

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 14T302

MANUFACTURER'S SPECIFICATIONS

GENERAL

Channels: 40

Mode of Operation: LSB, USB and AM

Frequency Range: 26.965-27.405 MHz

PLL (Phase Lock Loop) Synthesizer

Operating Temperature Range:

-30°C to +50°C (-22°F to +112°F)

Power Source:

13.8 VDC* Positive or Negative

Ground

Current Drain:

Transmit: 2.3A max.

Receive: 0.4A nom.

Harmonic and Spurious Suppression:

60 dB or greater

Antenna Impedance:

for 50-ohm Antenna Systems

SSB TRANSMITTER

Generation Method:

Double balanced modulator with
crystal lattice filter

RF Output:

12W PEP, FCC maximum, at 13.8V

Carrier Suppression: 40 dB down

Unwanted sideband suppression:

60 dB or greater

Harmonic and Spurious Suppression:

More than 60 dB down

Dimensions:

7.5"W x 2.5"H x 10-1/4"D

(190mm W x 65mm H x 259mm D)

Weight:

1 lb. 15 oz. (3.13 kg)

AM TRANSMITTER

Emission: 6A3

RF Power Output: 4W

Modulation Type: AM

Modulation Level:

100% max. AM (limited to FCC specs)

RECEIVER

System:

SSB — Single conversion superheterodyne

AM — Dual conversion superheterodyne

Sensitivity:

SSB — 0.25 μ V for 10 dB S/N

AM — 1 μ V for 10 dB S/N

Selectivity:

SSB — 2.5 KHz at 6 dB down

AM — 6 KHz at 6 dB down

Clarifier: $\pm$ 600 Hz

Audio Output: 3 watts

Squelch Range:

SSB — 0.7 μ V to 20 μ V

AM — 1 μ V to 500 μ V

IF:

SSB — 10.695 MHz

AM — 1st: 10.695 MHz/ 2nd: 455 KHz

**Performance based on 13.8VDC. Unit designed to operate on typical 12 volt systems.*

Courtesy of the Manufacturer

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

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RCA MODEL 14T302

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 C28, IC1 Pin 3).	Ch. 19, USB	CT3	Adjust for 10.240MHz $\pm$ 50Hz.
Input of oscilloscope to TP3. (IC2, Pin 4).	Ch. 19, USB	T3	Adjust for maximum.
Input of frequency counter to TP3. (IC2, Pin 4).	Ch. 19, USB Clarifier Midrange	CT1	Adjust for 20.105MHz $\pm$ 40Hz.
	Ch. 19, LSB Clarifier Midrange	CT2	Adjust for 20.1035MHz $\pm$ 40Hz.
Input of frequency counter to TP5. (Junction L15, C70 & C71).	Ch. 19, USB	CT5	Adjust for 10.695MHz $\pm$ 50Hz.
	Ch. 19, LSB	CT4	Adjust for 10.692MHz $\pm$ 50Hz.
Input of DC meter to TP1. (Junction R1 & R2).	Ch. USB	VCO	Adjust for 3.6 volt $\pm$ 0.1 volt.
Inject a 240Hz, 2.5mV signal at MIC input.	Ch. 40, USB Xmit	T1	Adjust for maximum.
Input of RF VTVM to antenna jack.	Ch. 1, USB Xmit	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 Squelch MINIMUM NB Off LOC/DX - DX	T14, T15	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz @ 30% modulation.	Ch. 19, AM Clarifier Midrange RF Gain Maximum Squelch MINIMUM NB Off LOC/DX - DX	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	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.186MHz, no modulation.	Ch. 19, USB Clarifier Midrange Squelch MINIMUM NB Off LOC/DX - DX	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	TRANSCIVER	ADJUST	REMARKS
Input of DC meter to terminal 15 (Base of Q20). No signal input.	Ch. 19, USB Squelch MINIMUM NB Off LOC/DX - DX	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 NB Off LOC/DX - DX	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. 27.185MHz, no modulation. Output 500uV.	Ch. 19, USB NB Off LOC/DX - DX	RV10	SSB SQUELCH RANGE Set Squelch Control VR2 fully clockwise. adjust RV10 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19, AM NB Off LOC/DX - DX	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 NB Off LOC/DX - DX S/RE/CAL/SWR - S/RF	RV7	SSB S METER Adjust RV7 for 9 on S scale of meter.

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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).	Ch. 19, USB	T11	Adjust for maximum.
Inject a 2400Hz, 25mV signal at MIC input.	Ch. 19, USB	RV11	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.

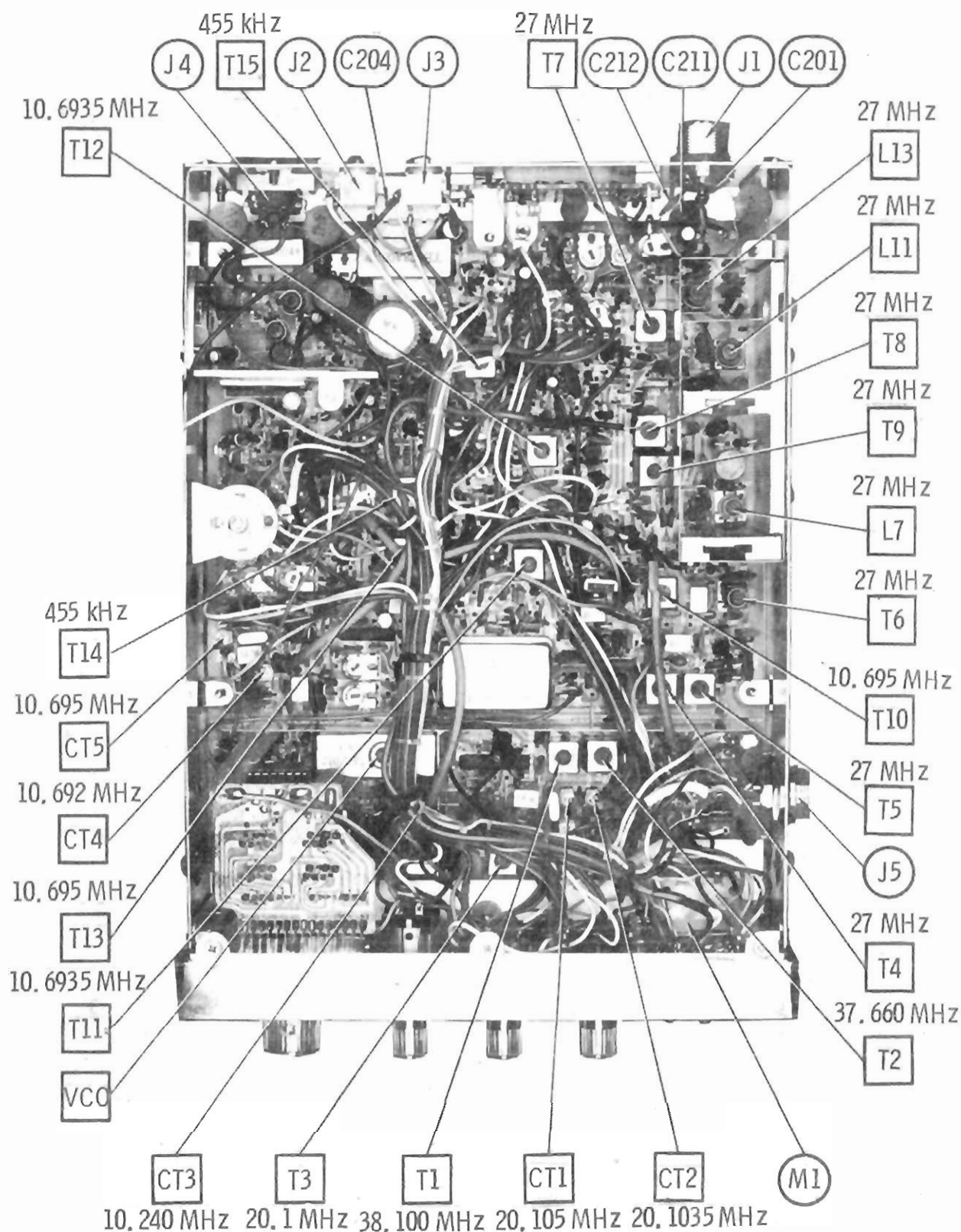
TRANSMITTER ADJUSTMENTS

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

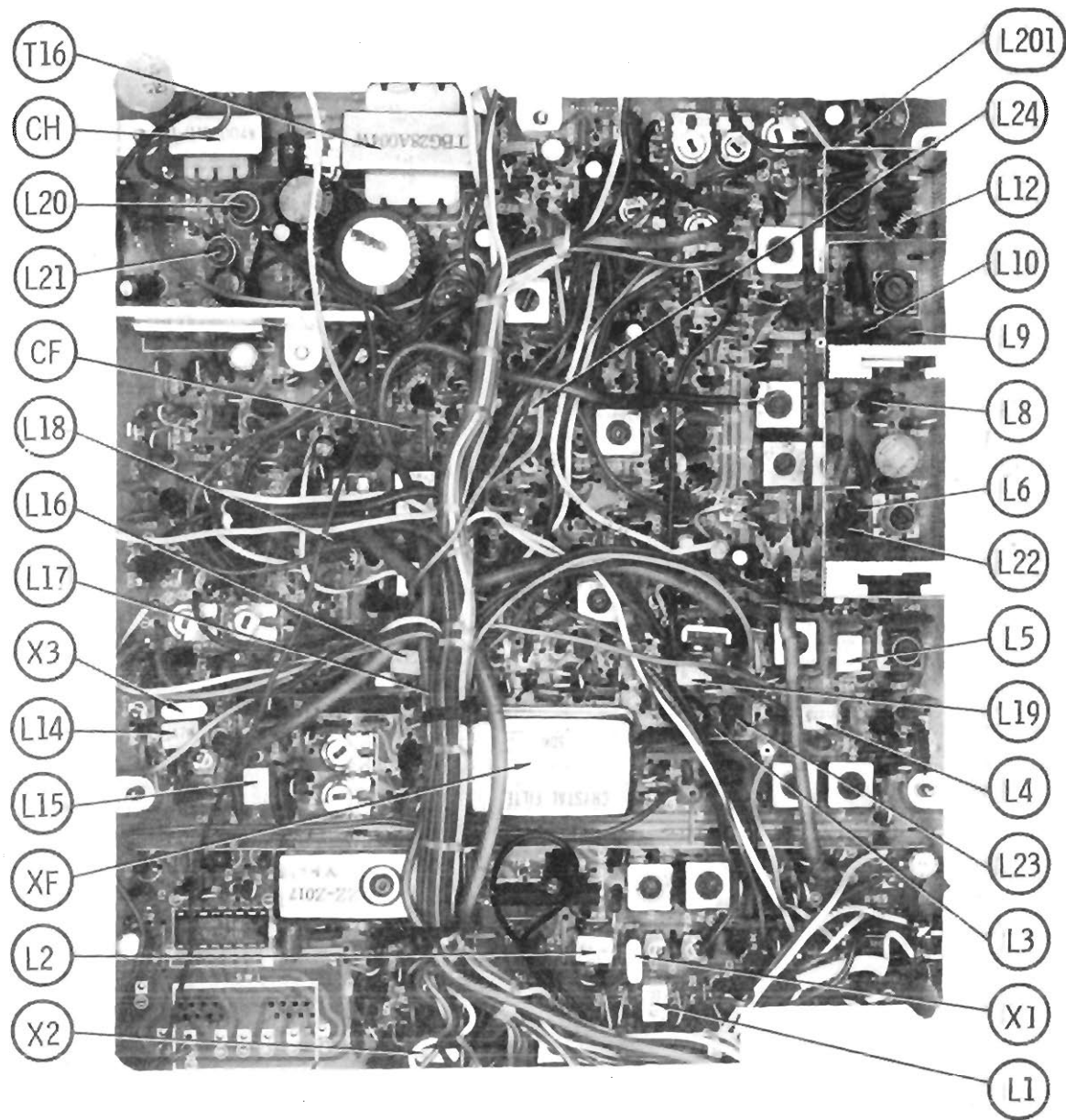
NOTE: Be sure to check transmit frequency and power on all active channels after adjustment of transmitter.

See page 4 for channel frequencies.

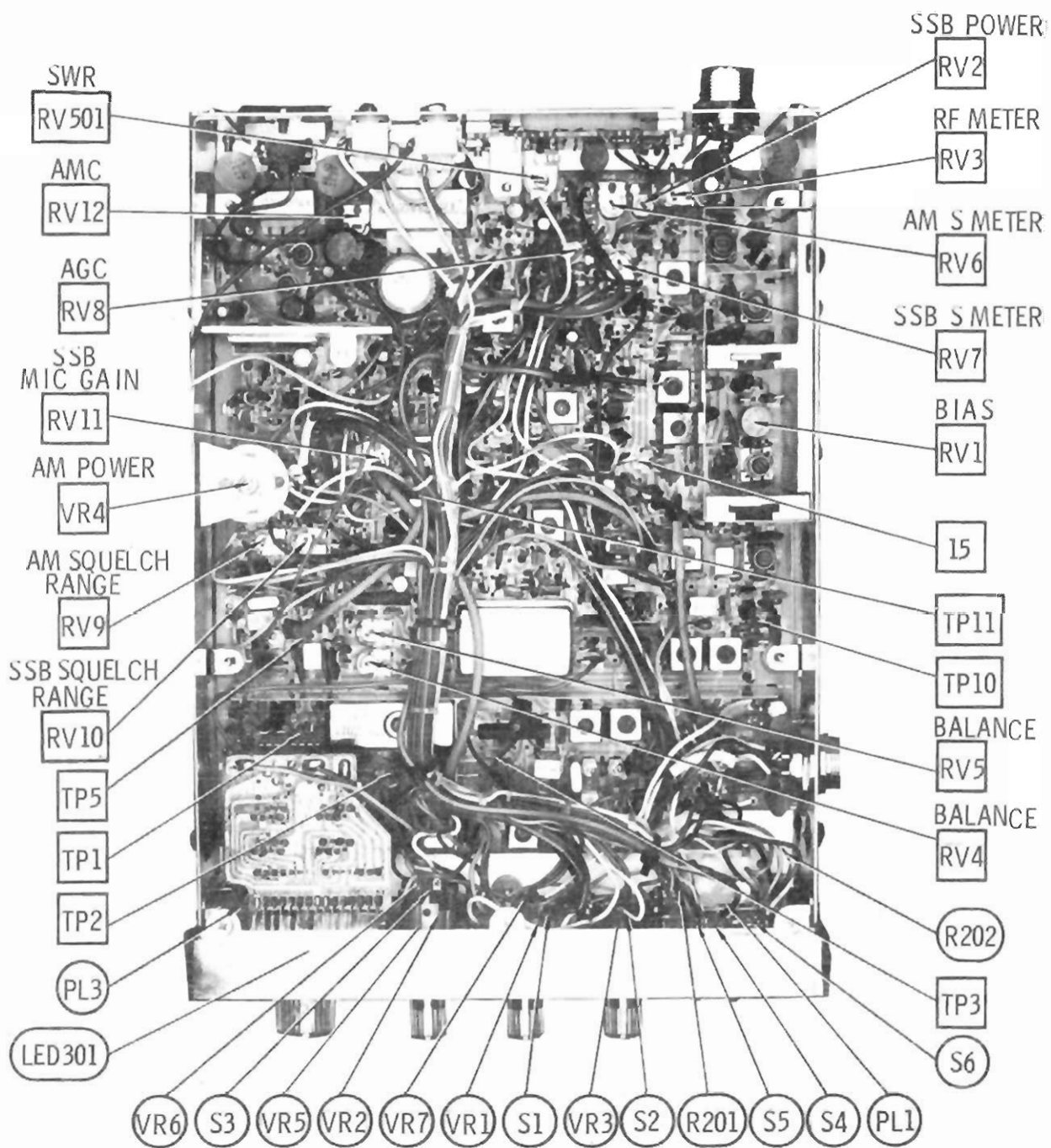
TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Inject a 2400Hz, 2.5mV signal at MIC input. Connect a milliammeter between Q10 emitter and ground.	Ch. 19, USB	RV1	BIAS Adjust for $35\text{mA} \pm 10\text{mA}$.
RF wattmeter (See connection above) No signal input.	Ch. 19, USB	RV4, RV5	BALANCE Adjust for MINIMUM 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	VR4	AM POWER Adjust frequency 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 S/RF/CAL/WK-S/RF	RV3	POWER METER Adjust RV3 so that RF panel meter agrees with RF wattmeter.
Connect a 100-Ohm 5 watt non-inductive resistor to antenna jack.	Ch. 19, AM	RV501	SWR Place S/RF/CAL/SWR switch to CAL position. Adjust SWR/CAL (VR7) to set on SWR scale of meter. Place SRF/CAL/SWR switch to SWR position. Adjust RV501 for 2 on SWR scale of meter.



