA	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q23	2SC945P	QT-C0945AAA	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q24	2SB23A-540	QT-K0023AAA	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q25	2SK33F	QT-K0033XAE	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q26	2SC945A	QT-C0945AAA	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q26	2SC945P (1)	QT-C0945AAA	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q27	2SC945A	QT-C0945AAA	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q27	2SC945P (1)	QT-C0945AAA	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199

KRACO MODEL KCB-2340



* Circuitry not used in some versions
 --- Circuitry used in some versions
 Ⓢ See parts list
 * Nominal value
 Ⓢ Ground
 Chassis
 ▽ Common tie point
 A PHOTOFACT STANDARD NOTATION SCHEMATIC
 WITH **CIRCUITRACE**
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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.



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

				REPLACEMENT DATA
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* Lead configuration may vary from original.

- (1) Used in some versions.
- (13) 12 WATTS @ 3 AMPS.
- (14) 25 WATTS @ 8 AMPS.

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(1) Used in some versions.

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

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(When ordering parts, state Model, P

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* Not normally in distributor
(1) Used in some versions.

KRACO MODEL KCB-2340

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

	SPRAGUE PART No.	SYLVANIA PART No.
RT-107A RT-107A RT-107A RT-308 *	ECG199 ECG199 ECG199 ECG123A *	ECG235
RT-158	ECG236	
RT-303 RT-308 RT-308 RT-308 RT-308 *	ECG294 ECG229 * ECG229 * ECG229 * ECG123A *	
RT-308 *	ECG123A *	
RT-302 RT-175 RT-197 RT-166 RT-166	ECG199 ECG312 ECG186 ECG186A ECG186A	
RT-197 RT-166	ECG186 ECG186A	
RT-166	ECG186A	

SPRAGUE PART No.	
Q-LINE	GENERAL LINE
1-41	EV-1222
1-93	EV-1130
1-23	EV-1318
1-11	EV-1615
	SD35-19
1-27	EV-1319
1-61	EV-1125
1-11	EV-1615
1-63	EV-1325
1-11	EV-1615
	SD35-19
1-3	EV-1610
1-3	EV-1610
1-73	EV-1226
1-131	EV-1145
1-95	EV-1230
1-93	EV-1130
1-95	EV-1230
1-63	EV-1325
1-643	TVA-1175.3
1-73	EV-1226
1-23	EV-1318
DT1-2	SD50-R109
1-23	EV-1318
1-11	EV-1615
1-41	EV-1222
1-41	EV-1222
1-41	EV-1222
1-61	EV-1125
1-11	EV-1615
1-41	EV-1222
1-93	EV-1130
1-63	EV-1325

SPRAGUE PART No.	
Q-LINE	GENERAL LINE
QF1-91	1PB-S10 HY-735 10TCP-Q68
QF1-127	1PB-S22 HY-735 10TCP-Q39 10TCP-Q15 10TCP-Q39
QF1-91	1PB-S10

