

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 3-5825A

MANUFACTURER'S SPECIFICATIONS

GENERAL

CHANNELS: AM-40 channels - PLL digital logic channel synthesizer circuitry, SSB-80

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

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

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; 94mm (3½ inches) in size.

CONTROLS/FEATURES: Volume with ON-OFF switch, Squelch, CB/PA switch, R.F. Gain control, Channel selector switch, Tone switch, Noise blanker + ANL switch, AM/SSB switch, Clarifier control, LED type channel readout, Large TX (transmit) light, Antenna warning light, S-RF meter (receive-transmit)

CONNECTORS: External speaker jack 3.5mm (8 ohms impedance), S0239 type antenna receptacle to match PL-259 coax plug (50 ohms impedance), PA Speaker Jack 3.5mm (8 ohms impedance), 12 Volt DC power jack, separate power cable that allows easy disconnect, MIC Jack.

DIMENSIONS: 7½" W, 2½" H, 10⅞" D.

RECEIVER

SENSITIVITY: Better than 0.5uV for 500 MW audio output at MIN Squelch setting.

CLARIFIER: ±600Hz MIN.

FREQUENCY COVERAGE: 26.965 to 27.405 MHz, 40 channels AM and SSB 80 channels.

ADJACENT CHANNEL SELECTIVITY: Better than 50db.

SPURIOUS REJECTION: Better than 40db.

IF FREQUENCIES: SSB; 10.695 MHz, AM; 1st; 10.695 MHz, 2nd; 0.455 MHz.

SQUELCH RANGE: 0.5uV to 5000uV

TRANSMITTER

FREQUENCY RESPONSE: 400Hz to 2.5kHz.

FREQUENCY COVERAGE: 26.965 to 27.405 Mhz; 40 channels, AM and SSB 80 channels

TRANSMIT POWER OUTPUT: 4 watts maximum as limited by FCC Regulations at 13.8 Volts DC. (PEP 12 watts max SSB)

MODULATION: Capable of 100% factory pre-set limit.

FREQUENCY TOLERANCE: Better than .005% MAX.

ADJACENT CHANNEL SELECTIVITY: MIN. 50dB at ±10 KHz.

Courtesy of the Manufacturer

GENERAL ELECTRIC MODEL 3-5825A

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

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Printed in U. S. of America 7CF605

ALIGNMENT INSTRUCTIONS

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

Suggested Alignment Tools: GC ELECTRONICS:

L7, L11, L13, T6, T10, T13, T14, T15 5009

T1 thru T5, T7, T8, T9, T11, T12 9440

CT1 thru CT5 5000

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP2 (Junction R17, R18 & C28).	Ch. 19, USB	CT3	Adjust for 10.240MHz <u>+50Hz.</u>
Input of oscilloscope to TP3 (Pin 4 of IC2).	Ch. 19, USB	T3	Adjust for maximum.
Input of frequency counter to TP3 (Pin 4 of IC2).	Ch. 19, USB Clarifier midrange.	CT1	Adjust for 20.105MHz <u>+40Hz.</u>
	Ch. 19, LSB Clarifier midrange.	CT2	Adjust for 20.1035MHz <u>+40Hz.</u>
Input of frequency counter to TP5 (Junction C73, C74 & L15).	Ch. 19, USB Ch. 19, LSB	CT5 CT4	Adjust for 10.695MHz <u>+50Hz.</u> Adjust for 10.692MHz <u>+50Hz.</u>
Input of DC meter to TP1 (Junction R1 & R2.)	Ch. 1, USB	VCO	Adjust for 3.6 volt <u>+0.1 volt.</u>
Inject a 2400Hz 2.5mV signal at Mic input.	Ch. 40, USB, XMT	T1	Adjust for maximum.
Input of RF VTVM to antenna jack.	Ch. 1, USB, XMT	T2	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 TP11 (Junction T13 & D22). 455kHz, 1000Hz @ 30% modulation.	Ch. 19, AM Clarifier Midrange RF Gain Maximum Squelch MINIMUM NB + ANL Off	T14, T15	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19, AM Clarifier Midrange RF Gain Maximum Squelch MINIMUM NB + ANL Off	T13, T10, T9, T8, T7	Adjust for maximum output. Repeat above steps, if necessary.

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.

SSB

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.186MHz, no modulation.	Ch. 19, USB Clarifier Midrange RF Gain Maximum Squelch MINIMUM NB + ANL Off	T12	Adjust for maximum output.

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
Input of DC meter to terminal 15 (Base of Q20). No signal input.	Ch. 19, USB RF Gain Maximum Squelch MINIMUM NB + ANL Off	RV8	SSB AGC Adjust RV8 for 2 volts.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 500uV.	Ch. 19, AM RF Gain Maximum NB + ANL Off	RV9	AM SQUELCH RANGE Set squelch Control VR2 fully clockwise. Adjust RV9 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.186MHz, no modulation. Output 500uV.	Ch. 19, USB RF Gain Maximum NB + ANL Off	RV10	SSB SQUELCH RANGE Set Squelch Control VR2 fully clockwise. Adjust VR10 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19, AM RF Gain Maximum NB + ANL Off	RV6	AM S METER Adjust RV6 for 9 on S scale of meter.
Output of signal generator thru .01uF to antenna jack. 27.186MHz, no modulation. Output 100uV.	Ch. 19, USB RF Gain Maximum NB + ANL Off	RV7	SSB S METER Adjust RV7 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, 2.5mV signal at MIC input.	Ch. 40, USB Ch. 1, USB	T4 T5	Adjust for maximum. Adjust for maximum.
Input of oscilloscope to TP10 (Emitter of Q7). Inject a 2400Hz, 25mV signal at MIC input.	Ch. 19, USB Ch. 19, USB Ch. 19, USB	T11 RV11	Adjust for maximum. Turn core of T6 to top. Adjust RV11 for .150 volts p-p.
Inject a 2400Hz, 25mV signal at MIC input.	Ch. 19, USB	T6, L7, L11, L13	Adjust for maximum RF output.

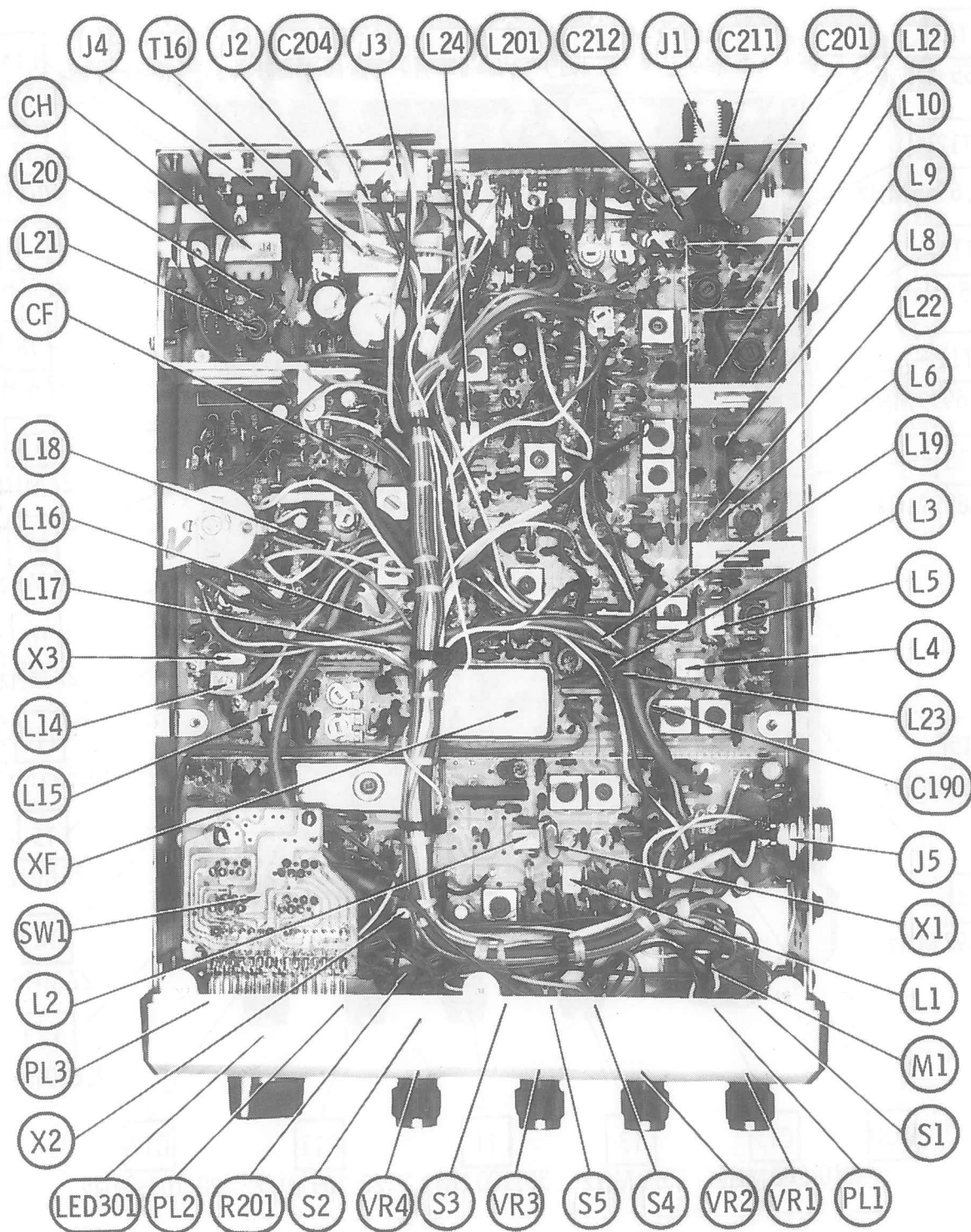
TRANSMITTER ADJUSTMENTS

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

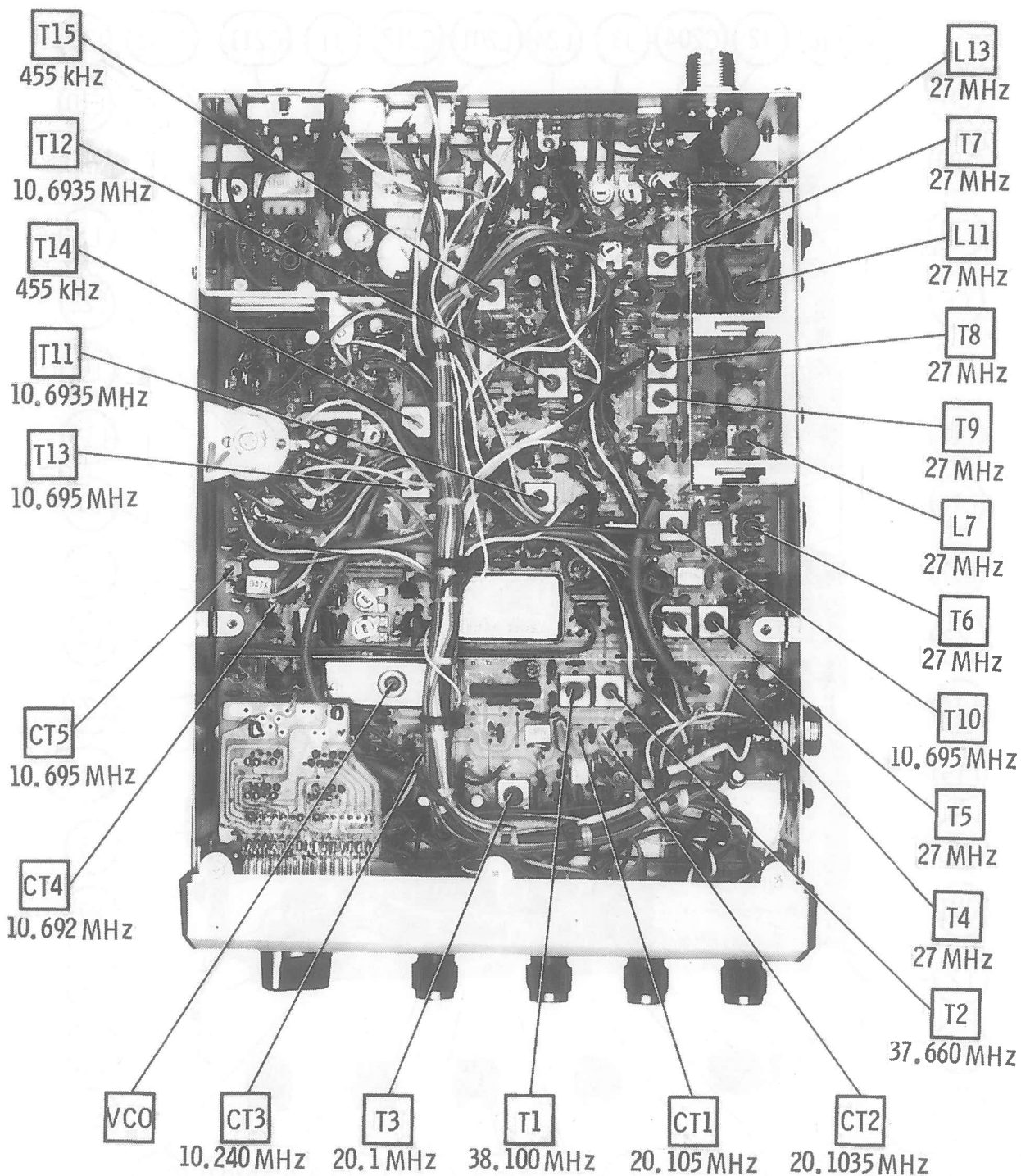
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.

See page 4 for channel frequencies.

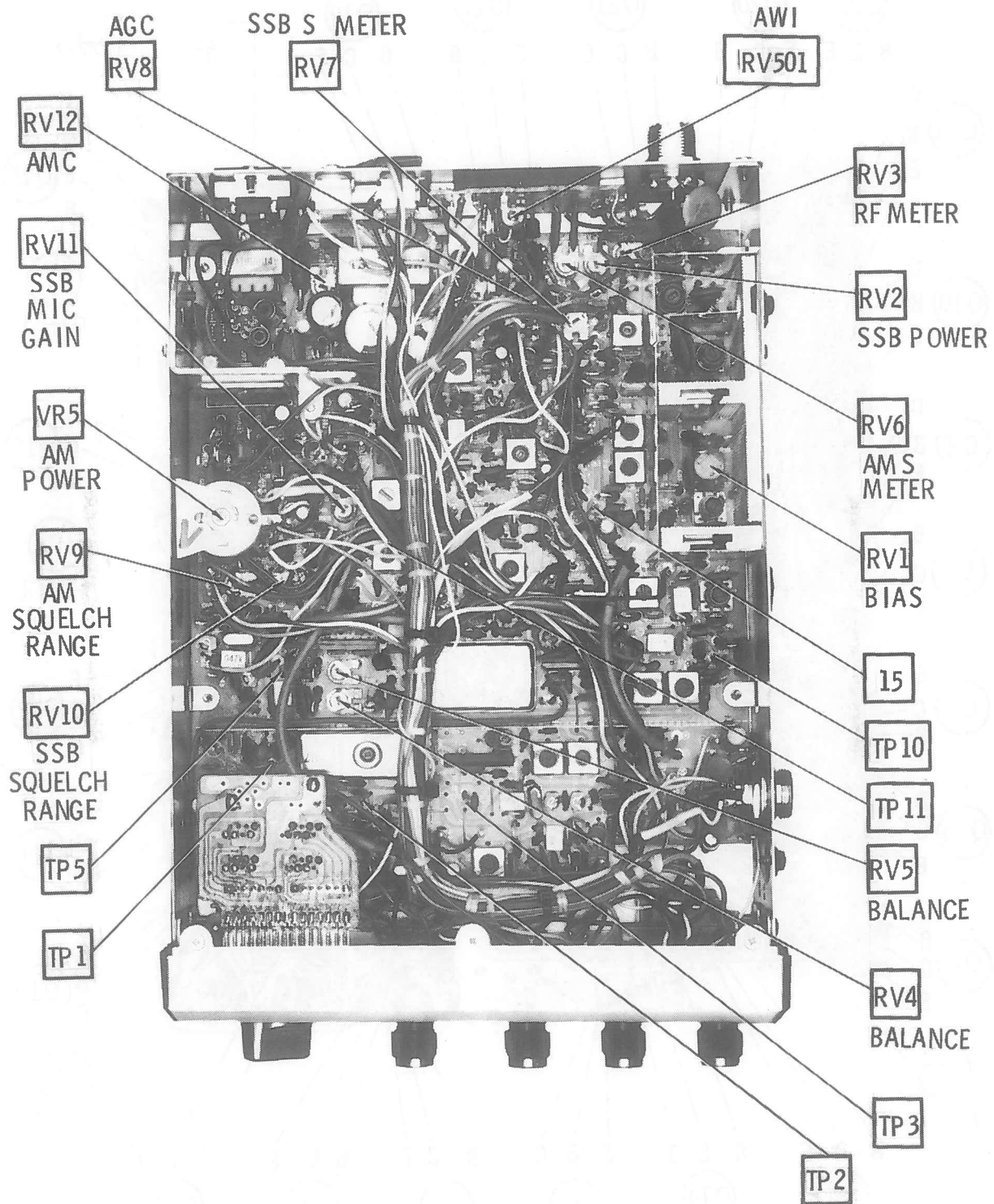
TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Inject a 2400Hz, 2.5mV signal at MIC input. Connect a milliammeter between Q10 emitter and ground.	Ch. 19, USB	RV1	BIAS Adjust for 35mA $\pm$ 10mA.
RF wattmeter (See connection above). No signal input.	Ch. 19, USB	RV4, RV5	BALANCE Adjust for MINIMUM RF.
Output of 2 tone generator to MIC input 500Hz and 2400Hz. Output 25mV.	Ch. 19, USB	RV2	SSB POWER Adjust for 10 watts.
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.	Ch. 19, AM	VR5	AM POWER Adjust for 3.7 watts.
Modulation meter to antenna jack. Inject a 2500Hz, 25mV signal at MIC input.	Ch. 19, AM	RV12	AMC Adjust for 95% modulation.
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.	Ch. 19, AM	RV3	POWER METER Adjust RV3 so that RF panel meter agrees with RF wattmeter.
Connect a 350-ohm noninductive resistor to antenna jack.	Ch. 19, AM	RV501	AWI Adjust RV501 so that antenna warning indicator lights.