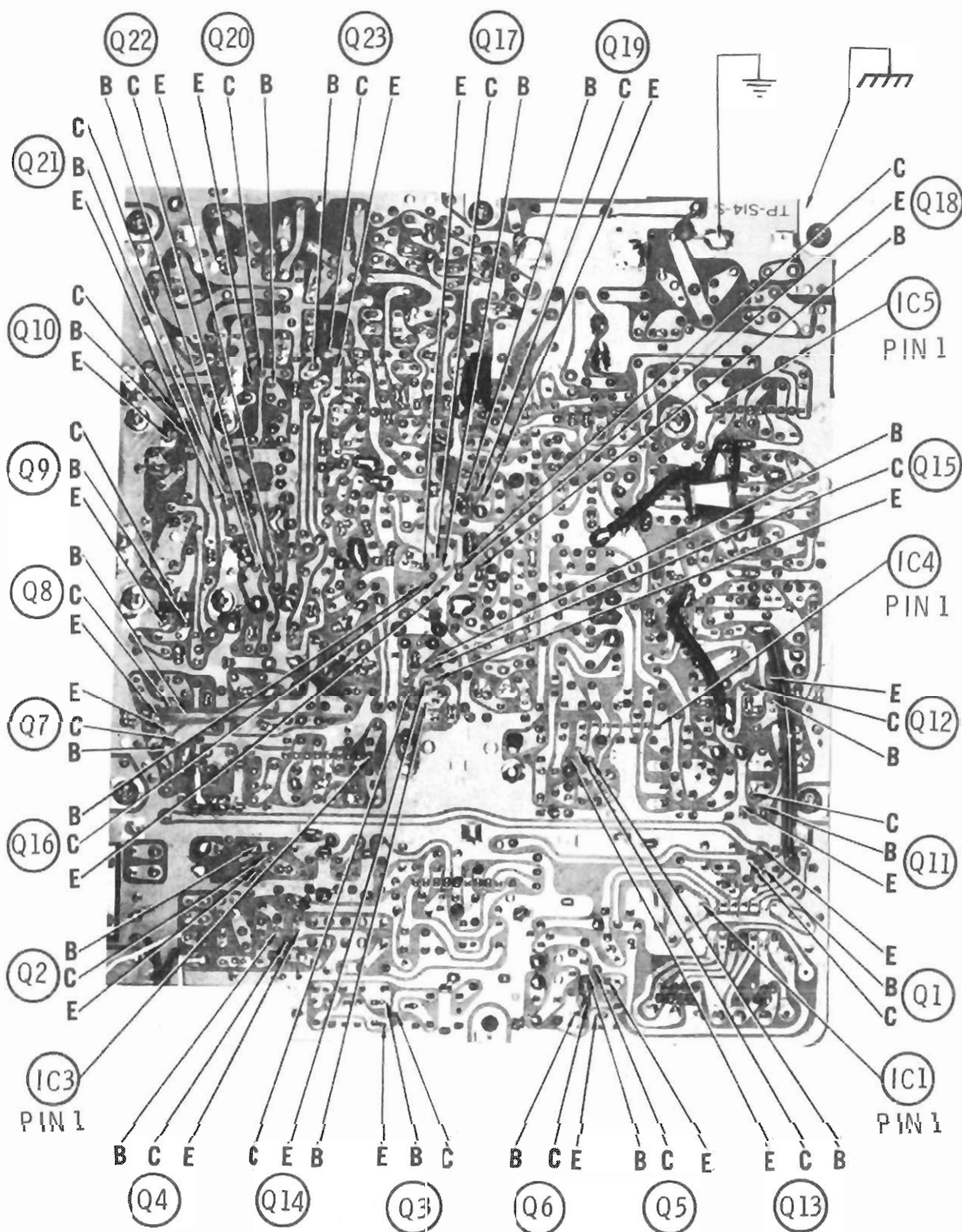
CHASSIS-BOTTOM



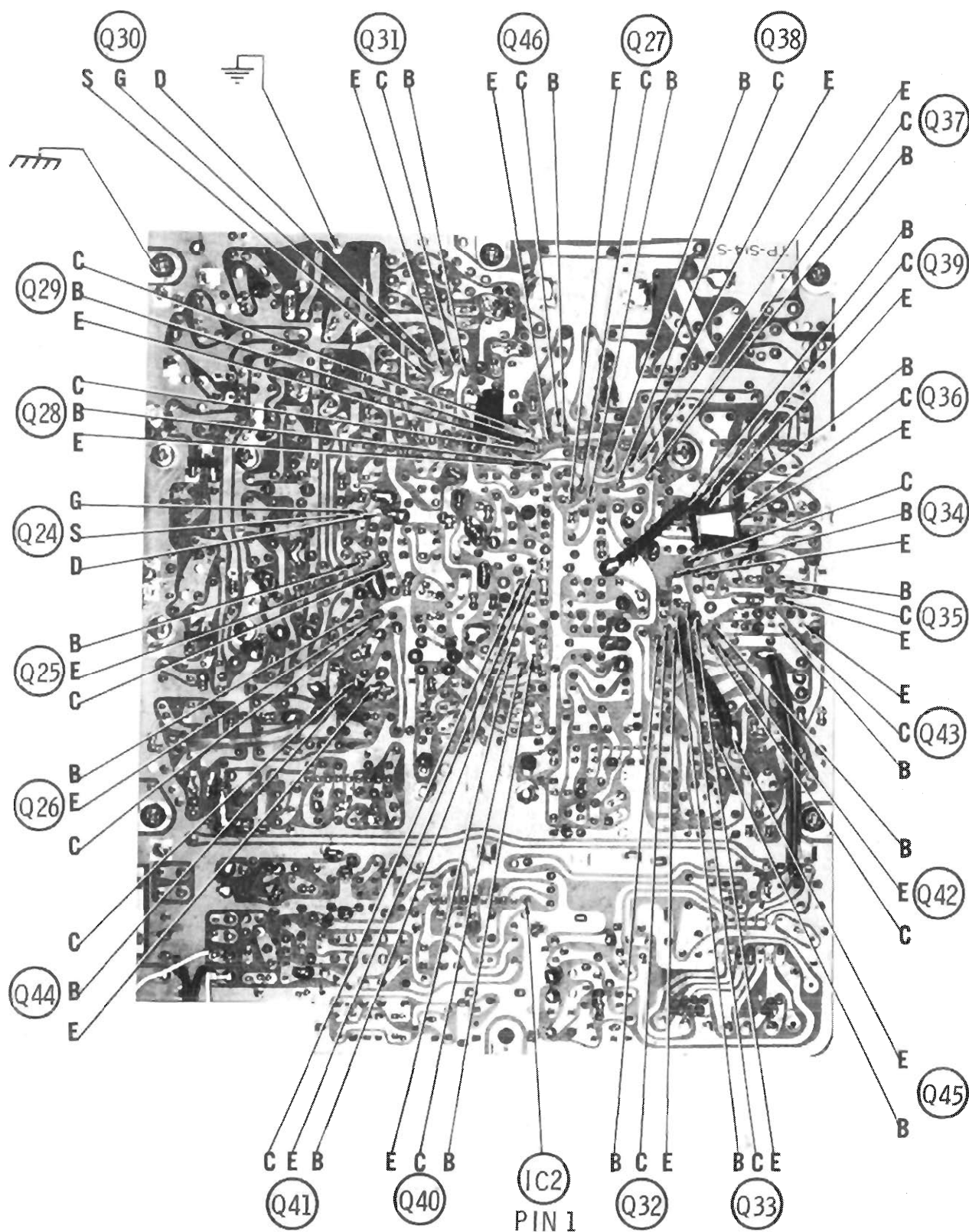
MAIN BOARD



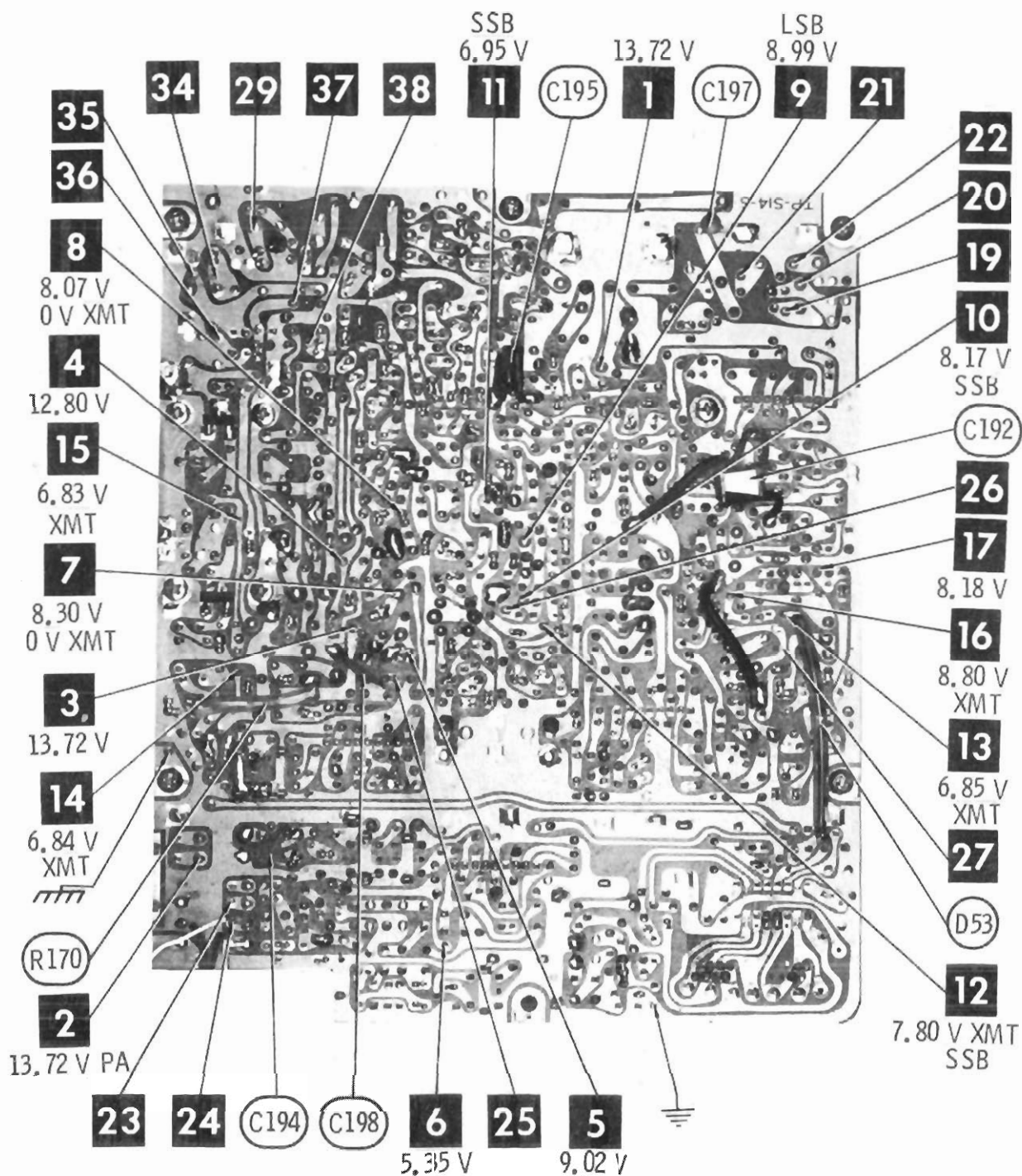
CHASS IS -BOTTOM



MAIN BOARD

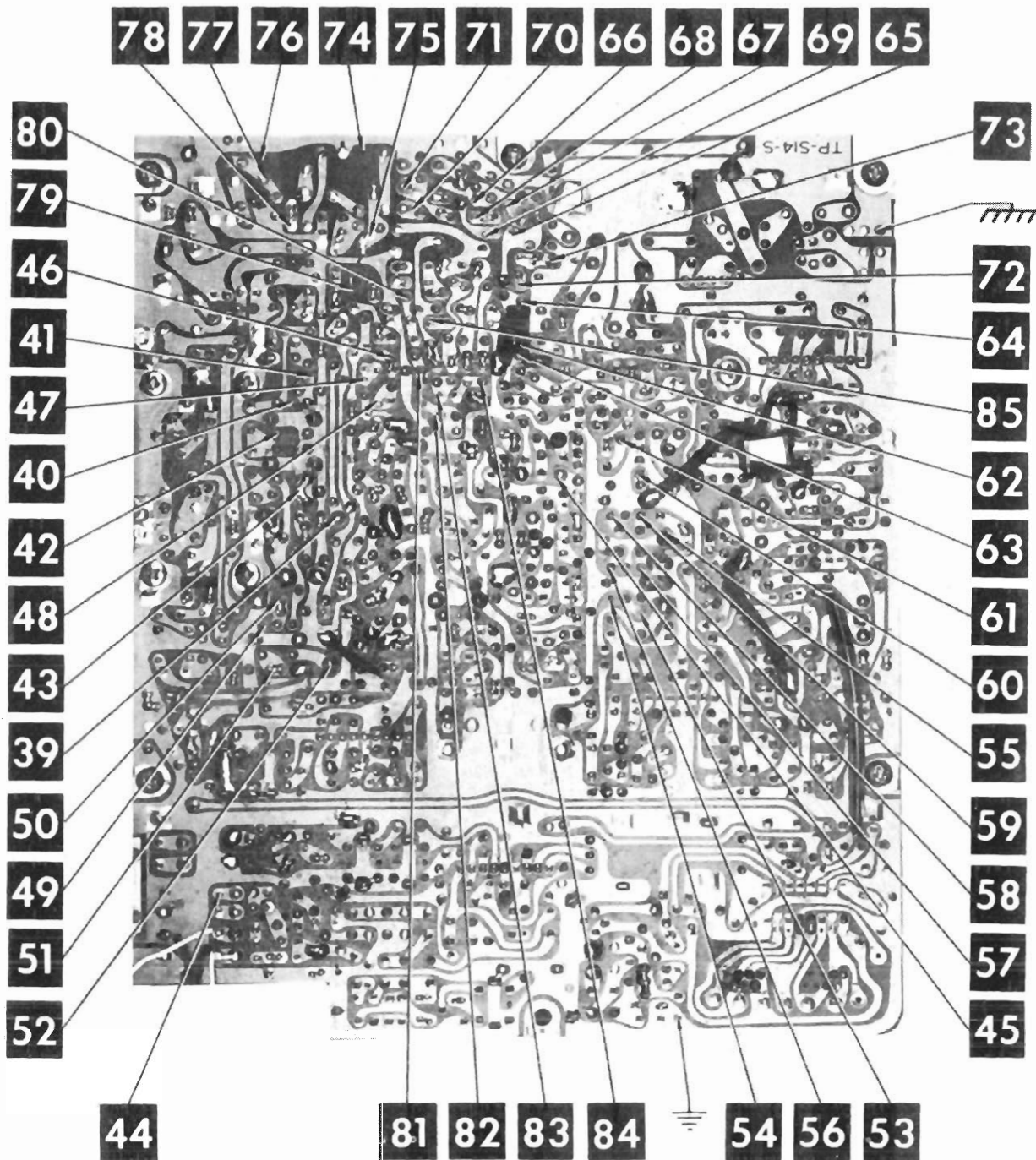


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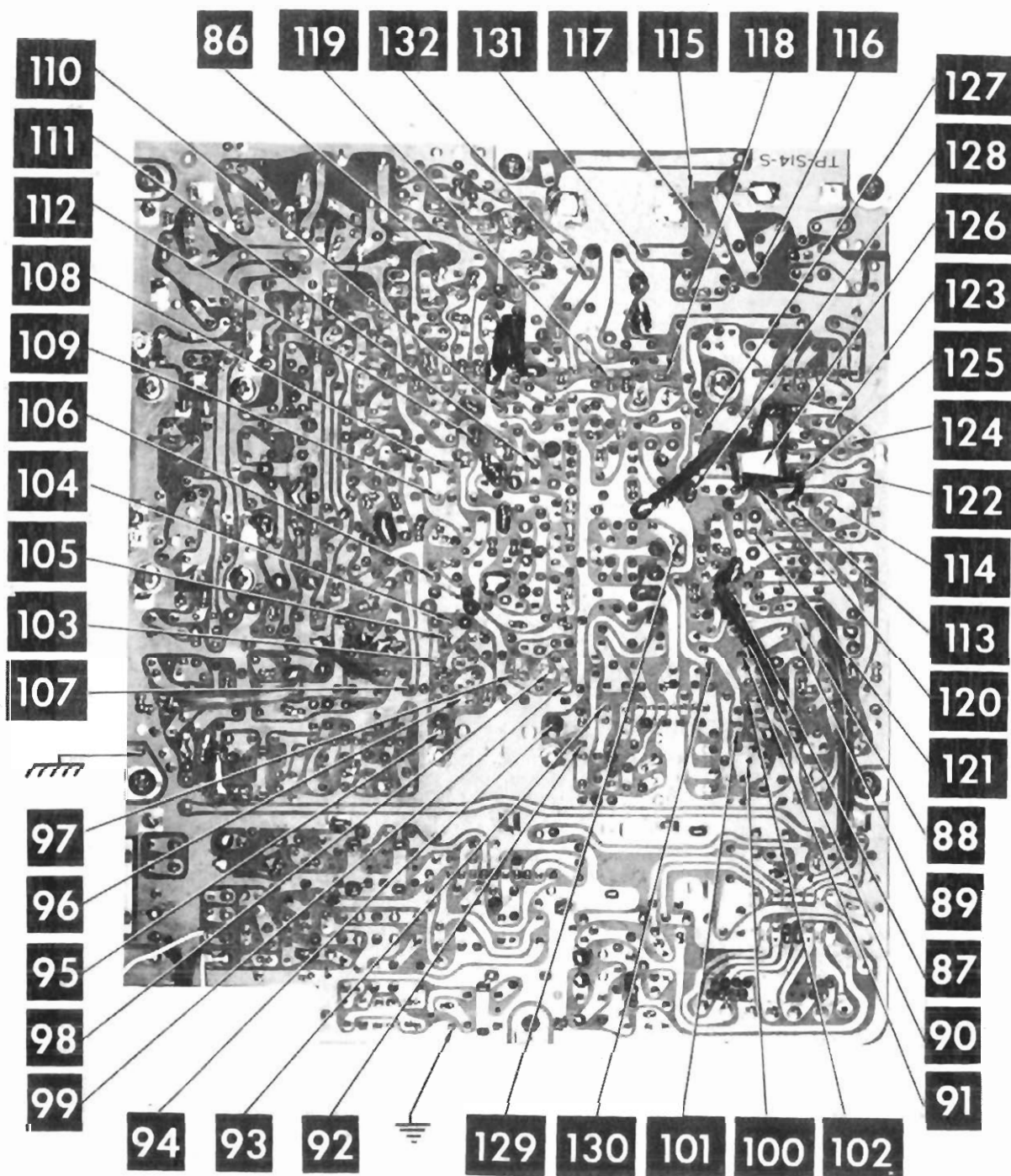


