



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 1200 (EXCALIBUR)

MANUFACTURER'S SPECIFICATIONS

TRANSMITTER

Power Output	4W — AM, 12W [PEP] — Single sideband, both maximum allowed by FCC, at 13.8V DC or 117V AC
SSB Generation	Dual balanced modulation
AM Modulation	High and low level class B amplitude modulation
AM Modulation Capability	95% typically
Harmonic Suppression and Spurious Emission	Better than FCC requirement
AM Frequency Response	400 to 5000 Hz
SSB Frequency Response	400 to 3000 Hz
Output Impedances [A and B]	50 Ohms, unbalanced
Output Indicators	RF Meter shows relative RF output power

RECEIVER

AM Sensitivity	1 μ V for 10 dB S/N
SSB Sensitivity	0.3 μ V for 10 dB S/N
AM Selectivity	5 dB at 4 kHz, 50 dB at 10 kHz
SSB Selectivity	5 dB at 2 kHz
Image Rejection	More than 50 dB
IF Rejection	More than 80 dB at 455 kHz
AGC	Change in audio output less than 12 dB from 10 μ V to 0.4V
Squelch	Adjustable — threshold less than 0.7 μ V
Audio Frequency Response	400 to 2500 Hz
Distortion	Less than 10% at 3 watts output
Adjacent Channel Rejection	More than 75 dB at 0.3 μ V
Cross Modulation	More than 50 dB
Intermediate Frequency	10.695 MHz [AM-1st, SSB], 455 kHz [AM-2nd]
Clarifier	$\pm$ 800 Hz
Noise Blanker	IF single gate type
Audio Output Power	More than 3 watts into 8 ohms
Built-in Speaker	8 ohms, dynamic
External Speaker [optional]	Disables internal speaker when connected

PUBLIC ADDRESS [PA] SYSTEM

Power Output	3 watts into external speaker
External Speaker for PA [optional]	When PA switch is in PA mode, the unit functions as a public address system

COLT MODEL 1200

Courtesy of the Manufacturer

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. Adjust RV1 (In AC Power Supply) for 13.8-volts DC at TP9. 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:
T1 thru T5,T7,T8,T9,T11,T12,VCO.....9440
T10,T13,T14,T15.....5000,5009,8276,8728,9089
T6,L7,L11,L13.....8728,9304,9089
CT1 thru CT5.....5000,8276,9089

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP2.	Ch. 19, AM	CT3	Adjust for 10.240MHz +50Hz.
Input of oscilloscope to TP3.	Ch. 19, AM	T3	Adjust for maximum RF (130mV p-p typical). (See Figure 2).
Input of frequency counter to TP3.	Ch. 19, AM/USB Clarifier Midrange	CT1	Adjust for 20.105MHz +40Hz.
Input of frequency counter to TP3.	Ch. 19, LSB Clarifier Midrange	CT2	Adjust for 20.1035MHz +40Hz.
Input of DC meter to TP1.	Ch. 1, AM	VCO	Adjust for 3.60 volts +.1 volt. Check for approximate 2.00 volts on channel 40.
Input of frequency counter to TP6 (IC1 Pin 2).	Ch. 1, AM		Check for 2.550MHz. Check all channels. (See Truth Chart for correct frequencies).
Input of oscilloscope to TP7 (T2 secondary).	Ch. 19, AM	T1,T2	Adjust for maximum RF (60mV p-p typical). (See Figure 3).
Input of frequency counter to TP7 (T2 secondary).	Ch. 1, AM/USB Clarifier Midrange		Check for 37.660MHz. If necessary readjust CT1 for correct frequency. Check all channels. (See Truth Chart for correct frequencies).
Input of frequency counter to TP7 (T2 secondary).	Ch. 1, LSB Clarifier Midrange		Check for 37.657MHz. If necessary readjust CT2 for correct frequency. Check all channels. (See Truth Chart for correct frequencies).
Input of frequency counter to TP5.	Ch. 19, USB	CT5	Adjust for 10.695MHz +50Hz.
Input of frequency counter to TP5.	Ch. 19, LSB	CT4	Adjust for 10.692MHz +50Hz.

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil. Adjust volume control to obtain a suitable indication. Set generator output low enough to prevent AGC limiting. Preset controls as follows, unless otherwise noted: RF Gain Maximum, Clarifier Midrange, Squelch MINIMUM, Tone Fully Clockwise, NB Off, ANL Off, Hi Filter Off

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP8 (T13 tap). 455kHz, 1000Hz @ 30% modulation.	Ch. 19, AM Clarifier Midrange	T14,T15	Adjust for maximum output.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19, AM Clarifier Midrange	T13,T10,T9, T8,T7	Adjust for maximum output. Readjust T14 and T15 for maximum.
Output of signal generator thru .01uF to antenna input. 10.69535MHz, no modulation.	Ch. 19, USB Clarifier Midrange	T12,T11	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.
Preset controls as follows, unless otherwise noted: RF Gain Maximum, Clarifier Midrange,
Squelch MINIMUM, Tone Fully Clockwise, NB Off, ANL Off, Hi Filter Off.

TEST EQUIPMENT	TRANSCIEVER	ADJUST	REMARKS
Input of DC meter to TP10 (Junction of R81 and R85). No signal input.	Ch. 19, USB	RV8	AGC Adjust for 2.00 volts.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 300uV.	Ch. 19, AM Squelch Maximum	RV9	AM SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator thru .01uF to antenna input. 27.186MHz, no modulation. Output 300uV.	Ch. 19, USB Squelch Maximum	RV10	SSB SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator thru .01uF to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19, AM	RV6	AM SIGNAL METER Adjust for 9 on signal meter.
Output of signal generator thru .01uF to antenna input. 27.186MHz, no modulation. Output 100uV.	Ch. 19, USB	RV7	SSB SIGNAL METER Adjust for 9 on signal meter.

TRANSMITTER ALIGNMENT

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

TEST EQUIPMENT	TRANSCIEVER	ADJUST	REMARKS
Input of RF wattmeter to antenna input. Inject a 2400Hz, 10mV audio signal at mic input.	Ch. 19, USB Mic Gain Maximum	T4, T5, T6, L11, L7, L13	Adjust for maximum RF output.

TRANSMITTER ADJUSTMENTS

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

TEST EQUIPMENT	TRANSCIEVER	ADJUST	REMARKS
Input of oscilloscope or RF wattmeter to antenna input. No modulation.	Ch. 19, USB or LSB Mic Gain MINIMUM	RV4, RV5	CARRIER BALANCE Adjust for MINIMUM RF output.
Insert a 0-150mA DC meter between Q10 emitter and ground. No modulation input.	Ch. 19, USB or LSB Mic Gain MINIMUM	RV1	FINAL BIAS Adjust for 35mA $\pm$ 10mA bias current.
Input of RF wattmeter to antenna input. Inject a two tone, 100mV audio signal at mic input.	Ch. 19, USB or LSB Mic Gain Maximum	RV11	SSB MIC GAIN Set RV2 to MINIMUM and adjust RV11 for 11.0 watts Pep RF output maximum.
Input of RF wattmeter to antenna input. Inject a 2400Hz, 100mV audio signal at mic input.	Ch. 19, USB or LSB Mic Gain Maximum	RV2	SSB RF ALC Adjust for 12.0 watts Pep RF output maximum.
Input of oscilloscope or modula- tion meter to antenna input. In- ject a 2500Hz, 70mV audio signal at mic input.	Ch. 19, AM Mic Gain Maximum	RV12	AM AMC Adjust for 90% modulation maximum. (See Figure 1).
Input of RF wattmeter to antenna input.	Ch. 19, AM Mic Gain MINIMUM	VR9	AM POWER Adjust for 4.0 watts RF output maximum.
Input of RF wattmeter to antenna input.	Ch. 19, AM Mic Gain MINIMUM	RV3	RF METER At 4.0 watts RF output adjust for 4 on RF meter.

COLT MODEL 1200

TRANSMITTER ADJUSTMENTS (Continued)

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Connect a 150 ohm non-inductive load to antenna input.	Ch. 19, AM SWR/CAL Cal	RV501	SWR METER Adjust CALIBRATE for SET on SWR scale of meter. Switch to SWR position and adjust RV501 for 3 on SWR scale of meter.

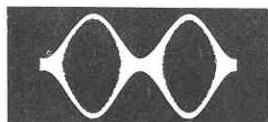


FIG. 1

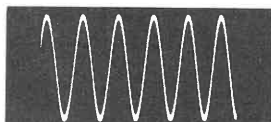


FIG. 2

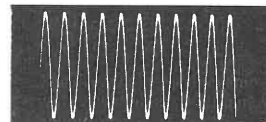
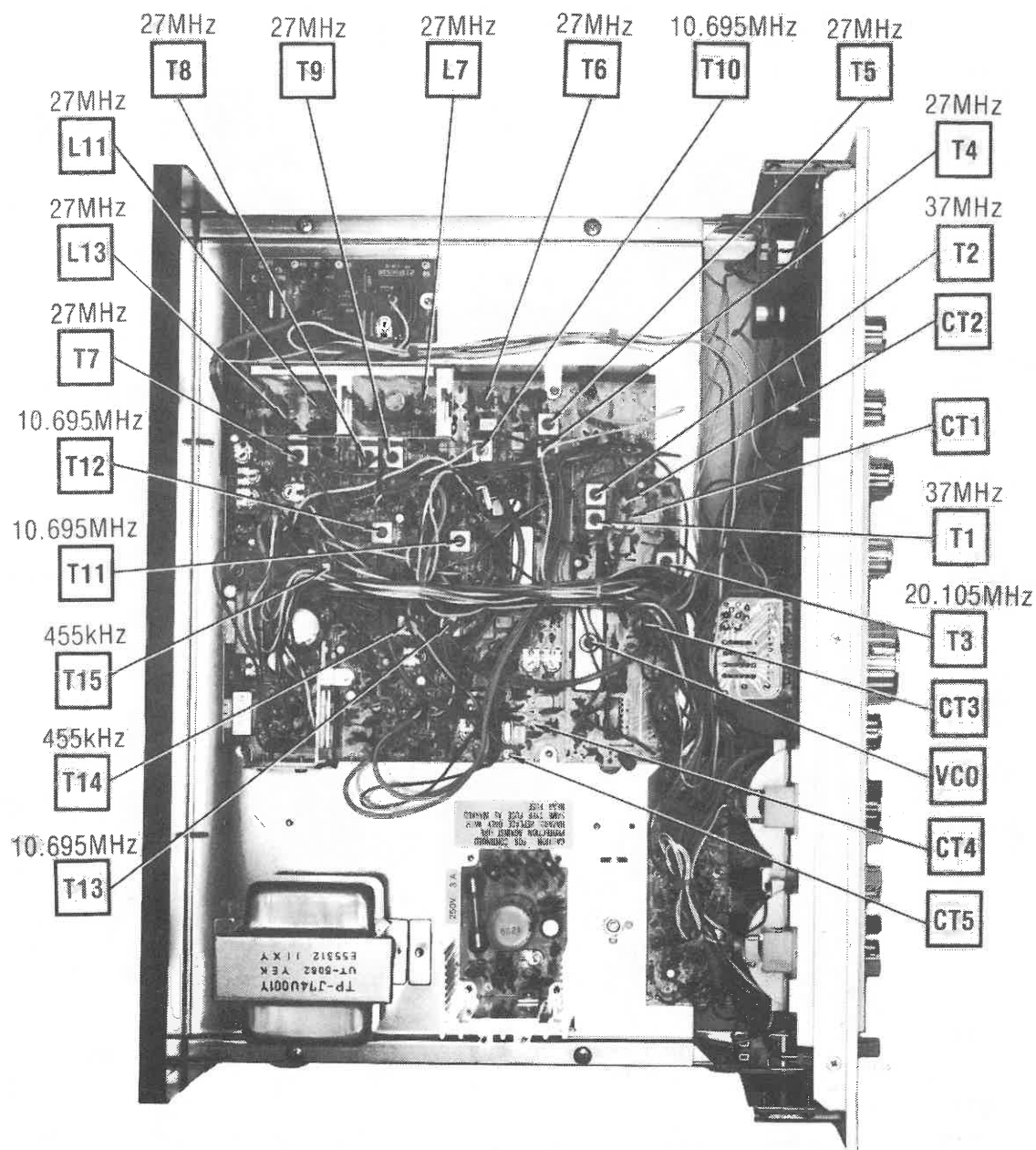