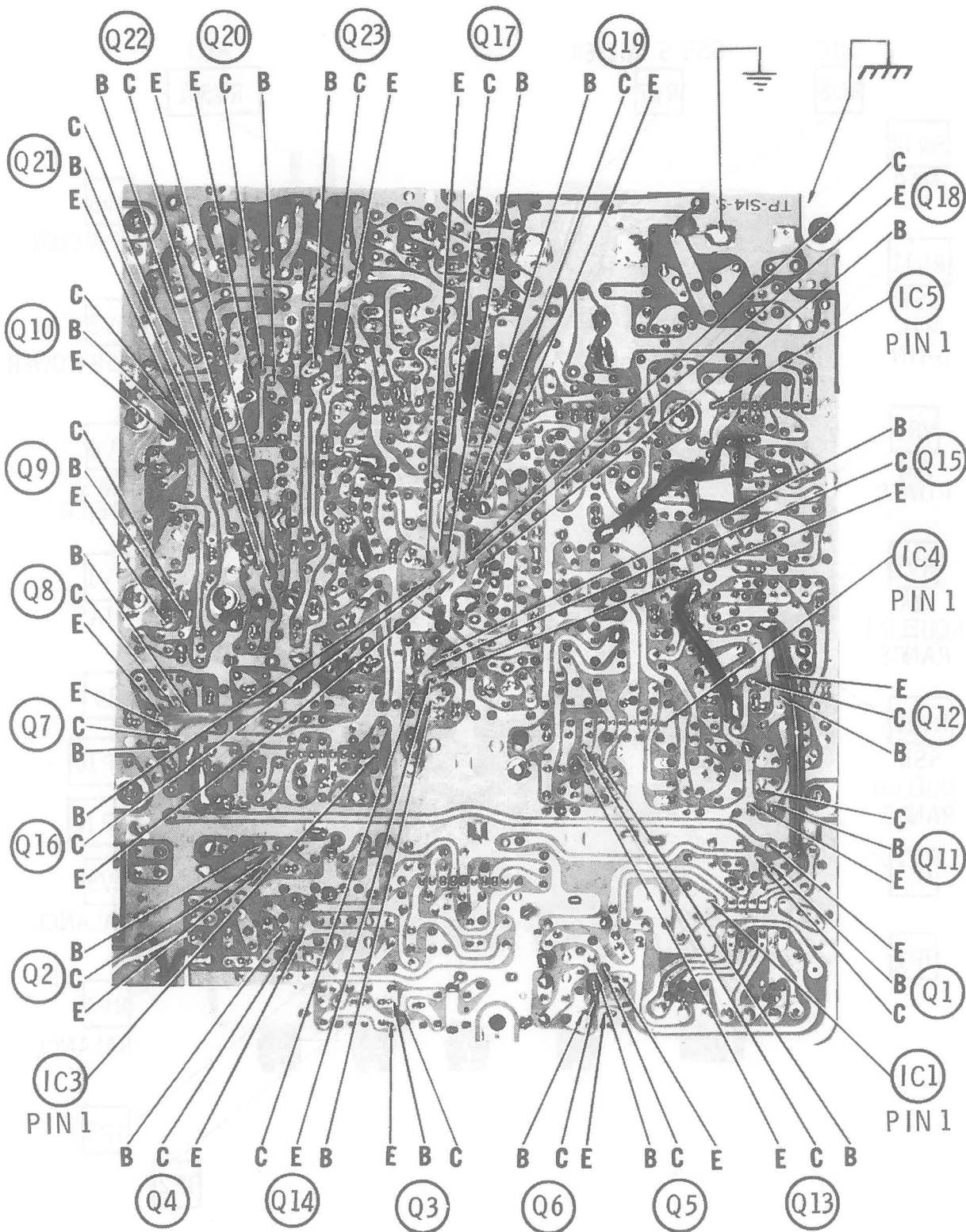
CHASSIS - BOTTOM



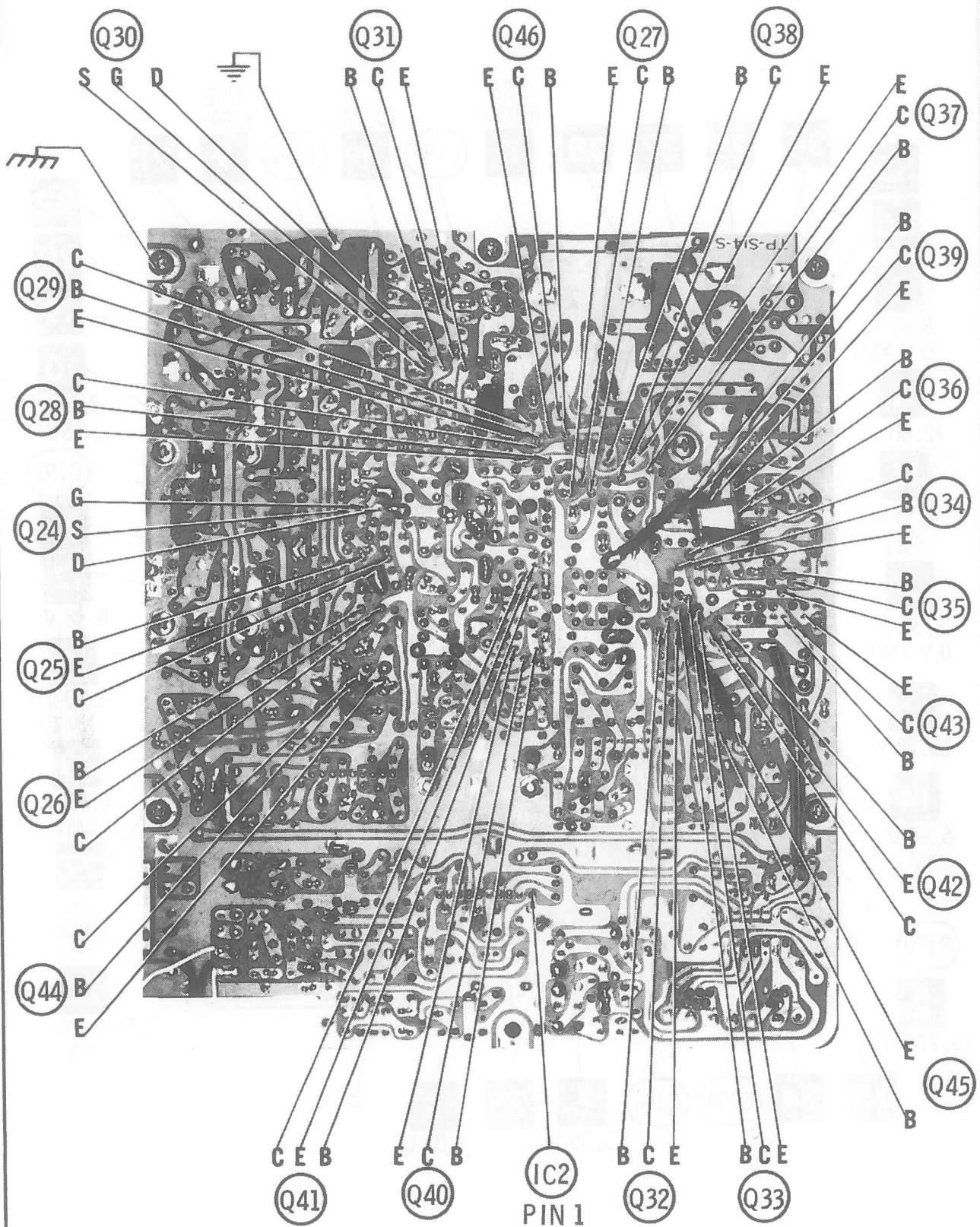
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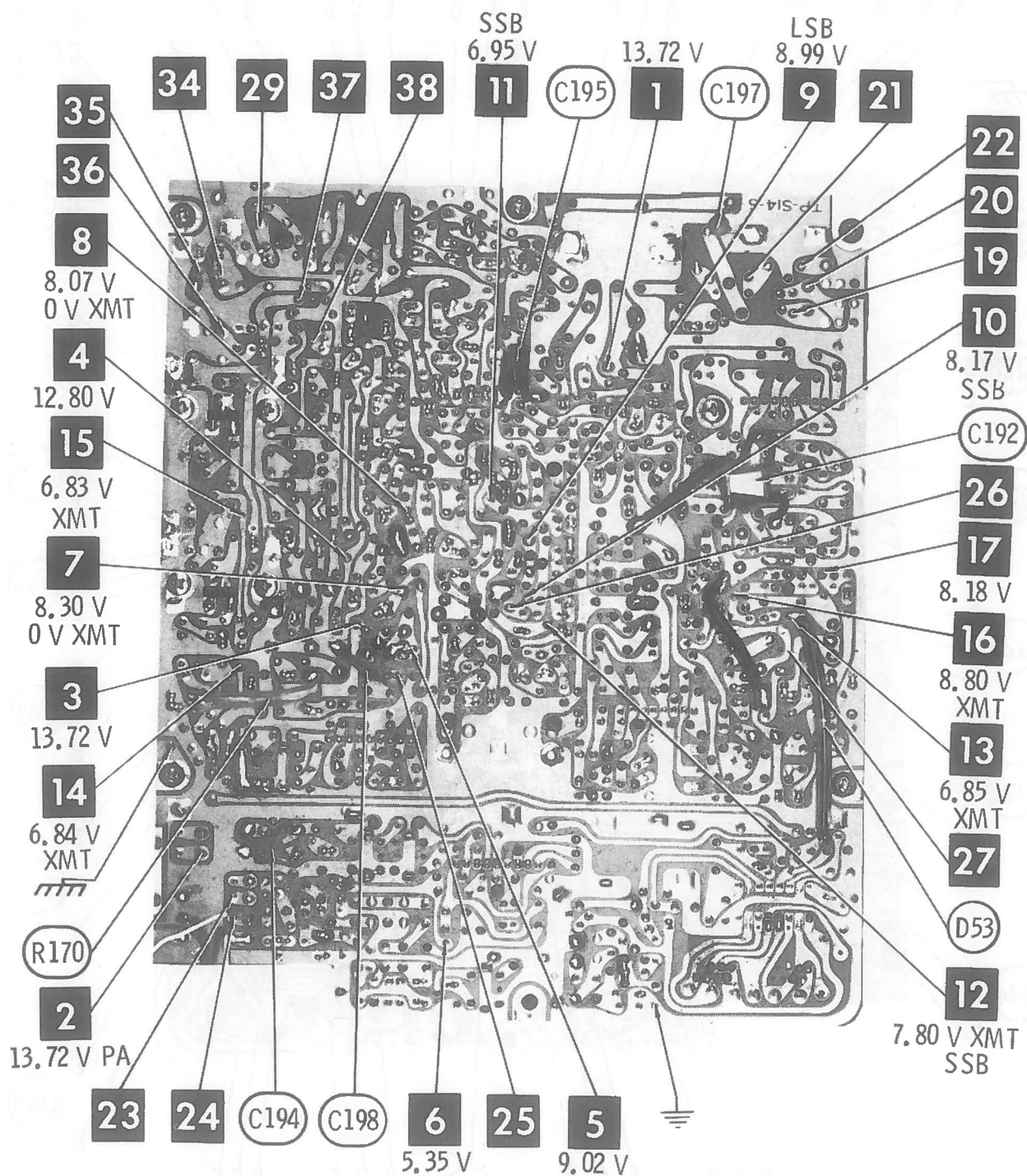
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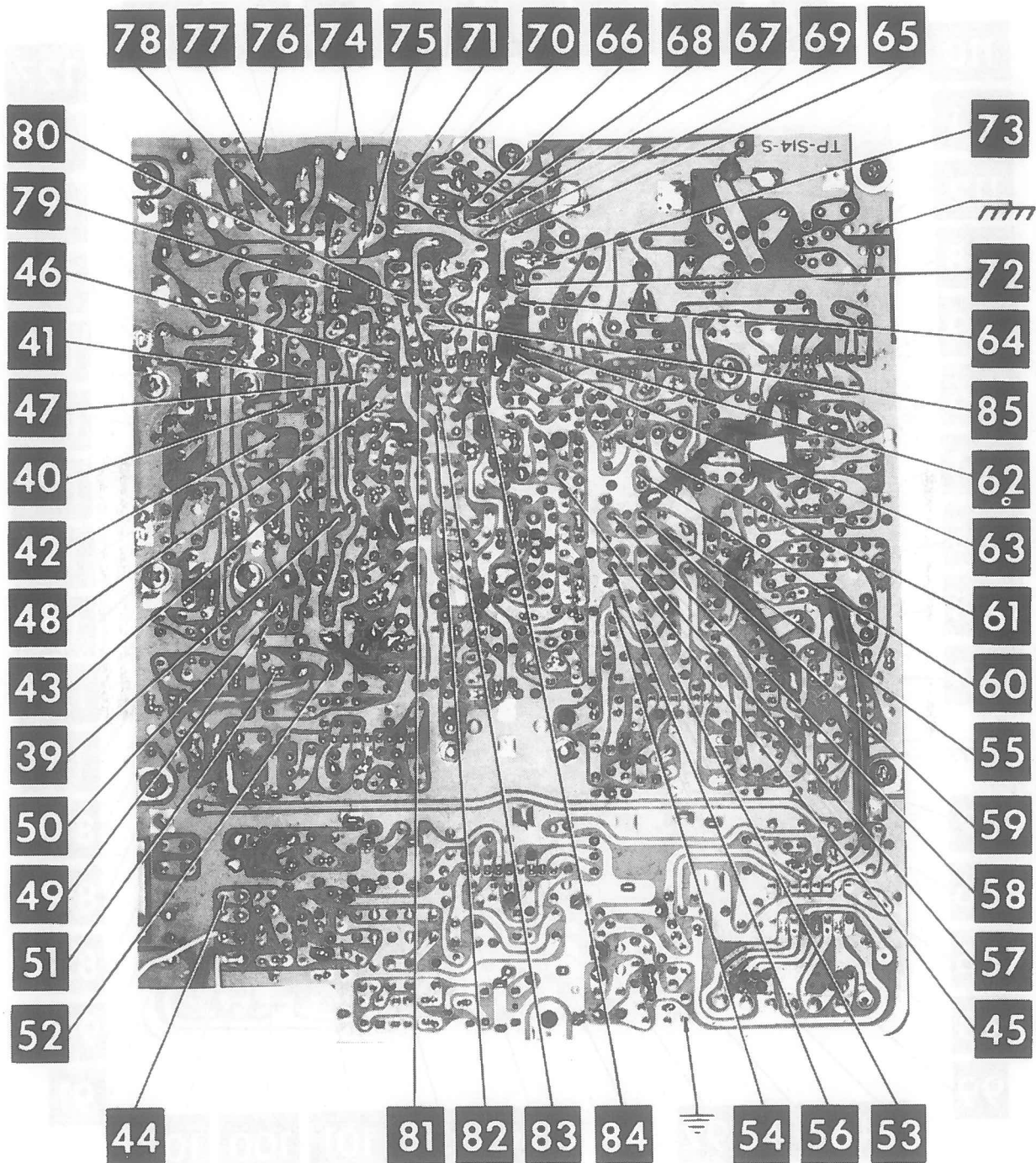
MAIN BOARD