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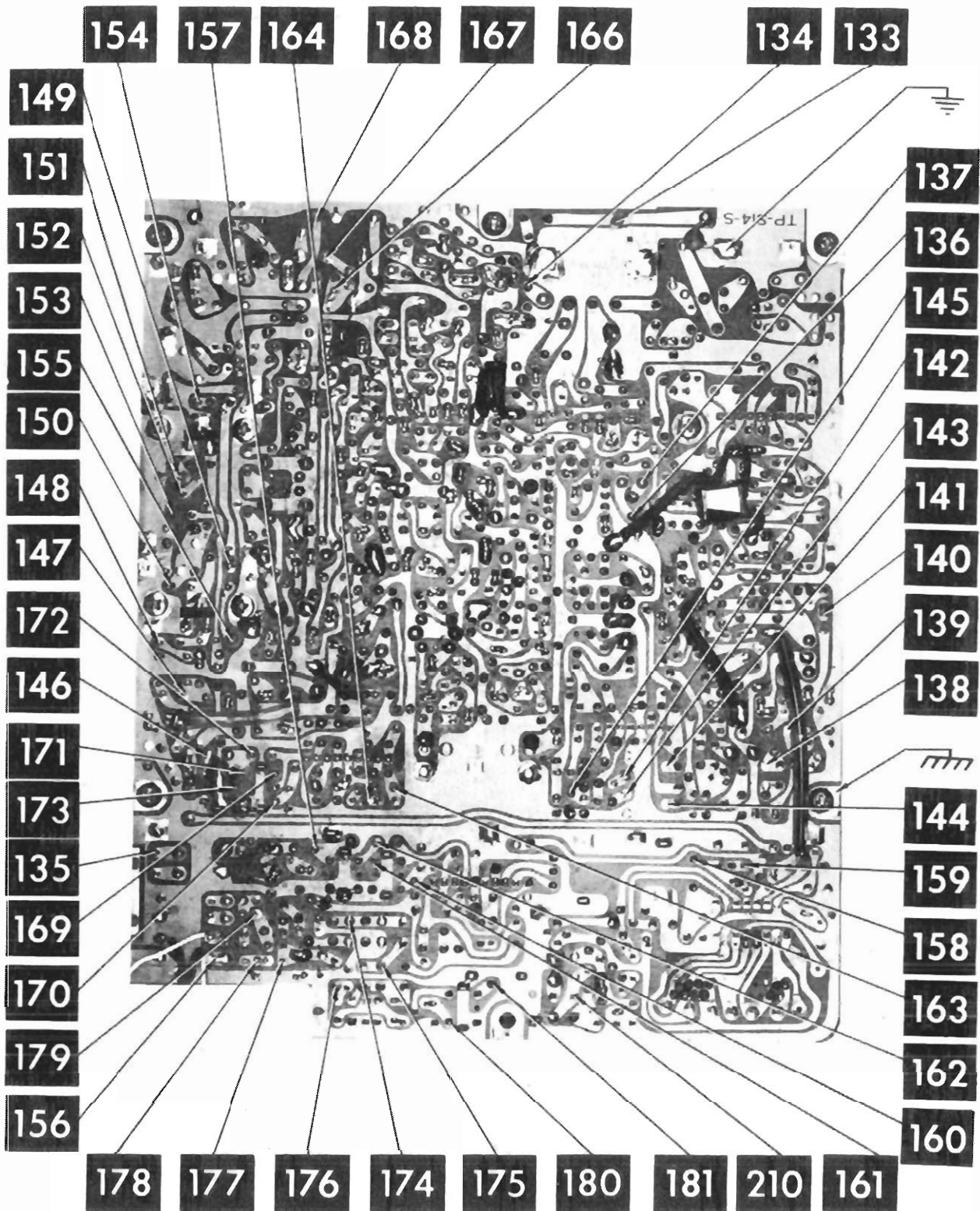
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MAIN BOARD

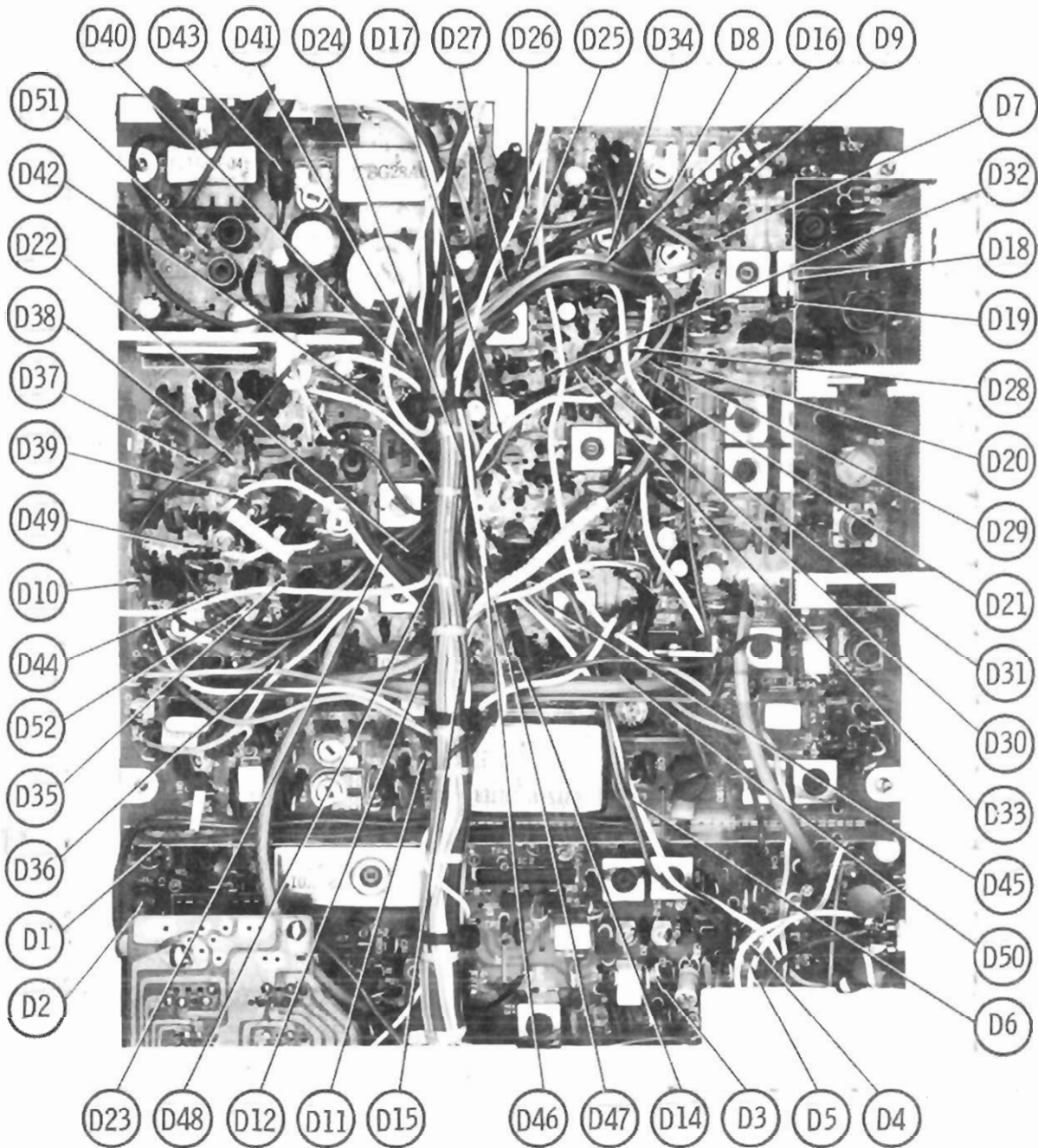


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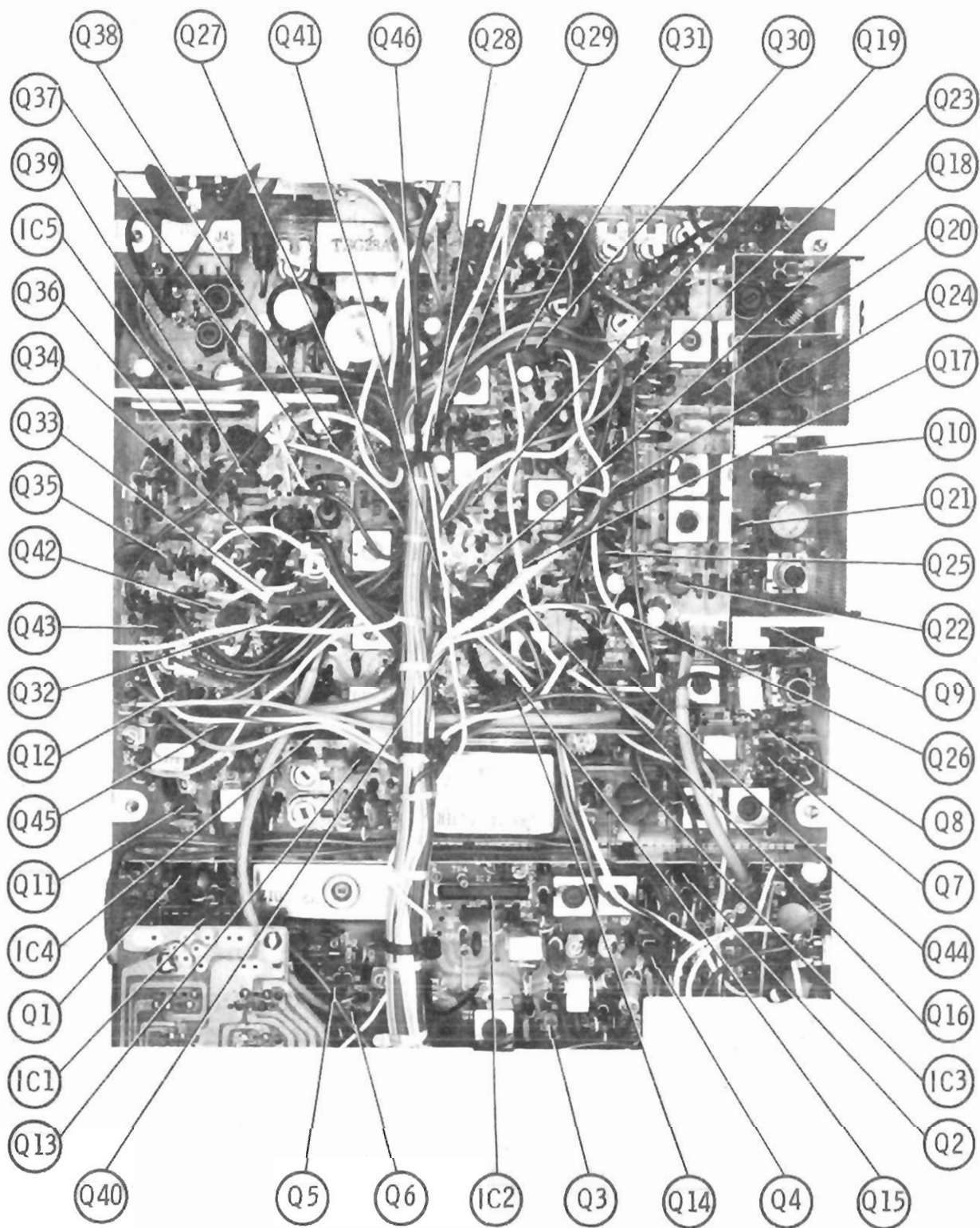