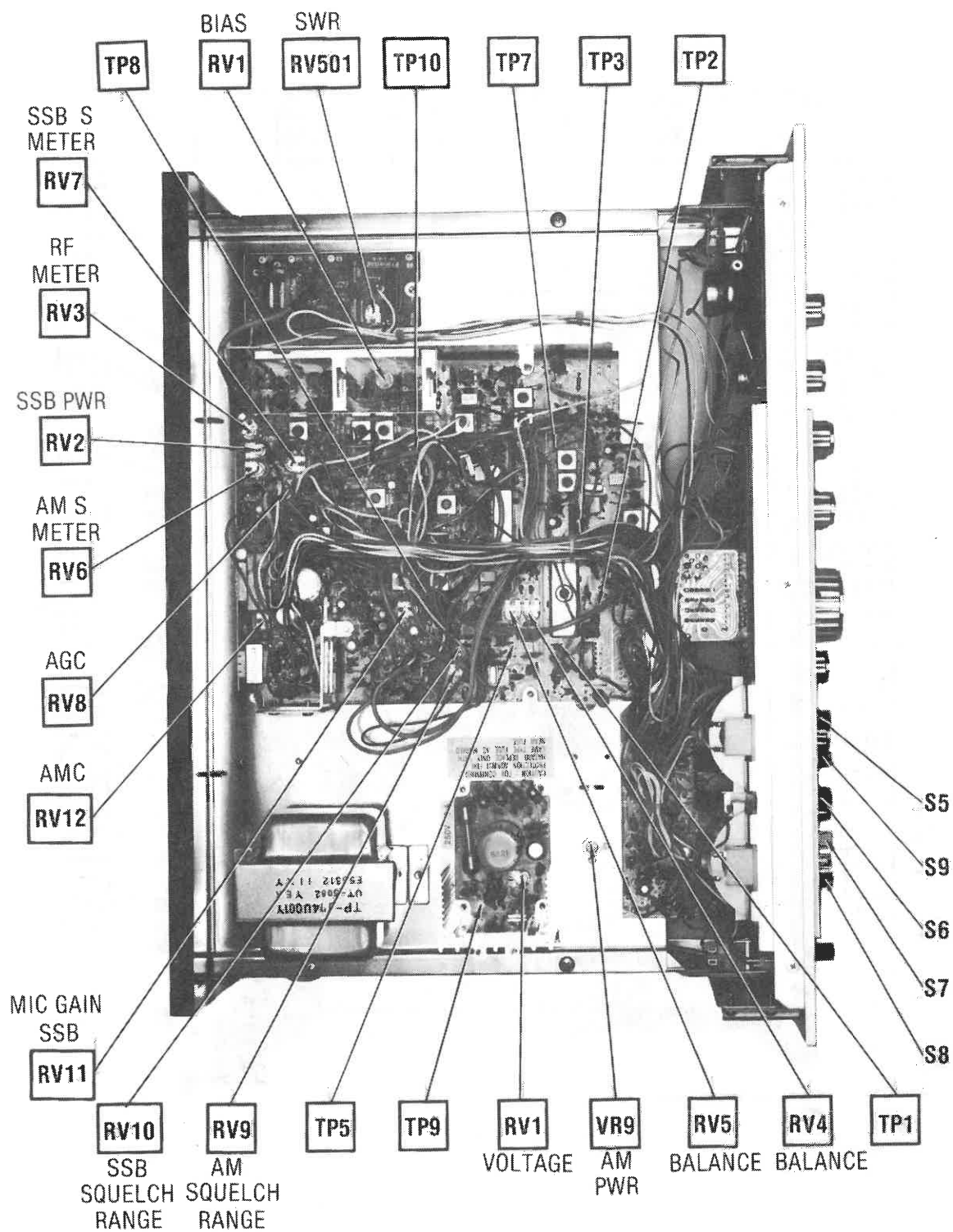
FIG. 3

TRUTH CHART

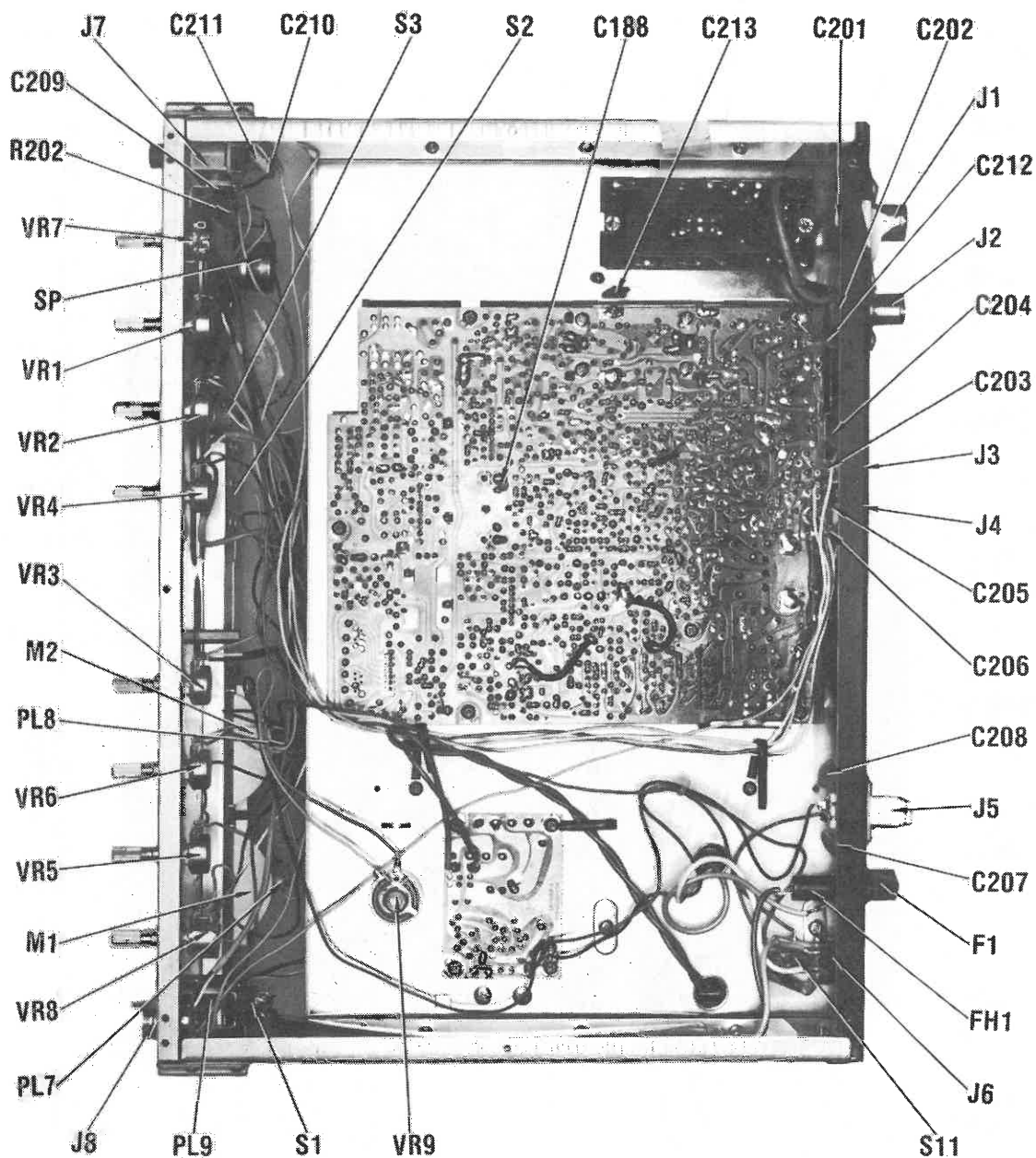
C H A N N E L	1 = 5.40 Volts 0 = 0 Volts								DIVIDER INPUT IN MHZ AT TP6	AM/USB SYNTHESIZER OUTPUT IN MHZ AT TP7	LSB SYNTHESIZER OUTPUT IN MHZ AT TP7
	CHANNEL INPUT CODES										
	IC1 PINS										
	10	11	12	13	14	15					
1	1	1	1	1	1	1			2.550	37.660	37.657
2	1	1	1	1	1	0			2.540	37.670	37.667
3	1	1	1	1	0	1			2.530	37.680	37.677
4	1	1	1	0	1	1			2.510	37.700	37.697
5	1	1	1	0	1	0			2.500	37.710	37.707
6	1	1	1	0	0	1			2.490	37.720	37.717
7	1	1	1	0	0	0			2.480	37.730	37.727
8	1	1	0	1	1	0			2.460	37.750	37.747
9	1	1	0	1	0	1			2.450	37.760	37.757
10	1	1	0	1	0	0			2.440	37.770	37.767
11	1	1	0	0	1	1			2.430	37.780	37.777
12	1	1	0	0	0	1			2.410	37.800	37.797
13	1	1	0	0	0	0			2.400	37.810	37.807
14	1	0	1	1	1	1			2.390	37.820	37.817
15	1	0	1	1	1	0			2.380	37.830	37.827
16	1	0	1	1	0	0			2.360	37.850	37.847
17	1	0	1	0	1	1			2.350	37.860	37.857
18	1	0	1	0	1	0			2.340	37.870	37.867
19	1	0	1	0	0	1			2.330	37.880	37.877
20	1	0	0	1	1	1			2.310	37.900	37.897
21	1	0	0	1	1	0			2.300	37.910	37.907
22	1	0	0	1	0	1			2.290	37.920	37.917
23	1	0	0	0	1	0			2.260	37.950	37.947
24	1	0	0	1	0	0			2.280	37.930	37.927
25	1	0	0	0	1	1			2.270	37.940	37.937
26	1	0	0	0	0	1			2.250	37.960	37.957
27	1	0	0	0	0	0			2.240	37.970	37.967
28	0	1	1	1	1	1			2.230	37.980	37.977
29	0	1	1	1	1	0			2.220	37.990	37.987
30	0	1	1	1	0	1			2.210	38.000	37.997
31	0	1	1	1	0	0			2.200	38.010	38.007
32	0	1	1	0	1	1			2.190	38.020	38.017
33	0	1	1	0	1	0			2.180	38.030	38.027
34	0	1	1	0	0	1			2.170	38.040	38.037
35	0	1	1	0	0	0			2.160	38.050	38.047
36	0	1	0	1	1	1			2.150	38.060	38.057
37	0	1	0	1	1	0			2.140	38.070	38.067
38	0	1	0	1	0	1			2.130	38.080	38.077
39	0	1	0	1	0	0			2.120	38.090	38.087
40	0	1	0	0	1	1			2.110	38.100	38.097