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
C12	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C13	100 N150 50V	CC-DB101KPM					10TCP-T10
C14	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C15	.047 50V		UK25-503		MAG2515		HY-735
C16	.047 50V		UK25-503		MAG2515		HY-735
C19	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C20	68 N150 50V	CC-DB680KPM			*		10TCP-Q68
C21	150 N150 50V	CC-DB151KPM			*		10TCP-T15
C22	.047 50V		UK25-503		MAG2515		HY-735
C23	220 N150 50V	CC-DB221KPM			*		10TCP-T22
C24	100 N150 50V	CC-DB101KPM			*		10TCP-T10
C25	330 50V		DD-331	GP330	GP333		10TS-T33
C26	330 50V		DD-331	GP330	GP333		10TS-T33
C27	15 N150 50V	CC-DB150KPM			*		10TCP-Q15
C28	.5 50V	CC-DB0R5COM					
C29	1 50V				CN0510		10TCC-V10
C31	.047 50V		UK25-503		MAG2515		HY-735
C33	.001 50V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C34	68 N150 50V	CC-DB680KPM			*		10TCP-Q68
C35	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C36	150 50V		DD-151		GP315		10TS-T15
C37	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C38	22 N150 50V	CC-DB220KPM			*		10TCP-Q68
C40	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C41	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C42	10 N150 50V	CC-DB100FPM			*		10TCP-Q10
C44	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C45	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C46	.047 50V			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C47	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C48	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C49	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C50	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C51	22 N150 50V	CC-DB220KPM			*		10TCP-Q22
C52	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C53	3 N150 50V	CC-DB030CPM			*		10TCP-V30
C54	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C55	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C56	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C57	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C58	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C59	5 N150 50V	CC-DB050CPM			*		10TCP-V50
C60	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C61	22 N150 50V	CC-DB220KPM			*		10TCP-Q22
C62	.001 50V			DPMS6D1	EWFA1A210	QF1-1	1PB-D10
C63	.0047 50V			WMF1D47	EWFA1A247	QF1-57	1PB-D47
C65	.001 50V			DPMS6D1	EWFA1A210	QF1-1	1PB-D10
C66	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C67	22 N150	CC-DB220KPM			*		10TCP-Q22
C69	.0047 50V			WMF1D47	EWFA1A247	QF1-57	1PB-D47
C70	.001 50V			DPMS6D1	EWFA1A210	QF1-1	1PB-D10
C71	.047 50V		UK25-503		MAG2515		HY-735
C72	.0047 50V			WMF1D47	EWFA1A247	QF1-57	1PB-D47
C74	.0047 50V			WMF1D47	EWFA1A247	QF1-57	1PB-D47
C75	.047 50V			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C76	.001 50V			DPMS6D1	EWFA1A210	QF1-1	1PB-D10
C77	2 N150 50V	CC-DB020CPM			*		10TCP-V22
C78	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C79	56 N150 50V	CC-DB560KPM			*		10TCP-Q56
C80	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C83	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C84	100 N150 50V	CC-DB101KPM			*		10TCP-T10
C85	.047 50V			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C86	.047 50V			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C87	4 N150 50V	CC-DB040DPM			*		10TCP-V39
C88	47 N150 50V	CC-DB470KPM			*		10TCP-Q47
C89	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C90	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C91	39 N150 50V	CC-DB390KPM			*		10TCP-Q47
C92	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C93	2 N150 50V	CC-DB020CPM			*		10TCP-V22
C94	47 N150 50V	CC-DB470KPM			*		10TCP-Q47
C95	33 N150 50V	CC-DB330KPM			*		10TCP-Q47
C96	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C97	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C98	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C99	33 N150 50V	CC-DB330KPM			*		10TCP-Q33
C100	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C101	8 N150 50V	CC-DB080CPM			*		10TCP-V82
C102	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C103	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C104	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C105	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C106	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C107	2 N150 50V	CC-DB030CPM			*		10TCP-V33