RCA MODEL 14T302

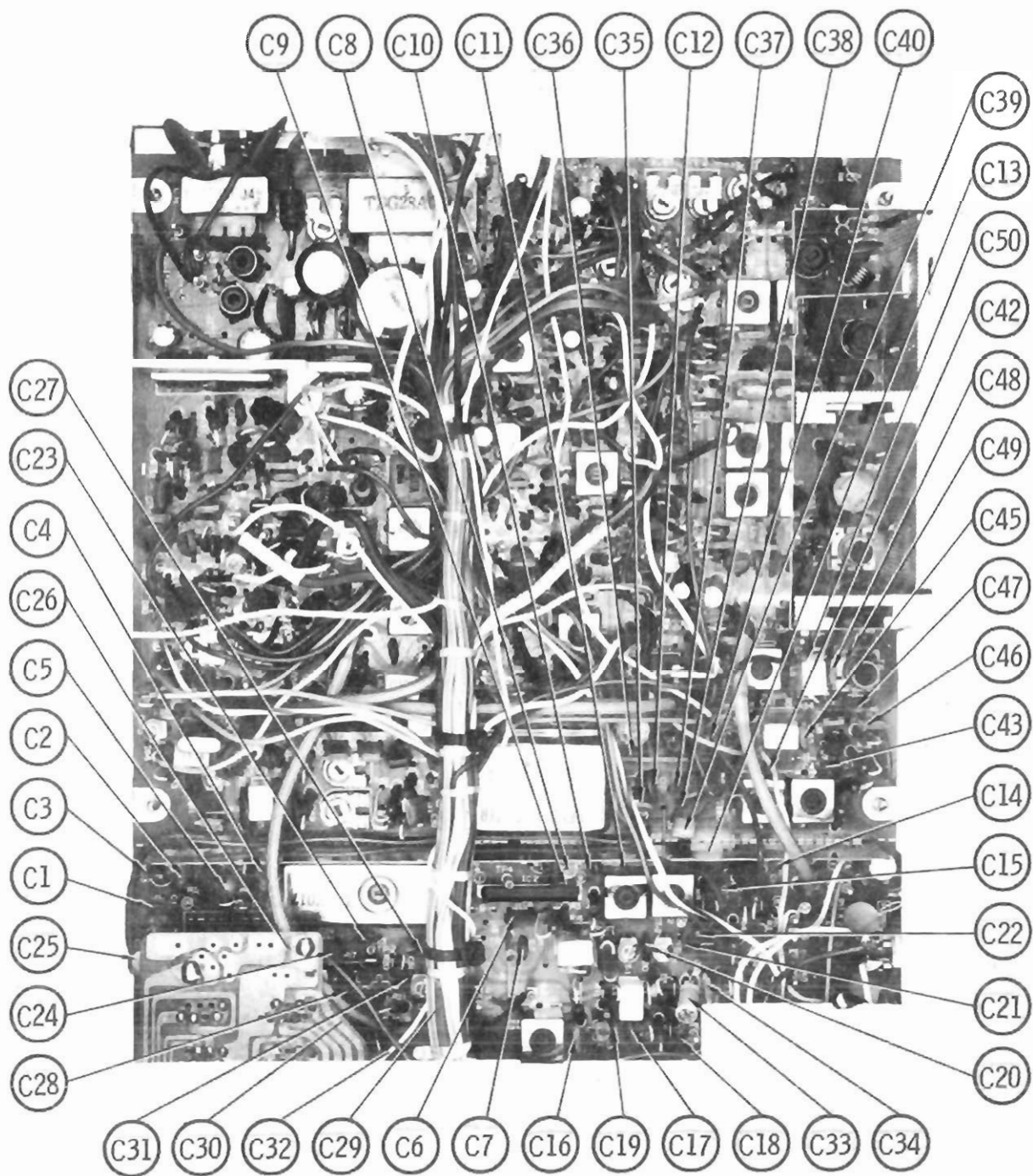
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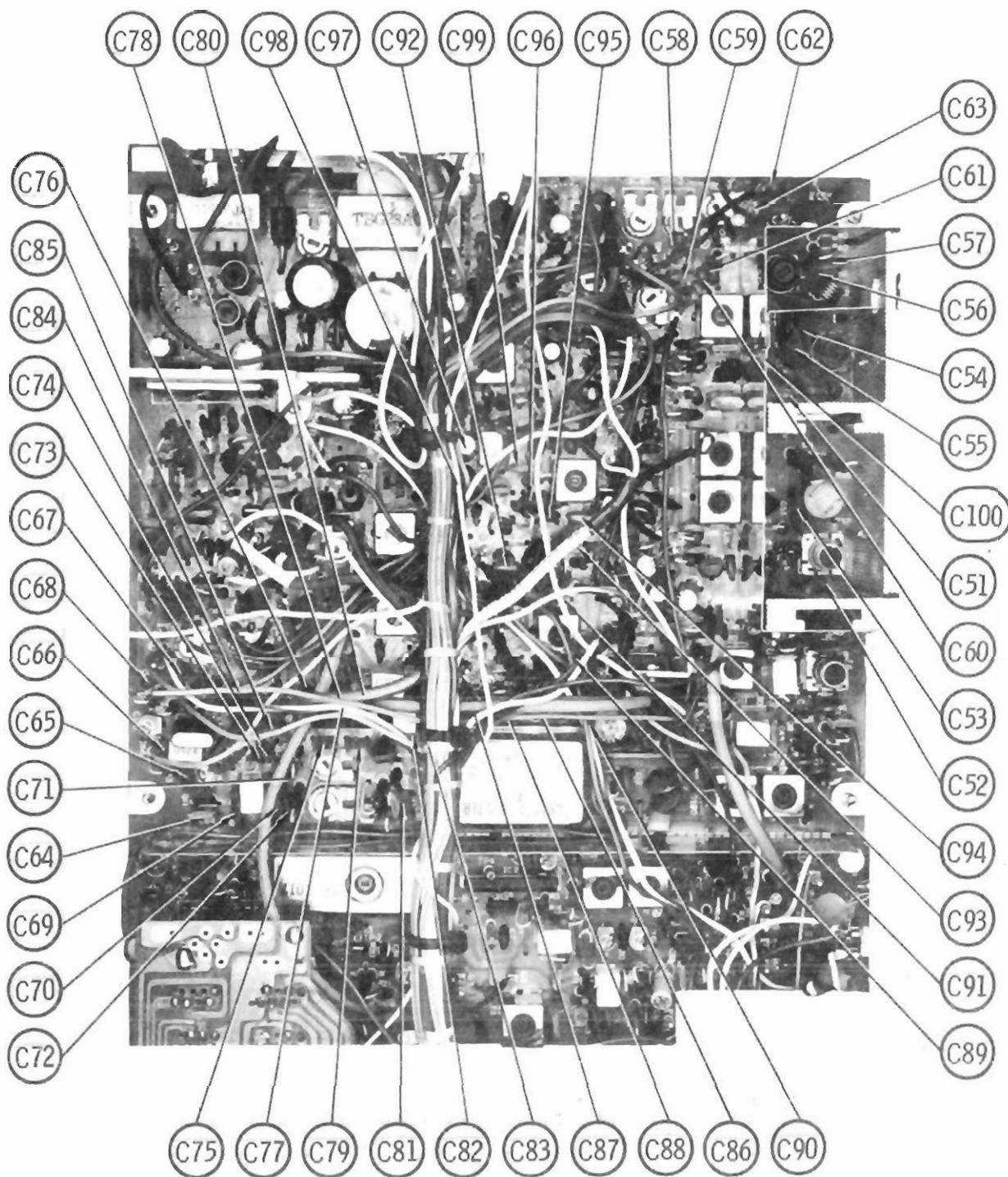
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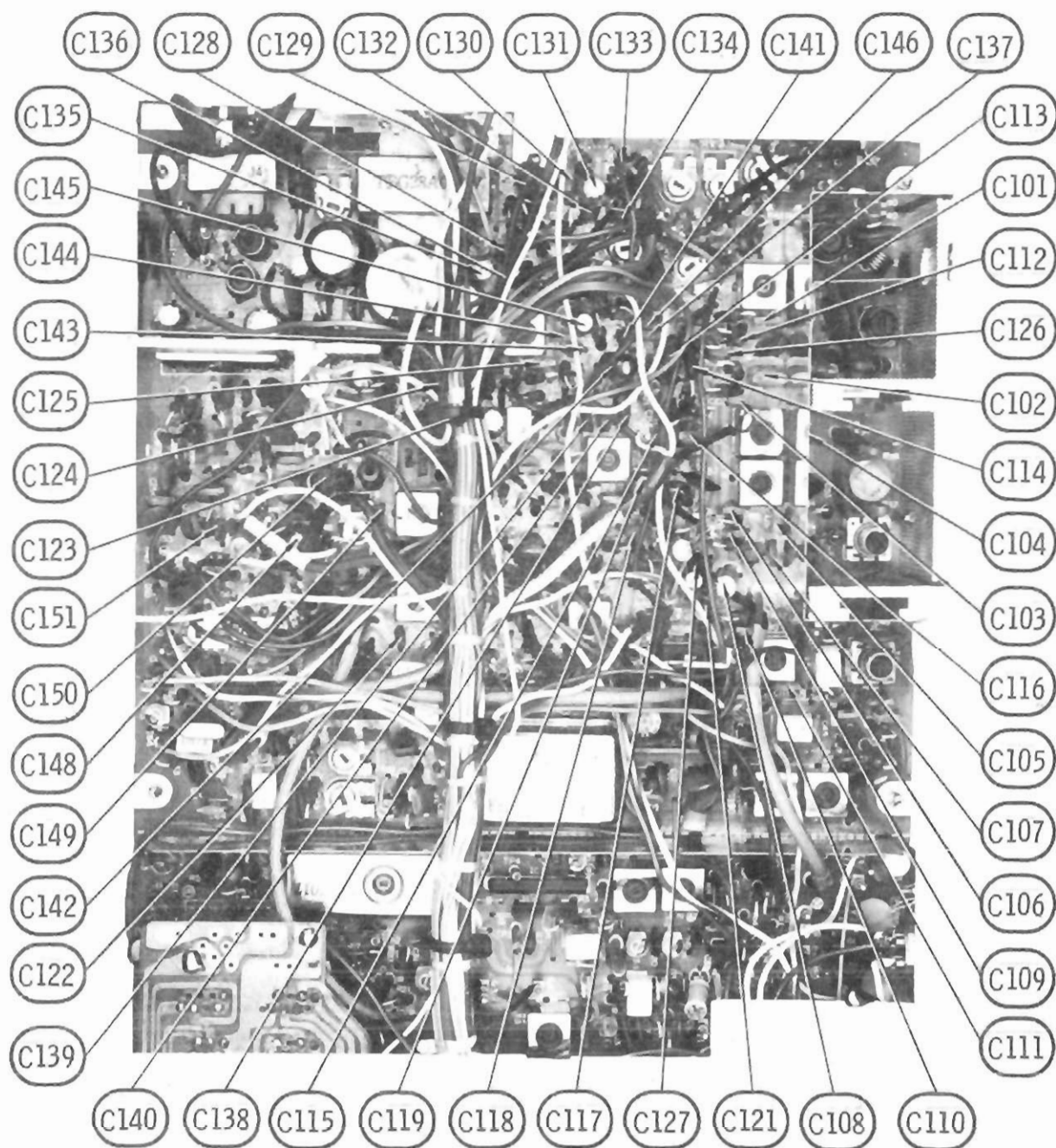
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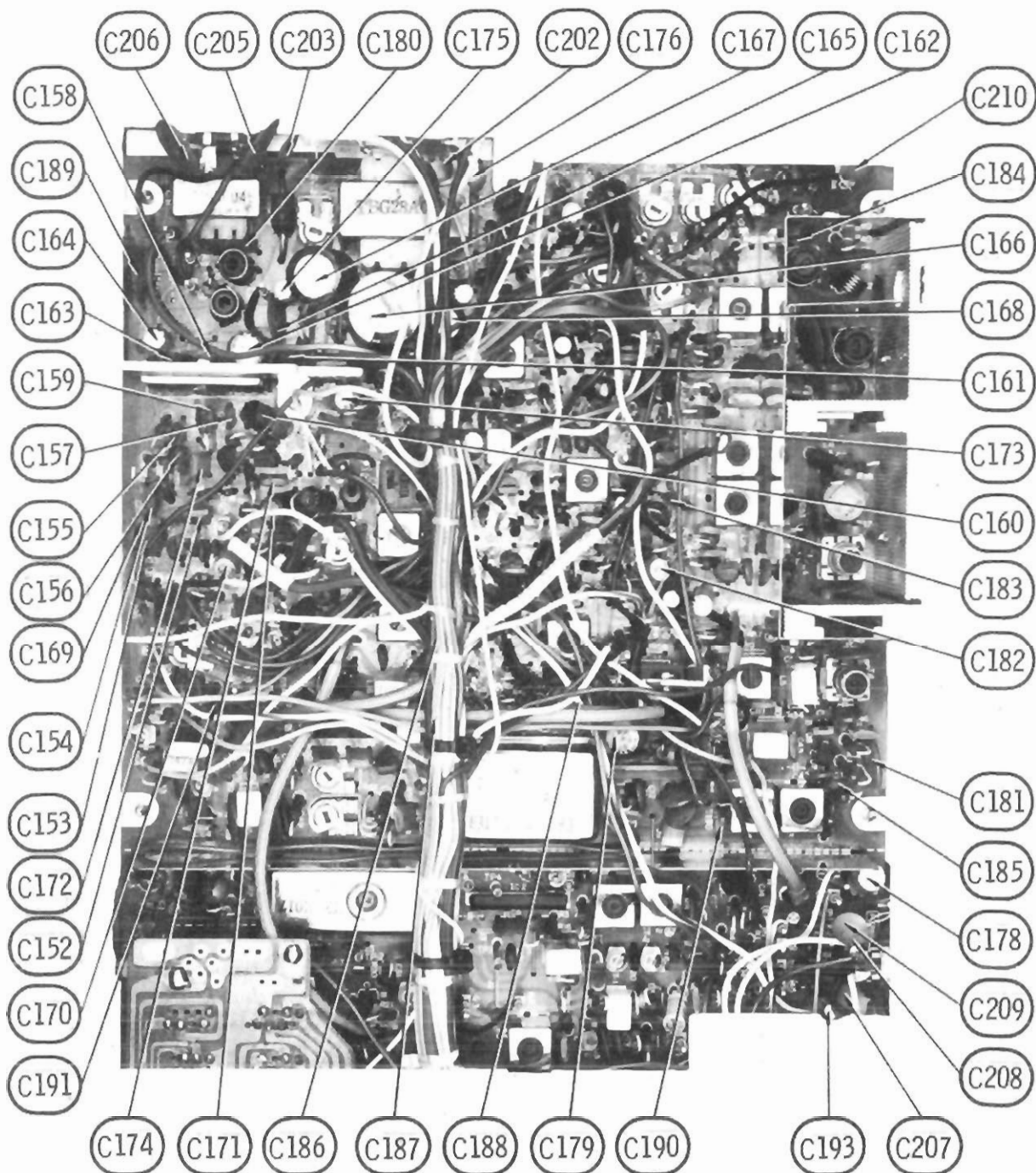
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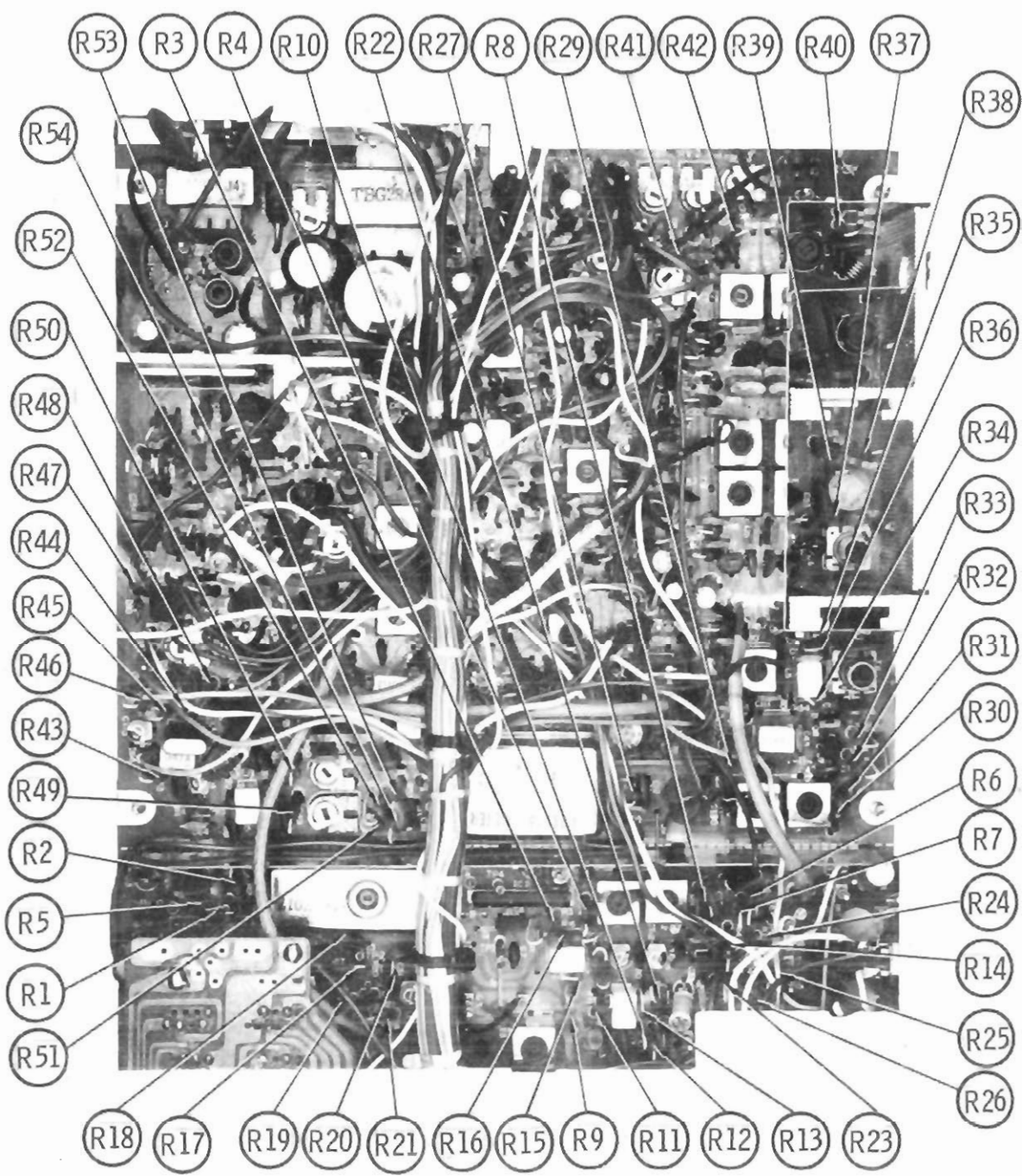
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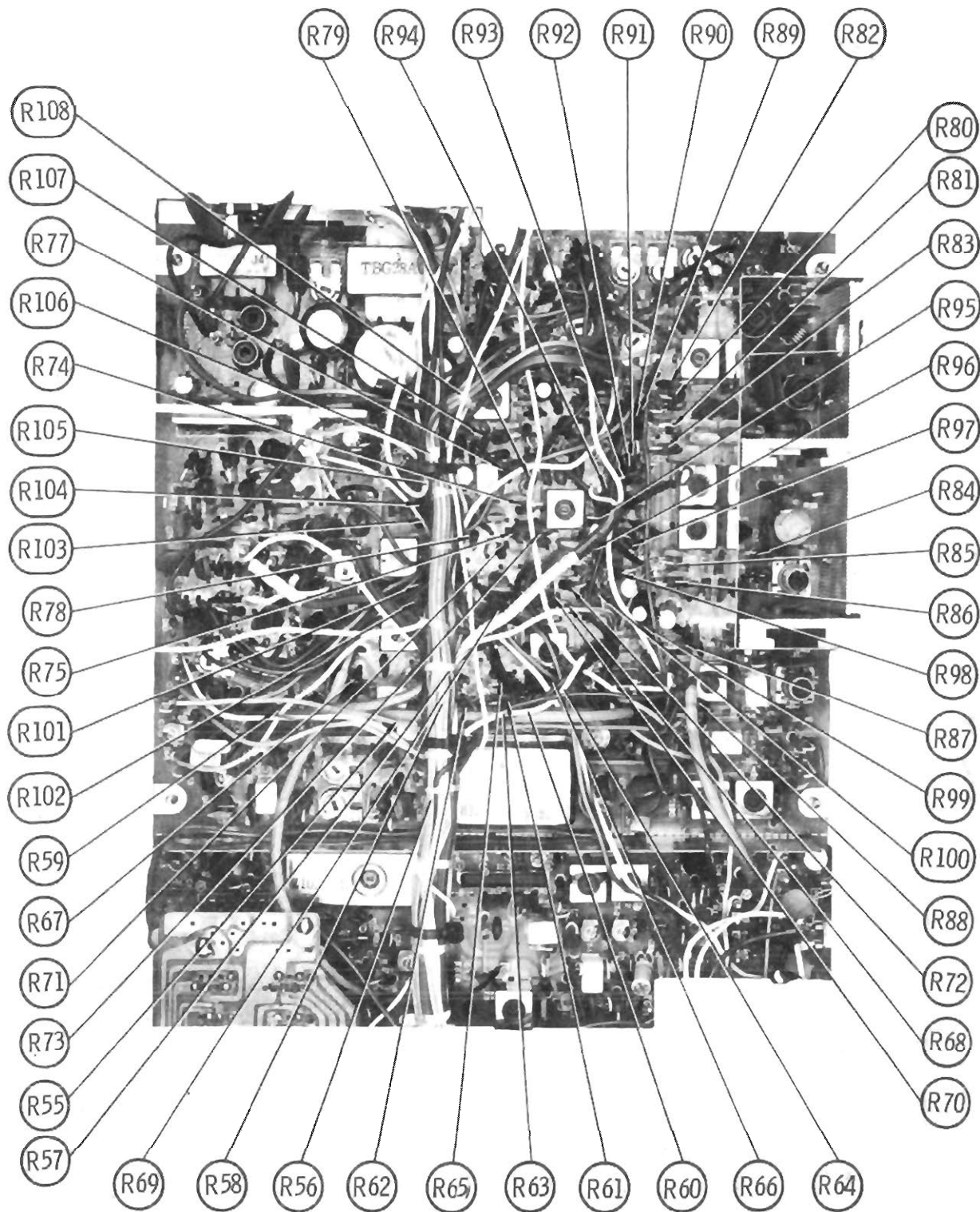
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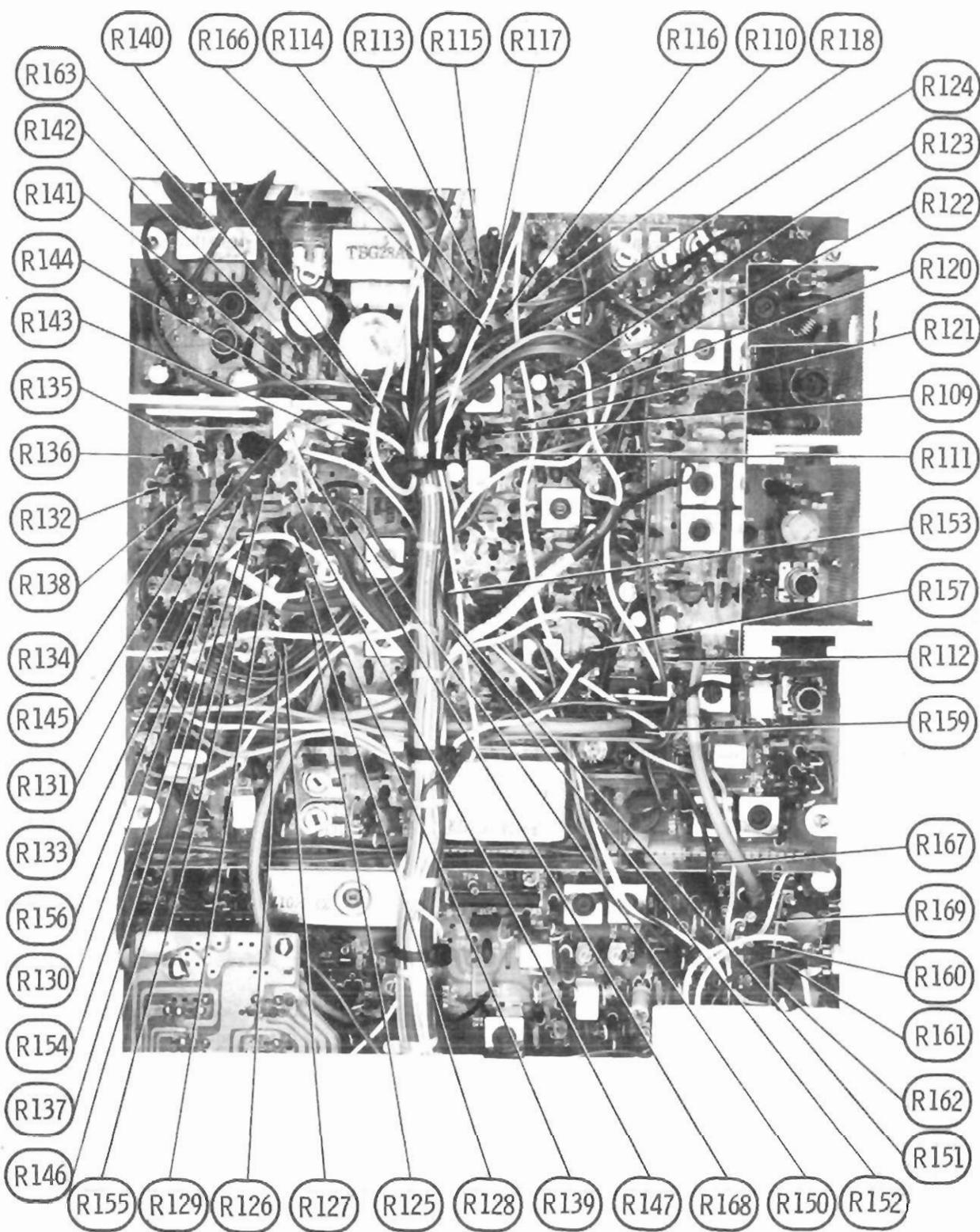
MAIN BOARD