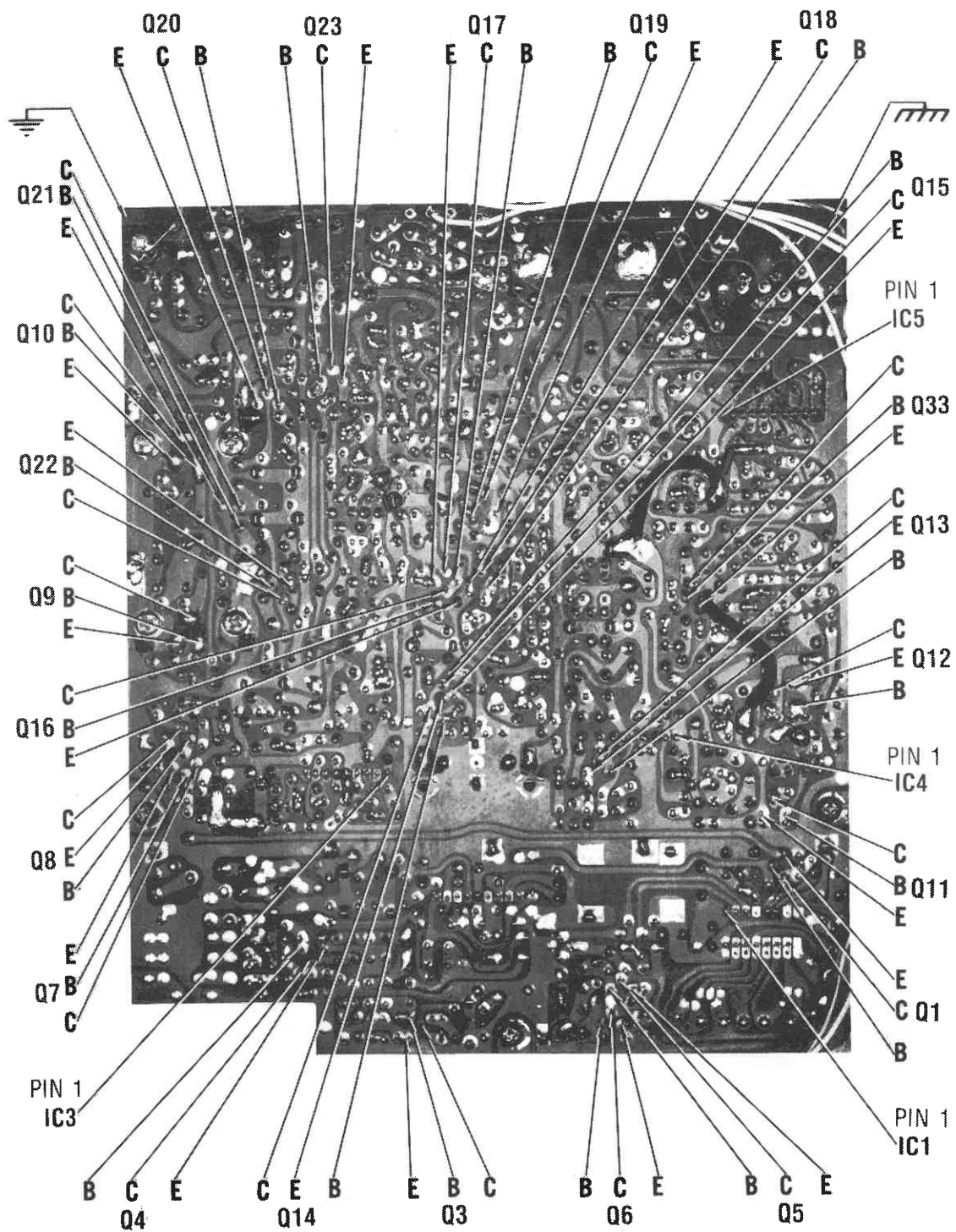
CHASSIS - TOP



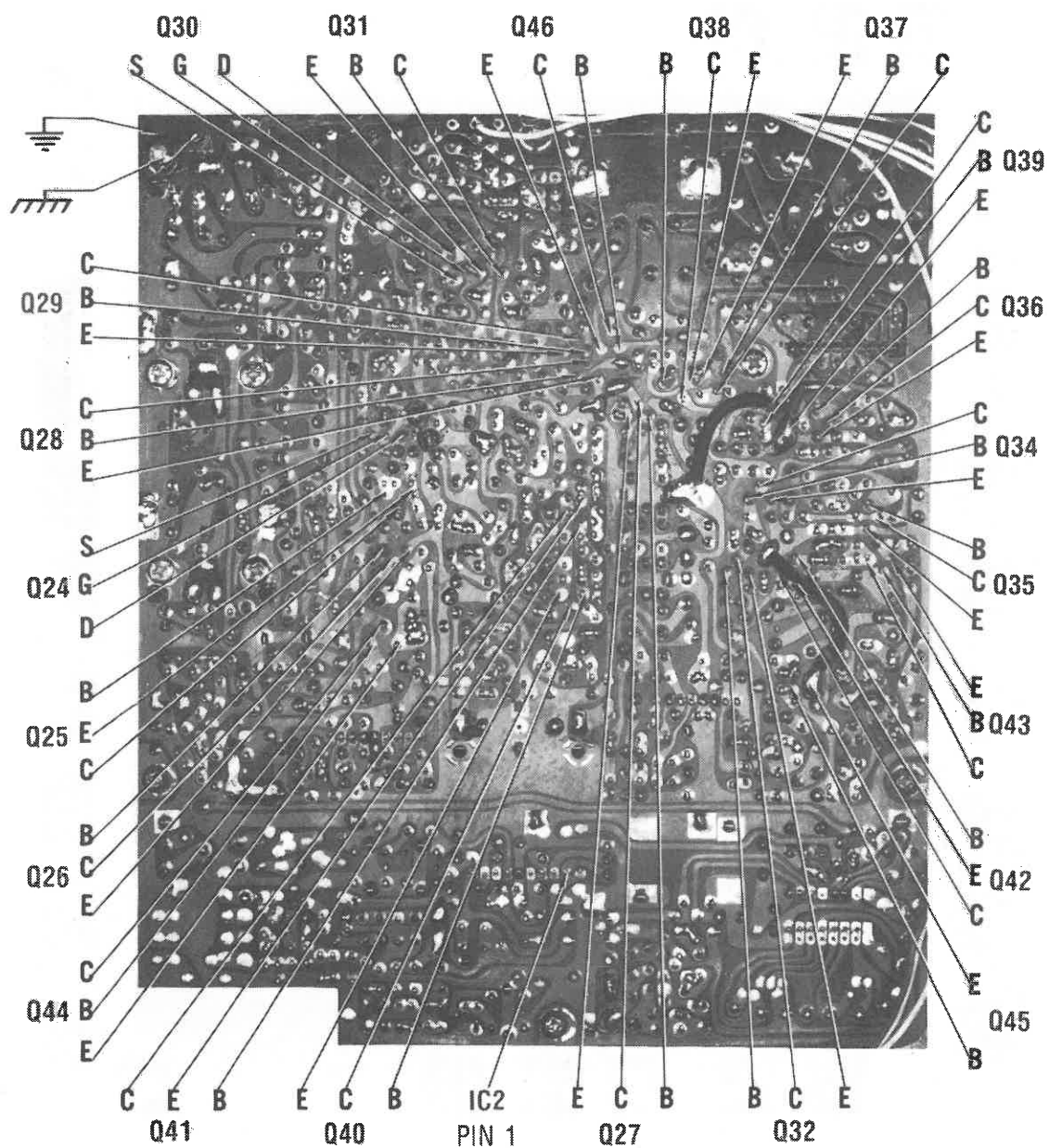
CHASSIS - TOP



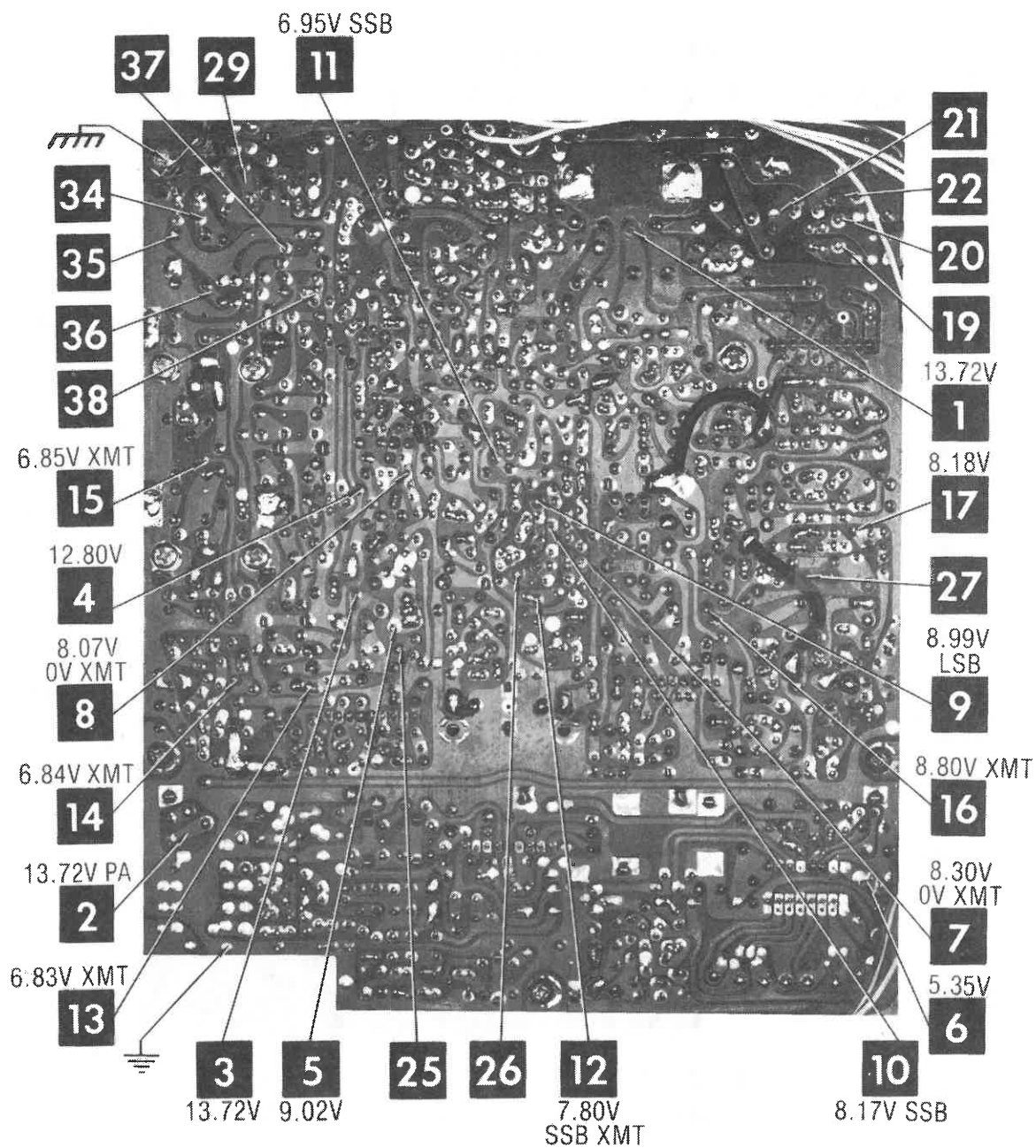
CHASSIS - BOTTOM



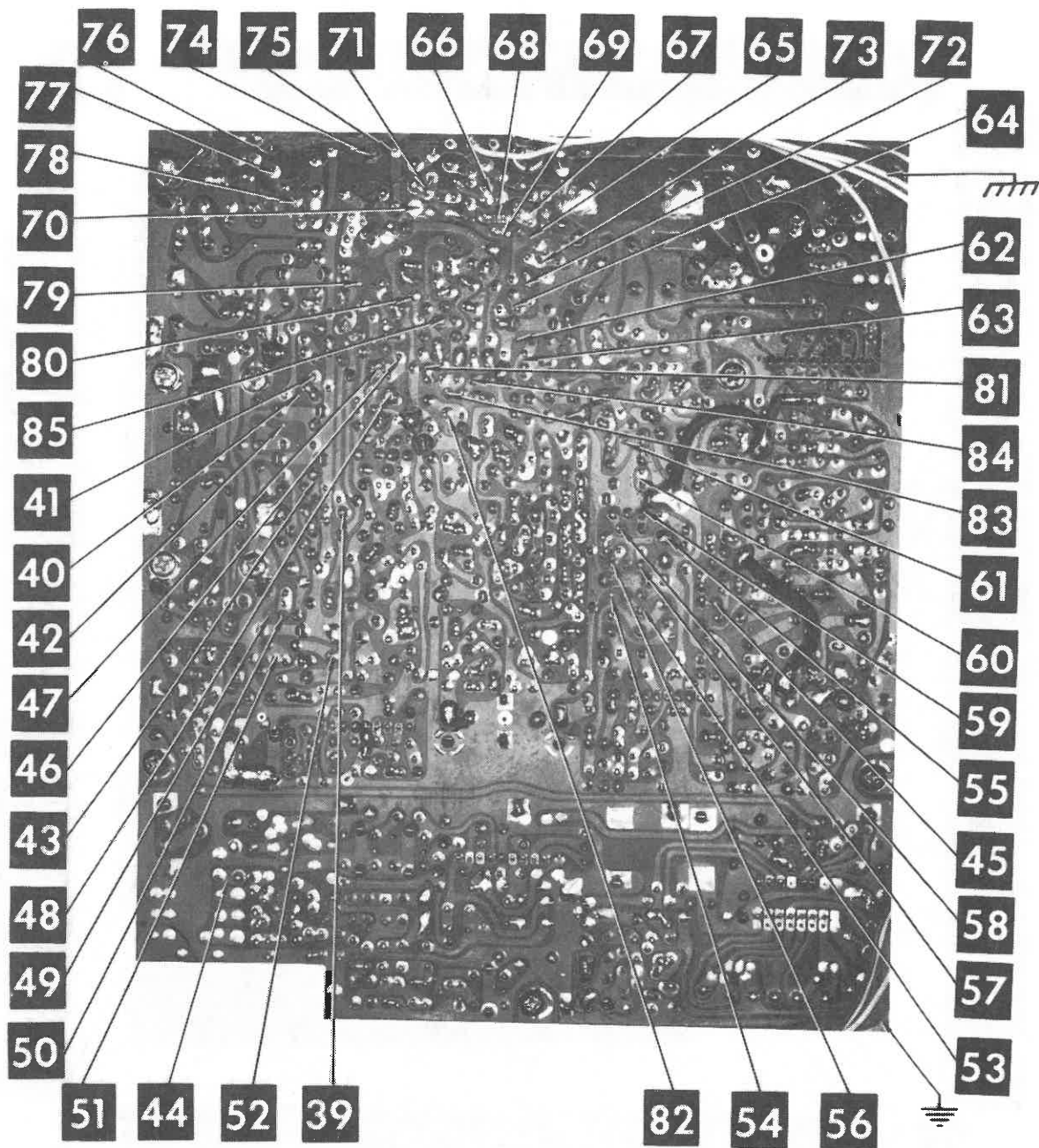
MAIN BOARD



MAIN BOARD

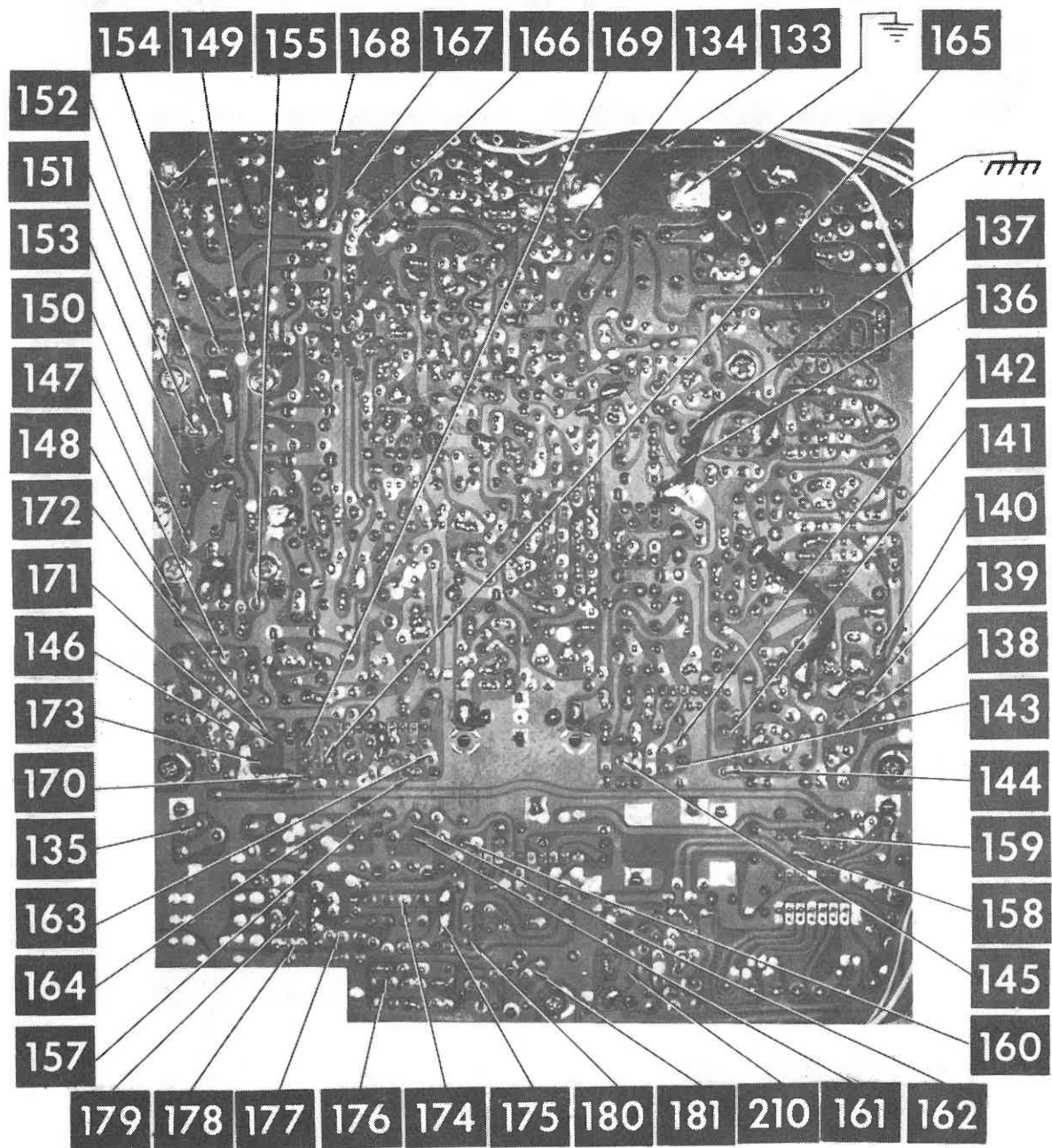


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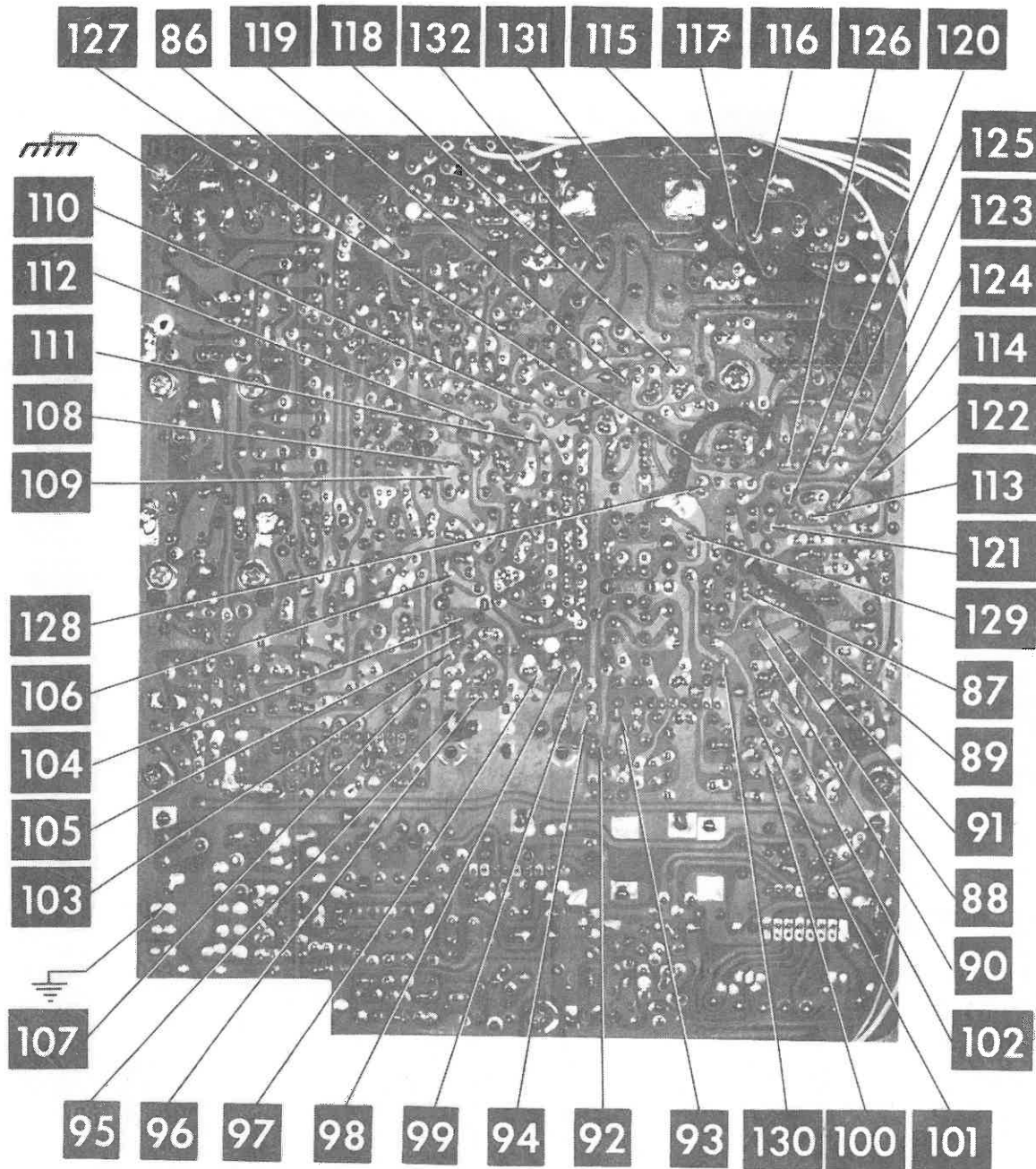
COLT MODEL 1200