MAIN BOARD

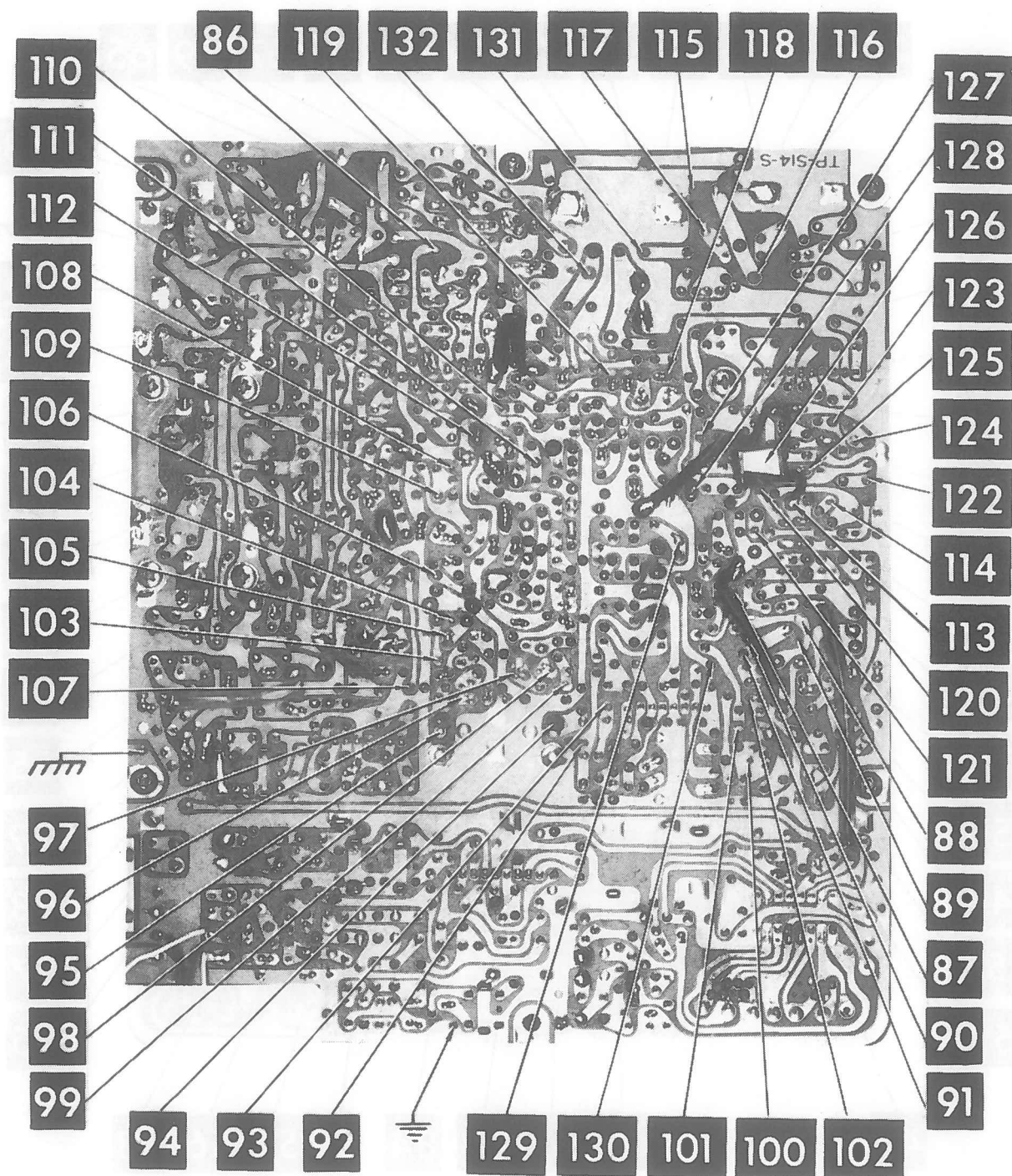


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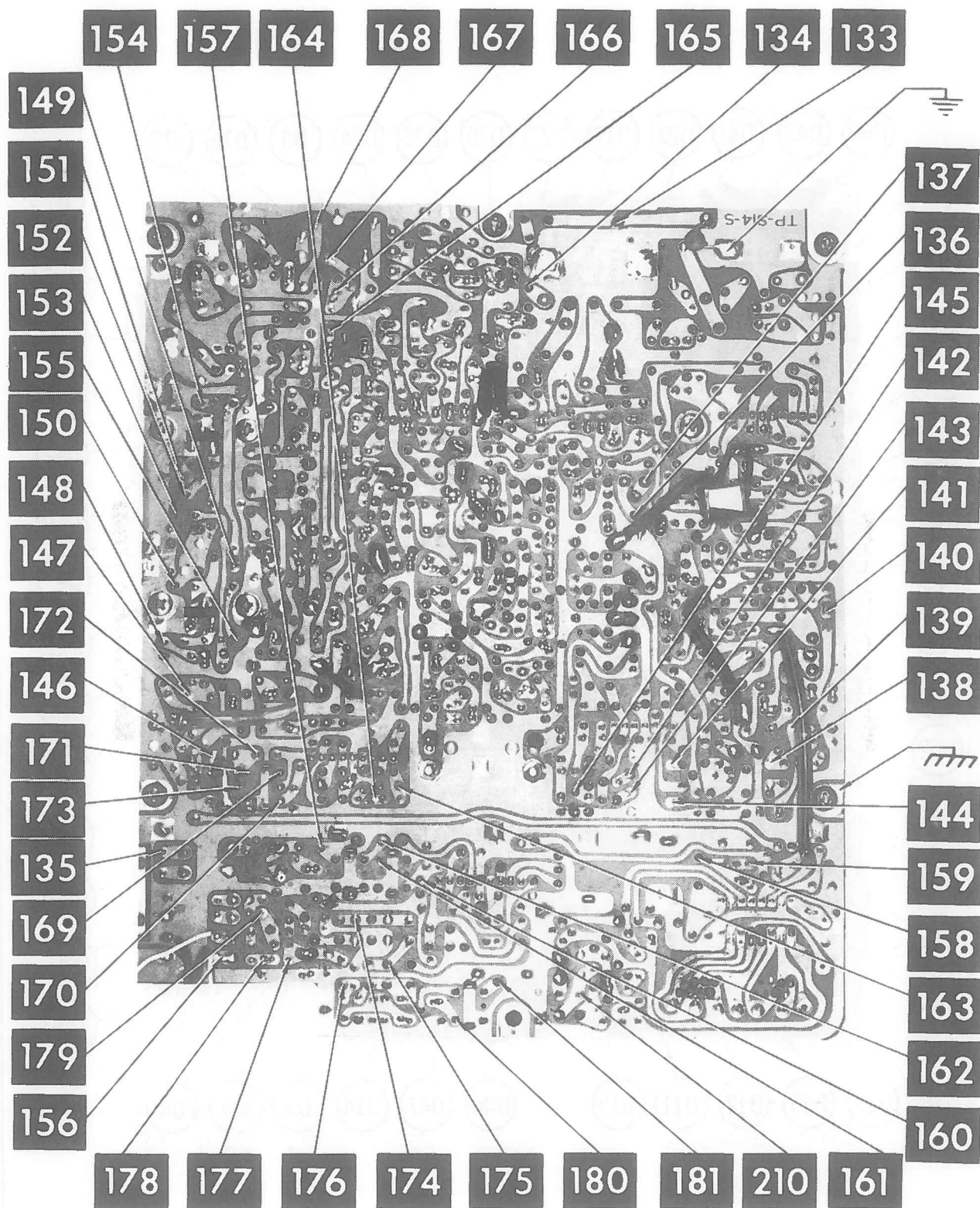


GENERAL ELECTRIC MODEL 3-5825A

MAIN BOARD

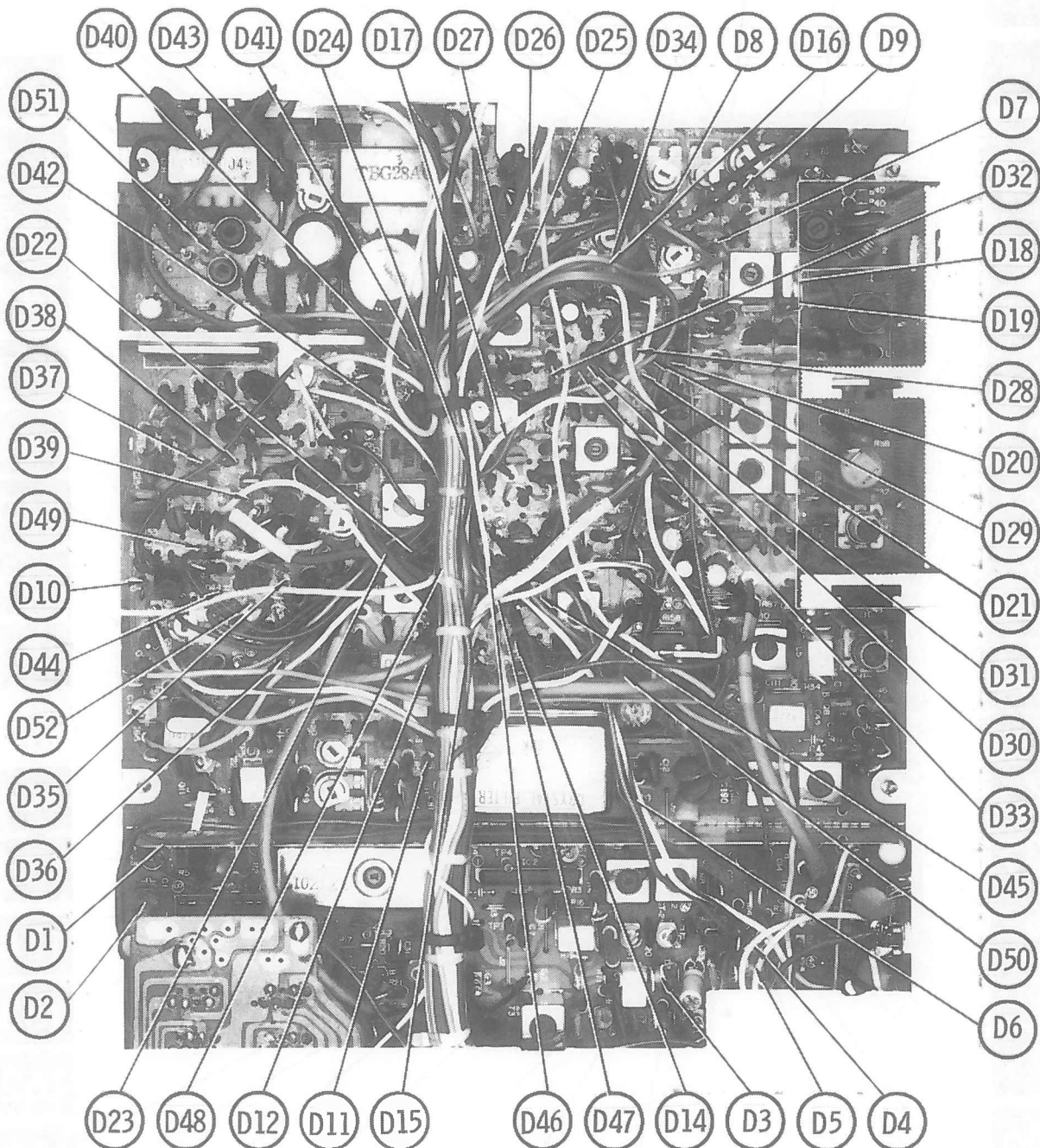


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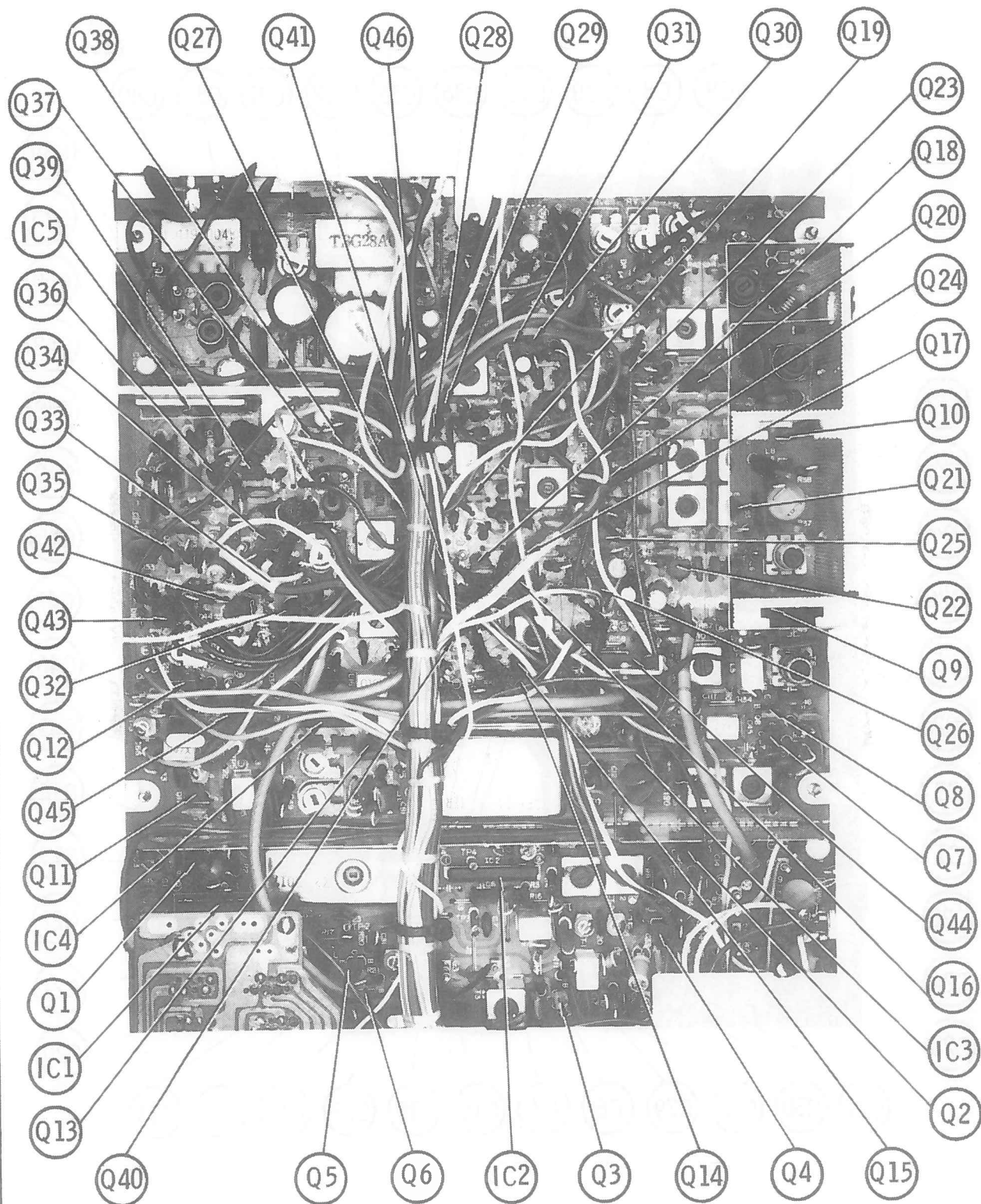