MA IN BOARD

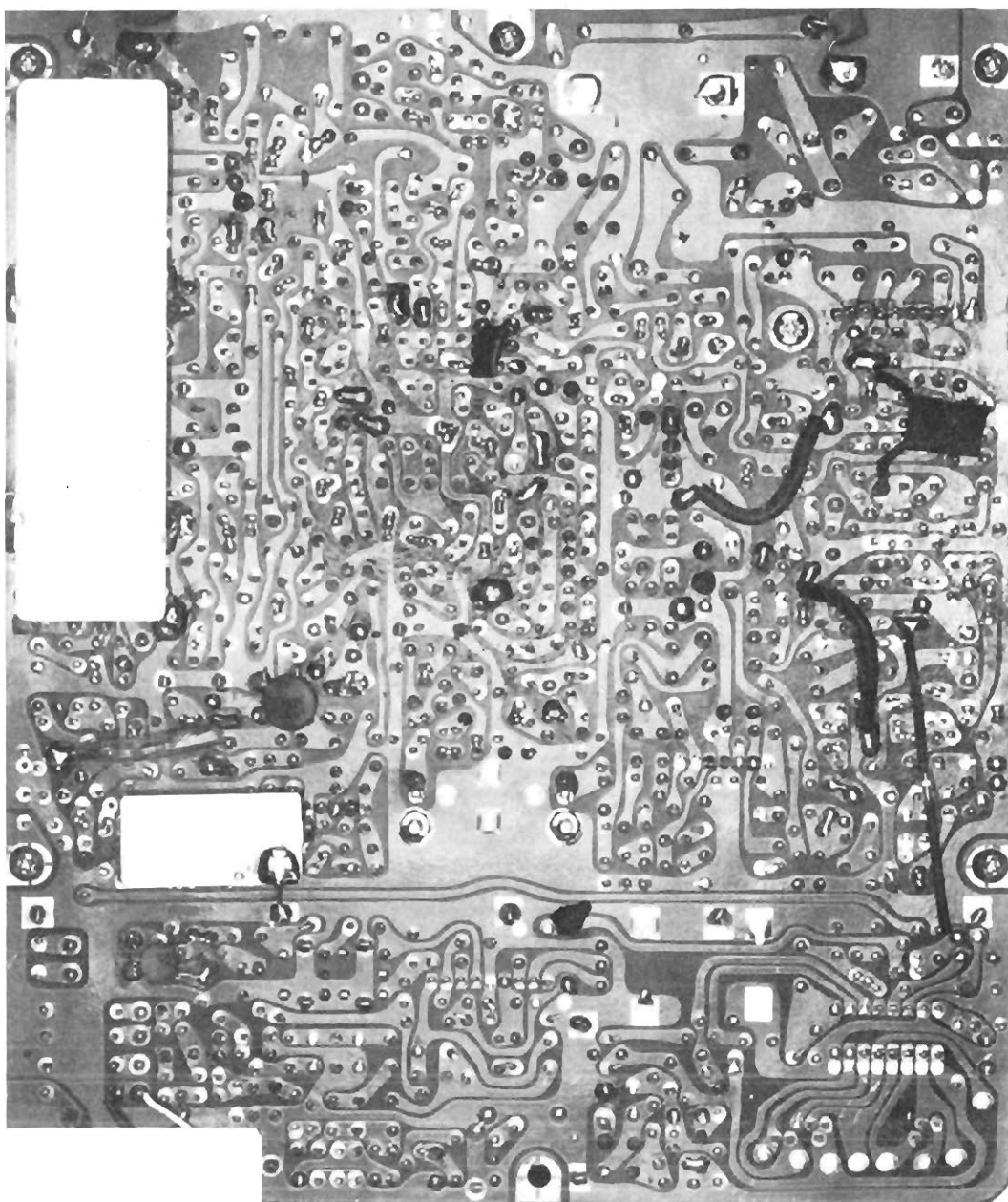


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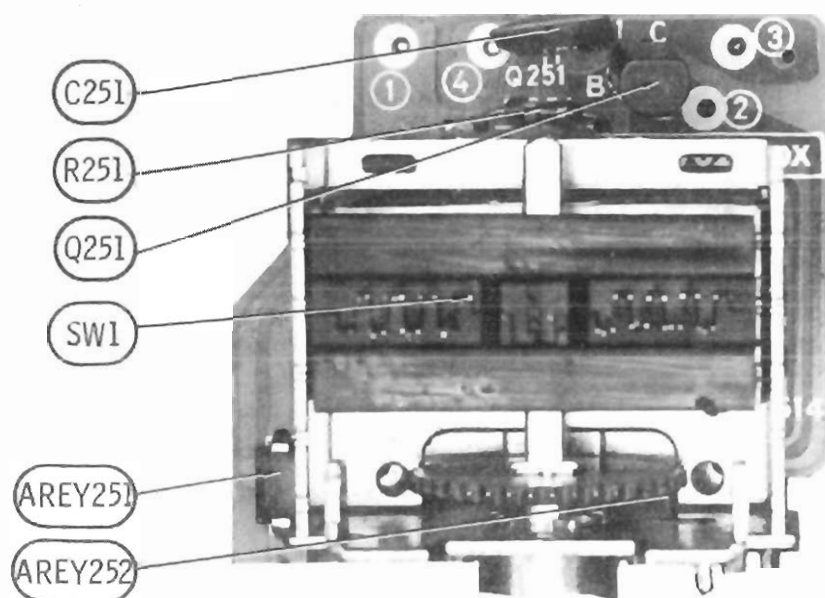
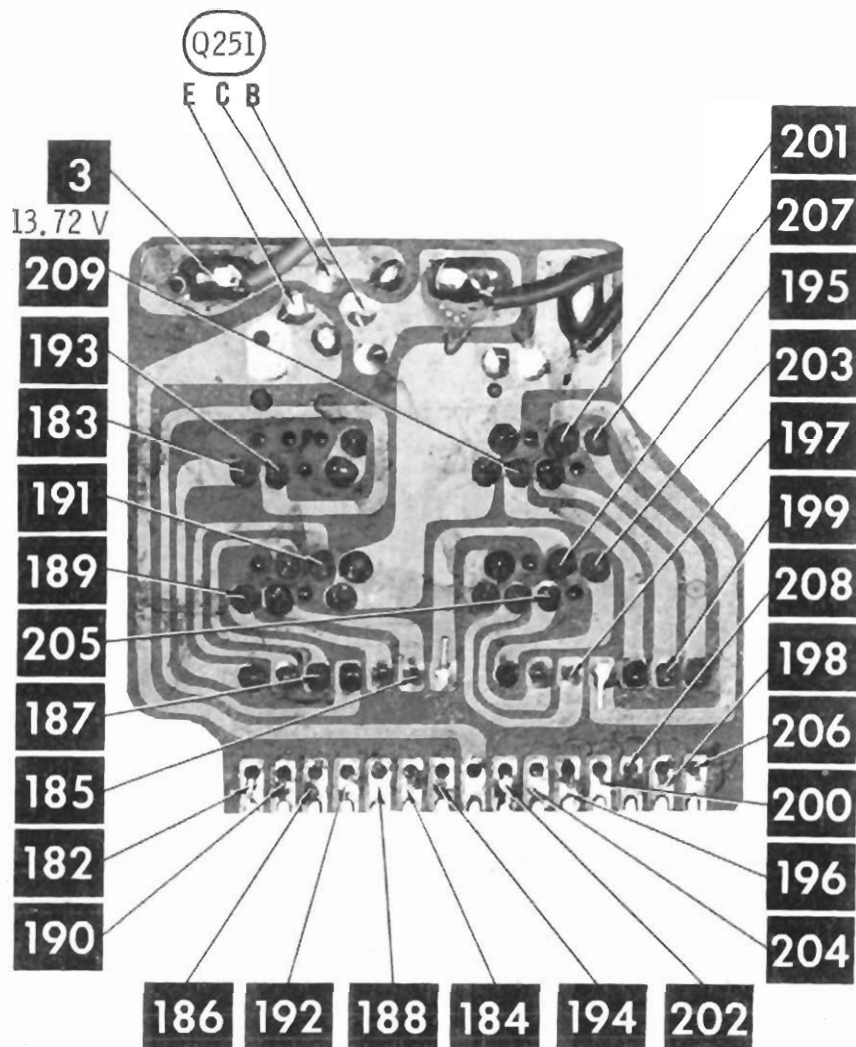