MAIN BOARD

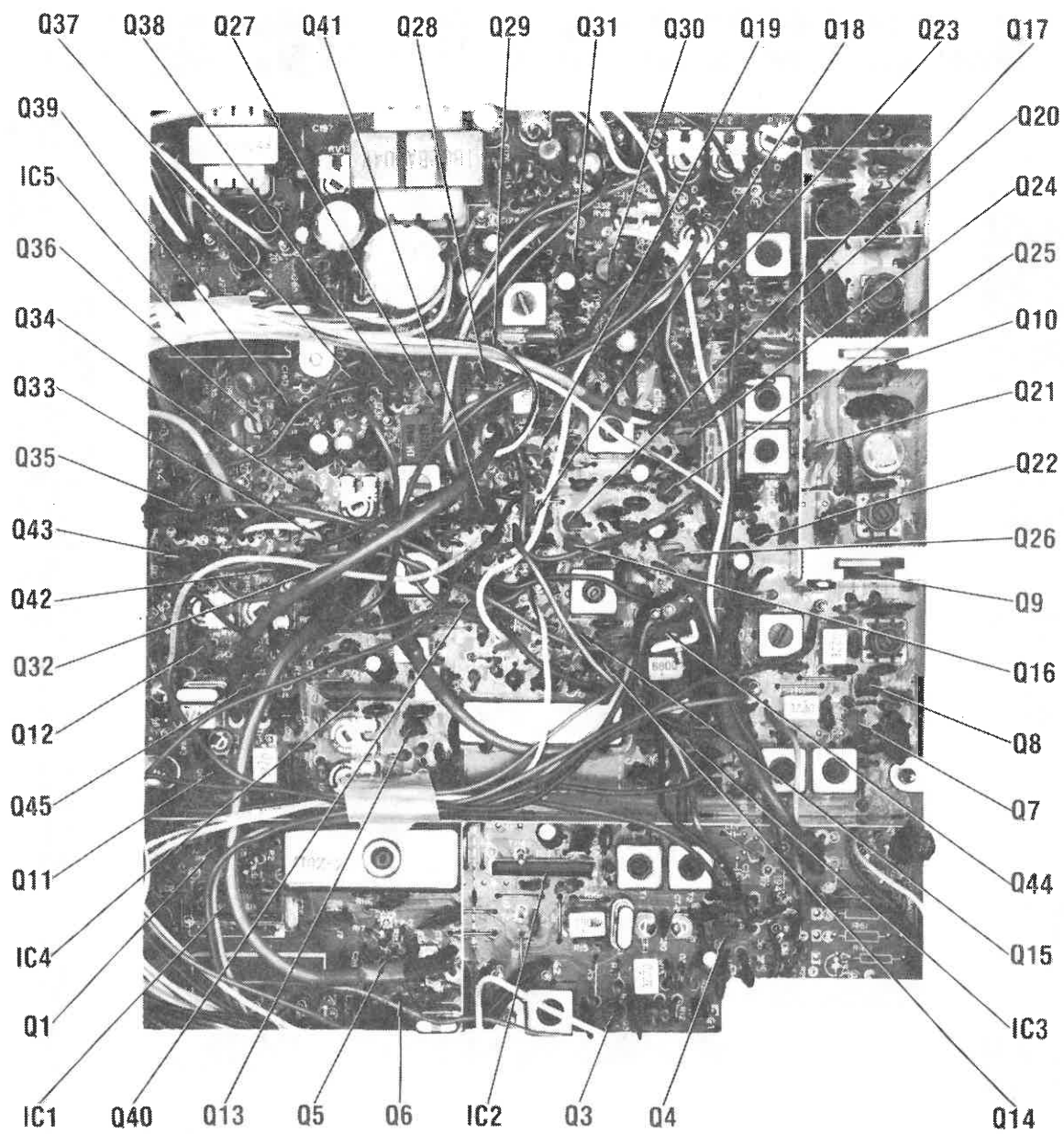


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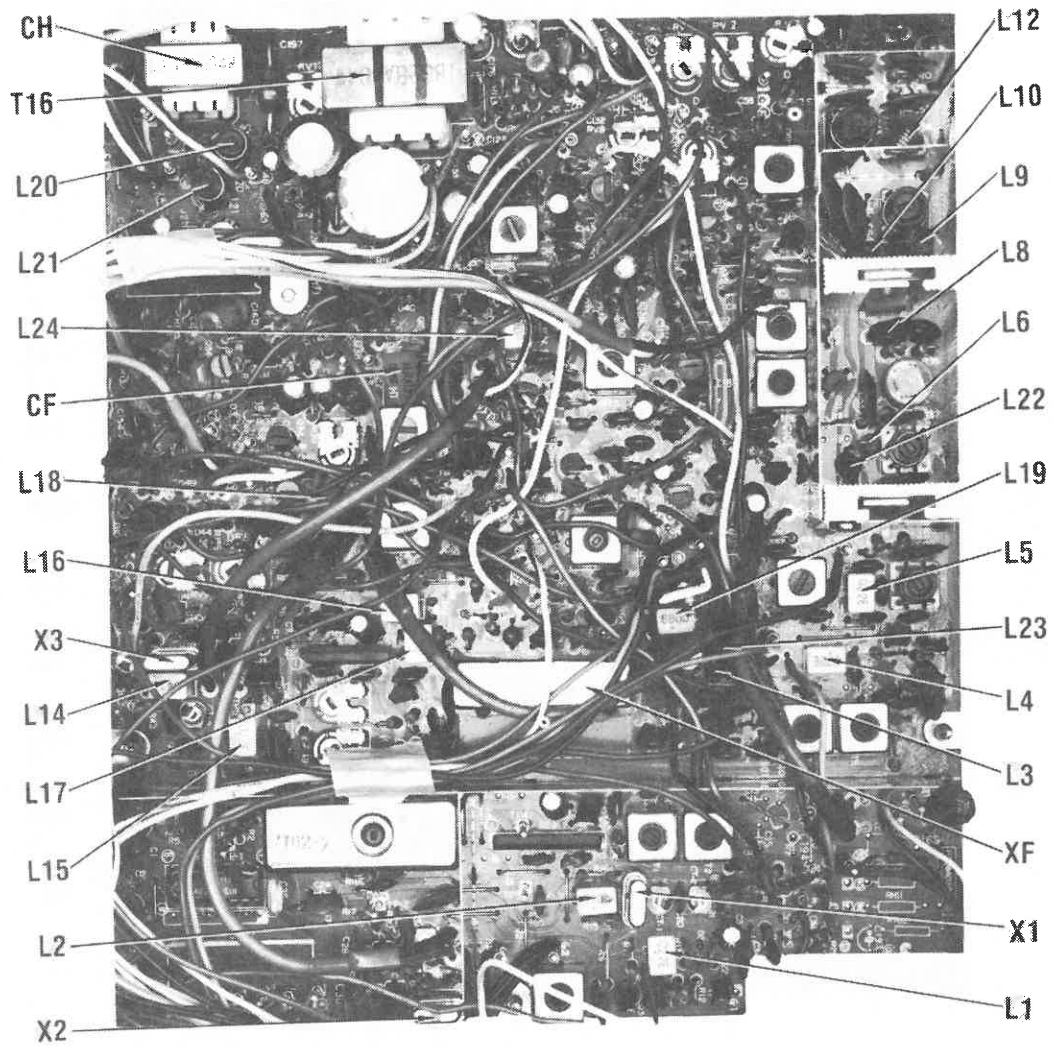
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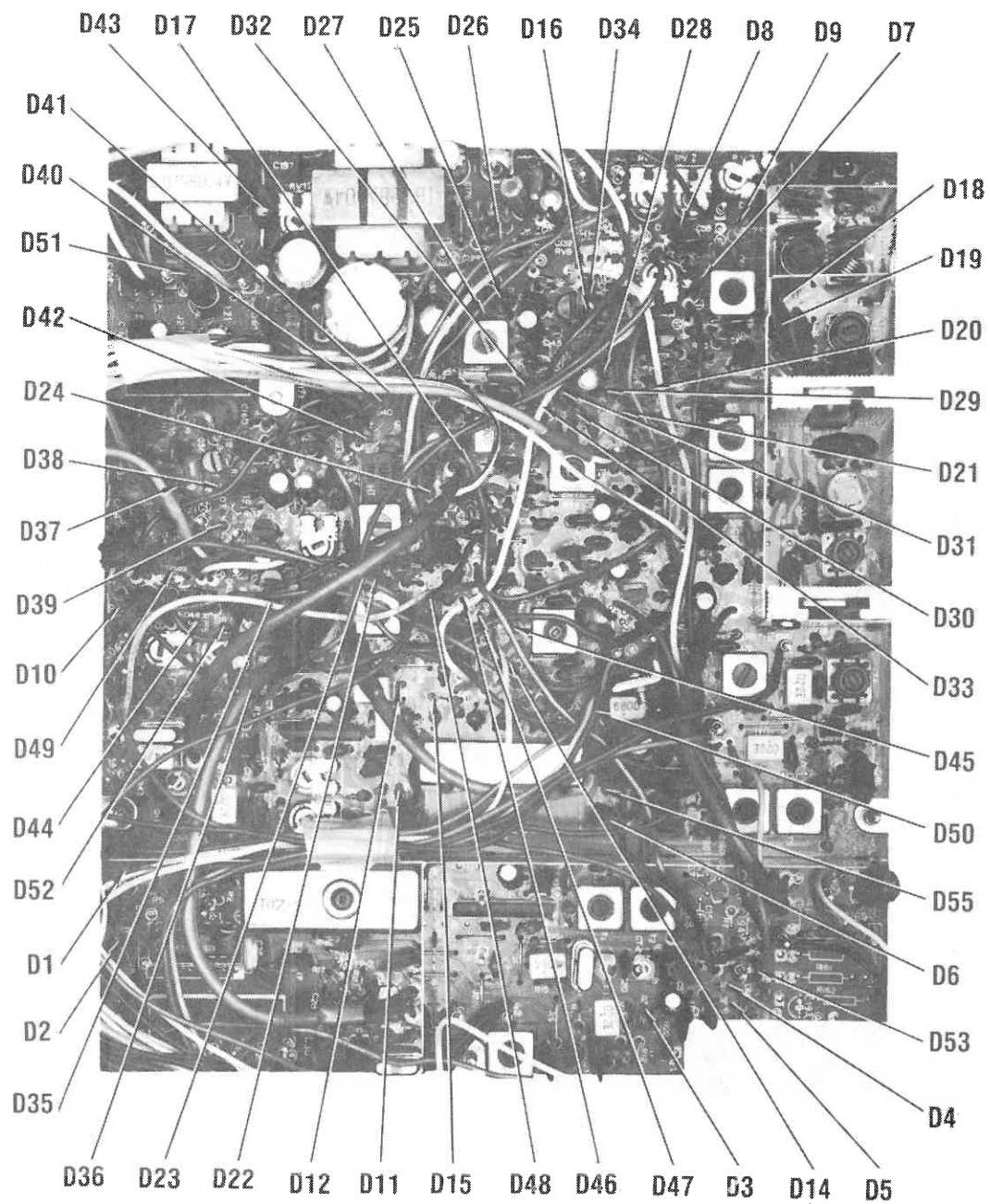
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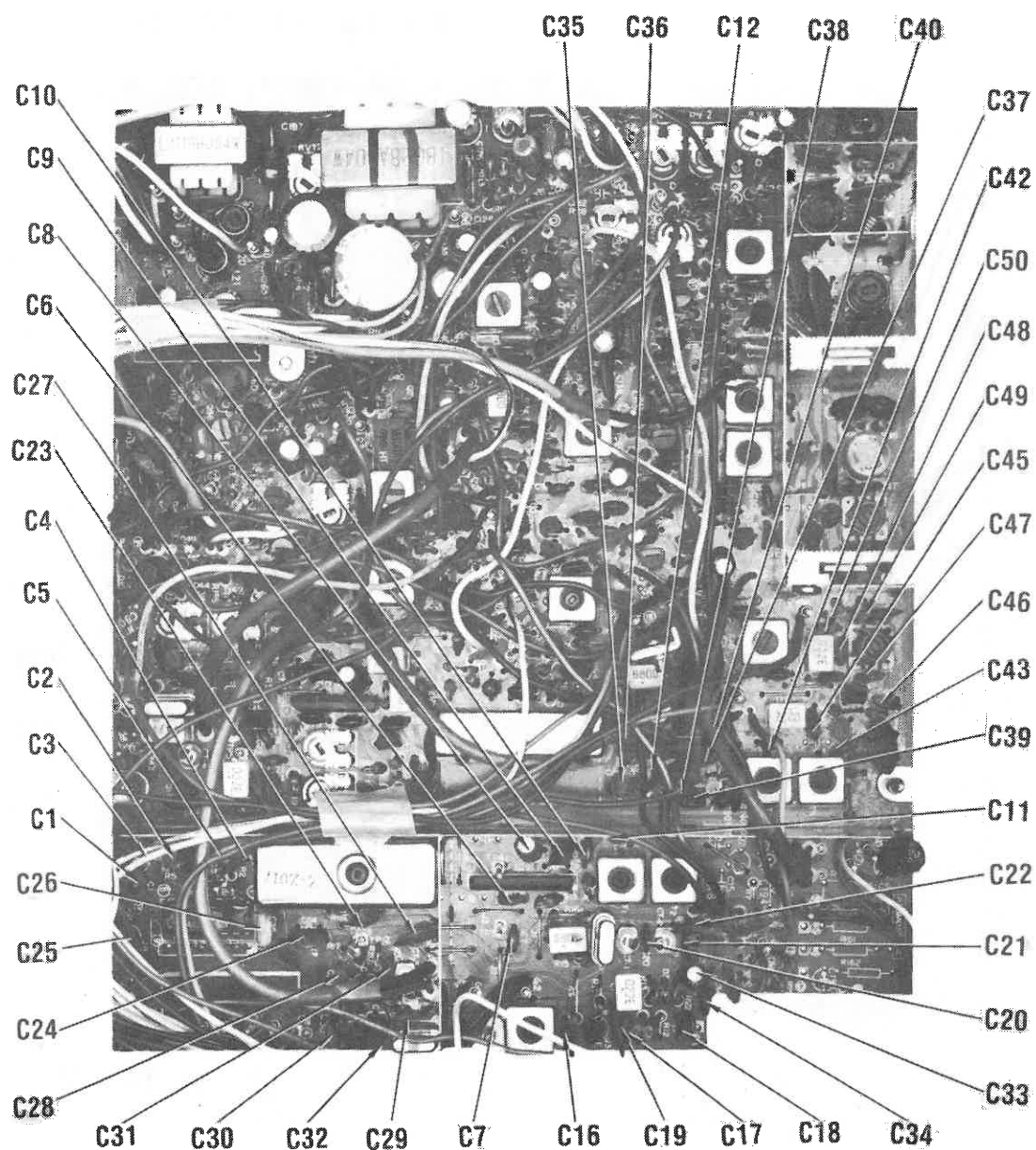
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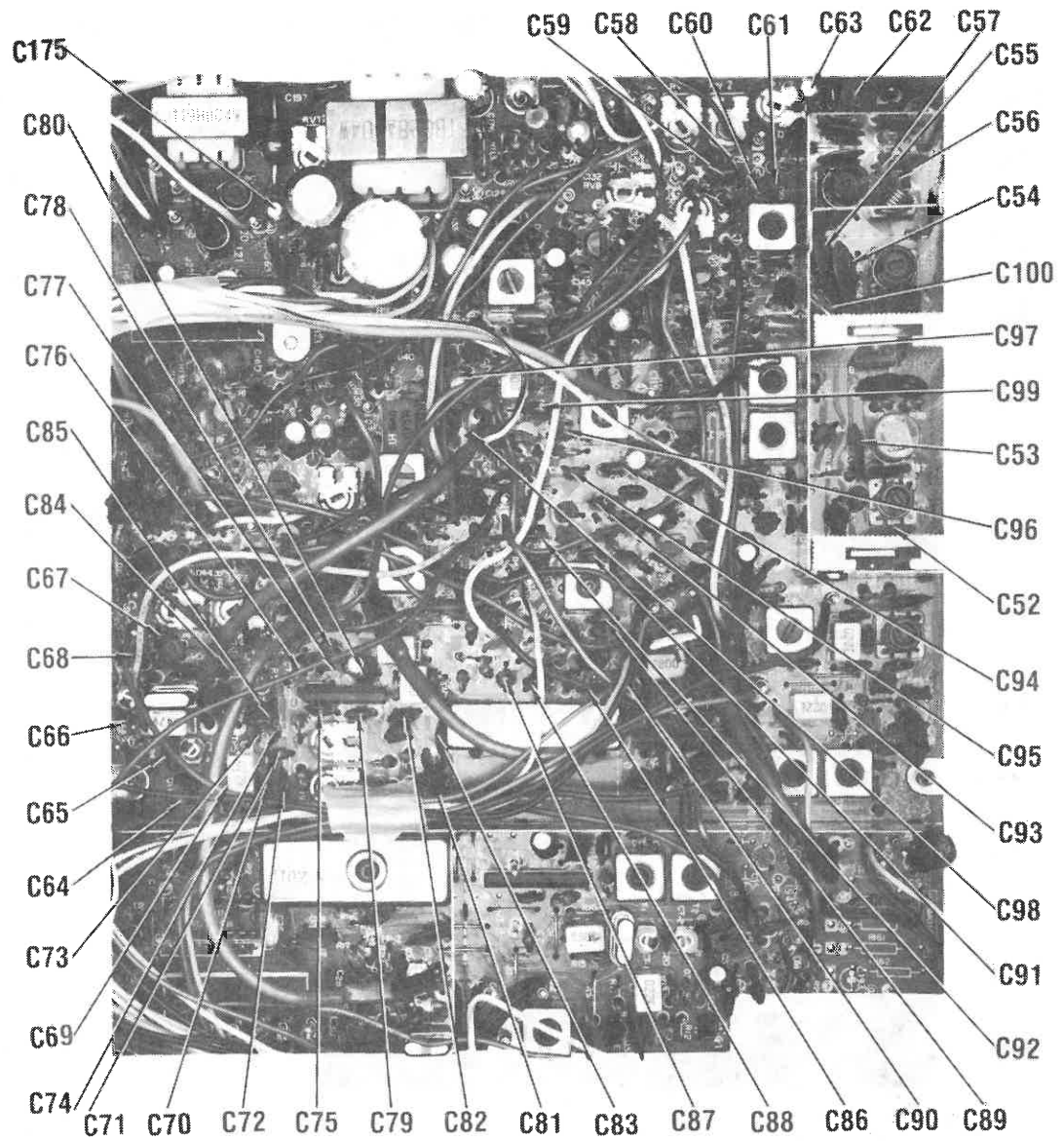