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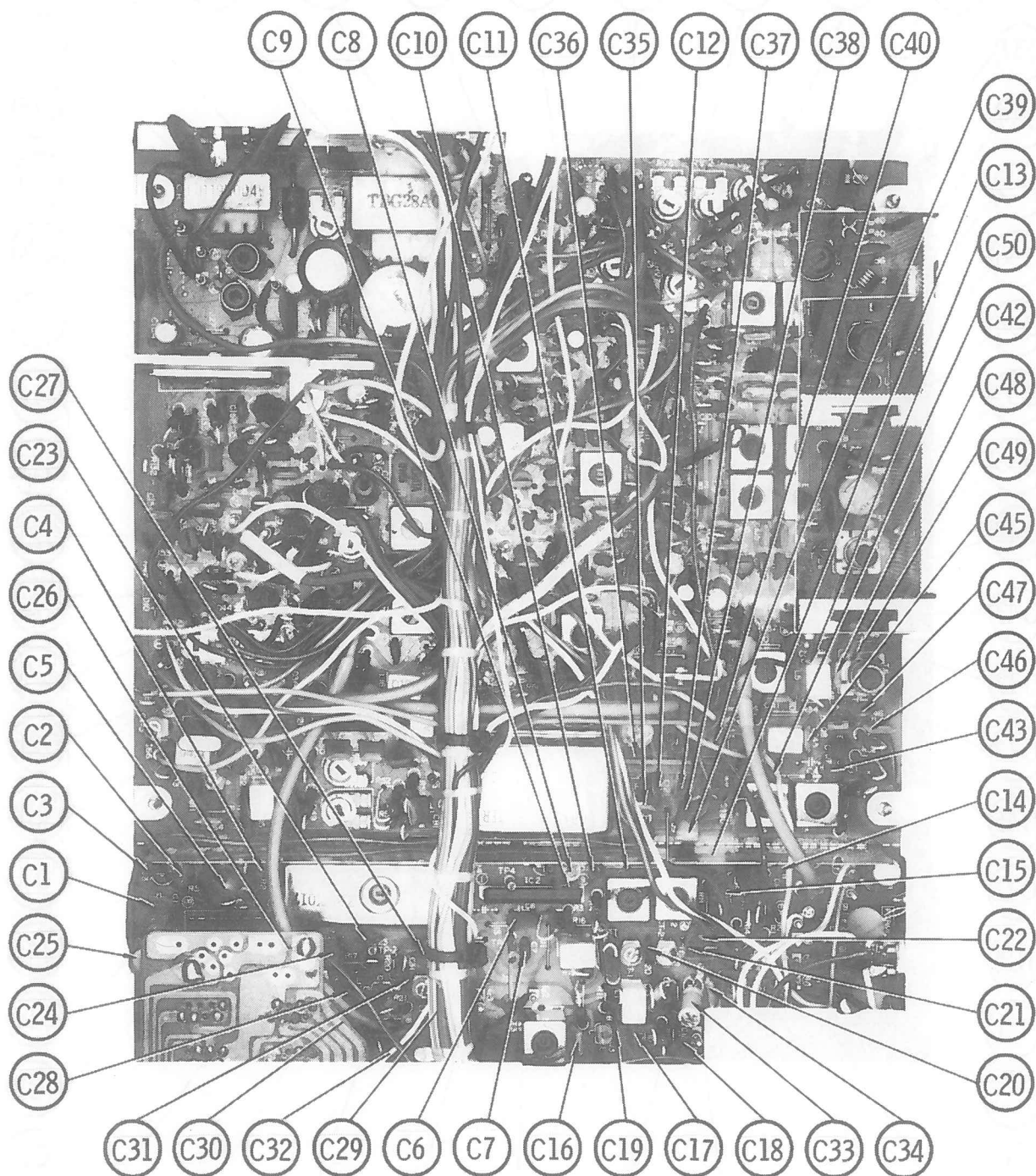
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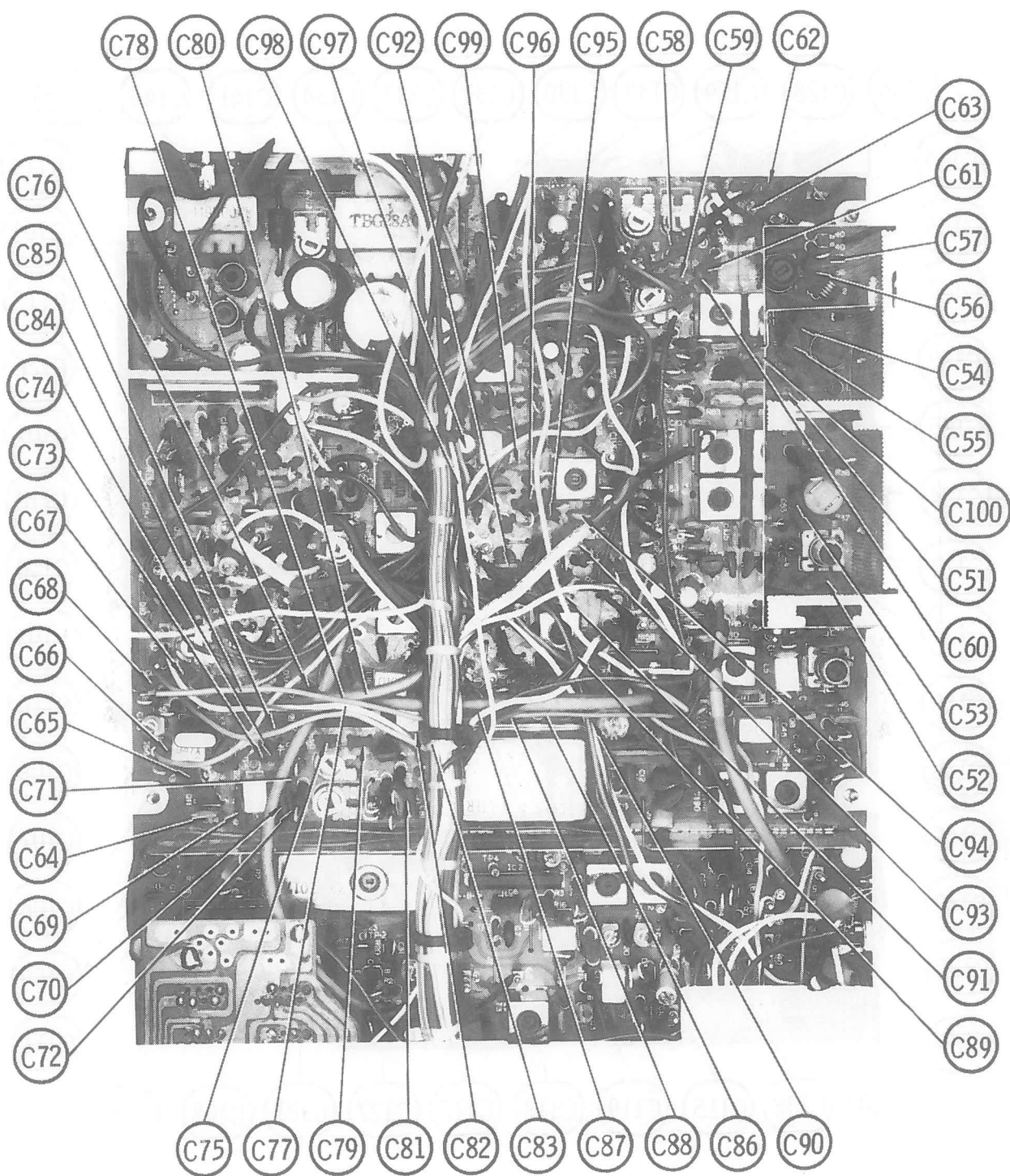
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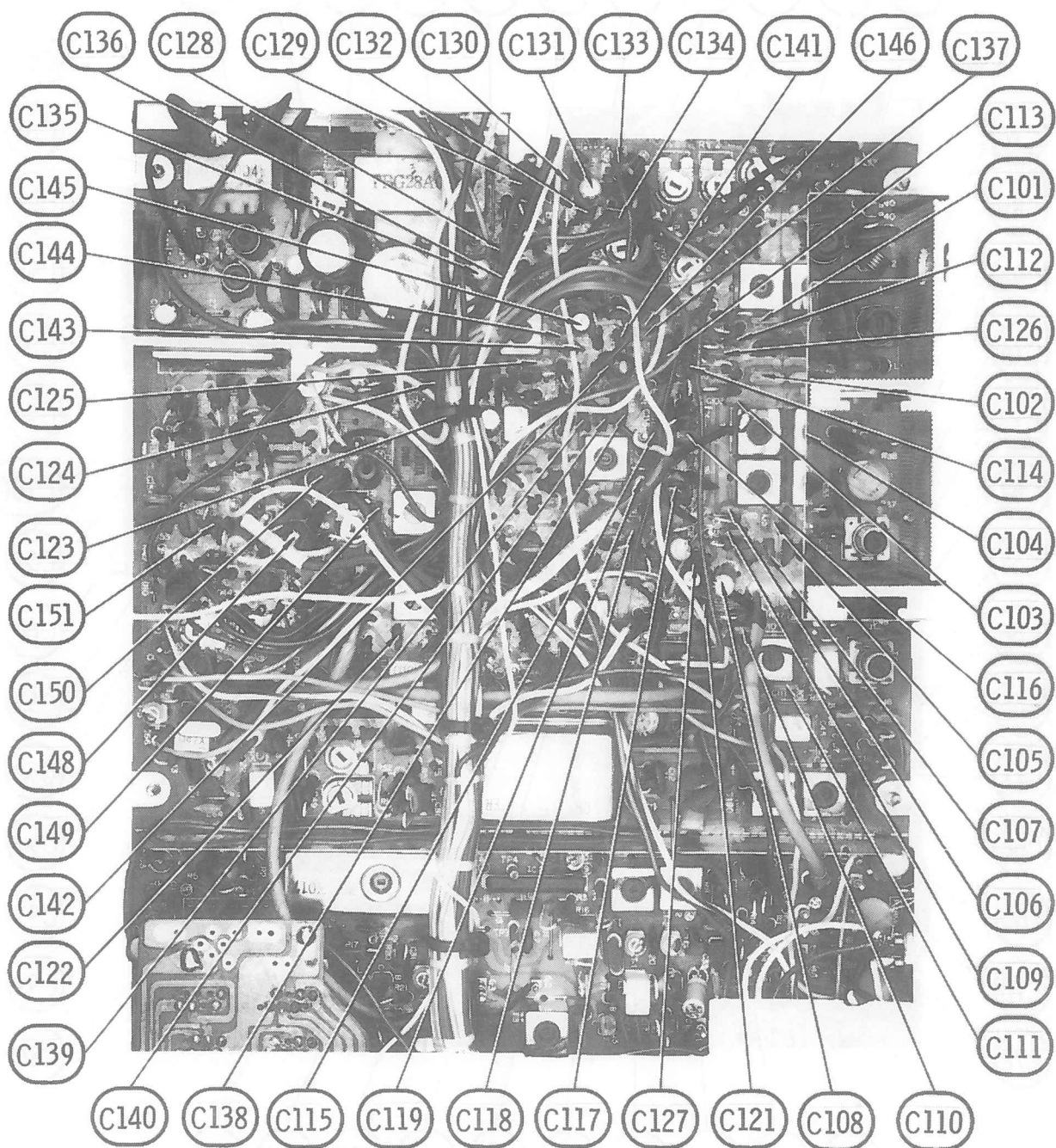
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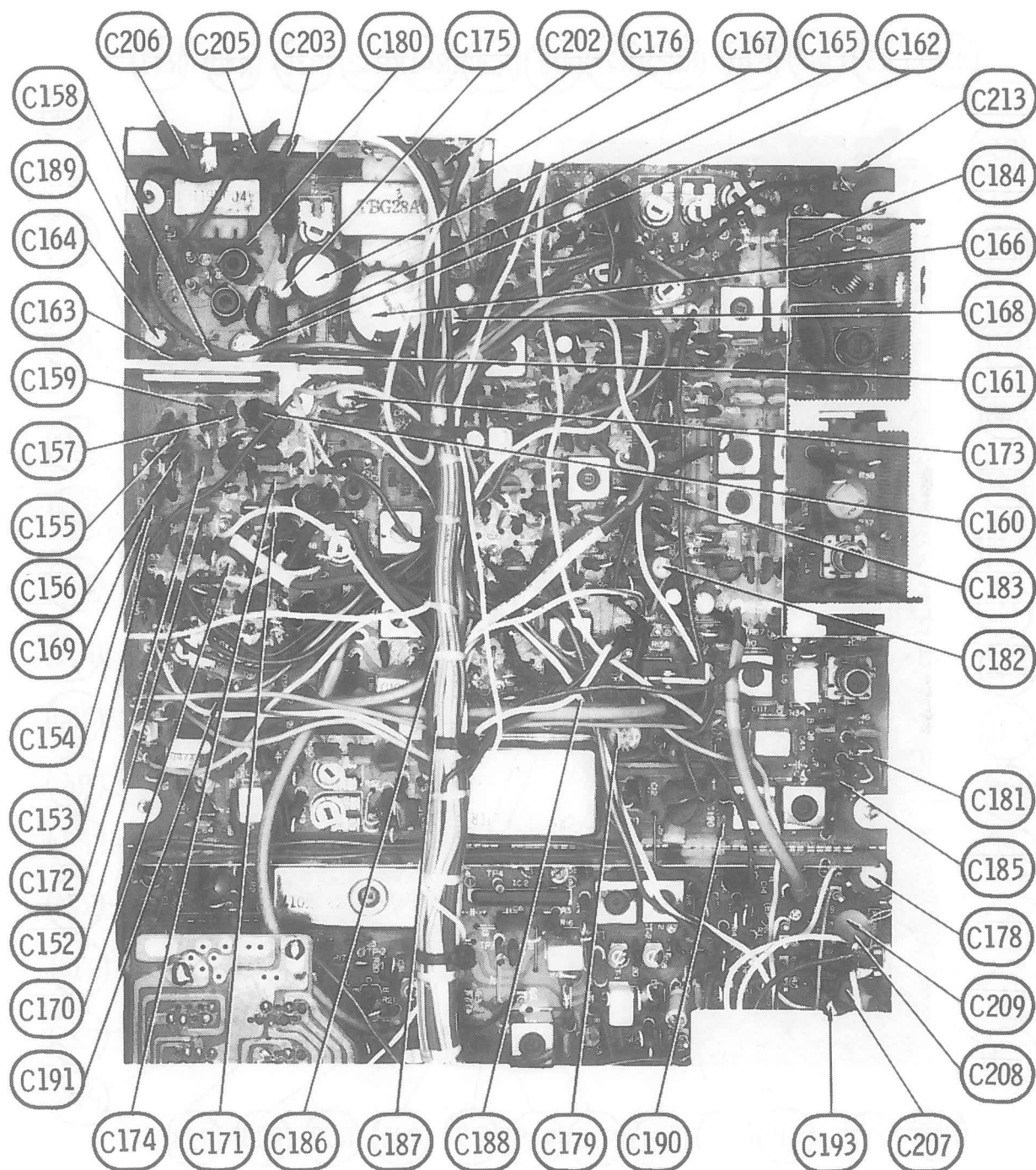