MAIN BOARD

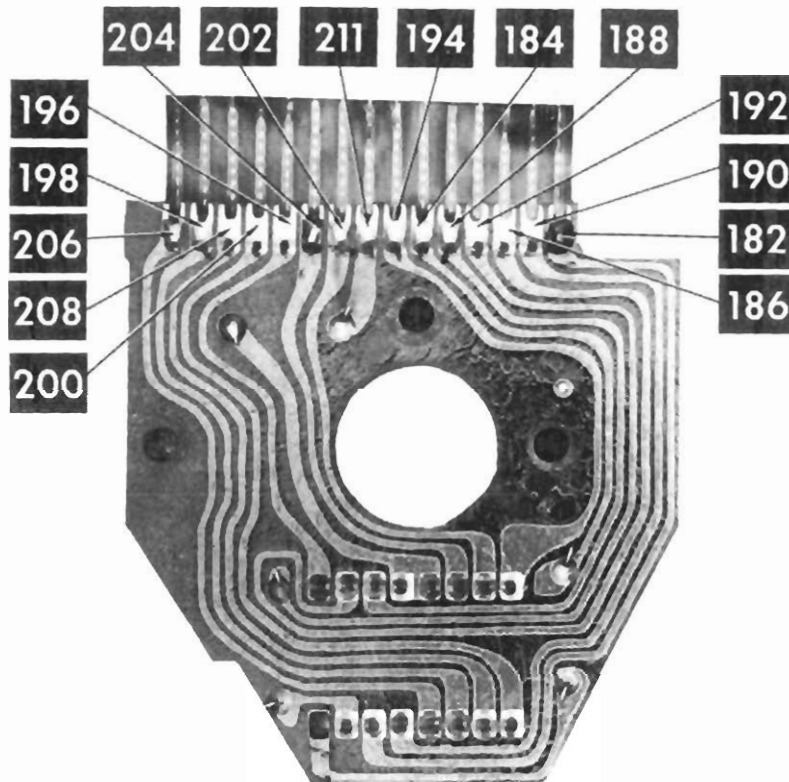
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SHIELD LOCATION



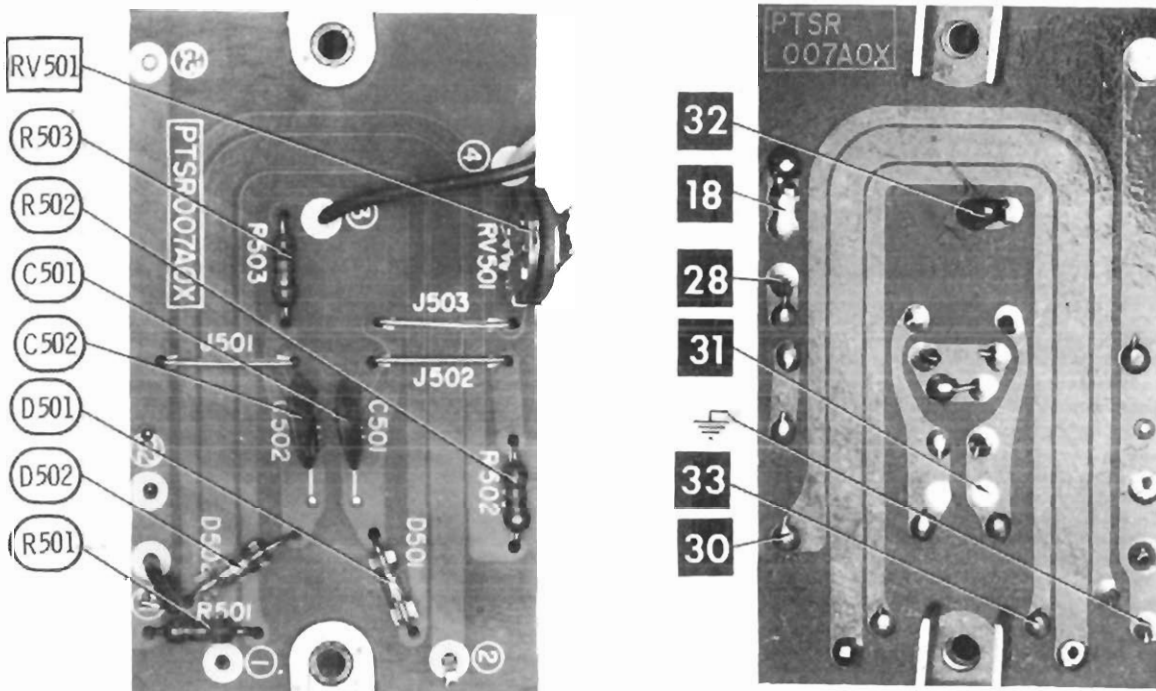
CH. SELECTOR & LED BOARD



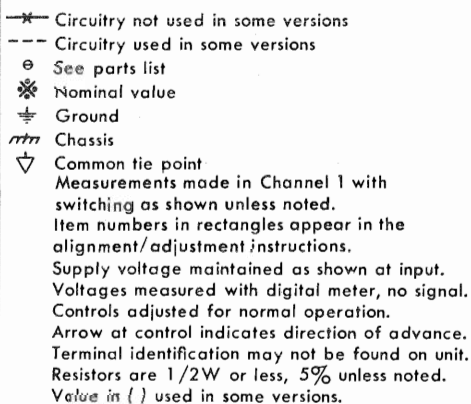
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LED READOUT BOARD