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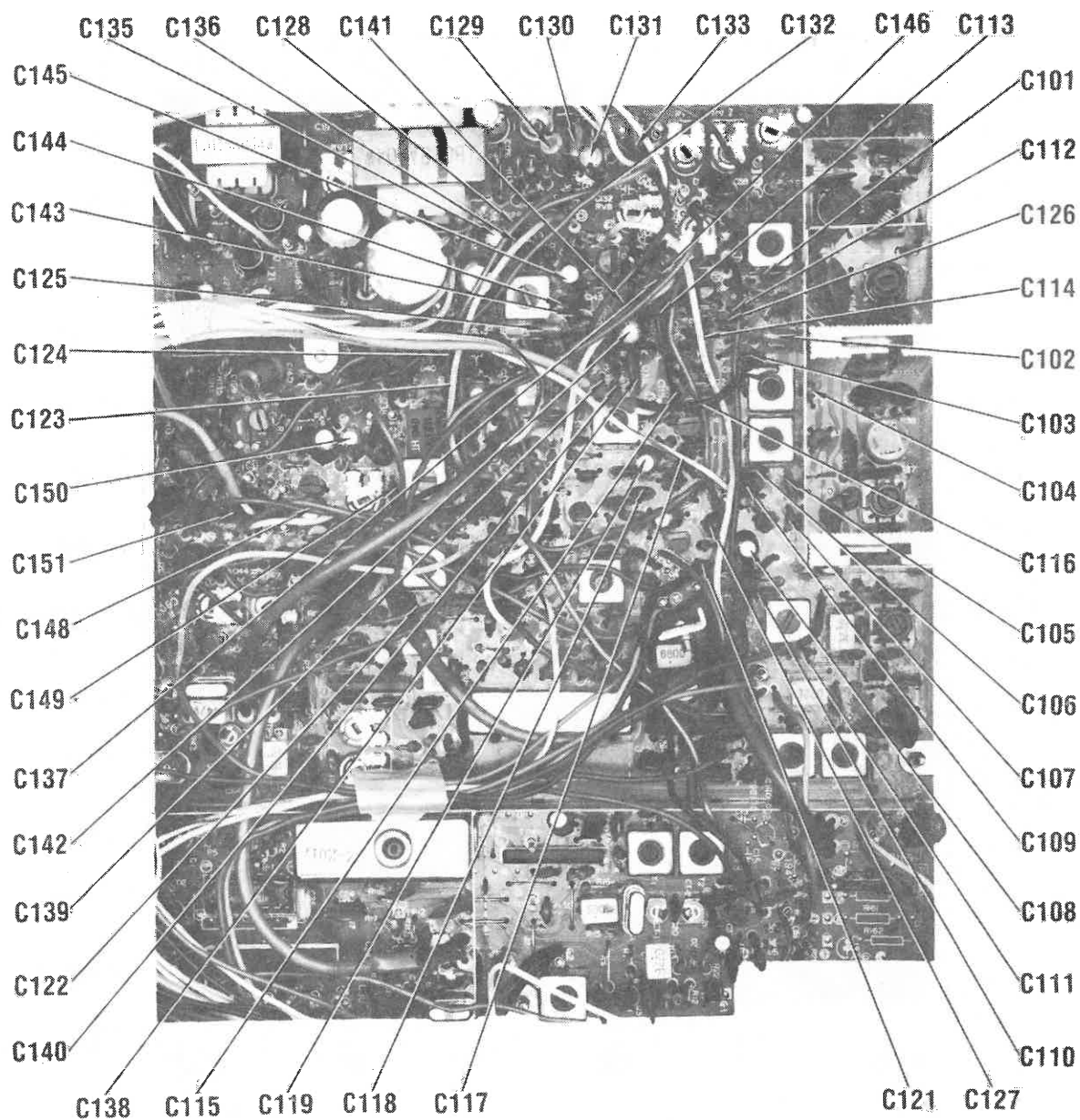
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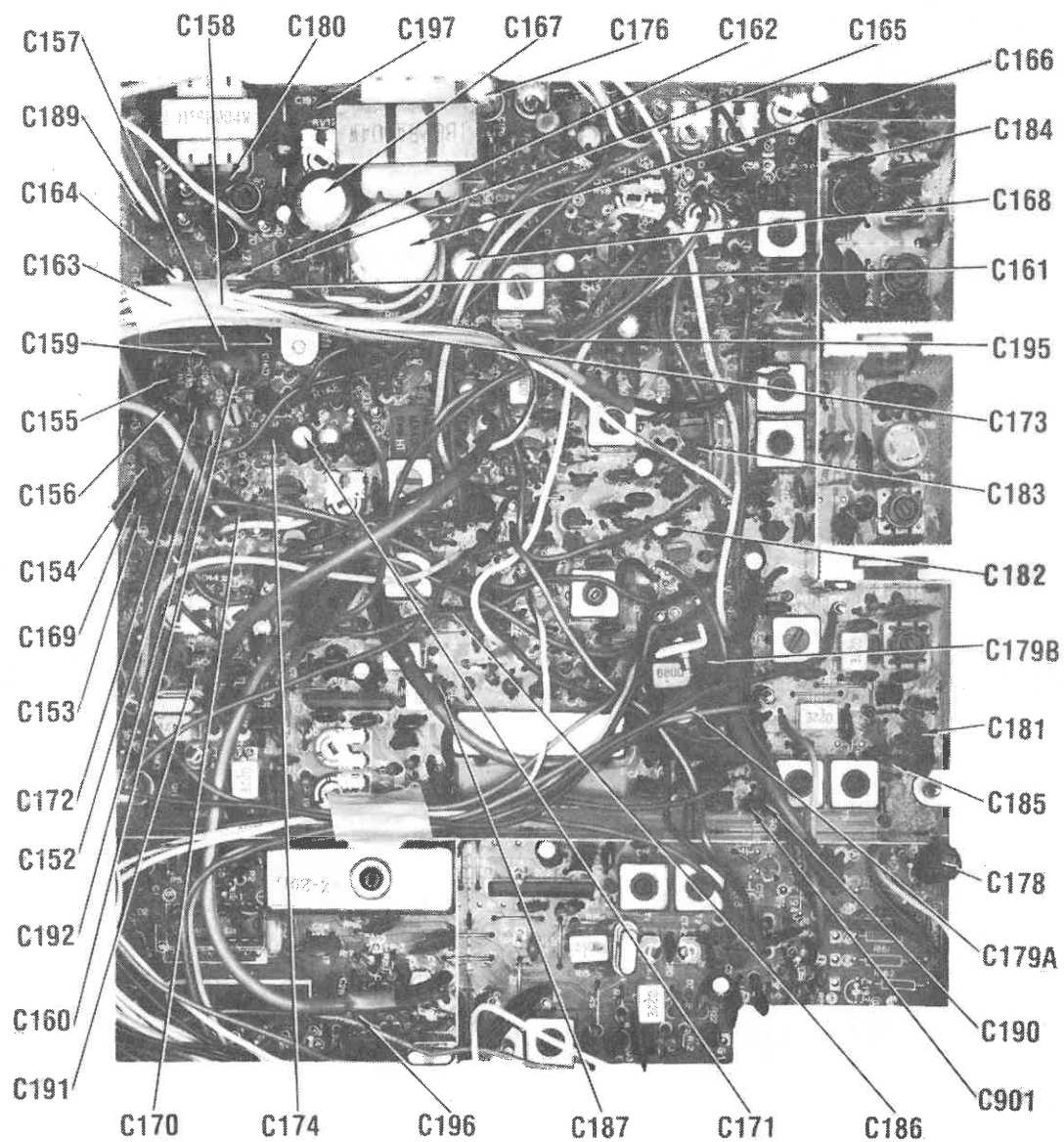
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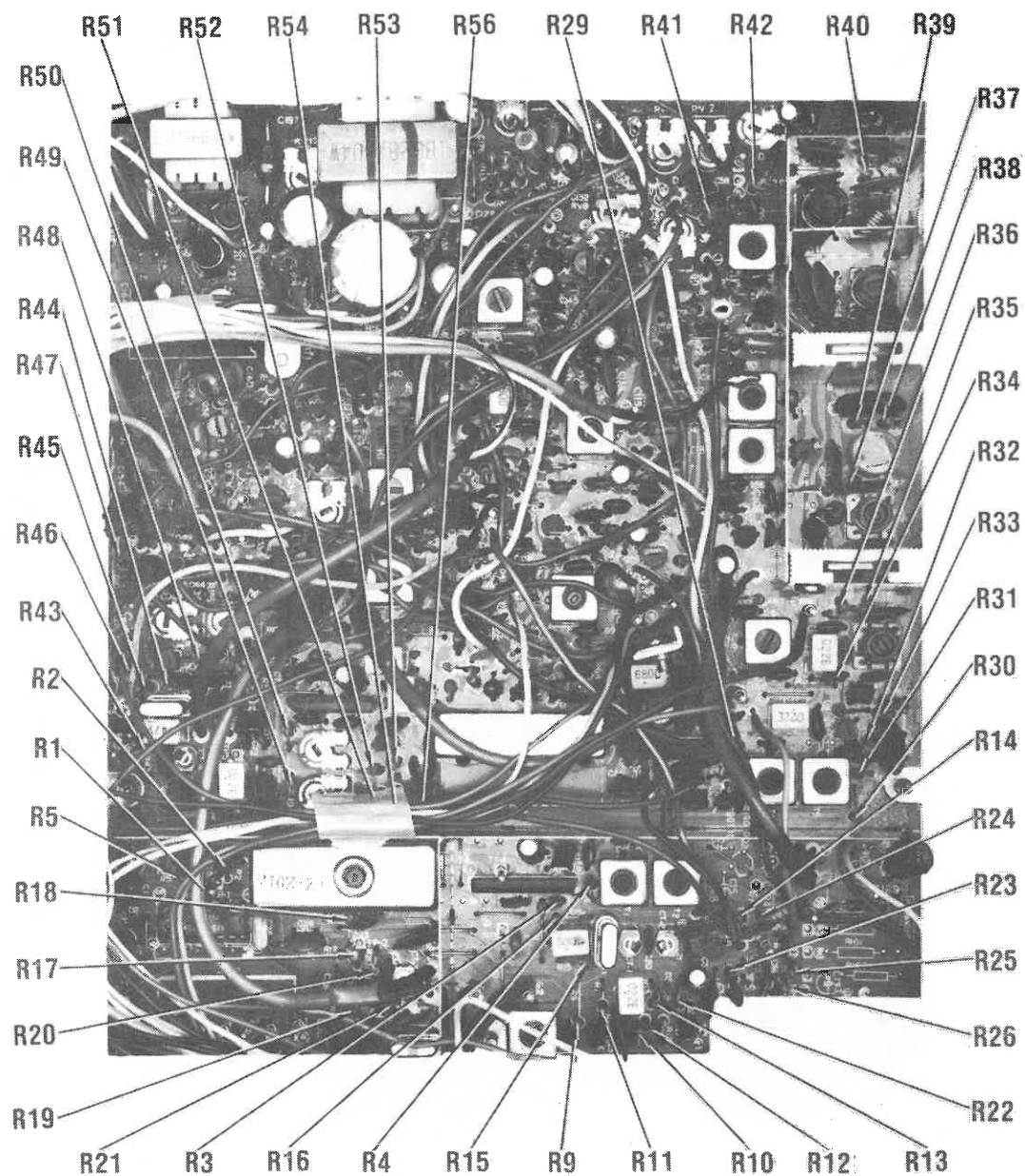
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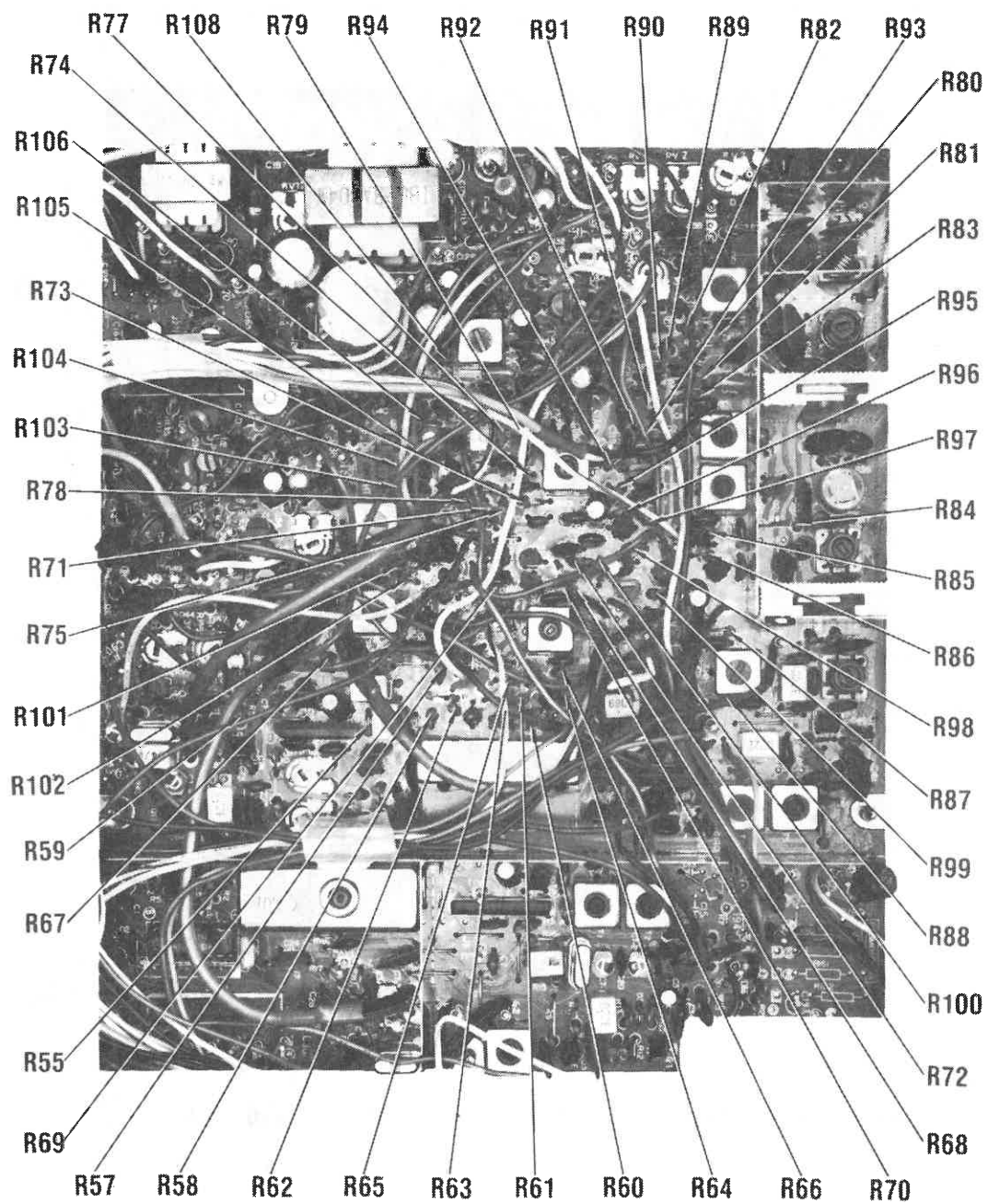
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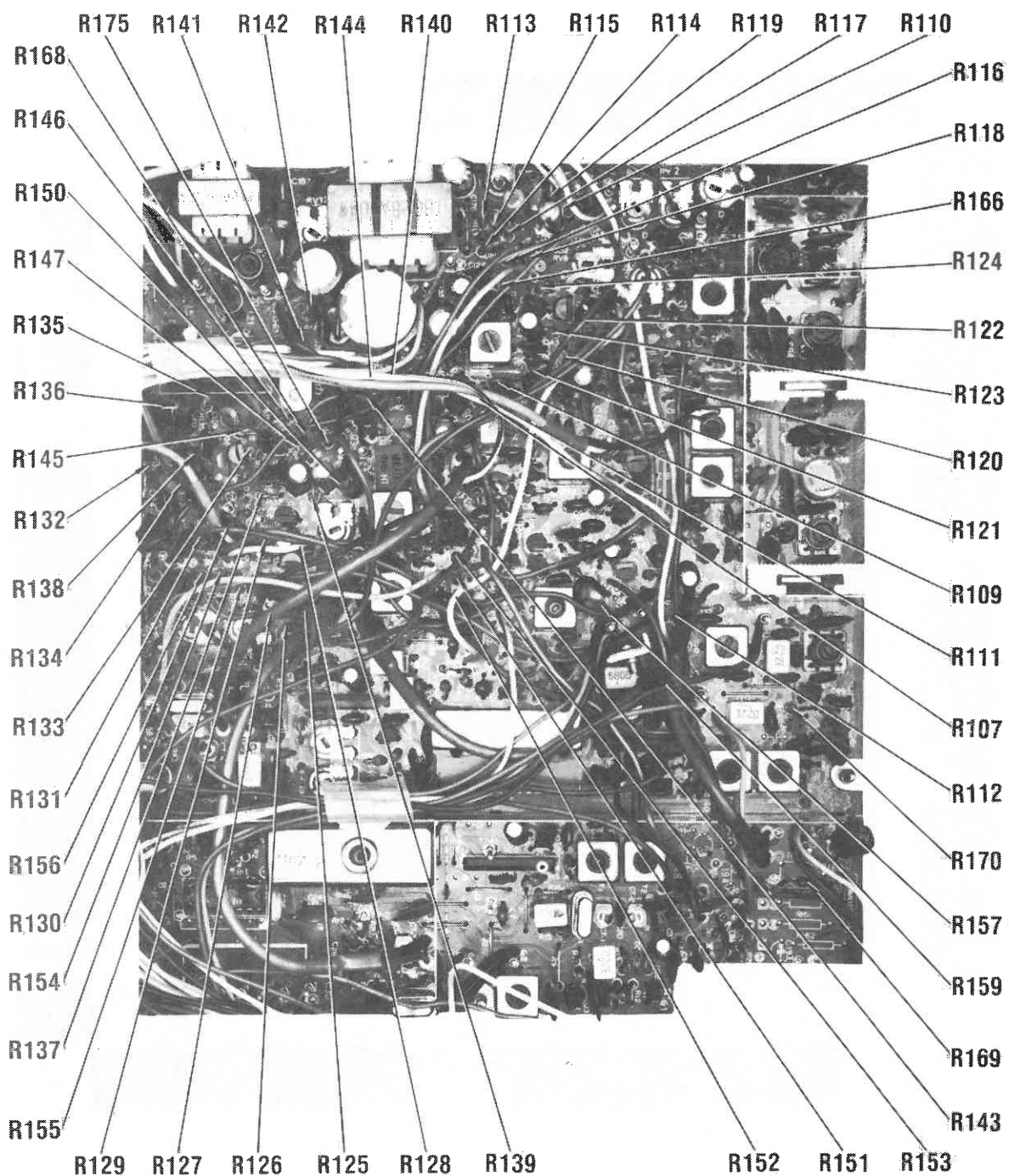
MAIN BOARD