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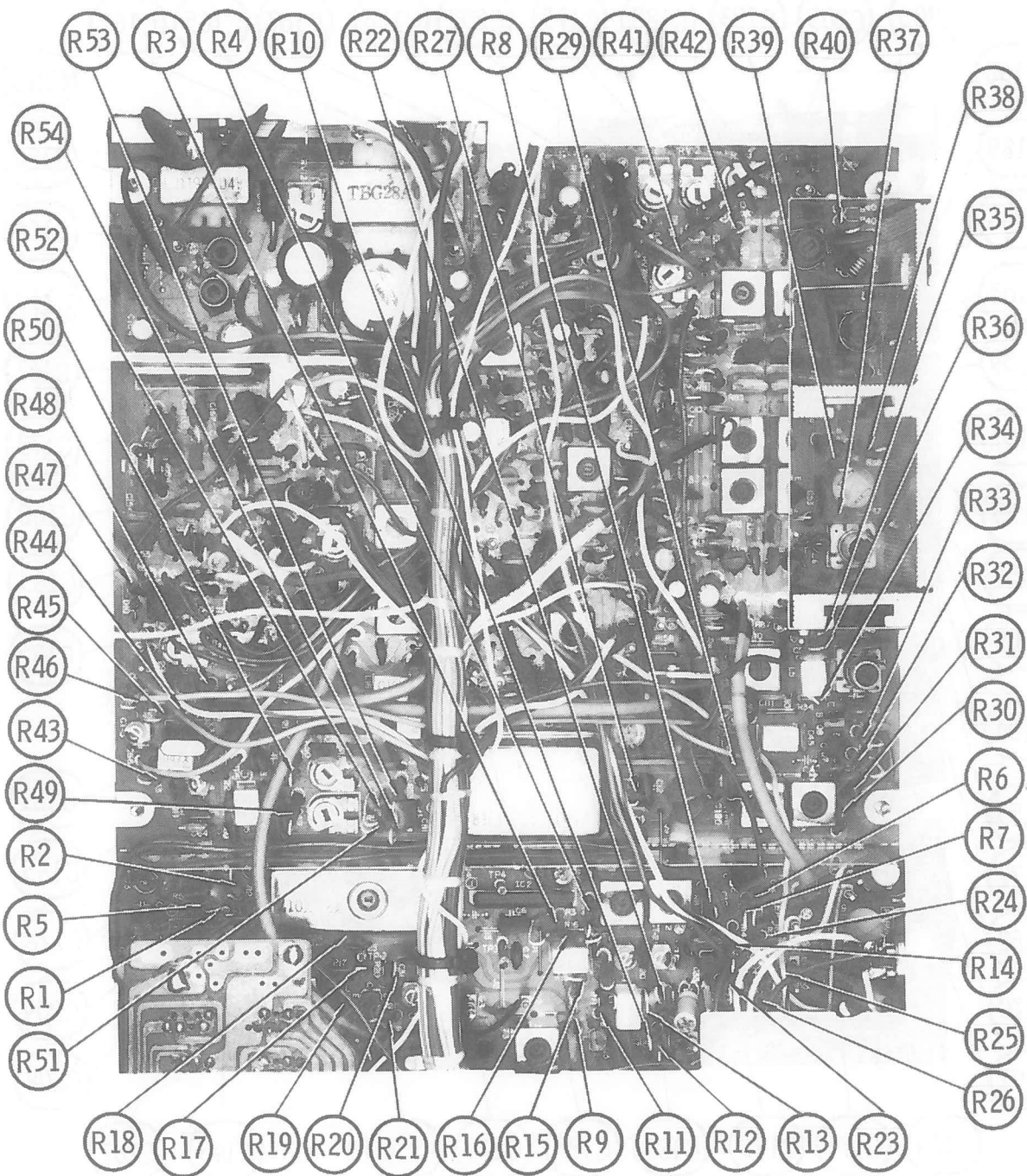
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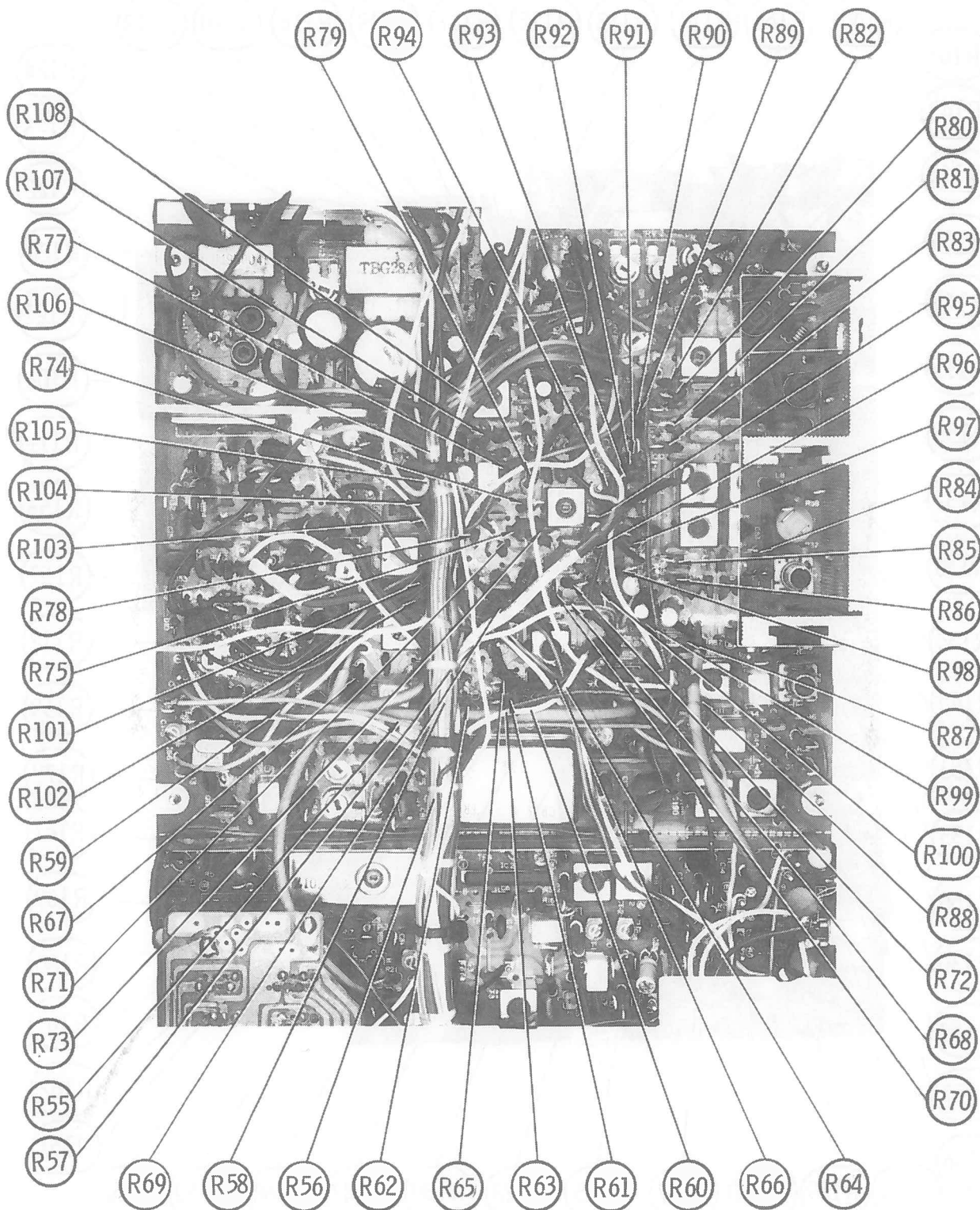
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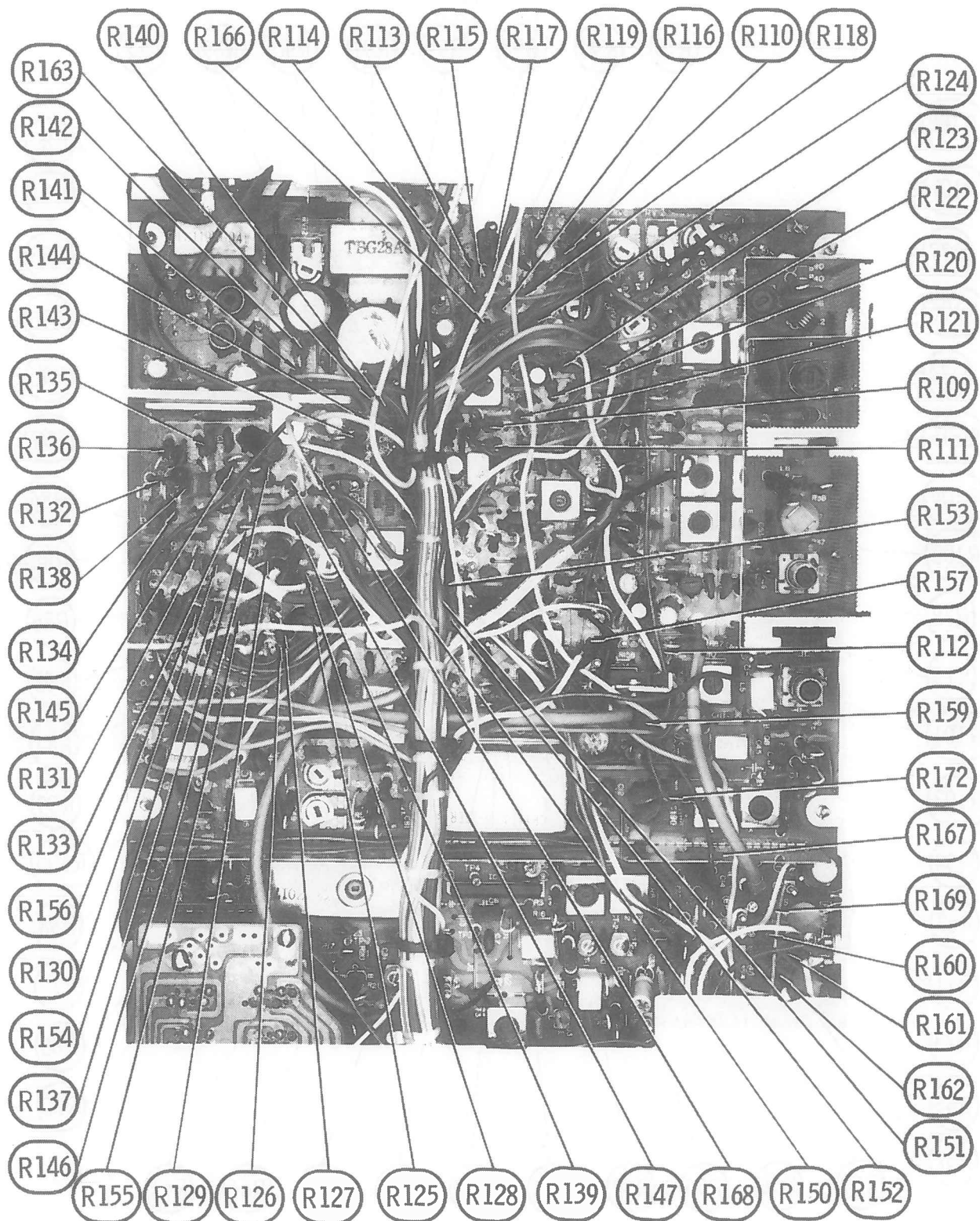
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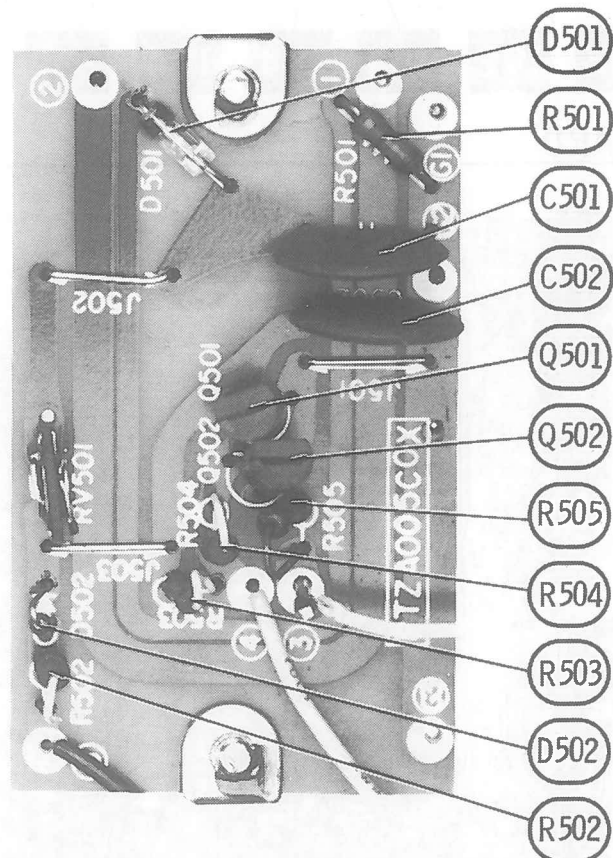
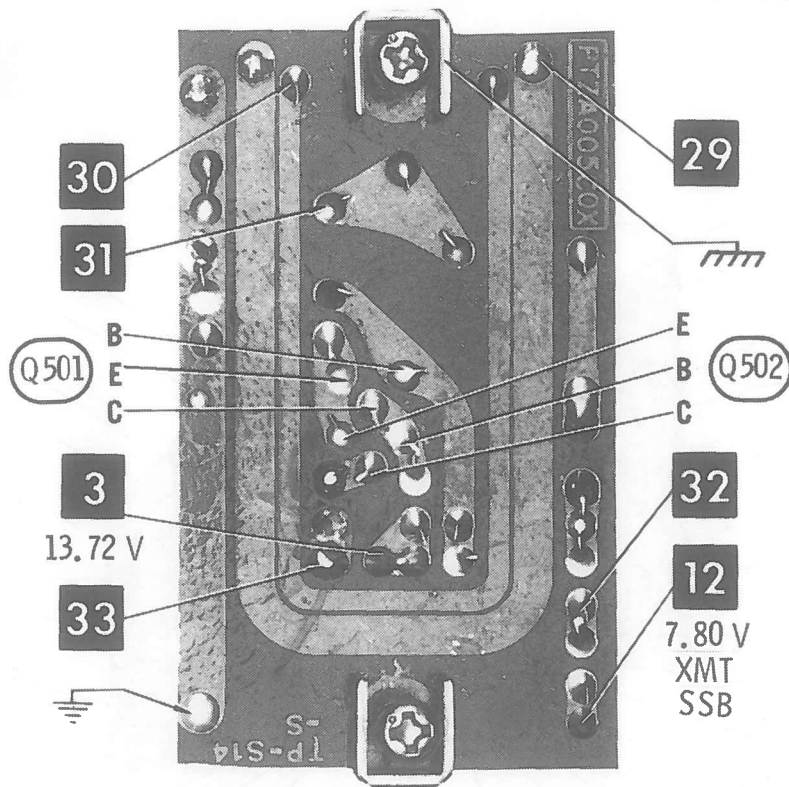
MAIN BOARD