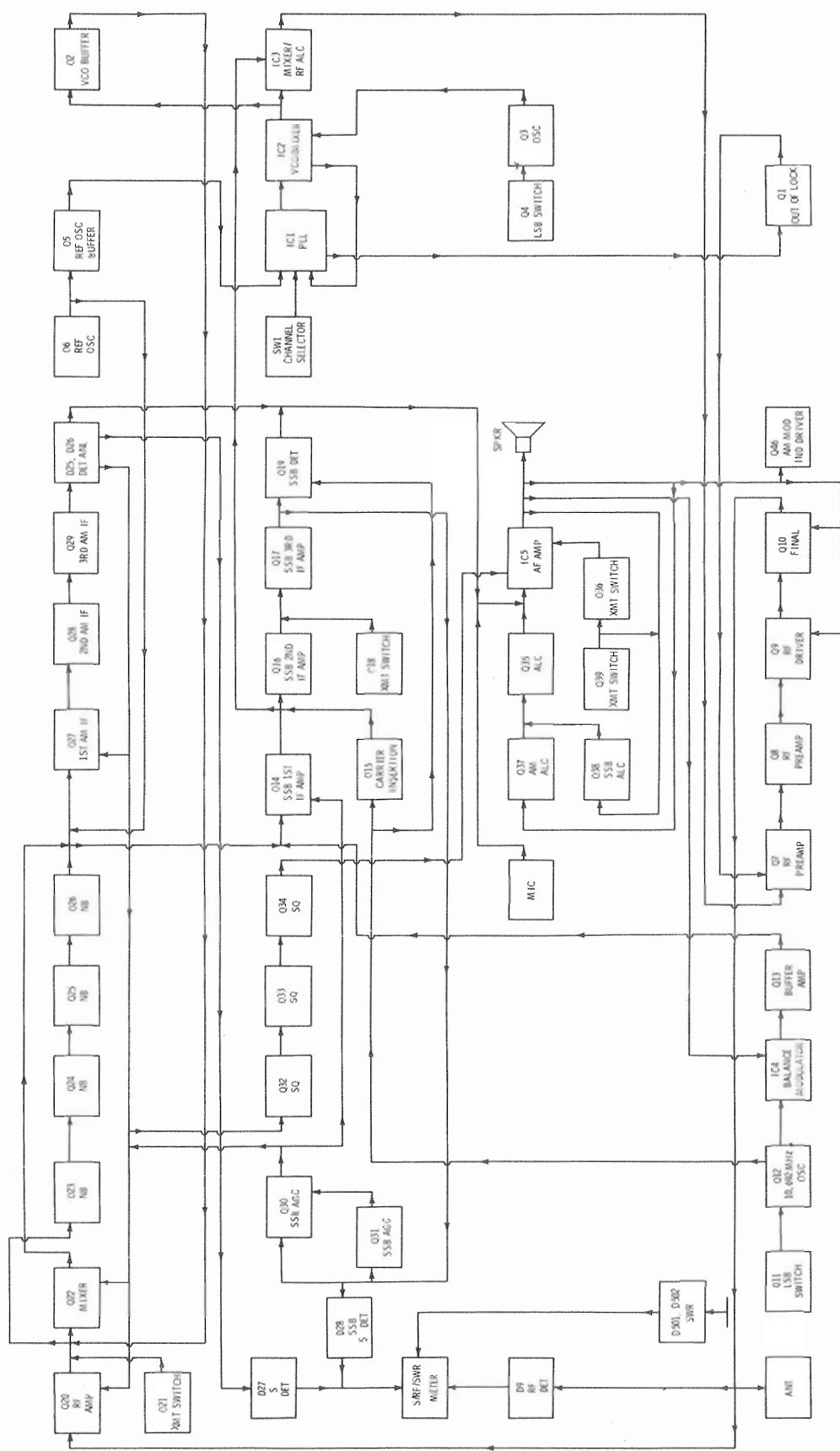
A Howard W. Sams CIRCUITRACE Photo



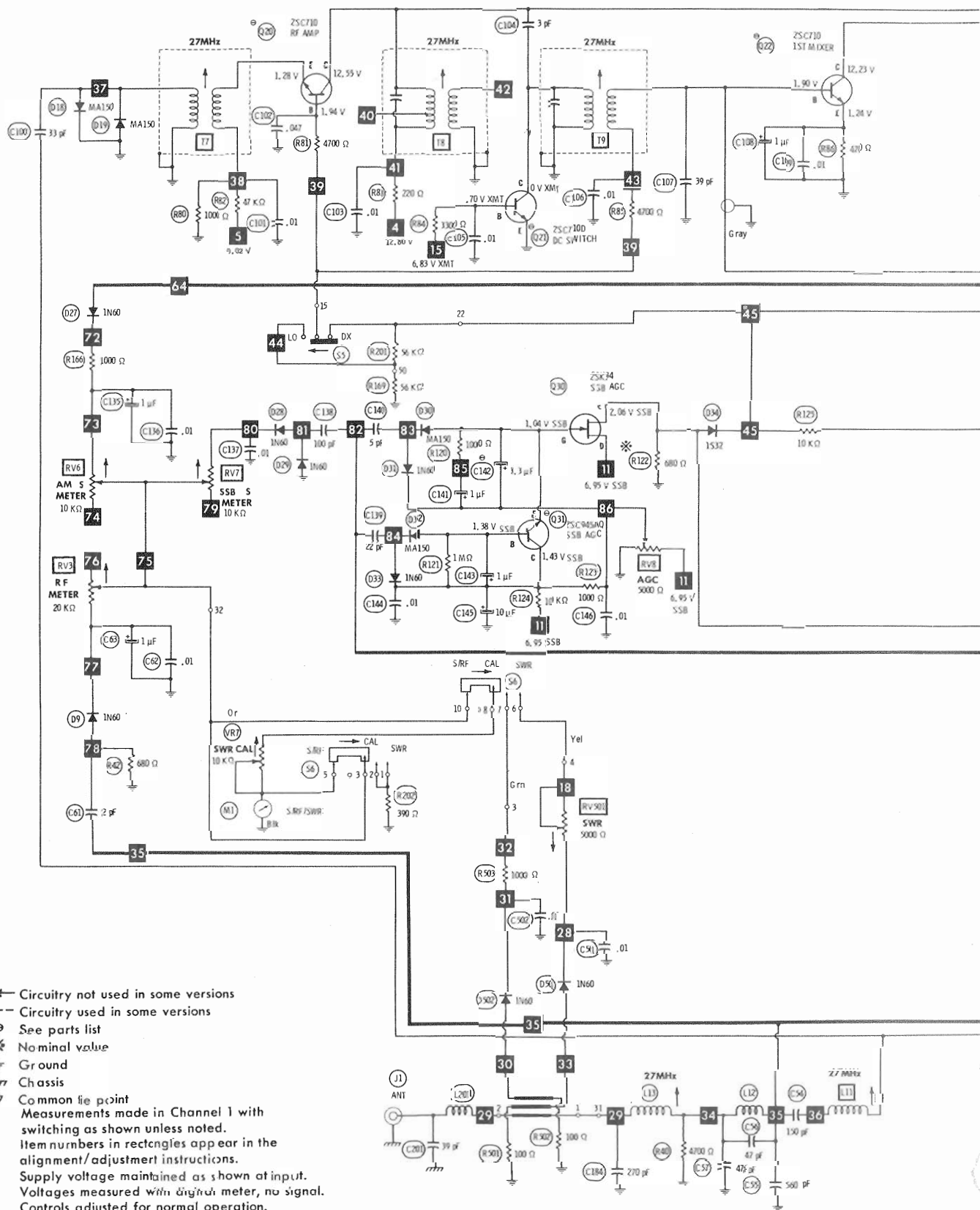
SWR BOARD

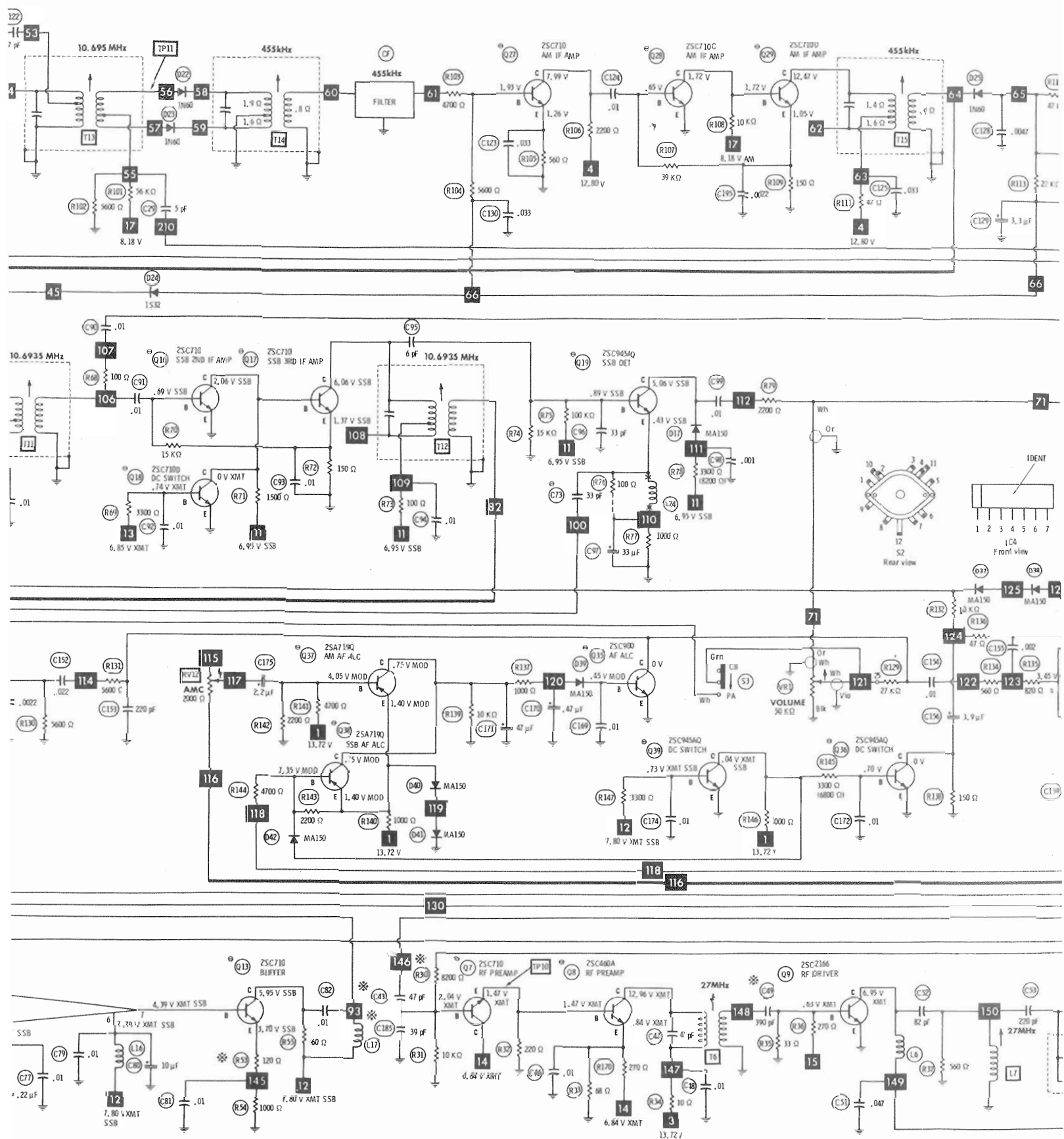


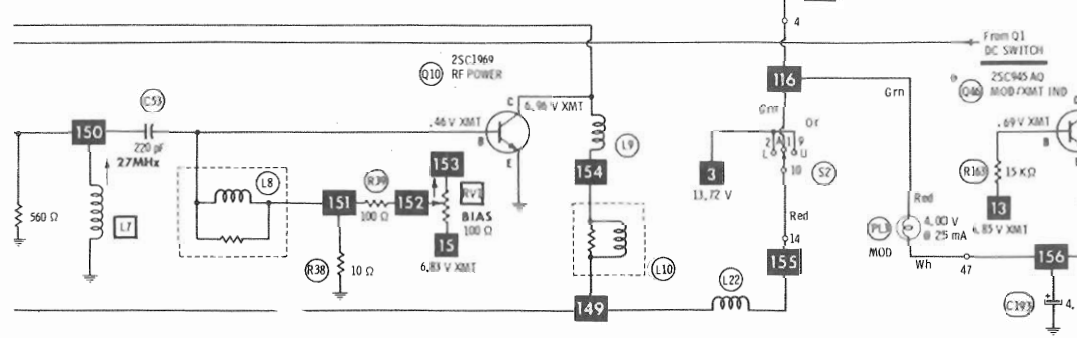
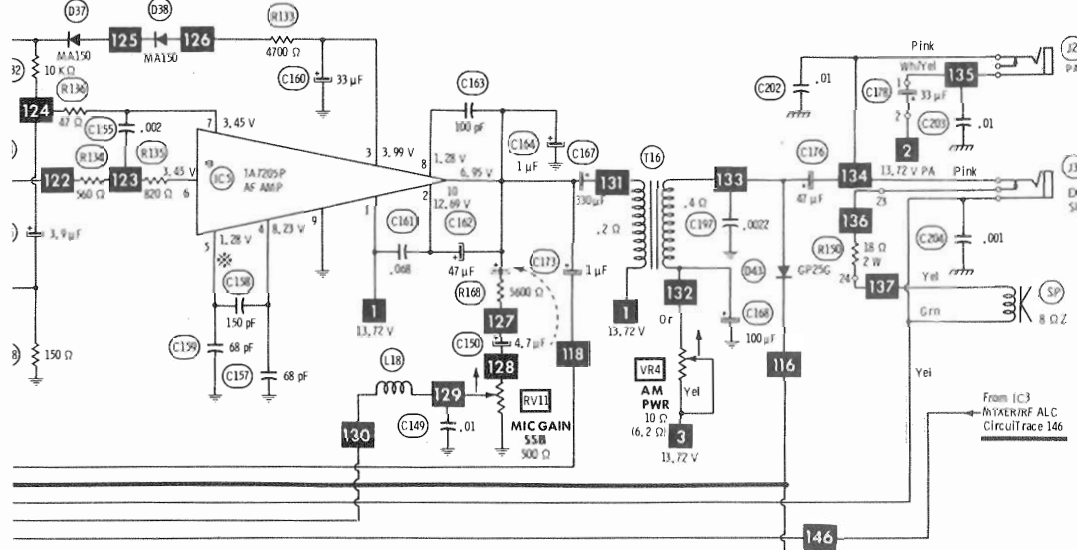
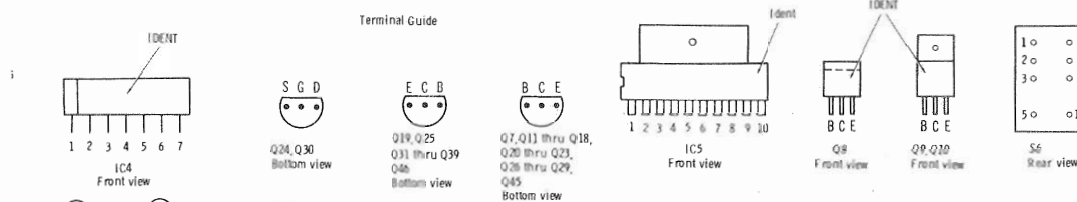
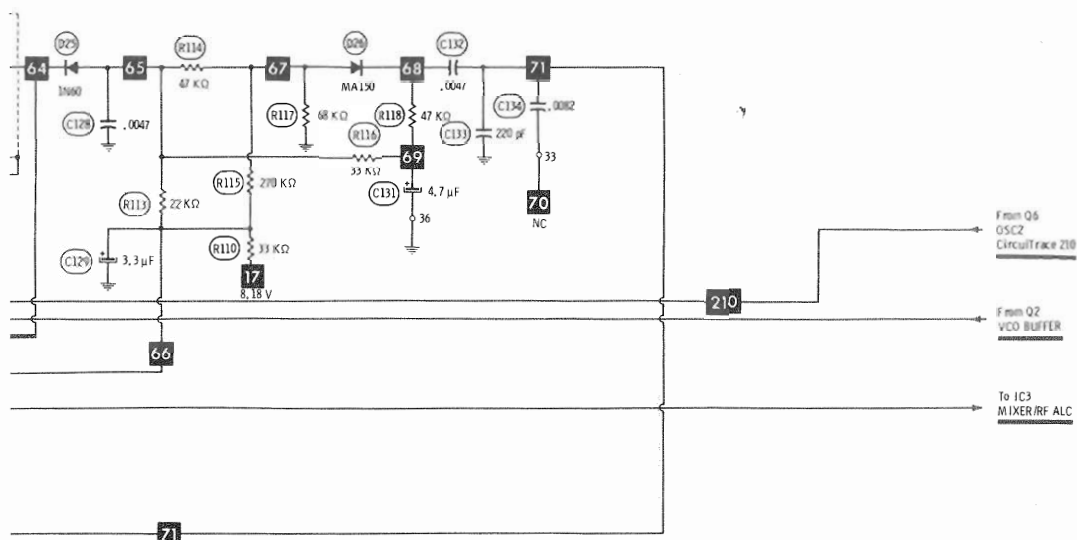
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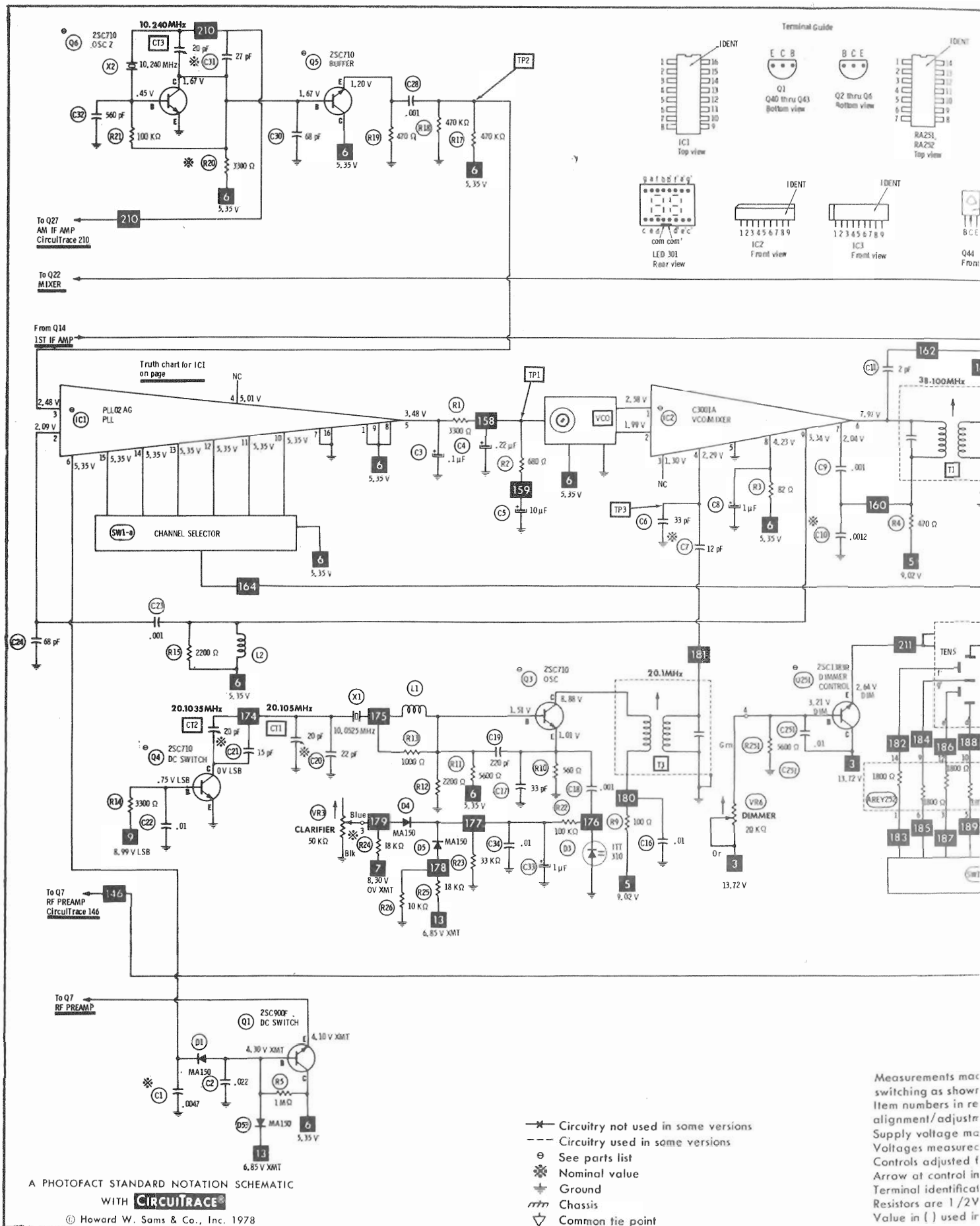


BLOCK DIAGRAM

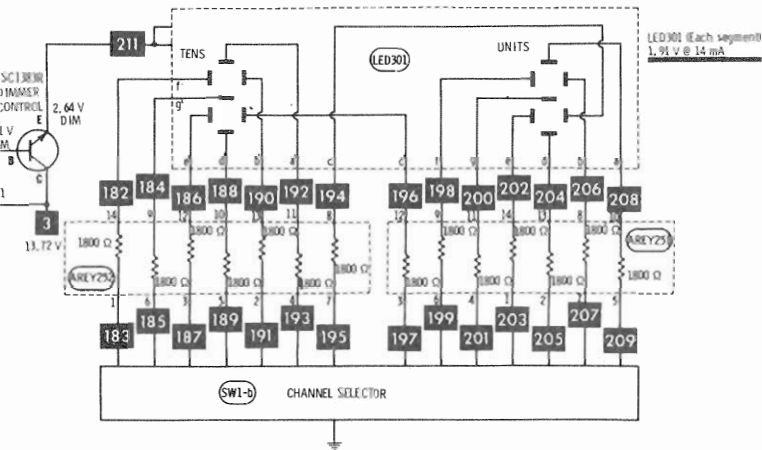
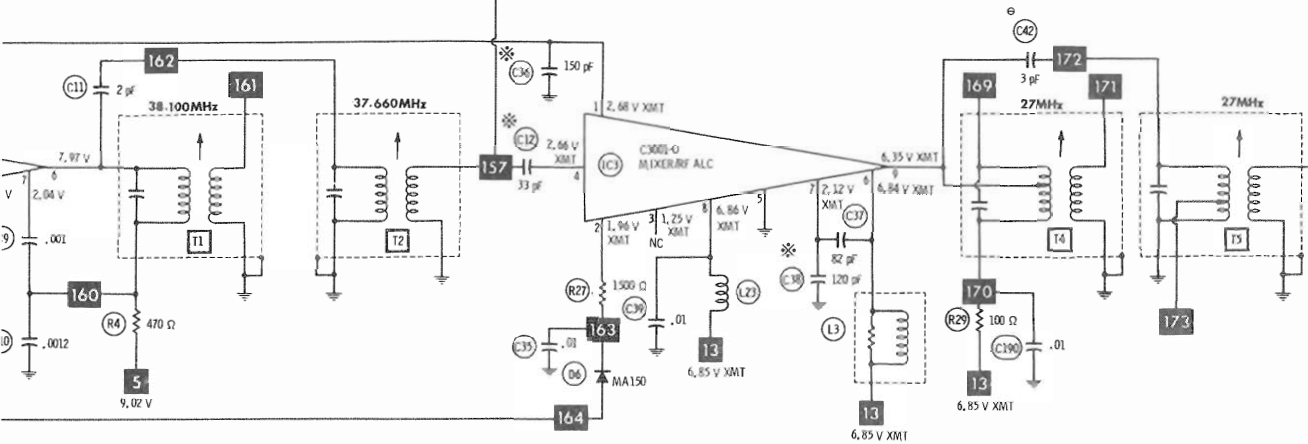
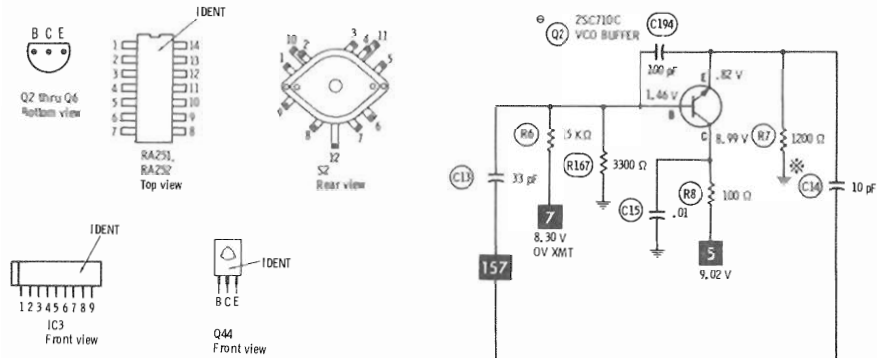








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Measurements made in Channel 1 with switching as shown unless noted.
Item numbers in rectangles appear in the alignment/adjustment instructions.
Supply voltage maintained as shown at input.
Voltages measured with digital meter, no signal.
Controls 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.