MAIN BOARD

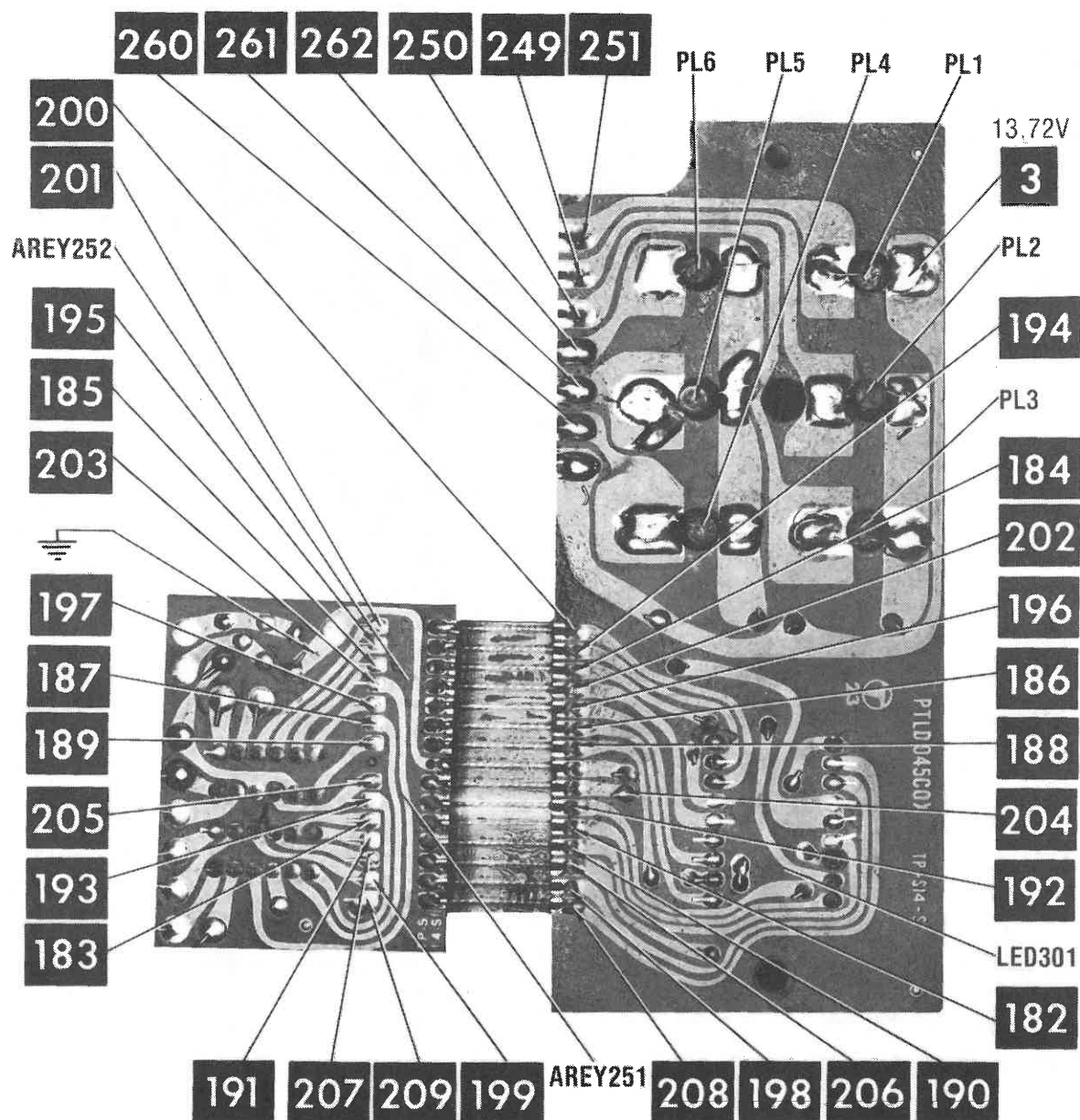


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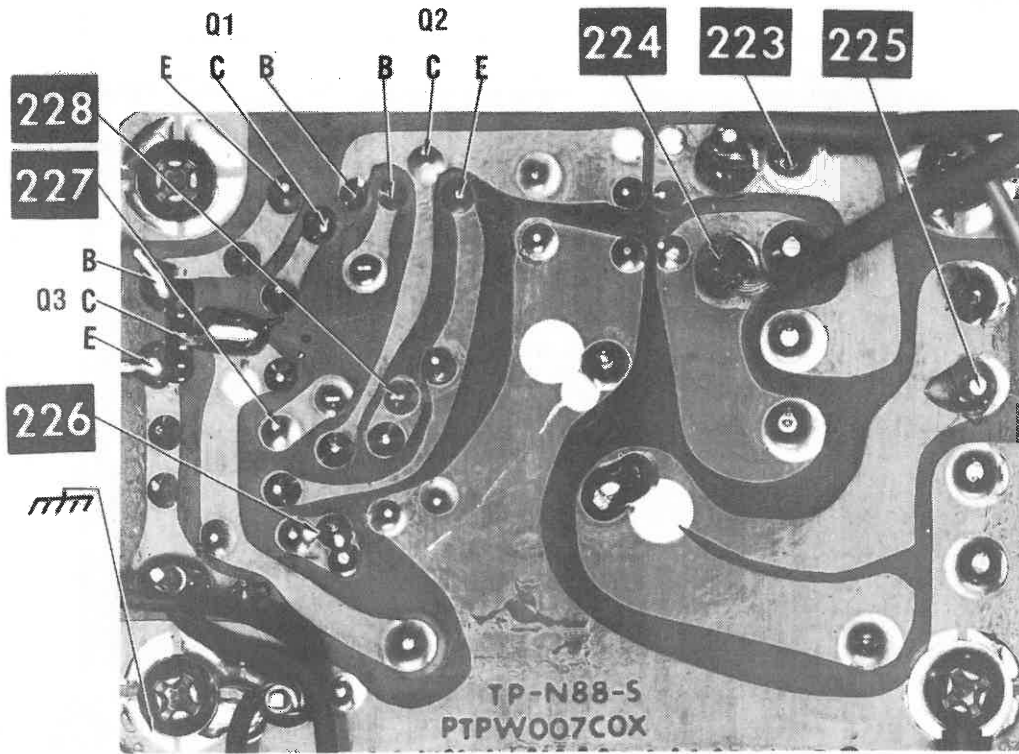


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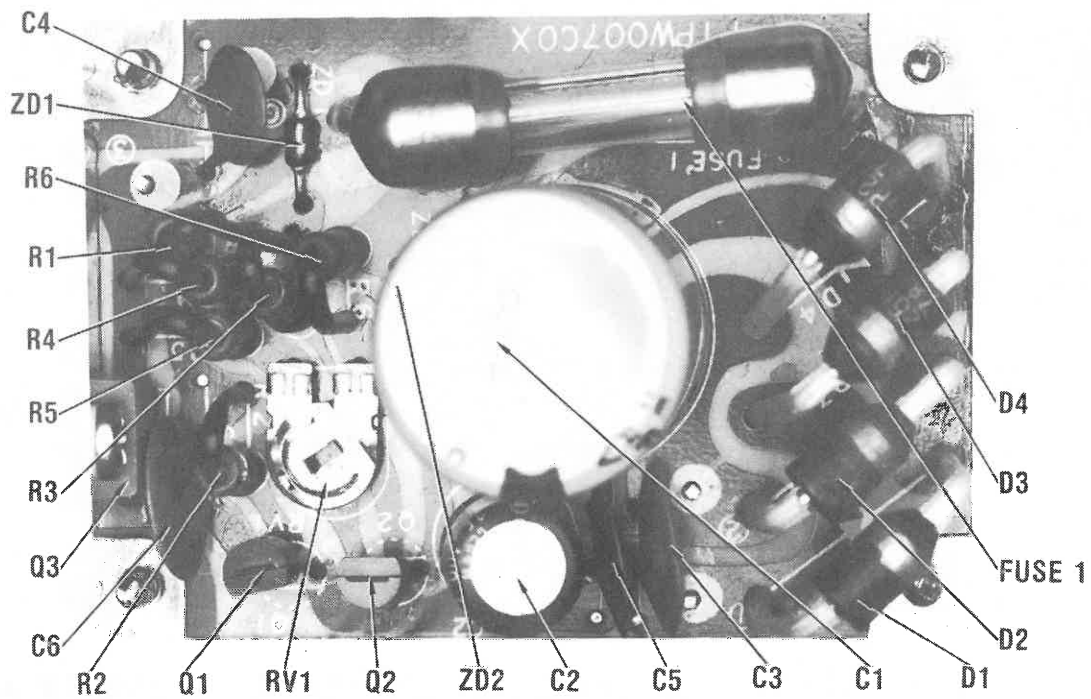
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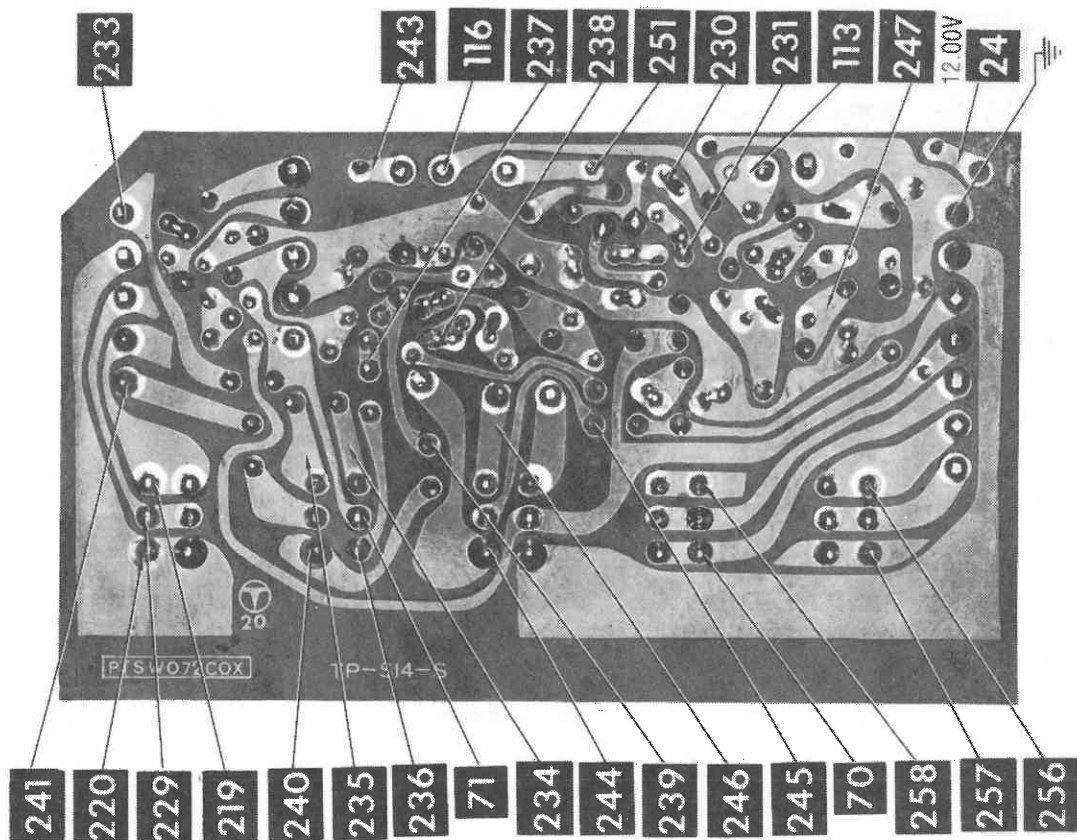
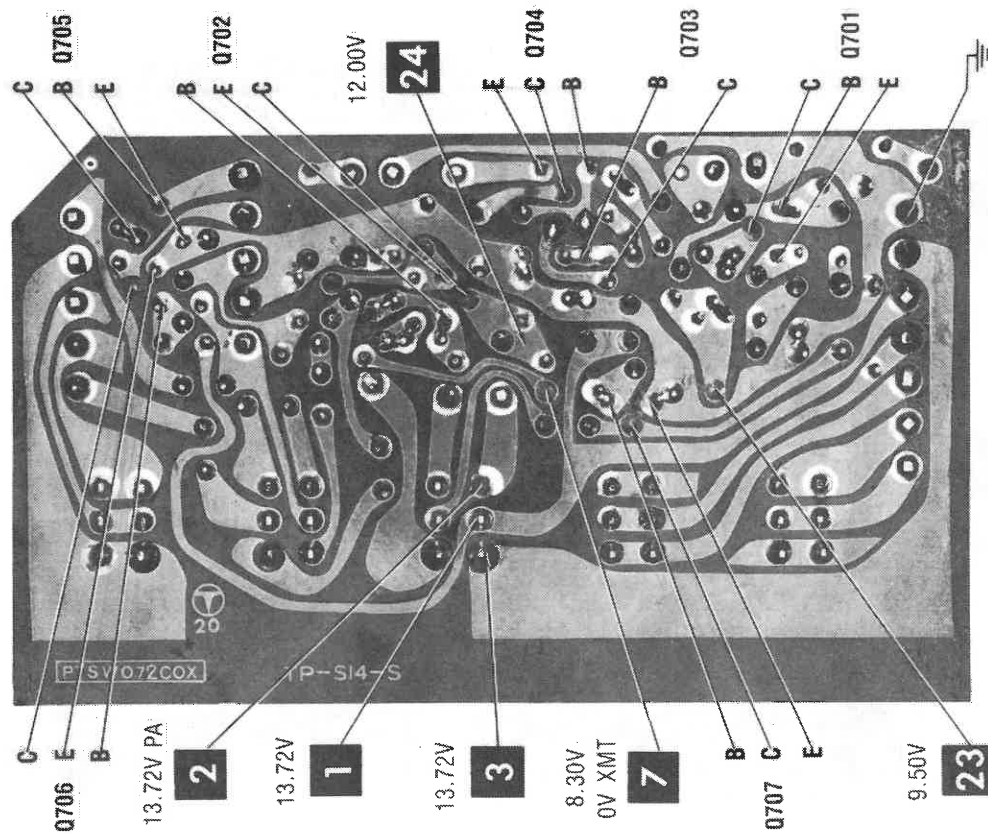
CHANNEL SELECTOR BOARD



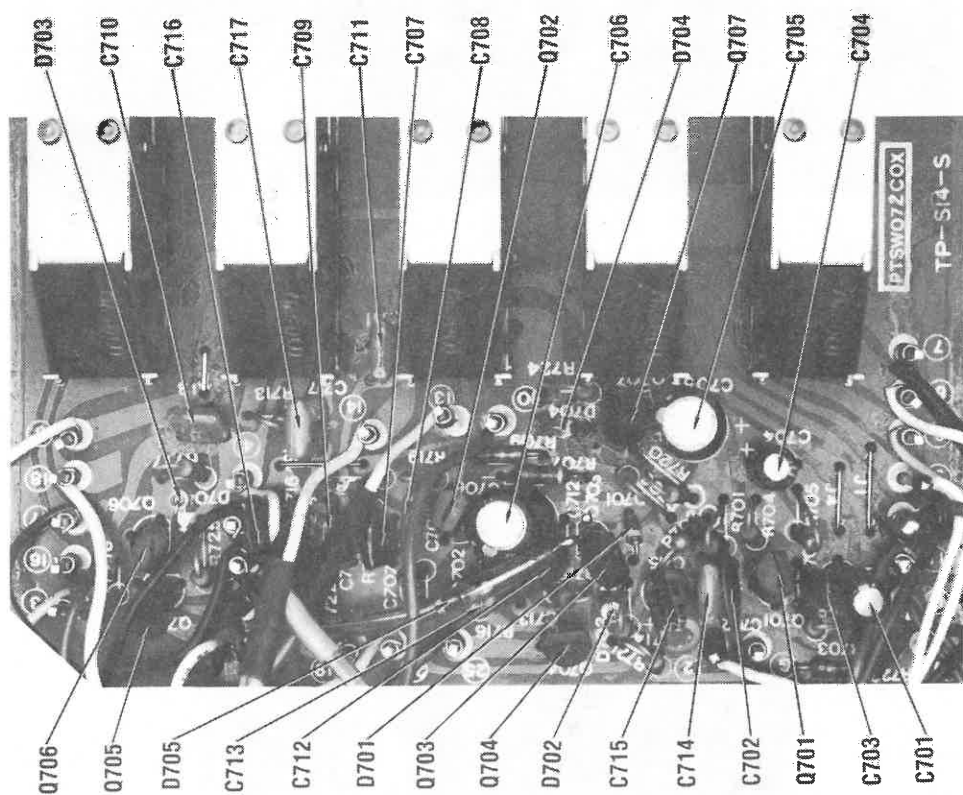
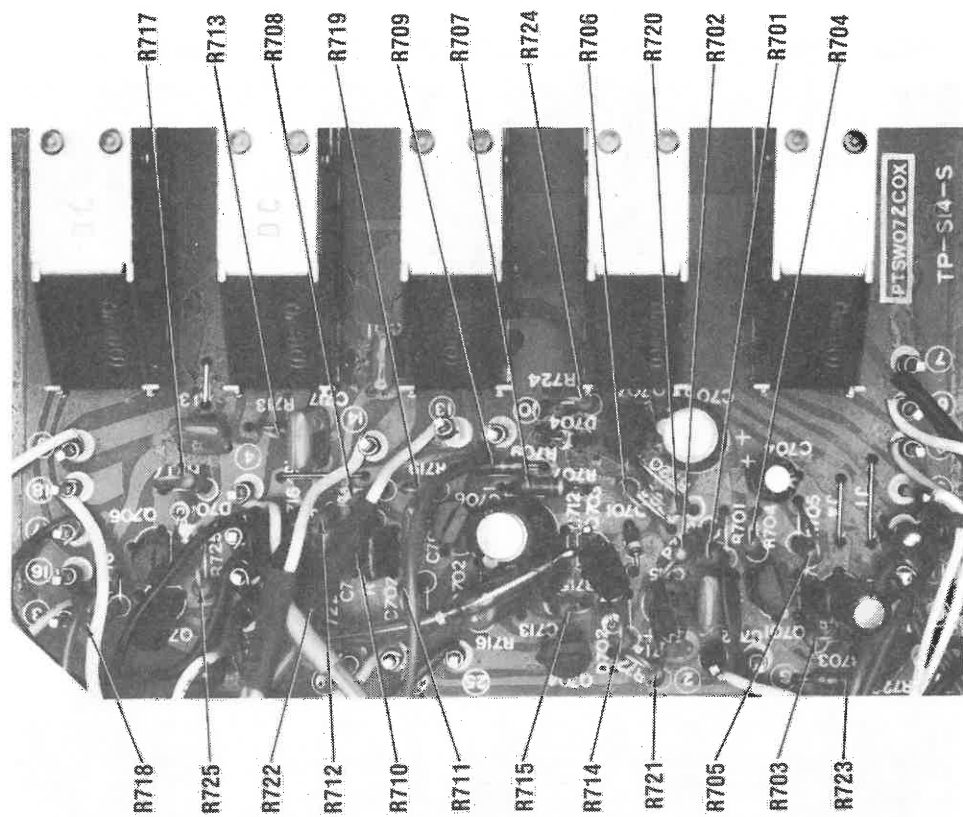
COLT MODEL 1200