MAIN BOARD

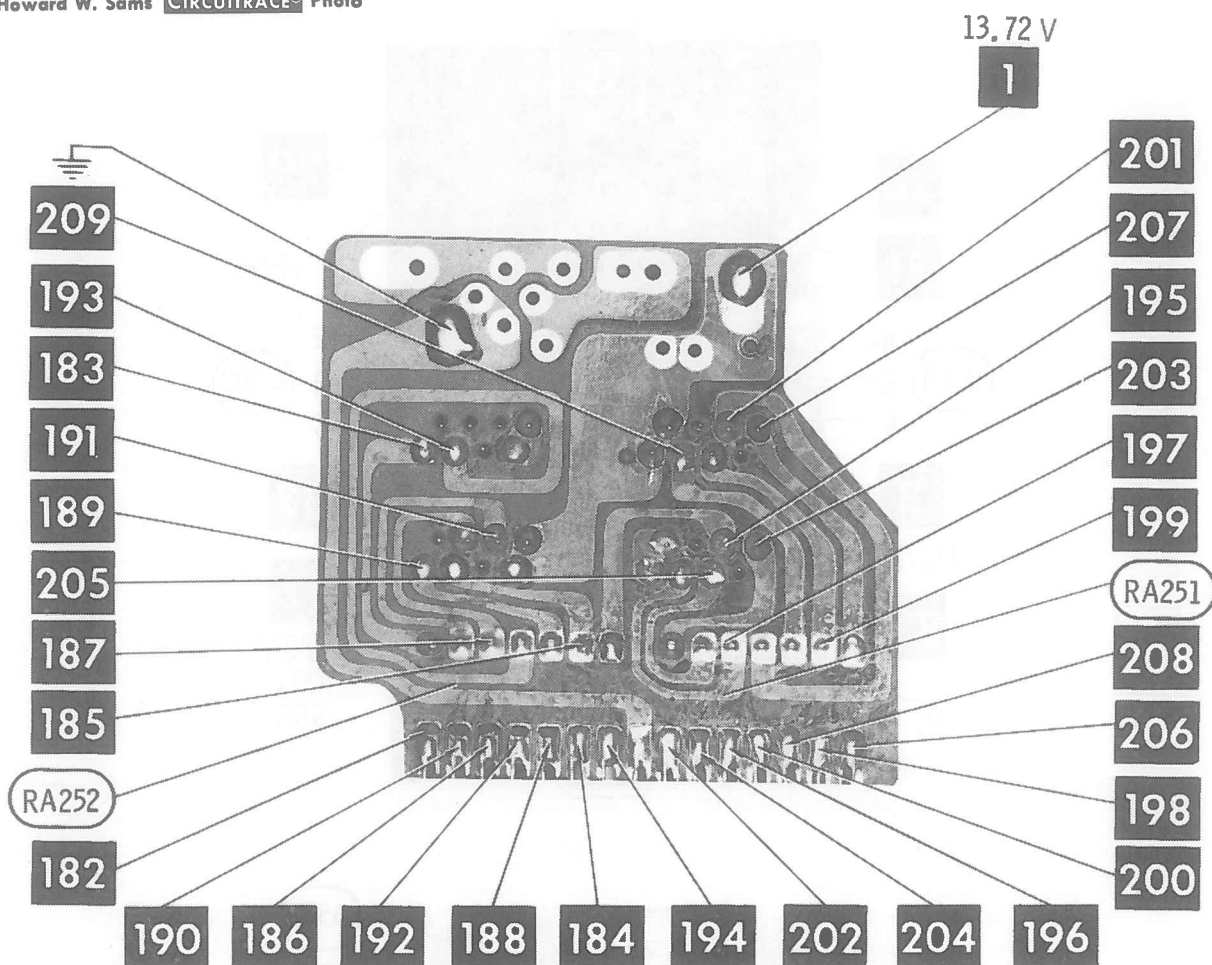


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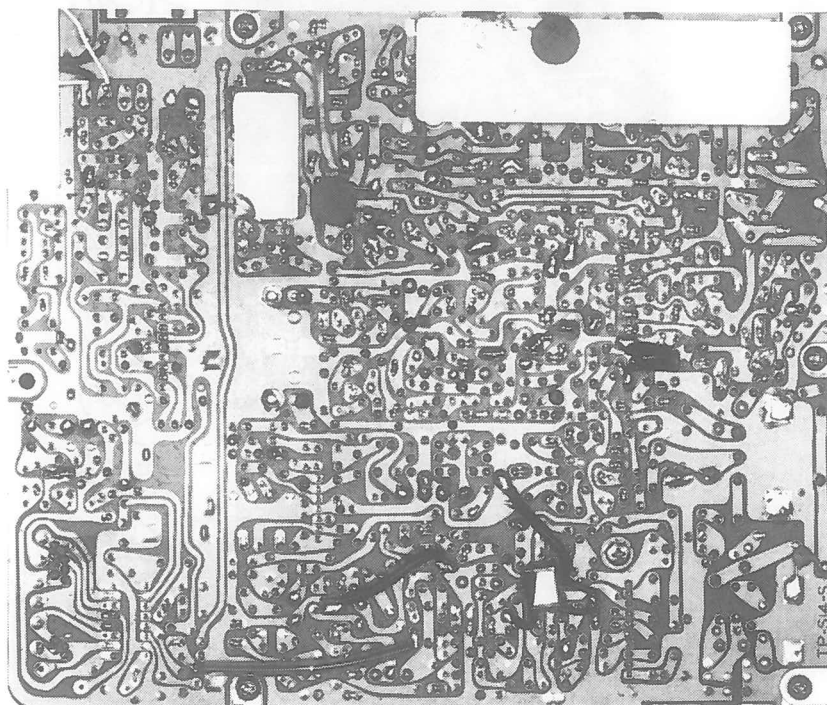


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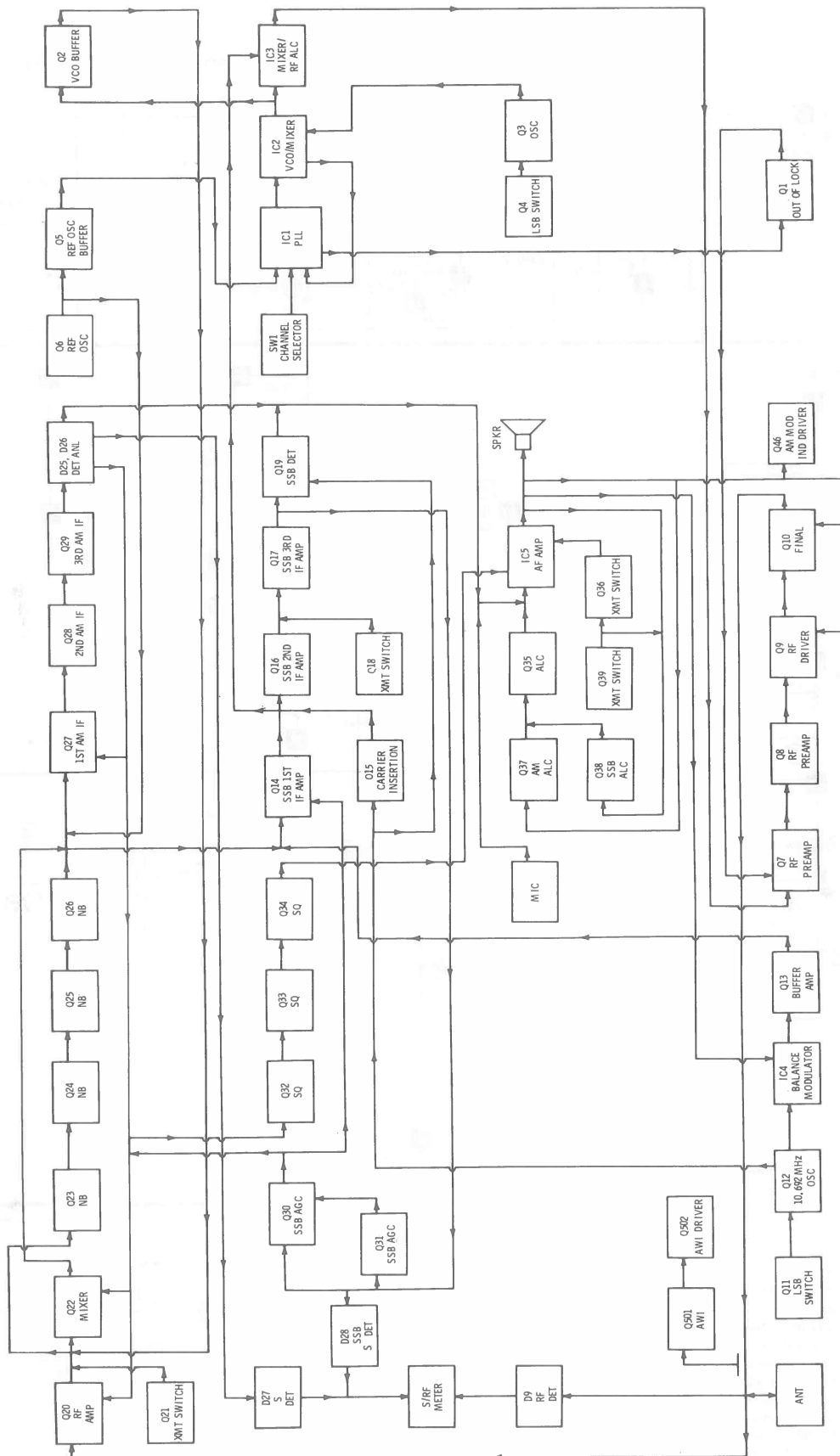
ANTENNA WARNING BOARD