TRUTH CHART

1 = <u>5.35V</u> Volts 0 = <u>0</u> Volts									
C H A N N E L	IC1 PROGRAM DIVIDER						AM & USB REC VCO OUTPUT IN MHz AT TP13	LSB XMIT VCO OUTPUT IN MHz AT TP13	
	PINS								
	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	37.829	
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>5.35V</u> Volts 0 = <u>0</u> Volts								
C H A N N E L	IC1 PROGRAM DIVIDER						AM & USB REC VCO OUTPUT IN MHz AT TP13	LSB XMIT VCO OUTPUT IN MHz AT TP13
	PINS							
	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	37.930	37.947
24	1	0	0	1	0	0	37.930	37.924
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	38.054
37	0	1	0	1	1	0	38.070	380.64
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

PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D1	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	103-290
D2	MZ205					RE 105			ECG135			ZEN-453
D3	1TT310		GE-90		HEPR2503			RT-262	ECG614		WEP200	
D4	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D5	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D6	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D7	MZ205					RE 105			ECG135			103-290
D8	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D9	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D10	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D11	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D12	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D14	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D15	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D16	1S32		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D17	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D18	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D19	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D20	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D21	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D22	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D23	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D24	1S32		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D25	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D26	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D27	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D28	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D29	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D30	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D31	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D32	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D33	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D34	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D35	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D36	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D37	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D38	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D39	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D40	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D41	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D42	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D43	GP25G		GE-512	PTC204	HEPR0098	RE 92	SK3051	RT-201	ECG156		WEP4008	
D44	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D45	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D46	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D47	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D48	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D49	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D50	MZ310		GEZE-9.1	ZM9.18		RE 114	SK3060	RT-240	ECG5018	1N4739A	WEP1413	103-279-18
D51	1S1885		GE-504A	PTC202	HEPR0054	RE 49	SK3017A	RT-215	ECG116	1N4007	WEP158	212-76
D52	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D53	MA150		GE-300	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177		WEP1062	
D501	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D502	1N60		1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
IC1	PLL02AG					RE 360-1C			ECG1167		WEP2007	
IC2	PLL02					RE 360-1C			ECG1167		WEP2007	
IC3	C3001								ECG1192			
IC4	TA7310P								ECG1192			
IC5	C3001								ECG1192			
IC6	AN612											
Q1	TA7205P		GEIC-179	PTC780		RE 357-1C	SK3231	TYCM-81	ECG1155	TA7205F	WEP949	
Q2	2SC900		GE-62	PTC139*	HEPS0015*	RE 192	SK3124	RT-302	ECG199	2SC900	WEP66	ZEN-119
Q3	2SC710		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q4	2SC710		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q5	2SC710		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q6	2SC710		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q7	2SC710		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q8	2SC460A		GE-61*	PTC136*	HEPS0014*	RE 9	SK3018*	RT-308*	ECG123A*	2SC460	WEP460	121-722
Q9	2SC2166		GE-215	PTC186		RE 203	SK3197	RT-146	ECG235	2SC1306	WEP785	
Q10	2SC1969		GE-216	PTC186		RE 201	SK3197	RT-158	ECG236		WEP840	
Q11	2SC710		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q12	2SC710		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q13	2SC710		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q14	2SC710		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q15	2SC710		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q16	2SC710		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q17	2SC710		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q18	2SC710		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q19	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-2900C
Q20	2SC945		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-2900C
Q21	2SC710		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q22	2SC710		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q23	2SC763		GE-61*	PTC115	HEPS0020*	RE 10*	SK3018*	RT-309	ECG108*	2SC380*	WEP56	ZEN-127
Q24	2SK3A		GE-FET-2	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312		WEP920	ZEN-123
Q25	2SA733Q		GE-48	PTC103*	HEPS0019*	RE 219	SK3138	RT-303	ECG294	2SA733	WEP916	
Q26	2SA733		GE-48	PTC103*	HEPS0019*	RE 219	SK3138	RT-303	ECG294	2SA733	WEP916	
Q26	2SC763D		GE-61*	PTC115	HEPS0020*	RE 10*	SK3018*	RT-309	ECG108*	2SC380*	WEP56	ZEN-127
Q26	2SC763		GE-61*	PTC115	HEPS0020*	RE 10*	SK3018*	RT-309	ECG108*	2SC380*	WEP56	ZEN-127

RCA MODEL 14T302

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.
Q27	2SC710C		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q28	2SC710C		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q29	2SC710C		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q30	2SC710C		GE-211*	PTC132	HEPS0016*	RE 13*	SK3018*	RT-308*	ECG123A*	2SC710	WEP710	ZEN-114
Q31	2SC945AQ		GE-FET-2	PTC161	HEPS0021	RE 45	SK3116	RT-175	ECG312	2SC945	WEP920	ZEN-123
Q32	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q33	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q34	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q35	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q36	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q37	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q38	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q39	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q40	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q41	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q42	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q43	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q44	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q45	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q46	2SC945AQ		GE-212	PTC121*	HEPS0015*	RE 192	SK3124	RT-107A	ECG199	2SC945	WEP1945	121-29000
Q251	2SC1383		GE-47	PTC143*	HEPS3001*	RE 220	SK3024*	RT-302	ECG293	2SA733	WEP912	ZEN-114

* Lead configuration may vary from original.

(12) 20 WATTS @ 6 AMPS.

(13) 1.5 WATTS @ 4 AMPS.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
C3	.1 35V	(1)		TDC104M050EL	QDT1-2	SD50-R109
C4	.22 35V			TDC224M050EL	QDT1-10	SD50-R229
C5	10 16V			TDC106M025FL	QDT1-64	SD25-109
C8	1 50V			VTT1A50	QV1-11	EV-1615
C25	47 6.3V			VTT47D16	QV1-73	EV-1226
C33	1 50V			VTT1A50	QV1-11	EV-1615
C58	.22 35V			TDC224M050EL	QDT1-10	SD50-R229
C63	1 50V			VTT1A50	QV1-11	EV-1615
C76	.22 35V			TDC224M050EL	QDT1-10	SD50-R229
C78	.22 35V			TDC224M050EL	QDT1-10	SD50-R229
C80	10 16V			VTT10B25	QV1-41	EV-1222
C87	.22 35V			TDC224M050EL	QDT1-10	SD50-R229
C97	33 6.3V			VTT33B10	QV1-61	EV-1125
C108	1 50V			VTT1A50	QV1-11	EV-1615
C119	10 16V			PC10-25	QV1-41	EV-1222
C127	10 16V			VTT10B25	QV1-41	EV-1222
C129	3.3 25V			PC5-50	QV1-23	EV-1318
C131	4.7 25V			PC5-50	QV1-27	EV-1319
C135	1 50V			PC1-50	QV1-11	EV-1615
C141	1 25V			TDC105M035EL	QV1-23	SD35-19
C142	3.3 25V			VTT33A50	QV1-23	EV-1318
C143	1 25V			TDC105M035EL	QV1-23	SD35-19
C145	10 16V			PC10-25	QV1-41	EV-1222
C148	10 16V			PC10-25	QV1-41	EV-1222
C150	4.7 25V			PC5-50	QV1-27	EV-1319
C156	3.9 10V			TDC475M010EL	QDT1-48	SD10-4R79
C160	33 6.3V			VTT33B10	QV1-61	EV-1125
C162	47 16V			PC50-16	QV1-73	EV-1226
C164	1 50V			VTT1A50	QV1-11	EV-1615
C166	2200 16V			WBR2000-16	QV1-643	TVA-1175.3
C167	330 16V			WBR300-35	QV1-133	EV-1245
C168	100 16V			PC100-16	QV1-95	EV-1230
C170	.47 50V			PC1-50	QV1-3	EV-1610
C171	47 6.3V			PC50-16	QV1-73	EV-1226
C173	1 50V			PC1-50	QV1-11	EV-1615
C175	2.2 25V			PC2-100	QV1-19	EV-1517
C176	47 16V			PC50-16	QV1-73	EV-1226
C178	33 16V			PC30-25	QV1-63	EV-1325
C179	47 16V			PC50-16	QV1-73	EV-1226
C182	.47 50V			PC1-50	QV1-3	EV-1610
C193	4.7 25V			PC5-50	QV1-27	EV-1319

(1) Used in some versions.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C1	.0047			WMF1D47	EWFA1A247	QF1-57	1PB-D47
C2	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C6	33 N150				*		10TCP-Q33
C7	12 N150				*		10TCP-Q12
C9	.001			DPMS6D1	EWFA1A210	QF1-1	1PB-D10
C10	.0012			DPMS6D12	PVC6212		6PS-D12
C11	2 N150				*		10TCP-V22
C12	33 N150				*		10TCP-Q33
C13	33 N150				*		10TCP-Q33
C14	10 N150				*		10TCP-Q10
C15	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C16	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C17	33 N150				*		10TCP-Q33
C18	.001			DPMS6D1	EWFA1A210	QF1-1	1PB-D10
C19	220 N150				*		10TCP-T22
C20	22 N150				*		10TCP-Q22
C21	15 NPO		DTZ-15	NPO15	CNO415		10TCC-Q15
C22	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C23	.001			DPMS6D1	EWFA1A210	QF1-1	1PB-D10
C24	68 N150				*		10TCP-Q68
C26	.047			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C27	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C28	.001			DPMS6D1	EWFA1A210	QF1-1	1PB-D10
C29	5 N150				*		10TCP-V50
C30	68 N150				*		10TCP-Q68
C31	27 NPO				CNO427		10TCC-Q27
C32	560		DD-561		GP356		10TS-T56
C34	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C35	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C36	150				*		10TCP-T15
C37	82 N150				*		10TCP-Q82
C38	120 N150				*		10TCP-T12
C39	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C40	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C42	3 N150				*		10TCP-V30
C43	47 N150				*		10TCP-Q47
C45	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C46	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C47	47 N150				*		10TCP-Q47
C48	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C49	390		DD-391	GP390	GP339		10TS-T39
C50	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C51	.047			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C52	82 N150				*		10TCP-Q82
C53	220 N150				*		10TCP-T22
C54	150 N150				*		10TP-T16
C55	560		DD-561		GP356		10TS-T56
C56	47 N150				*		10TCP-Q47
C57	470		DD-471	GP470	GP347		10TS-T47
C59	.00			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C60	5 N150				*		10TCP-V52
C61	2 N150				*		10TCP-V22
C62	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C64	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C65	39 N150			*	*		10TCP-Q39
C66	10 NPO		DTZ-10	NPO10	CNO410		10TCC-Q10
C67	.001			DPMS6D1	EWFA1A210	QF1-1	1PB-D10
C68	22 N150				*		10TCP-Q22
C69	220 N150				*		10TCP-T22
C70	220 N150				*		10TCP-T22
C71	8 N150				*		10TCP-V82
C72	100 N150				*		10TCP-T10
C73	33 N150				*		10TCP-Q33
	15		DTZ-15	NPO15	CNO415		10TCC-Q15
C74	22 N150	(1)			*		10TCP-Q22
C75	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C77	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C79	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C81	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C82	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C83	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C84	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C85	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C86	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C88	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C89	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C90	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C91	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C92	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C93	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C94	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10

RCA MODEL 14T302

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
C95	6 N150	(1)	DD-221		*		10TCP-V56
C96	33 N150				*		10TCP-Q33
C98	.001			DPMS6D1	EWFA1210	QF1-1	1PB-D10
C99	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C100	33 N150				*		10TCP-Q33
C101	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C102	.047			DPMS2S47	EWFA1147	QF1-171	1PB-S47
C103	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C104	3 N150				*		10TCP-V30
C105	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C106	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C107	39 N150				*		10TCP-Q39
C109	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C110	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C111	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C112	5 N150				*		10TCP-V60
C113	220 N150				*		10TCP-T22
C114	.0047			WMF1D47	EWFA1247	QF1-57	1PB-D47
C115	.001			DPMS6D1	EWFA1210	QF1-1	1PB-D10
C116	.033			DPMS6S33	EWFA1133		6PS-S33
C117	.0047			WMF1D47	EWFA1247	QF1-57	1PB-D47
C118	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C121	.001			DPMS6D1	EWFA1210	QF1-1	1PB-D10
C122	27 N150				*		10TCP-Q27
C123	.033			DPMS6S33	EWFA1133		6PS-S33
C124	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C125	.033			DPMS6S33	EWFA1133		6PS-S33
C126	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C128	.0047			WMF1D47	EWFA1247	QF1-57	1PB-D47
C130	.033			DPMS6S33	EWFA1133		6PS-S33
C132	.0047			WMF1D47	EWFA1247	QF1-57	1PB-D47
C133	220				GP322		10TS-T22
C134	.0082			WMF1D82	EWFA1282		1PB-D82
C136	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C137	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C138	100 N150				*		10TCP-T10
C139	22 N150				*		10TCP-Q22
C140	5 N150				*		10TCP-V50
C142	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C144	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C146	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C149	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C151	.0022			DPMS6D22	EWFA1122		6PS-D22
C152	.022			DPMS2S22	EWFA1122	QF1-127	1PB-S22
C153	220				GP322		10TS-T22
C154	.01			WMF1S1	EWFA1110	QF1-91	1PB-S10
C155	.002			DPMS6D22	EWFA1122		6PS-D22
C157	68		DD-680	GP68	GP468	10TS-O68	
C158	150		DD-151		GP315	10TS-T15	
C159	68		DD-680	GP68	GP468	10TS-Q68	
C161	.068		2	WMF1S68	EWFA1168	QF1-195	1PB-S68
C163	100		DD-101	GP100	GP310		10TS-T10
C165	.047		DPMS2S47	EWFA1147	QF1-171	1PB-S47	
C169	.01		WMF1S1	EWFA1110	QF1-91	1PB-S10	
C172	.01		WMF1S1	EWFA1110	QF1-91	1PB-S10	
C174	.01		WMF1S1	EWFA1110	QF1-91	1PB-S10	
C180	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C181	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C183	.001		DPMS6D1	EWFA1210	QF1-1	1PB-D10	
C184	270		DD-271	GP270	GP327		10TS-T27
C185	39 N150			*		10TCP-Q39	
C186	220 N150			*		10TCP-T22	
C187	18 N150			*		10TCP-Q18	
C188	18 N150			*		10TCP-Q18	
C189	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C190	.01		WMF1S1	EWFA1110	QF1-91	1PB-S10	
C191	.01		WMF1S1	EWFA1110	QF1-91	1PB-S10	
C192	.047		DPMS2S47	EWFA1147	QF1-171	1PB-S47	
C194	100		DD-101	GP100	GP310		10TS-T10
C195	.0022		DPMS6D22	EWFA1122		6PS-D22	
C197	.0022		DD-222		GP222	QC2-97	5GA-D22
C198	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C201	39 N150			*		10TCP-Q39	
C202	.01		DC-103	MGP01	TA110	QC2-141	TG-S10

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C203	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C204	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C204	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C205	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C206	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C207	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C208	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C209	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C210	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C211	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C212	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C251	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C501	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C502	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
CT1	20						
CT2	20						
CT3	20						
CT4	20						
CT5	20						

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

(1) Used in some versions.

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
RV1	Bias	100					U260R101B
RV2	SSB Power	5000					U260R502B
RV3	RF Meter	20K					U260R203B
RV4	Balance	1000					U260R102B
RV5	Balance	10K					U260R103B
RV6	AM S Meter	10K					U260R103B
RV7	SSB S Meter	10K					U260R103B
RV8	AGC	5000					U260R502B
RV9	AM Squelch Range	20K					U260R203B
RV10	SSB Squelch Range	200K					U260R204B
RV11	MIC Gain SSB	500					U260R501B
RV12	AMC	2000					U260R252B
RV501	SWR	5000		T-5000 (2)	C-502 (2)	MTC53L1 (2)	X201R502B (2)
VR1	Volume/Switch	50K					
VR2	Squelch/Switch	50K					
VR3	Clarifier	50K					
VR4	AM Power	10 10W					
VR5	Dimmer	200	(18)				
VR6	Dimmer	20K					
VR7	SWR CAL	10K					

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

(18) Includes VR5 and VR6.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFR. PART No.			WORKMAN PART No.	MFR. PART No.
AREY251	Resistor Network		(1)	AREY252	Resistor Network		(1)

(1) Consists of 7, 1800 Ohm Resistors

PARTS LIST AND DESCRIPTION (CONTINUED)

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke (22uH)	(1)			(1) Used in some versions.
L2	RF Choke (68uH)				
L3	RF Choke				
L4	RF Choke (2.2uH)				
L5	RF Choke (2.2uH)				
L7	Xmit Driver (27mHz)				
L8	RF Choke				
L9	RF Choke				
L10	RF Choke				
L11	Final (27mHz)				
L12	RF Choke				
L13	P1 Filter (27mHz)				
L14	RF Choke (4.7uH)				
L15	RF Choke (2.2uH)				
L16	RF Choke (1uH)				
L17	RF Choke (68uH)				
L18	RF Choke (1uH)				
L19	RF Choke (68uH)				
L20	RF Choke (68uH)				
L21	RF Choke				
L22	RF Choke				
L23	RF Choke				
L24	RF Choke				
L201	RF Choke				
T1	VCO Mixer (38.100mHz)				
T2	VCO Mixer (38.100mHz)				
T3	OSC (20.100mHz)				
T4	Mixer (27mHz)				
T5	Mixer (27mHz)				
T6	Xmit Buffer (27mHz)				
T7	Rec Antenna (27mHz)				
T8	Rec RF (27mHz)				
T9	Rec RF (27mHz)				
T10	IF (10.695mHz)				
T11	IF (10.6935mHz)				
T12	IF (10.6935mHz)				
T13	IF (10.695mHz)				
T14	IF (455kHz)				
T15	IF (455kHz)				

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	1.8A	.241	3.72mH	LI-119H004W (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	8	8	TBG28A004W(1)		MCB26	(1) Number on Unit

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3" PM, 8 Ohms		30A05Z8R	

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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	3 Amp			AGC3	HDJ	312003	150145	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		18-032	18-034	18-010	18-092	1	2	3	4	NC	2

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MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF	Ceramic Filter		455pNz
S1	Switch		Power (Part of Volume Control)
S2	Switch		Mode (AM USB LSB)
S3	Switch		PA/CB (Part of squelch Control)
S4	Switch		NB
S5	Switch		LOC/DX
S6	Switch		RF/CAL/SWR
SW1	Switch		Channel Selector
X1	Crystal		10.0525MHz
X2	Crystal		10.240MHz
X3	Crystal		10.652MHz
XF	Crystal Filter	SC	10.655MHz (SC-107A)
	P.C. Board		Main (PTBM048A0X)
	P.C. Board		Switch (PTSM020C0X)
	P.C. Board		LED (PTLD010C0X)
	P.C. Board		SWR (PTBR007A0X)
VCO	VCO		Osc (ZZZ017)

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')