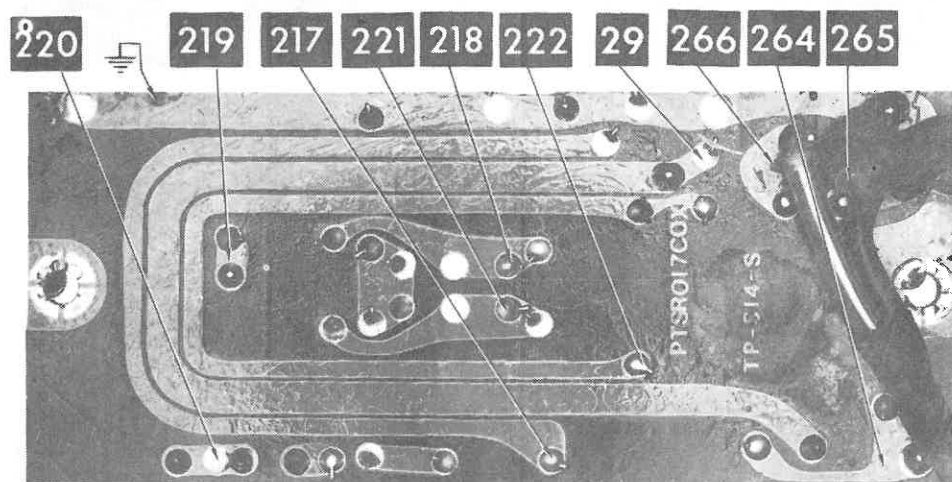
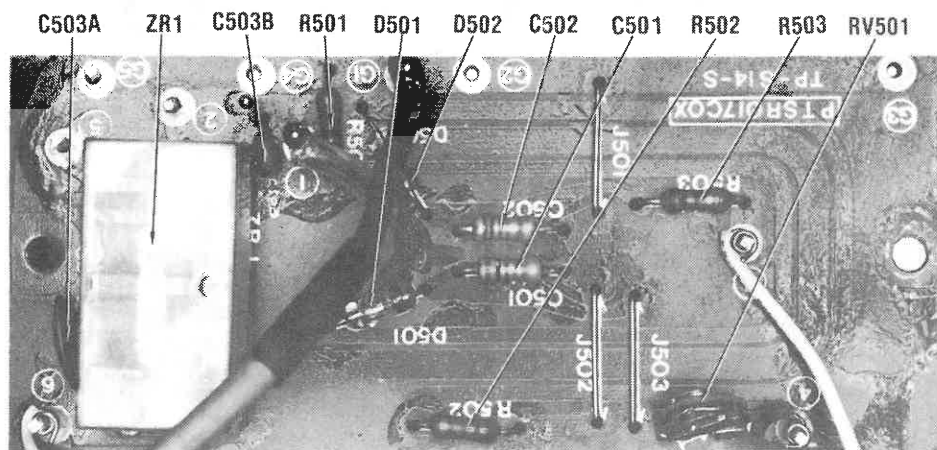
POWER SUPPLY BOARD



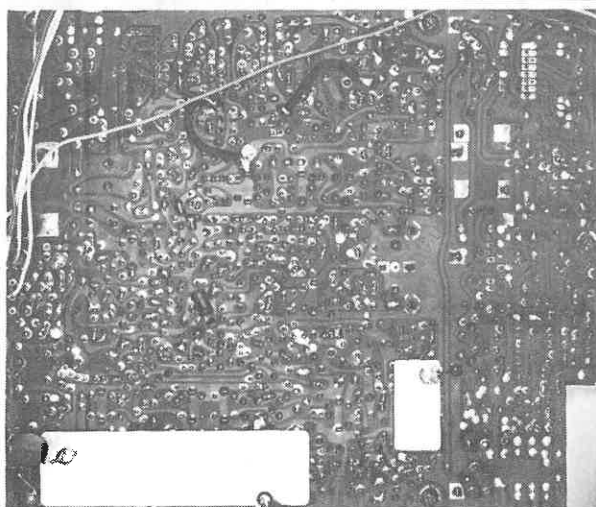
TONE/SWITCH BOARD



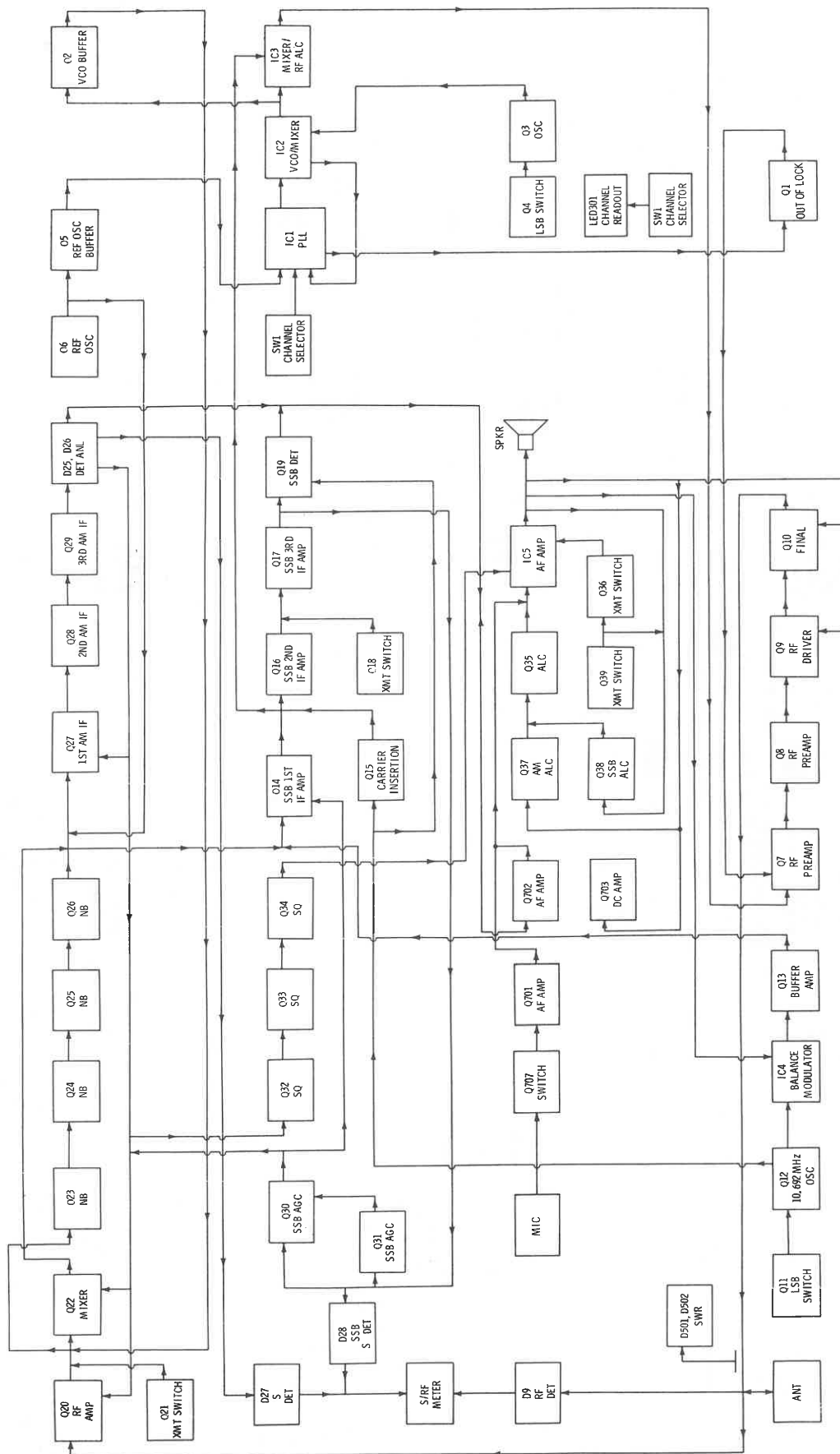
TONE/SWITCH BOARD



SWR BOARD

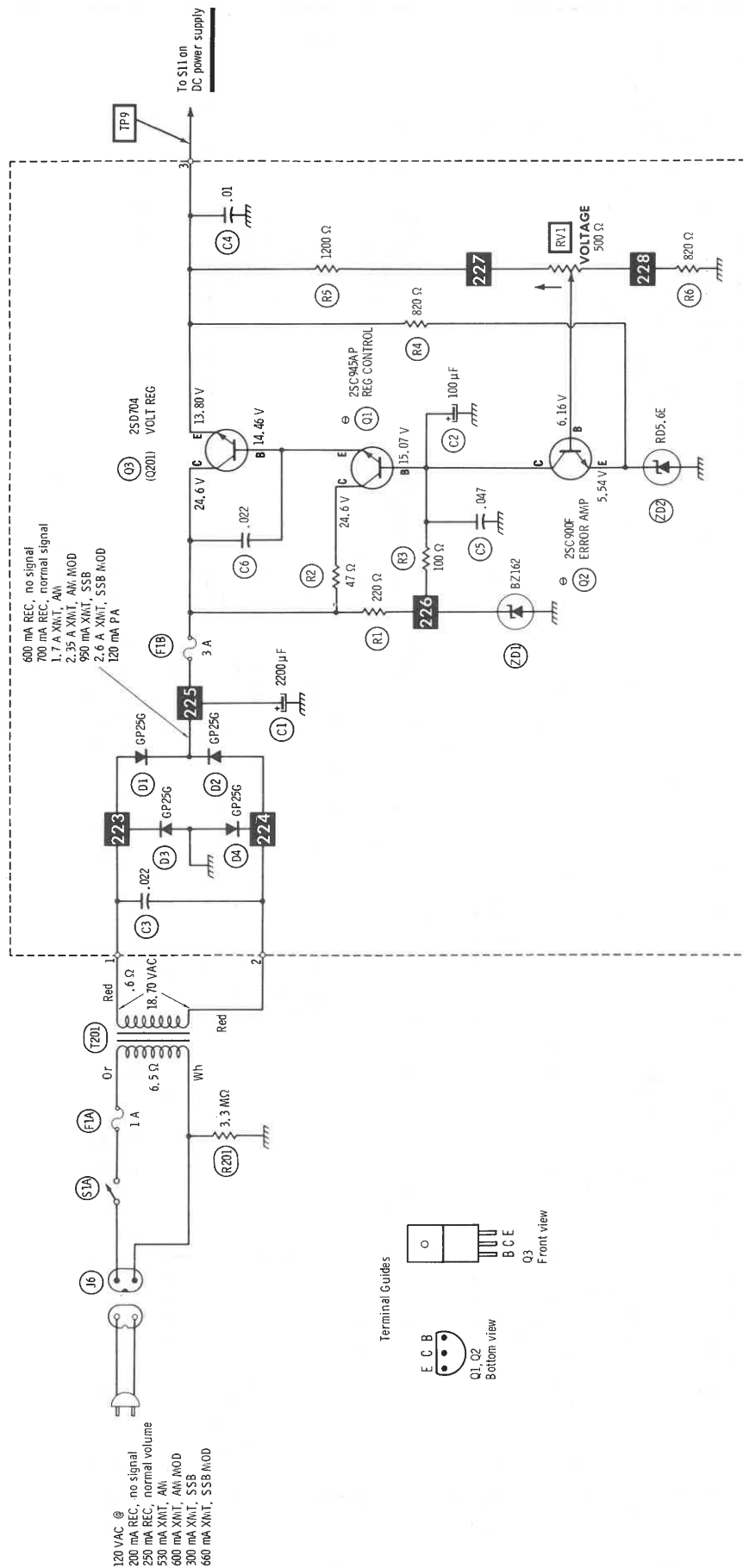


SHIELD LOCATION



BLOCK DIAGRAM

AC POWER SUPPLY SCHEMATIC



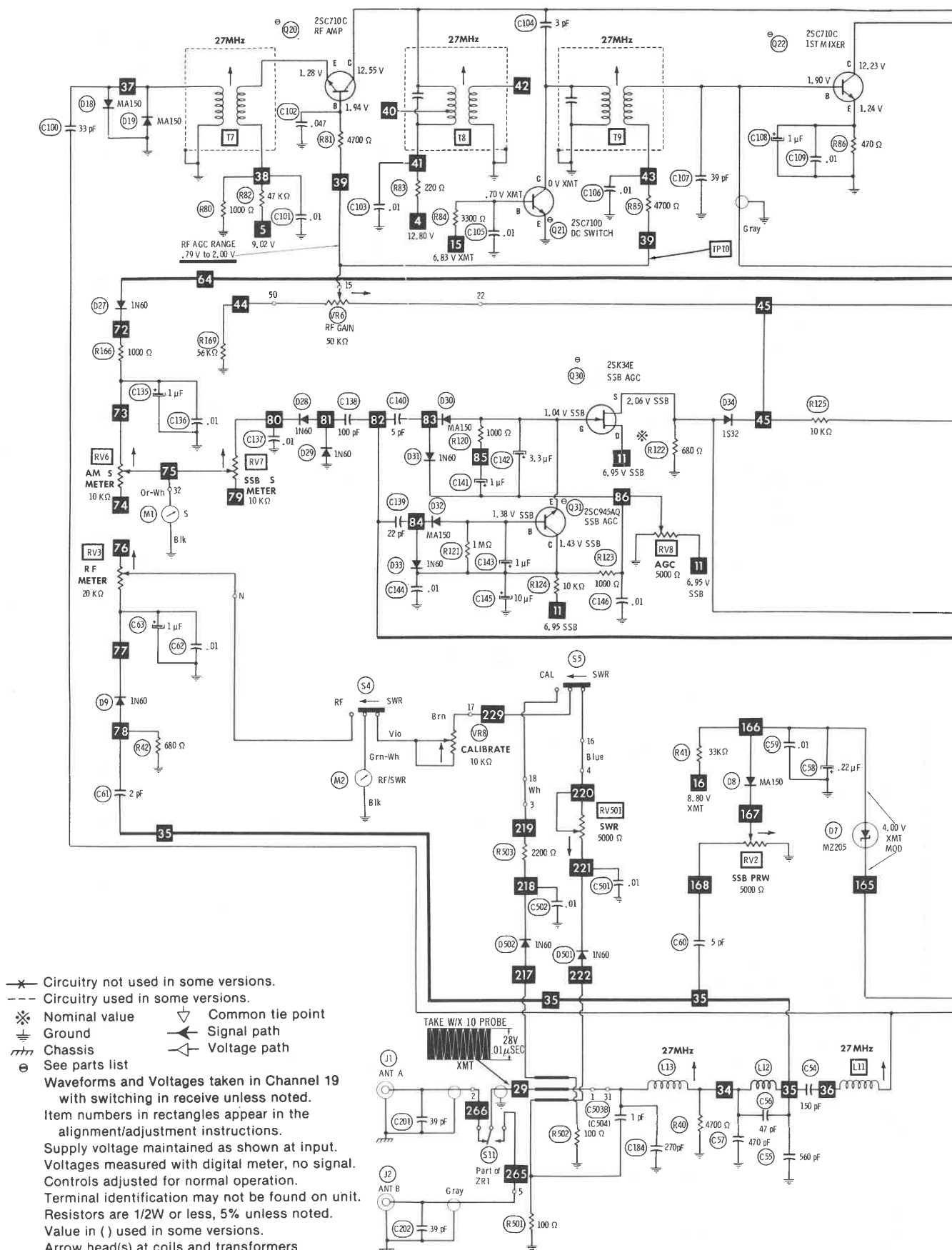
--- Circuitry not used in some versions.
--- Circuitry used in some versions.
* Nominal value
Ground
Chassis
See parts list