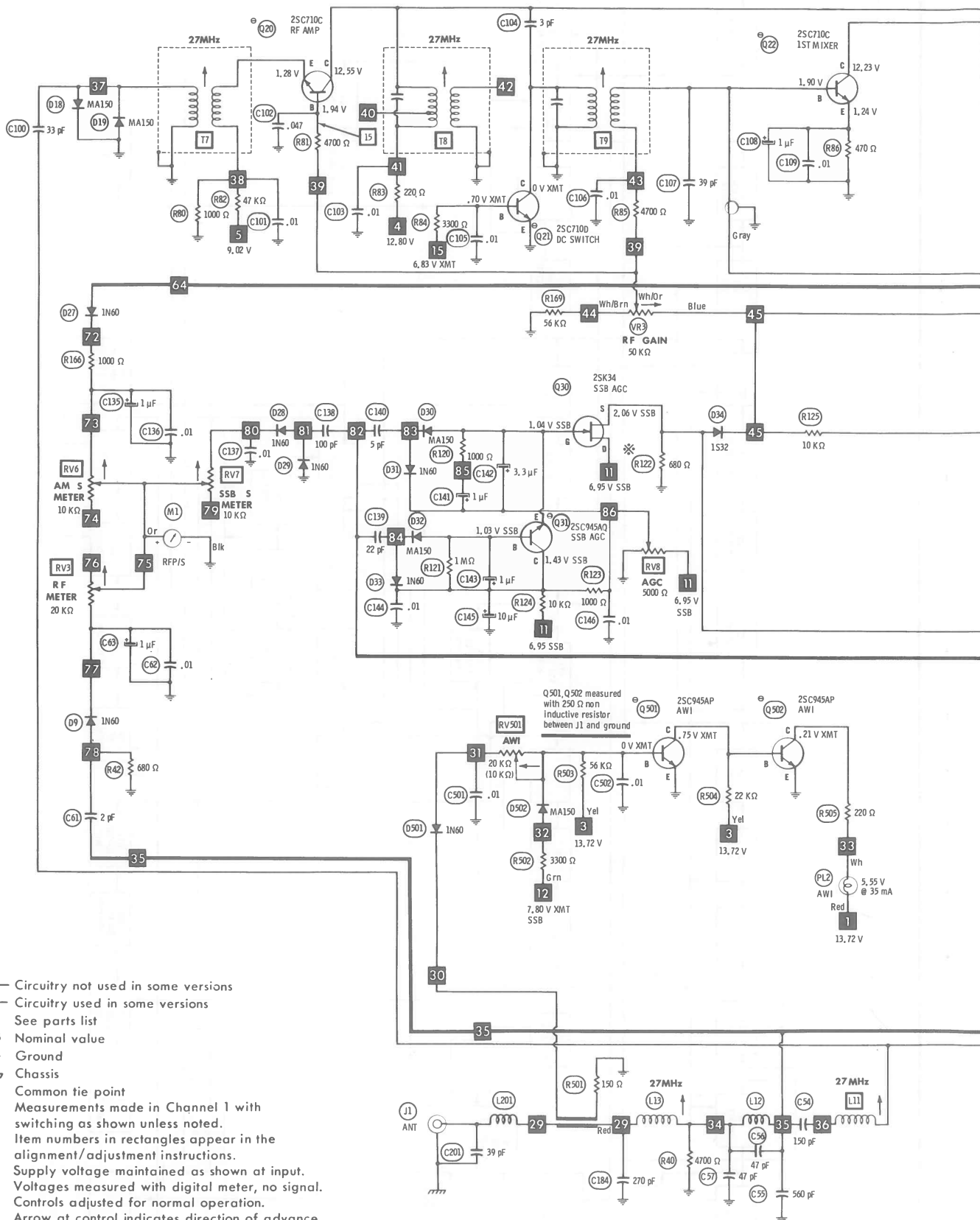
CH. SELECTOR BOARD

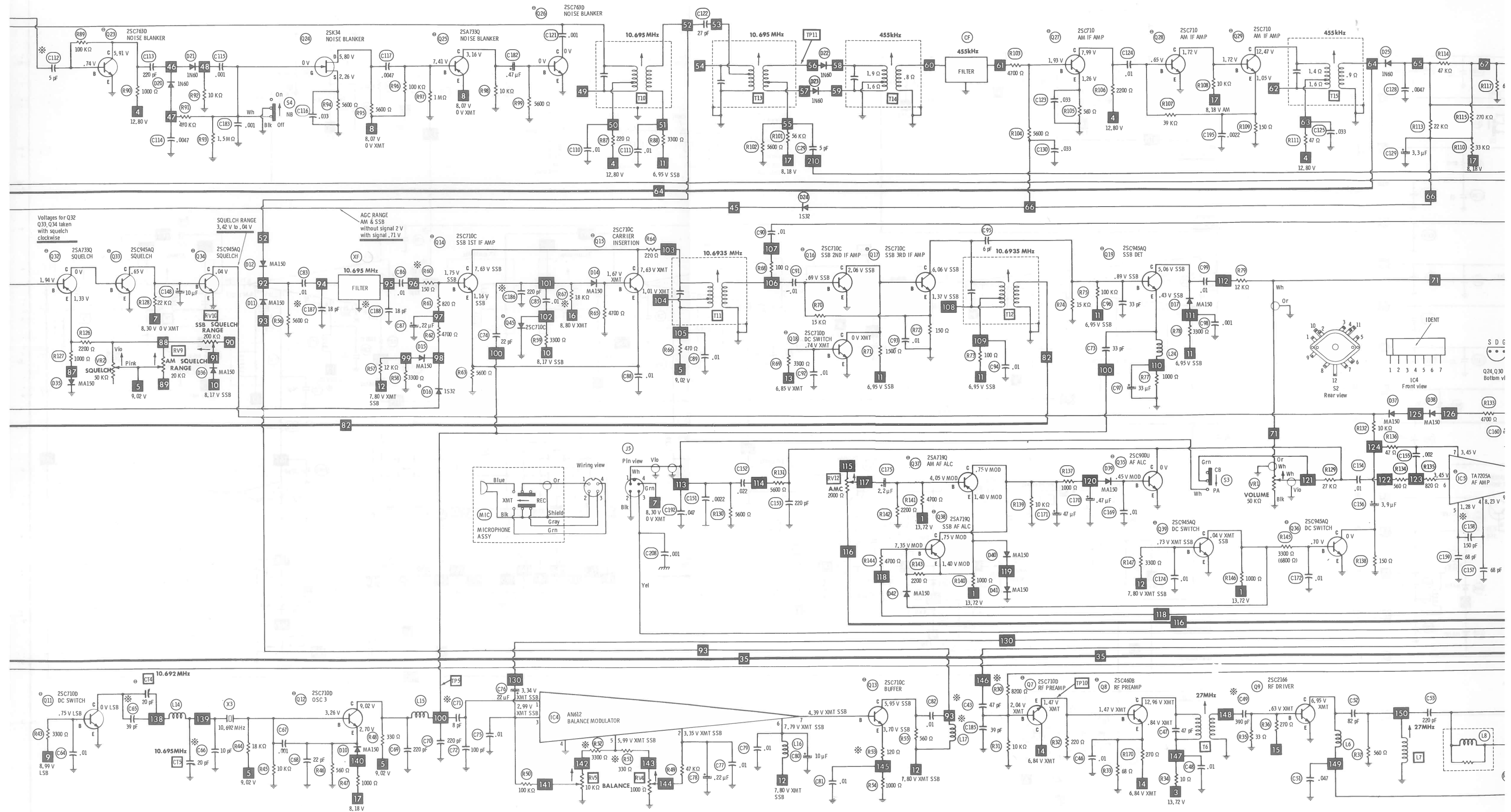


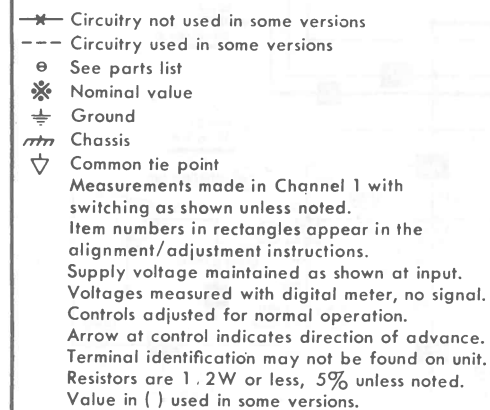
SHIELD LOCATION



BLOCK DIAGRAM

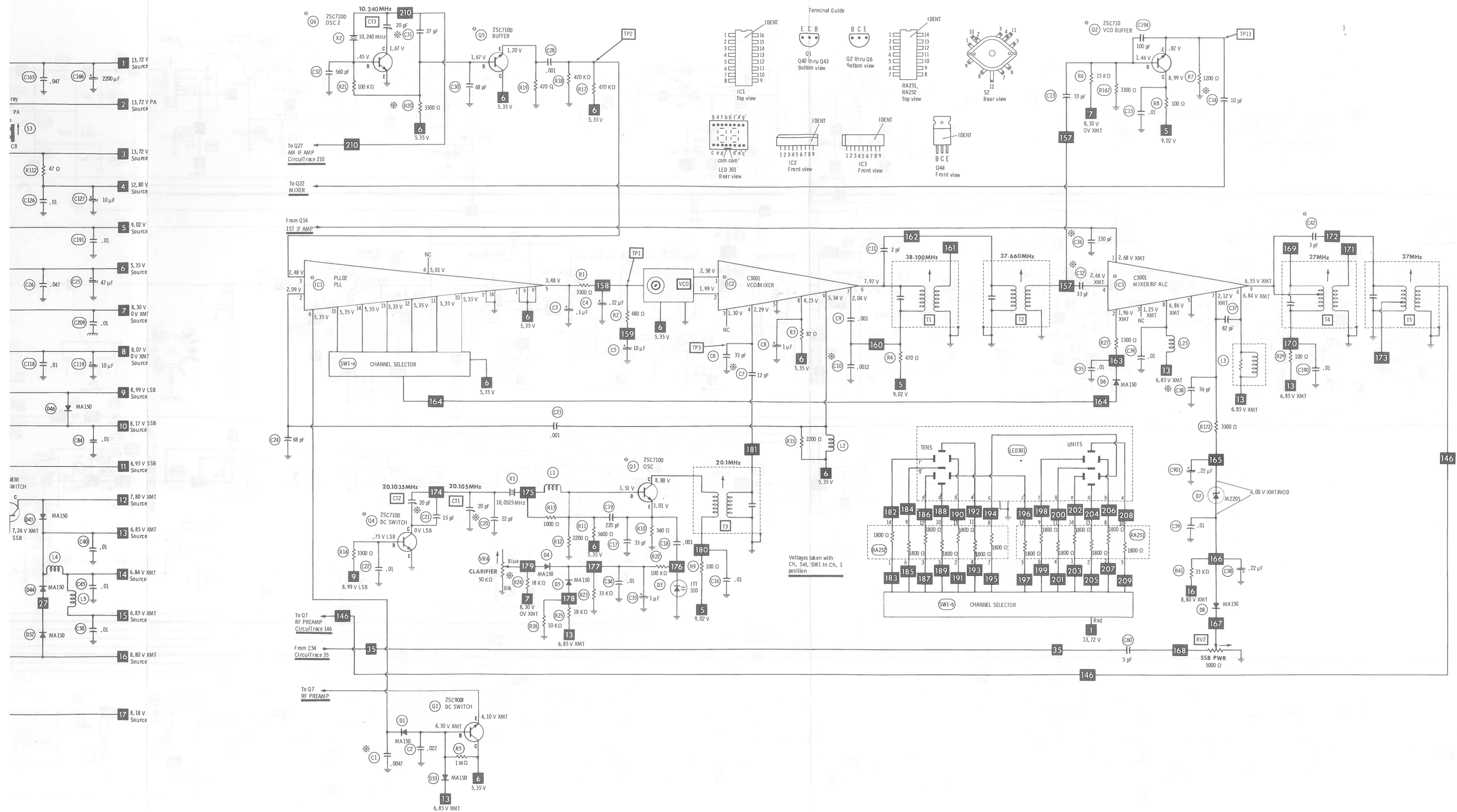






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TRUTH CHART

1 = <u>5.34</u> Volts 0 = <u>0</u> Volts								
C H A N N E L	IC1 PROGRAM DIVIDER						AM & USB	LSB
	PINS						VCO OUTPUT IN MHz AT TP13	VCO OUTPUT IN MHz AT TP13
	10	11	12	13	14	15		
1	1	1	1	1	1	1	37.660	37.657
2	1	1	1	1	1	0	37.670	37.667
3	1	1	1	1	0	1	37.680	37.677
4	1	1	1	0	1	1	37.700	37.697
5	1	1	1	0	1	0	37.710	37.707
6	1	1	1	0	0	1	37.720	37.717
7	1	1	1	0	0	0	37.730	37.727
8	1	1	0	1	1	0	37.750	37.747
9	1	1	0	1	0	1	37.760	37.757
10	1	1	0	1	0	0	37.770	37.767
11	1	1	0	0	1	1	37.780	37.777
12	1	1	0	0	0	1	37.800	37.797
13	1	1	0	0	0	0	37.810	37.807
14	1	0	1	1	1	1	37.820	37.817
15	1	0	1	1	1	0	37.830	37.827
16	1	0	1	1	0	0	37.850	37.847
17	1	0	1	0	1	1	37.860	37.857
18	1	0	1	0	1	0	37.870	37.867
19	1	0	1	0	0	1	37.880	37.877
20	1	0	0	1	1	1	37.900	37.897

1 = <u>5.34</u> Volts 0 = <u>0</u> Volts								
C H A N N E L	IC1 PROGRAM DIVIDER						AM & USB	LSB
	PINS						VCO OUTPUT IN MHz AT TP13	VCO OUTPUT IN MHz AT TP13
	10	11	12	13	14	15		
21	1	0	0	1	1	0	37.910	37.907
22	1	0	0	1	0	1	37.920	37.917
23	1	0	0	0	1	0	37.950	37.947
24	1	0	0	1	0	0	37.930	37.927
25	1	0	0	0	1	1	37.940	37.937
26	1	0	0	0	0	1	37.960	37.957
27	1	0	0	0	0	0	37.970	37.967
28	0	1	1	1	1	1	37.980	37.977
29	0	1	1	1	1	0	37.990	37.987
30	0	1	1	1	0	1	38.000	37.997
31	0	1	1	1	0	0	38.010	38.007
32	0	1	1	0	1	1	38.020	38.017
33	0	1	1	0	1	0	38.030	38.027
34	0	1	1	0	0	1	38.040	38.037
35	0	1	1	0	0	0	38.050	38.047
36	0	1	0	1	1	1	38.060	38.057
37	0	1	0	1	1	0	38.070	38.067
38	0	1	0	1	0	1	38.080	38.077
39	0	1	0	1	0	0	38.090	38.087
40	0	1	0	0	1	1	38.100	38.097

GENERAL ELECTRIC MODEL 3-5825A

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	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D2	MZ205	EA16X136		WEP602			RE 105			ECG135
D3	ITT310	EA16X147								
D4	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D5	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D6	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D7	MZ205	EA16X136		WEP602			RE 105			ECG135
D8	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D9	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D10	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D11	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D12	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D14	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D15	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D16	1S32	EA16X148	1N34AS	1N34A	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109
	MA150	EA16X146(1)	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D17	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D18	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D19	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D20	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D21	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D22	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D23	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D24	1S32	EA16X148	1N34AS	1N34A	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109
D25	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D26	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D27	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D28	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D29	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D30	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D31	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D32	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D33	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D34	1S32	EA16X148	1N34AS	1N34A	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109
D35	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D36	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D37	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D38	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D39	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D40	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D41	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D42	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D43	GP256	EA16X149	GE-504A	5A4D	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116
D44	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D45	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D46	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D47	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D48	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D49	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D50	MZ310	EA16X150	GEZD-10		ZB10B		RE 115	SK3061	RT-241	ECG140A
D51	1S1885	RV1189	GE-504A	5A4D	PTC201	HEPRO052	RE 49	SK3030	RT-213	ECG116
D52	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D53	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D501	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D502	MA150	EA16X146	GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
IC1	PLL02						RE 360-IC			ECG1167
	PLL02A	EA33X8388					RE 360-IC			ECG1167
IC2	C3001	EA33X8394								ECG1192
	C3001A	EA33X8394								ECG1192
	TA7310P	EA33X8394								ECG1192
IC3	C3001	EA33X8394								ECG1192
	C3001A	EA33X8394								ECG1192
	TA7310P	EA33X8394								ECG1192
IC4	AN612	EA33X8395								ECG1192
IC5	TA7205A	EA33X8396	GIEC-179	WEP949	PTC780		RE 357-IC	SK3231	TVM-81	ECG1155
Q1	25C900F	EA4025	GE-62	(IR)25C644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	25C900	(1)	GE-62	(IR)25C644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
Q2	25C710		GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	25C710D	EA15X364(1)	GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q3	25C710D	EA15X364	GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	25C710	(1)	GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q4	25C710D	EA15X364	GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	25C710	(1)	GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q5	25C710D	EA15X364	GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	25C710	(1)	GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	TYPE No.	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.
Q6	2SC710D	EA15X364	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q7	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710D	EA15X364	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q8	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC460B	EA2494	GE-61 *	(IR)2SC460B	PTC136 *	HEPS0014 *	RE 9	SK3018 *	RT-134	ECG107
Q9	2SC460A	EA2494(1)	GE-61 *	(IR)2SC460B	PTC136 *	HEPS0014 *	RE 9	SK3018 *	RT-134	ECG107
	(1)		GE-61 *	(IR)2SC460B	PTC136 *	HEPS0014 *	RE 9	SK3018 *	RT-134	ECG107
Q10	2SC2166	EA15X391	GE-215	WEP1306	PTC186		RE 203	SK3197	RT-146	ECG235
Q11	2SC1969	EA15X392(12)	GE-216	WEP1307	PTC186		RE 201	SK3197	RT-158	ECG236
Q12	2SC710D	EA15X364	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q13	2SC710D	EA15X364	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q14	2SC710C	EA15X365	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q15	2SC710C	EA15X365	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q16	2SC710C	EA15X365	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q17	2SC710C	EA15X365	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q18	2SC710D	EA15X364	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q19	2SC945AQ	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q20	2SC945Q	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC710C	EA15X365	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q21	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710D	EA15X364	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q22	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710C	EA15X365	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q23	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC763D	EA15X393	GE-61 *	(IR)2SC710	PTC115	HEPS0020 *	RE 10 *	SK3018 *	RT-309	ECG108 *
Q24	2SC763	(1)	GE-61 *	(IR)2SC710	PTC115	HEPS0020 *	RE 10 *	SK3018 *	RT-309	ECG108 *
	2SK34	EA15X231	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q25	2SA733Q	RT5207	GE-48	TR-31	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-303	ECG294
	2SA733	(1)	GE-48	TR-31	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-303	ECG294
Q26	2SC763D	(1)	GE-61 *	(IR)2SC710	PTC115	HEPS0020 *	RE 10 *	SK3018 *	RT-309	ECG108 *
	2SC763	(1)	GE-61 *	(IR)2SC710	PTC115	HEPS0020 *	RE 10 *	SK3018 *	RT-309	ECG108 *
Q27	2SC863D	EA15X393(1)	GE-61 *	(IR)2SC710	PTC115	HEPS0020 *	RE 10 *	SK3018 *	RT-309	ECG108 *
	2SC710C	EA15X365	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q28	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710C	EA15X365	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q29	2SC710	(1)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710D	EA15X364	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q30	2SK34	EA15X394	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
	2SC945AQ	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q31	2SC945	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945A	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q32	2SC945Q	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SA733Q	RT5207	GE-48	TR-31	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-303	ECG294
Q33	2SA733	(1)	GE-48	TR-31	PTC103 *	HEPS0019 *	RE 26 *	SK3138	RT-303	ECG294
	2SC945AQ	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q34	2SC945	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945A	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q35	2SC945Q	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC900U	EA4025	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
Q36	2SC900	(1)	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
	2SC945AQ	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q37	2SC945	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945A	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q38	2SA719Q	EA15X395	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
	2SA719	(1)	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
Q39	2SA719Q	EA15X395	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
	2SA719	(1)	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
Q40	2SC945AQ	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q41	2SC945A	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945Q	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q42	2SA683R	EA15X396	GE-61 *	TR-83	PTC133 *	HEPS0020	RE 10	SK3019	RT-108 *	ECG108
	2SA683	(1)	GE-61 *	TR-83	PTC133 *	HEPS0020	RE 10	SK3019	RT-108 *	ECG108
Q43	2SC1383R	EA15X397	GE-47	WEP912	PTC143 *	HEPS3001 *	RE 220	SK3024 *	RT-302	ECG293
	2SC1383	(1)	GE-47	WEP912	PTC143 *	HEPS3001 *	RE 220	SK3024 *	RT-302	ECG293

GENERAL ELECTRIC MODEL 3-5825A

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Q44	2SC1398P	(1)	GE-66 *	TR-76	PTC154		RE 21	SK3054	RT-197	ECG152
	2SC1398		GE-66 *	TR-76	PTC154		RE 21	SK3054	RT-197	ECG152
	2SC1847Q	EA15X398(1)	GE-336				RE 209			ECG306
Q45	2SC710C	EA15X365	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710	(1)(13)	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q46	2SC945AQ		GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945A	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945Q	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q501	2SC945AP		GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945A	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945P	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q502	2SC945AP		GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945	(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945A	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC945P	RT7557(1)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199

* Lead configuration may vary from original.

(1) Used in some versions.

(12) 20 W @ 6 AMP.