KRACO MODEL KCB-2340

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
C108	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C113	100 50V	CC-DB101KPM	DD-101	GP100	GP310		10TS-T10
C114	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C116	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C117	47 N150 50V	CC-DB470KPM			*		10TCP-Q47
C120	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C122	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C124	.1 50V			DPMS2P1	EWFA1A010	QF1-215	1PB-P10
C126	.047 50V				MAG2515		HY-735
C129	.033 50V				EWFA1A110		6PS-S33
C130	.033 50V				EWFA1A110		6PS-S33
C131	39 N150 50V	CC-DB390KPM			EWFA1A110	QF1-91	10TCP-Q39
C134	.01 50V			WMF1S1	EWFA1A110		1PB-S10
C136	.047 50V		UK25-503		MAG2515		HY-735
C137	.047 50V		UK25-503		MAG2515		HY-735
C138	.047 50V		UK25-503		MAG2515		HY-735
C139	.047 50V		UK25-503		MAG2515		HY-735
C140	.047 50V		UK25-503		MAG2515		HY-735
C141	.047 50V		UK25-503		MAG2515		HY-735
C142	.047 50V		UK25-503		MAG2515		HY-735
C143	.047 50V		UK25-503		MAG2515		HY-735
C144	180 N150 50V	CC-DB181KPM			*		10TCP-T18
C145	.01 50V			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C147	68 N150 50V	CC-DB680KPM			*		10TCP-Q68
C155	100 N150 50V	CC-DB101KPM			*		10TCP-T10
C156	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C160	.047 50V		UK25-503		MAG2515		HY-735
C161	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C162	5 N150 50V	CC-DB050CPM			*		10TCP-V50
C163	47 N150 50V	CC-DB470KPM			*		10TCP-Q47
C164	.047 50V				DPMS2S47		1PB-S47
C165	10 N150 50V	CC-DB100FPM			*		10TCP-Q10
C167	.047 50V				EWFA1A147	QF1-171	1PB-S47
C168	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C169	.01 50V		DC-103	WMF1S1	EWFA1A110	QF1-91	1PB-S10
C189	27 N150 50V	CC-DB270KPM			*		10TCP-Q27
C190	33 N150 50V	CC-DB330KPM			*		10TCP-Q33
C201	2 N150 50V	CC-DB020CPM			*		10TCP-V22
C202	220 N150 50V	CC-DB221KPM			*		10TCP-T22
C204	.047 50V				*		10TCP-Q22
C206	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C207	22 N150 50V	CC-DB220KPM			*		10TCP-Q22
C208	22 N150 50V	CC-DB220KPM			*		10TCP-Q22
C209	22 N150 50V	CC-DB220KPM			*		10TCP-Q22
C210	22 N150 50V	CC-DB220KPM			*		10TCP-Q22
C211	220 N150 50V	CC-DB221KPM			*		10TCP-T22
C212	22 N150 50V	CC-DB220KPM			*		10TCP-Q22
C213	15 N150 50V	CC-DB150KPM			*		10TCP-Q15
C214	120 N150 50V	CC-DB121KPM			*		10TCP-T12
C215	68 N150 50V	CC-DB680KPM			*		10TCP-Q68
C216	68 N150 50V	CC-DB680KPM			*		10TCP-Q68
C217	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C218	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C219	10 N150 50V	CC-DB100FPM			*		10TCP-Q10
C220	15 50V	CC-DB150KPM			*		10TCP-Q15
C221	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C222	100 N150 50V	CC-DB101KPM			*		10TCP-T10

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	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
RV1	Bias	1000	RP-GNB10202	T-2500 (2)	C-252 (2)	MTC252L1 (2)	X201R252B (2)
RV2	Bias	500	RP-GNB50101				
RV3	RF Meter	20K	RP-GNB20302				
RV4	Carrier Balance	330	RP-JNB33101				
RV5	ALC	10K	RP-GNB10302				
RV6	SSS AGC	5000	RP-DNB50201				
RV7	AM Mic Gain	20K	RP-GNB20302				
RV8	SSB Mic Gain	20K	RP-GNB20302				
RV9	S Meter	10K	RP-GNB10302				
RV10	AM AGC	100K	RP-GNB10402				
RV11	LSB Gain	1000	RP-GNB10202				
RV12	Squelch Range	50K	RP-GNB50302				
RV601	Volume/Switch	10K	RV-NB103X01	F1-10K (1), SSK014	NP-10K-S (1), UP-B-400	RU14L,SL36, SL1500	BU1 (1),CF9, SS1,DC1
RV602	Squelch	10K	RV-NA103C07				
RV603	Clarifier	10K	RV-NA103K01	F1-50K (1), SSK014	NP-50-S (1), UP-B-400	RU54L,SL36, SL1500	BU1 (1),CF12, SS1,DC1
RV604	RF Gain	50K	RV-NA503B06				
RV605	AM Power	10 10W	RW-VA100B01				

(1) Enlarge mounting hole.