(13) Transistor used as a Diode.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNEILL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C3	.1 35V	EA31X241		TDC104M050EL	QDT1-2	SD50-R109
C4	.22 35V	RT3774		TDC224M050EL	QDT1-10	SD50-R229
C5	10 16V	EA31X246		TDC106M025FL	QDT1-64	SD25-109
C8	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C25	47 6.3V	EA31X185	PC50-16	VTT47D16	QV1-73	EV-1226
C33	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C58	.22 35V	RT3774		TDC224M050EL	QDT1-10	SD50-R229
C63	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C76	.22 35V	RT3774		TDC224M050EL	QDT1-10	SD50-R229
C78	.22 35V	RT3774		TDC224M050EL	QDT1-10	SD50-R229
C80	10 16V	EA31X246	PC10-25	VTT10B25	QV1-41	EV-1222
C87	.22 35V	RT3774		TDC224M050EL	QDT1-10	SD50-R229
C97	33 6.3V	RT5269	PC30-25	VTT33B10	QV1-61	EV-1125
C108	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C119	10 16V	EA31X246	PC10-25	VTT10B25	QV1-41	EV-1222
C127	10 16V	EA31X246	PC10-25	VTT10B25	QV1-41	EV-1222
C129	3.3 25V	EA31X239	PC5-50	VTT3R3A50	QV1-25	EV-1618
C131	4.7 25V	EA31X211	PC5-50	VTT4R7B50	QV1-27	EV-1319
C135	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C141	1 25V	RT5443		TDC105M035EL		SD35-19
C142	3.3 25V	EA31X239	PC5-50	VTT3R3A50	QV1-23	EV-1318
C143	1 25V	RT5443		TDC105M035EL		SD35-19
C145	10 16V	EA31X246	PC10-25	VTT10B25	QV1-41	EV-1222
C148	10 16V	EA31X246	PC10-25	VTT10B25	QV1-41	EV-1222
C150	4.7 25V	EA31X211	PC5-50	VTT4R7B50	QV1-27	EV-1319
C156	3.9 10V	EA31X242		TAC395K010P02	QDT1-44	SD15-3R99
C160	33 6.3V	RT5269	PC30-25	VTT33B10	QV1-61	EV-1125
C162	47 16V	EA31X214	PC50-16	VTT47D16	QV1-73	EV-1226
C164	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C166	2200 16V	EA31X192	WBR2000-16	TC1520C	QE1-643	TVA-1175.3
C167	330 16V	RV2010	WBR300-35	VTT330H16	QV1-133	EV-1245
C168	100 16V	RT4769	PC100-16	VTT100F16	QV1-95	EV-1230
C170	.47 50V		PC1-50	VTT4R7A63	QV1-3	EV-1610
C171	47 6.3V	EA31X185	PC50-16	VTT47D16	QV1-73	EV-1226
C173	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C175	2.2 25V	EA31X187	PC2-100	VTT2R2A50	QV1-19	EV-1517
C176	47 16V	EA31X214	PC50-16	VTT47D16	QV1-73	EV-1226
C178	33 16V	RT8165	PC30-25	VTT33D25	QV1-63	EV-1325
C179	47 16V	EA31X214	PC50-16	VTT47D16	QV1-73	EV-1226
C182	.47 50V	EA31X134	PC1-50	VTT4R7A63	QV1-3	EV-1610
C193	4.7 25V	EA31X211	PC5-50	VTT4R7B50	QV1-27	EV-1319

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	.0047 50V			WMF1D47	EWFA1A247	QFT2-63	1FT-D47
C2	.022 10% 50V			DPMS2S22	EWFA1A122	QFT2-127	1FT-S22
C6	33 N150 10% 50V	EA18X232			*		10TCP-Q33
C7	12 N150 50V	EA18X248			*		10TCP-Q12
C9	.001 10% 50V		DD-102		GP210		10TS-D10
C10	.0012 5% 50V			DPMS6D12	PVC6212		6PS-D12
C11	2 N150 50V	EA18X160			*		10TCP-V22
C12	33 N150 10% 50V	EA18X232			*		10TCP-Q33
C13	33 N150 10% 50V	EA18X232			*		10TCP-Q33
C14	10 N150 50V	EA18X152			*		10TCP-Q10
C15	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C16	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C17	33 N150 10% 50V	EA18X232			*		10TCP-Q33
C18	.001 10% 50V		DD-102		GP210		10TS-D10
C19	220 N150 10% 50V	EA18X218			*		10TCP-T22
C20	22 NPO 30V		DTZ-22	NPQ22	CN0422		10TCC-Q22
C21	15 NPO 50V		DTZ-15	NP015	CN0415		10TCC-Q15
C22	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C23	.001 10% 50V			DPMS6D1	EWFA1A210	QFT2-13	1FT-D10
C24	68 N150 10% 50V	EA18X173			*		10TCP-Q68
C26	.047 10% 50V				EWFA1A147	QFT2-171	1FT-S47
C27	.047 50V				EWFA1A147	QFT2-171	1FT-S47
C28	.001 10% 50V			DPMS601	EWFA1A210	QFT2-13	1FT-D10
C29	5 N150 50V	EA2525			*		10TCP-V50
C30	68 N150 10% 50V	EA18X173			*		10TCP-Q68
C31	27 NPO 10% 50V				CN0427		10TCC-Q27
C32	560 10% 50V		DD-561		GP356		10TS-T56
C34	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C35	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C36	150 N150 10% 50V	EA18X217			*		10TCP-T15
C37	82 N150 10% 50V	EA18X234			*		10TCP-Q82
C38	56 N150 10% 50V				*		10TCP-Q56
C39	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C40	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C42	3 N150 50V	EA18X174			*		10TCP-V30
C43	47 N150 10% 50V	EA18X246			*		10TCP-Q47
C45	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C46	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C47	47 N150 10% 50V	EA18X246			*		10TCP-Q47
C48	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C49	390 10% 50V		DD-391	GP390	GP339		10TS-T39
C50	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C51	.047 10% 50V				EWFA1A147	QFT2-171	1FT-S47
C52	82 N150 10% 50V	EA18X234			*		10TCP-Q82
C53	220 N150 10% 50V				*		10TCP-T22
C54	150 N150 10% 50V	EA18X217			*		10TCP-T15
C55	560 10% 50V		DD-561		GP356		10TS-T56
C56	47 N150 10% 50V	EA18X246			*		10TCP-Q47
C57	470 10% 50V		DD-471	GP470	GP347		10TS-T47
C59	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C60	5 N150 50V	EA2525			*		10TCP-V50
C61	2 N150 50V	EA18X160			*		10TCP-V22
C62	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C64	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C65	39 NPO 10% 50V				CN0439		10TCC-Q39
C66	10 NPO 50V	EA18X152	DTZ-10	NP010	CN0410		10TCC-Q10
C67	.001 10% 50V			DPMS601	EWFA1A210	QFT2-13	1FT-D10
C69	220 N150 10% 50V	EA18X218			*		10TCP-T22
C70	220 N150 10% 50V	EA18X218			*		10TCP-T22
C71	8 N150 50V	EA2534			*		10TCP-V82
C72	100 N150 10% 50V	RT7334			*		10TCP-T10
C73	33 N150 10% 50V	EA18X232			*		10TCP-Q33
C74	22 N150 50V	EA18X151			*		10TCP-Q22
C75	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C77	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C79	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C81	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C82	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C83	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C84	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C85	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C86	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C88	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C89	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C90	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C91	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C92	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C93	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C94	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C95	6 N075 50V				*		10TCP-Q33
C96	33 N150 10% 50V	EA18X232		DPMS601	EWFA1A210	QFT2-13	1FT-D10
C98	.001 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C99	.01 10% 50V				*		10TCP-Q33
C100	33 N150 10% 50V	EA18X232			*		10TCP-Q33
C101	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C102	.047 10% 50V				EWFA1A147	QFT2-171	1FT-S47
C103	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C104	3 N150 50V	EA18X174			*		10TCP-V30
C105	.01 10% 50V			WMF1S1	EWFA1A110	QFT2-91	1FT-S10

GENERAL ELECTRIC MODEL 3-5825A

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
C106	.01 10% 50V	EA18X141	DD-221	WMF1S1	EWF1A110	QFT2-91	1FT-S10
C107	39 N150 10% 50V				*		10TCR-Q39
C109	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C110	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C111	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C112	5 N150 50V	EA2525			*		10TCP-V50
C113	220 10% 50V	EA18X218			GP322		10TS-T22
C114	.0047 5% 50V	EA2434					
C115	.001 10% 50V			DPMS601	EWF1A210	QFT2-13	1FT-D10
C116	.033 10% 50V				MAG50133	QFT2-149	1FT-S30
C117	.0047 5% 50V	EA2434					
C118	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C121	.001 10% 50V			DPMS601	EWF1A210	QFT2-13	1FT-D10
C122	27 N150 50V	EA18X181			*		10TCP-Q27
C123	.033 10% 50V		DD-221		MAG50133	QFT2-149	1FT-S30
C124	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C125	.033 10% 50V				MAG50133	QFT2-149	1FT-S30
C126	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C128	.0047 5% 50V	EA2434					
C130	.033 10% 50V				MAG50133	QFT2-149	1FT-S30
C132	.0047 5% 50V	EA2434					
C133	220 10%				GP322		10TS-T22
C134	.0082 10% 50V			WMF1D82	EWF1A282	QFT2-85	1FT-D82
C136	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C137	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C138	100 N150 50V	RT7334	DD-221		*		10TCP-T10
C139	22 N150 50V	EA18X151			*		10TCP-Q22
C140	5 N150 50V	EA2525			*		10TCP-V50
C144	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C146	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C149	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C151	.0022 10% 50V			DPMS6D22	EWF6222	QFT2-27	1FT-D22
C152	.022 10% 50V			DPMS2S22	EWF1A122	QFT2-127	1FT-S22
C153	220 10%				GP322		10TS-T22
C154	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C155	.0022 10% 50V		DD-680	DPMS6D22	EWF6222	QFT2-27	1FT-D22
C157	68 50V			GP68	GP468		10TS-Q68
C158	150 N550 5% 50V	EA18X217			*		10TCR-T10
C159	68 50V			GP68	GP468		10TS-Q68
C161	.068 10% 50V			WMF1S68	EWF1A168	QF1-195	1PB-S68
C163	100 N150 10% 50V	RT7334	UK50-503		*		10TCP-T10
C165	.047 50V				MAG5015		
C169	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C172	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C174	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C180	.047 50V		UK50-503		MAG5015		
C181	.047 50V				MAG5015		
C183	.001 10% 50V			DPMS601	EWF1A210	QFT2-13	1FT-D10
C184	270 10% 50V			GP270	GP327		10TS-T27
C185	39 N150 10% 50V	EA18X141			*		10TCP-Q39
C186	220 N150 10% 50V	EA18X218	DD-271		*		10TCP-T22
C187	18 N150 50V	EA18X202			*		10TCP-Q18
C188	18 N150 50V	EA18X202			*		10TCP-Q18
C189	.047 50V				MAG5015		
C190	.01 10% 50V			WMF1S1	EWF1A110	QFT2-91	1FT-S10
C191	.01 10% 50V		UK50-503	WMF1S1	EWF1A110	QFT2-91	1FT-S10
C192	.047 10% 50V				EWF1A147	QFT2-171	1FT-S47
C194	100 10% 50V			GP100	GP310		10TS-T10
C195	.0022 5%						
C197	.0022						
C198	.047		UK50-503		GP222		10TS-D22
C201	39 N150 10%	EA18X141			MAG5015		
C202	.01 50V				*		10TCP-Q39
C203	.01 50V			MGP01	TA110	QC2-141	TG-S10
C204	.001 50V			MGP01	TA110	QC2-141	TG-S10
C205	.047 50V		UK50-503		TA110		
C206	.047 50V				MAG5015		
C207	.01 50V				MAG5015		
C208	.001 50V			MGP01	TA110	QC2-141	TG-S10
C209	.01 50V				GP210		10TS-D10
C210	.047 50V		UK50-503		TA110	QC2-141	TG-S10
C211	.047				MAG5015		
C212	.047 50V				MAG5015		
C213	.047				MAG5015		
C501	.01 50V			MGP01	TA110	QC2-141	TG-S10
C502	.01 50V			MGP01	TA110	QC2-141	TG-S10
CT1	20	EA30X52					
CT2	20	EA30X52					
CT3	20	EA30X52					
CT4	20	EA30X52					
CT5	20	EA30X52					

*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	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
RV1	Bias	100	EA49X358				
RV2	SSB Power	5000	EA49X359				
RV3	RF Meter	20K	EA49X332				
RV4	Balance	1000	EA49X360				
RV5	Balance	10K	EA49X330				
RV6	AM S Meter	10K	EA49X330				
RV7	SSB S Meter	10K	EA49X330				
RV8	AGC	5000	EA49X359				
RV9	AM Squelch Range	20K	EA49X332				
RV10	Squelch Range	200K	EA49X361				
RV11	SSB Mix Gain	500	EA49X362				
RV12	AMC	2000	EA49X331				
RV501	AWI	20K		T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
	AWI	10K	EA49X363(6)				
VR1	Volume/Switch	50K	EA49X405				
VR2	Squelch	50K	EA49X406				
VR3	RF Gain	50K	EA49X364				
VR4	Clarifier	50K	EA49X365				
VR5	AM Power	6 10W	EA49X366				

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

(6) Alternate part, may be used in some versions.

GENERAL ELECTRIC MODEL 3-5825A

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke (2.2uH)	EA36X237			
L2	RF Choke (68uH)	EA36X239			
L3	RF Choke	EA36X290			
L4	RF Choke (2.2uH)	EA36X237			
L5	RF Choke (2.2uH)	EA36X237			
L6	RF Choke (1.95uH)	EA36X291			
L7	RF Driver (27MHz)	EA36X292			
L8	RF Choke (.75uH)	EA36X293			
L9	RF Choke (.75uH)	EA36X294			
L10	RF Choke (.75uH)	EA36X293			
L11	RF Power (27MHz)	EA36X295			
L12	RF Choke (.335uH)	EA36X296			
L13	Antenna Match (27MHz)	EA36X297			
L14	RF Choke (4.7uH)	EA36X298			
L15	Pi Filter (2.2uH)	EA36X237			
L16	RF Choke (1uH)	EA36X259			
L17	RF Choke (68uH)	EA36X239			
L18	RF Choke (1mH)	EA36X300			
L19	RF Choke (68uH)	EA36X239			
L20	RF Choke (1.15uH)	EA36X263			
L21	RF Choke (1.15uH)	EA36X263			
L22	RF Choke (.75uH)	EA36X244			
L23	RF Choke (.75uH)	EA36X244	100B-002S-60C3		
L24	RF Choke				
L201	Pi Filter	EA36X301			
T1	VCO/Mixer (38.100MHz)	EA36X258	10MA-015S		
T2	VCO/Mixer (37.660MHz)	EA36X280	10MB-005S-X0		
T3	Osc 1 (20.1MHz)	EA36X281			
T4	RF ALC (27MHz)	EA36X282			
T5	RF ALC (27MHz)	EA36X283	10CB-003-6NC3		
T6	RF Preamp (27MHz)	EA36X284			
T7	Rec Antenna (27MHz)	EA36X249	10MP-003S		
T8	Rec RF (27MHz)	EA36X282			
T9	Rec RF (27MHz)	EA36X247			
T10	Noise Blanker (10.695MHz)	EA36X285			
T11	SSB 1st IF (10.6935MHz)	EA36X286			
T12	SSB 2nd IF (10.6935MHz)	EA36X286			
T13	Noise Blanker (10.695MHz)	EA36X287	10MA-014S		
T14	IF (455kHz)	EA36X288			
T15	IF (455kHz)	EA36X289			

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.	
CH	1.75A	.24	3.72mH	EA36X256 LJ119H004W (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.	
T16	2	8	EA64X33 TBG28A004W (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3 1/2" PM 8 Ohms	EA95X115	3A05Z8R	

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	3A Fast Acting	EA68X64		AGC3	HDJ	312003	150145	FG3-2

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	EA68X123				18-092	1	2	4	3	NC	2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF	Filter	EA36X232	455kHz
J1	Jack	EA41X155	Antenna
J2	Jack	EA41X135	PA
J3	Jack	EA41X135	External Speaker
J4	Jack	EA41X156	DC Power
J5	Jack	EA41X157	Microphone
LED301	Led	EA93X293	Channel Readout
M1	Meter	EA62X154	RF P/S (Includes PL1)
PL1	Lamp		Meter Illumination (Part of Meter M1) (5.04V @ 60mA)
PL2	Lamp	EA41X158	Antenna Warning Indicator (5.55V @ 35mA)
PL3	Lamp	EA41X158	TX Indicator (4.00V @ 25mA)
S1	Switch		Power (Part of Volume Control)
S2	Switch	EA39X228	LSB/AM/USB
S3	Switch	EA39X229	PA/CB
S4	Switch	EA39X229	NB & ANL
S5	Switch	EA39X229	Tone (LO/HI)
SW1	Switch	EA39X230	Channel Selector
XF	Filter	EA36X279	10.695MHz
X1	Crystal	EA75X9	10.0525MHz (Osc 1)
X2	Crystal	EA75X10	10.2400MHz (Osc 2)
X3	Crystal	EA75X11	10.6920MHz (Osc 3)
	Power Cord	EA68X119	DC 2 Pin
	Adapter Cord	EA68X118	Auto 2 Pin

GENERAL ELECTRIC MODEL 3-5825A

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

ITEM	PART No.	ITEM	PART No.
Cabinet, Top	EA92X37	Side Panel, Left	EA92X35
Cabinet, Bottom	EA92X38	Knob, Channel Select	EA43X683
Control, Panel	EA90X192	Knob, Volume/Squelch/Clarifier/RF Gain	EA43X682
Panel, Rear	EA92X36	Knob, Delta Tune	EA43X687
Side Panel, Right	EA92X34		

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')