(2) Cut off one of the end terminals and bend to fit PC board.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Xmit Oscillator (11.275MHz)	TR-07MA004T			
L2	Xmit Mixer (27MHz)	TR-07CN004T			
L3	Xmit Mixer (27MHz)	TR-07CN005T			
L4	Xmit Amp (27MHz)	TR-07CP010S			
L5	Xmit Driver (27MHz)	TX-A5CZ004M			
L6	Pi Filter (27MHz)	TR-A5CZ005M			
L7	Final (27MHz)	TR-A5CZ004M			
L9	Carrier Buffer	TR-07DP003T			
L10	IF (11.275MHz)	TR-07MA004T			
L11	IF (11.275MHz)	TR-07MA005T			
L12	Frequency Doubler (23MHz)	TR-07DN001T			
L13	Mixer (7MHz)	TR-07DA002T			
L14	Mixer (7MHz)	TR-07DA002T			
L15	Mixer (16MHz)	TR-07DN003T			
L16	16MHz Amp (16MHz)	TR-07DN003T			
L17	16MHz Amp (16MHz)	TR-07DN003T			
L18	Rec Antenna (27MHz)	TR-07MP005T			
L19	Rec RF (27MHz)	TR-07CN003T			
L20	IF (11.27MHz)	TR-07MB005T			
L201	Synth Oscillator (23MHz)	TR-07DM001S			
L202	Synth Mixer (38MHz)	TR-07HN001T			
L203	Synth Buffer (38MHz)	TR-07NN001T			
L204	Synth Buffer (38MHz)	TR-07NN001T			
L601	Antenna Match (27MHz)	LG-BLG5004A			
RFC1	RF Choke (2uH)	LD-ADA3038J			
RFC2	RF Choke (1uH)	LF-102B01S			
RFC3	RF Choke (.8uH)	LD-ADB4024B			
RFC5	RF Choke (2.2uH)	LF-2R2KD01N			
RFC6	RF Choke (68uH)	LF-180KD01N			
RFC7	RF Choke (68uH)	LB-AEC3808A			
RFC8	RF Choke (68uH)	LB-AEC3808A			
RFC9	RF Choke (.8uH)	LD-ADB4024B			
RFC201	RF Choke (4.7uH)	LF-4R7JA01S			
RFC202	RF Choke (2.7uH)	LF-2R7JA01S			
RFC203	RF Choke (2uH)	LF-020JA01S			

KRACO MODEL KCB-2340

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.	
CH1	2.25A	.24	3.72mH	LJ-119H004W			

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	1.5	1		TA-Y19A001W ETA-55 (1)	TR667		(1) Number on unit.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	23	8	TB-637B0014 ETA-68 (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP601	3" PM 8 Ohms	ZQ-A0770802	30A05Z8L	

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	3Amp		AC-DC037ULA	AGC3	HDJ	312003	150745	FG3-2	

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA							
	MFGR. PART No.	GC PART No.	GC NOISE CANCEL	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black	
MIC	ZG-AAZ50103	18-032	18-034	18-010	18-092	1	2	4	3	NC	2	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CR1	Component Combination	CR-B103A01K	Antenna
J601	Jack	YJ-C02S067Z	PA
J602	Jack	YJ-T03S003Z	External Speaker
J603	Jack	YJ-T03S003Z	Microphone
J604	Jack	YJ-Z04S003Z	Power
J605	Jack	YJ-B02S001U	S/RF
M601	Meter	ZM-J2036N05	Channel
PL601	Lamp	ZP-A064101U	Meter
PL602	Lamp	ZP-A064101U	Rec/Xmit
RY1	Relay	ZR-A236102Z	Channel Selector
SW201	Switch	XR-042405H	Power (Part of Volume Control)
SW601	Switch		CB-PA
SW602	Switch	SP-02CAX04A	ANL-NB
SW603	Switch	SP-02CAX04A	AM-USB-LED
SW604	Switch	SR-0803204E	11.275MHz
X1	Crystal	XA-Z1A7001T	14.907MHz
X201	Crystal	XA-S1A7001T	14.917MHz
X202	Crystal	XA-S1A7002T	14.927MHz
X203	Crystal	XA-S1A7003T	14.947MHz
X204	Crystal	XA-S1A2004T	23.330MHz
X205	Crystal	XA-S1A8001T	23.380MHz
X206	Crystal	XA-S1A8002T	23.430MHz
X207	Crystal	XA-S1A8003T	23.480MHz
X208	Crystal	XA-S1A8004T	23.530MHz
X209	Crystal	XA-S1A8005T	23.580MHz
X210	Crystal	XA-S1A8006T	11.2735MHz
XF1	Crystal Filter	FF-11R2S02A	Main Synthesizer
	Printed Circuit Board	AP-TBM034EA	
	Printed Circuit Board	AP-TSY007CA	

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

ITEM	PART No.	ITEM	PART No.
Knob, Channel	AV-KNOB018	Cabinet Bottom	MU-883SX001
Knob, Control	VN-210SB001	Mounting Bracket	MU-864SB001
Knob, Switch	VN-276SP007	Microphone Holder	MZ-331SN001
Cabinet Top	MU-886SX003		

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')