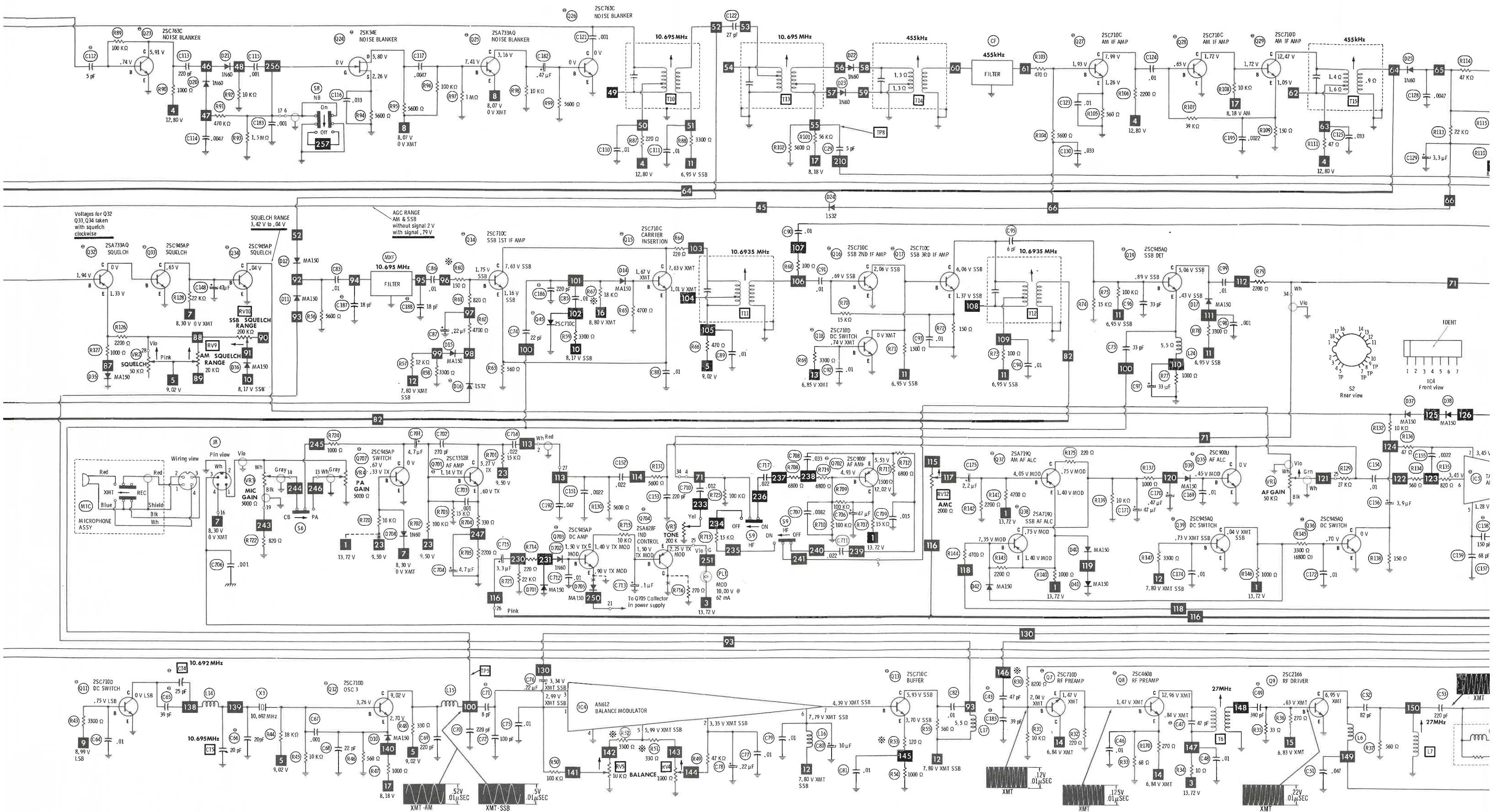
Waveforms and Voltages taken in Channel 19 with switching in receive unless noted. Item numbers in rectangles appear in the alignment/adjustment instructions. Supply voltage maintained as shown at input. Voltages measured with digital meter, no signal. Controls adjusted for normal operation. Terminal identification may not be found on unit. Resistors are 1/2W or less, 5% unless noted. Value in () used in some versions. Arrow head(s) at coils and transformers indicates accessibility of tuning slug(s).

A PHOTOFACT STANDARD NOTATION SCHEMATIC WITH

CIRCUITRACE®

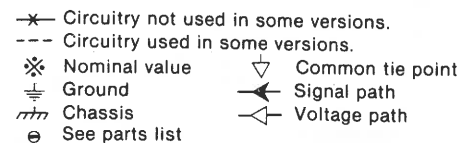
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MAIN CB SCHEMATIC

MAIN CB SCHEMATIC



A PHOTOFACIT STANDARD NOTATION SCHEMATIC

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D1	MA150	QDSMA
D2	MZ205	QDZMZ
D3	ITT310	QDCTT
D4	MA150	QDSMA
D5	MA150	QDSMA
D6	MA150	QDSMA
D7	MZ205	QDZMZ
D8	MA150	QDSMA
D9	1N60	QDGIN
D10	MA150	QDSMA
D11	MA150	QDSMA
D12	MA150	QDSMA
D13	MA150	QDSMA
D14	MA150	QDSMA
D15	MA150	QDSMA
D16	1532	QDGIS
D17	MA150	QDSMA
D18	MA150	QDSMA
D19	MA150	QDSMA
D20	1N60	QDGIN
D21	1N60	QDGIN
D22	1N60	QDGIN
D23	1N60	QDGIN
D24	1532	QDGIS
D25	1N60	QDGIN
D26	MA150	QDSMA
D27	1N60	QDGIN
D28	1N60	QDGIN
D29	1N60	QDGIN
D30	MA150	QDSMA
D31	1N60	QDGIN
D32	MA150	QDSMA
D33	1N60	QDGIN
D34	1532	QDGIS
D35	MA150	QDSMA
D36	MA150	QDSMA
D37	MA150	QDSMA
D38	MA150	QDSMA
D39	MA150	QDSMA
D40	MA150	QDSMA
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D43	GP256	QDSGP
D44	MA150	QDSMA
D45	MA150	QDSMA
D46	MA150	QDSMA
D47	MA150	QDSMA
D48	MA150	QDSMA
D49	MA150	QDSMA
D50	MZ310	QDZMZ
D51	151885	QDSS1
D52	MA150	QDSMA
D53	MA150	QDSMA
D54	MA150	QDSMA
D55	MA150	QDSMA
D56	1N60	QDGIN
D57	1N60	QDGIN
D58	MA150	QDSMA
D59	1N60	QDGIN
D60	1N60	QDGIN
D61	MA150	QDSMA
D62	1N60	QDGIN
D63	1N60	QDGIN
D64	1N60	QDGIN
D65	MA150	QDSMA
D66	1N60	QDGIN
D67	MA150	QDSMA
D68	1N60	QDGIN
D69	MA150	QDSMA
D70	1N60	QDGIN
D71	MA150	QDSMA
D72	1N60	QDGIN
D73	1N60	QDGIN
D74	1N60	QDGIN
D75	MA150	QDSMA
D76	1N60	QDGIN
D77	MA150	QDSMA
D78	1N60	QDGIN
D79	MA150	QDSMA
D80	1N60	QDGIN
D81	MA150	QDSMA
D82	1N60	QDGIN
D83	MA150	QDSMA
D84	1N60	QDGIN
D85	MA150	QDSMA
D86	1N60	QDGIN
D87	MA150	QDSMA
D88	1N60	QDGIN
D89	MA150	QDSMA
D90	1N60	QDGIN
D91	MA150	QDSMA
D92	1N60	QDGIN
D93	MA150	QDSMA
D94	1N60	QDGIN
D95	MA150	QDSMA
D96	1N60	QDGIN
D97	MA150	QDSMA
D98	1N60	QDGIN
D99	MA150	QDSMA
D100	1N60	QDGIN
D101	MA150	QDSMA
D102	1N60	QDGIN
D103	MA150	QDSMA
D104	1N60	QDGIN
D105	MA150	QDSMA
D106	1N60	QDGIN
D107	MA150	QDSMA
D108	1N60	QDGIN
D109	MA150	QDSMA
D110	1N60	QDGIN
D111	MA150	QDSMA
D112	1N60	QDGIN
D113	MA150	QDSMA
D114	1N60	QDGIN
D115	MA150	QDSMA
D116	1N60	QDGIN
D117	MA150	QDSMA
D118	1N60	QDGIN
D119	MA150	QDSMA
D120	1N60	QDGIN
D121	MA150	QDSMA
D122	1N60	QDGIN
D123	MA150	QDSMA
D124	1N60	QDGIN
D125	MA150	QDSMA
D126	1N60	QDGIN
D127	MA150	QDSMA
D128	1N60	QDGIN
D129	MA150	QDSMA
D130	1N60	QDGIN
D131	MA150	QDSMA
D132	1N60	QDGIN
D133	MA150	QDSMA
D134	1N60	QDGIN
D135	MA150	QDSMA
D136	1N60	QDGIN
D137	MA150	QDSMA
D138	1N60	QDGIN
D139	MA150	QDSMA
D140	1N60	

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.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.	
Q9	25C2166	QTC2166XAE	GE-215	PTC186	REN 235	SK3197	RT-146	ECG235	TM235	WEP736*	121-29039	
Q10	25C1969	QTC1969XBE	GE-216	PTC186	REN 236	SK3197	RT-158	ECG236	TM236	WEP840	121-29040	
Q11	25C710	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q12	25C710C		GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q13	25C710	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q14	25C710C	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q15	25C710	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q16	25C710C	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q17	25C710	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q18	25C710C	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q19	25C710	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q19	25C945AQ	QTC0945ABA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q20	25C945A		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q20	25C710C	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q21	25C710	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q21	25C710C	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q22	25C710	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q22	25C710C	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q23	25C763C	QTC0763XAE	GE-61*	PTC115	REN 229*	SK3122	RT-309	ECG229*	TM229*	WEP56	121-29021	
Q23	25C763D	QTC0763XAE	GE-61*	PTC115	REN 229*	SK3122	RT-309	ECG229*	TM229*	WEP56	121-29021	
Q24	2SK34E	QTK0034XAE	GE-FET-1	PTC151*	REN 132*	SK3448	RT-176	ECG132*	TM132*	WEP920*	121-756*	
Q25	2SK34		GE-FET-1	PTC151*	REN 132*	SK3448	RT-176	ECG132*	TM132*	WEP920*	121-756*	
Q25	2SA733AQ	QTA0733XAA	GE-48	PTC127	REN 294	SK3114	RT-303	ECG294	TM294/**	WEP911	121-952	
Q26	2SA733Q		GE-48	PTC127	REN 294	SK3114	RT-303	ECG294	TM294/**	WEP911	121-952	
Q26	2SA733	QTC0763XAE	GE-48	PTC127	REN 294	SK3114	RT-303	ECG294	TM294/**	WEP911	121-952	
Q26	25C763C	QTC0763XAE	GE-61*	PTC115	REN 229*	SK3122	RT-309	ECG229*	TM229*	WEP56	121-29021	
Q27	25C763D	QTC0763XAE	GE-61*	PTC115	REN 229*	SK3122	RT-309	ECG229*	TM229*	WEP56	121-29021	
Q27	25C710C	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q28	25C710	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q28	25C710C	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q29	25C710	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q29	25C710C	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q30	25C710	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q30	2SK34E	QTK0034XAE	GE-FET-1	PTC151*	REN 132*	SK3448	RT-176	ECG132*	TM132*	WEP920*	121-756*	
Q31	2SK34		GE-FET-1	PTC151*	REN 132*	SK3448	RT-176	ECG132*	TM132*	WEP920*	121-756*	
Q31	25C945AQ	QTC0945ABA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q32	25C945A		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q32	25C945	QTC0945ABA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q32	2SA733AQ	QTA0733XAA	GE-48	PTC127	REN 294	SK3114	RT-303	ECG294	TM294/**	WEP911	121-952	
Q33	2SA733Q		GE-48	PTC127	REN 294	SK3114	RT-303	ECG294	TM294/**	WEP911	121-952	
Q33	2SA733	QTC0945ABA	GE-48	PTC127	REN 294	SK3114	RT-303	ECG294	TM294/**	WEP911	121-952	
Q33	25C945AP	QTC0945ABA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q34	25C945A		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q34	25C945	QTC0945ABA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q34	25C945	QTC0945ABA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q35	25C945AP	QTC0945ABA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q36	25C945A		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q36	25C945	QTC0945ABA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q37	25C945	QTC0945ABA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q37	25A719Q	QTA0719XAN	GE-269	PTC103*	REN 290	SK3114	RT-305	ECG290	TM290/**	WEP911	121-1019	
Q38	25A719		GE-269	PTC103*	REN 290	SK3114	RT-305	ECG290	TM290/**	WEP911	121-1019	
Q38	25A719Q	QTA0719XAN	GE-269	PTC103*	REN 290	SK3114	RT-305	ECG290	TM290/**	WEP911	121-1019	
Q39	25A719		GE-269	PTC103*	REN 290	SK3114	RT-305	ECG290	TM290/**	WEP911	121-1019	
Q39	25C945AP	QTC0945ABA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q40	25C945A		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q40	25C945	QTC0945ABA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q40	25A683R	QTA0683XBN	GE-48	PTC177	REN 294	SK3513	RT-115*	ECG294	TM294	WEP916	121-952	
Q41	25A683		GE-48	PTC177	REN 294	SK3513	RT-115*	ECG294	TM294	WEP916	121-952	
Q41	25C1383R	QTC1318XDN	GE-47	PTC143*	REN 293	SK3849	RT-302	ECG293	TM293	WEP914	121-29000	
Q42	25C1383		GE-47	PTC143*	REN 293	SK3849	RT-302	ECG293	TM293	WEP914	121-29000	
Q42	25A683R	QTA0683XBN	GE-48	PTC177	REN 294	SK3513	RT-115*	ECG294	TM294	WEP916	121-952	
Q43	25A683		GE-48	PTC177	REN 294	SK3513	RT-115*	ECG294	TM294	WEP916	121-952	
Q43	25C1383R	QTC1318XDN	GE-47	PTC143*	REN 293	SK3849	RT-302	ECG293	TM293	WEP914	121-29000	
Q44	25C1383		GE-47	PTC143*	REN 293	SK3849	RT-302	ECG293	TM293	WEP914	121-29000	
Q44	25D325	ATD0325XCC	GE-28	PTC110	REN 186	SK3197	RT-197	ECG186	TM186/**	WEP745	121-29008	
Q45	25C710C	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q45	25C710	QTC0710XAE	GE-211*	PTC132*	REN 123A*	SK3854*	RT-308*	ECG123A*	TM123A*/**	WEP710	121-29000A	
Q701	25C1312R	QTC1312XAE	GE-62	PTC139*	REN 199	SK3122	RT-172*	ECG199	TM199/**	WEP66	121-972	
Q702	25C1312		GE-62	PTC139*	REN 199	SK3122	RT-172*	ECG199	TM199/**	WEP66	121-972	
Q702	25C900F	QTC0900XBA	GE-62	PTC139*	REN 199	SK3124	RT-302	ECG199	TM199/**	WEP66	121-972	
Q703	25C900		GE-62	PTC139*	REN 199	SK3124	RT-302	ECG199	TM199/**	WEP66	121-972	
Q703	25C945AP	QTC0945AAA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q704	25C945A		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q704	25C945	QTC0945AAA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q704	25A628F	QTC0945AAA	GE-82*	PTC103*	REN 159*	SK3114	RT-303	ECG159*	TM159/**	WEP62	121-29003	
Q705	25A628		GE-82*	PTC103*	REN 159*	SK3114	RT-303	ECG159*	TM159/**	WEP62	121-29003	
Q705	25C945AP	QTC0945AAA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q706	25C945A		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q706	25C945	QTC0945AAA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q706	25C945	QTC0945AAA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q706	25C945AP	QTC0945AAA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q707	25C945A		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q707	25C945	QTC0945AAA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	
Q707	25C945	QTC0945AAA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972	

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

			REPLACEMENT DATA								
ITEM No.	TYPE No.	MFR. PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
	POWER SUPPLY BOARD										
D1	GP25	QDSGP25GXG	GE-512	PTC204	REN 156	SK3051	RT-201	ECG156	TM156	WEP4008	212-Z9000
D2	GP25	QDSGP25GXG	GE-512	PTC204	REN 156	SK3051	RT-201	ECG156	TM156	WEP4008	212-Z9000
D3	GP25	QDSGP25GXG	GE-512	PTC204	REN 156	SK3051	RT-201	ECG156	TM156	WEP4008	212-Z9000
D4	GP25	QDSGP25GXG	GE-512	PTC204	REN 156	SK3051	RT-201	ECG156	TM156	WEP4008	212-Z9000
Q1	2SC945AP		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	2SC945A	QTC0945AAA	GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
	2SC945		GE-212	PTC121*	REN 199	SK3124	RT-107A	ECG199	TM199/**	WEP1945	121-972
Q2	2SC900E		GE-62	PTC139*	REN 199	SK3124	RT-302	ECG199	TM199/**	WEP66	121-972
	2SC900	QTC0900XBA	GE-62	PTC139*	REN 199	SK3124	RT-302	ECG199	TM199/**	WEP66	121-972
Q3	2SD704	QTD0704XAE									
ZD1	BZ162	QDZBZ162XJ	GEZD-16	ZB16B	REN 5075	SK3751	RT-246	ECG5075A	TM5075/**	WEP1160	103-Z9013
ZD2	RD5.6E	QDZRD56EAA	GEZD-5.6	ZB5.6B	REN 136	SK3057	RT-236	ECG136A	TM136/**	WEP1104	103-Z9007

* Lead configuration may vary from original.

/** Also available as exact type replacement.

ELECTROLYTIC CAPACITORS

		REPLACEMENT DATA				
ITEM No.	RATING	MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
CHASSIS						
C211	4.7 NP 25V	CEAE4R7NLX	WNP5-50	TCN505A	QEN1-113	TVAN-1303.1
MAIN BOARD						
C3	.1 35V	CSSF0R1MDC		TDC104M050EL	QDT1-2	SD50-R109
C4	.22 35V	CSSF2R2MDC		TDC224M050EL	QDT1-10	SD50-R229
C5	10 16V	CSSD100MDC		TDC106M025FL	QDT1-64	SD25-109
C8	1 50V	CEEG010ALX	PC1-50	VTT1A50	QV1-11	EV-1615
C25	47 10V 6.3	CEEB470ALX	PC50-16	VTT47D16	QV1-73	EV-1226
C33	1 50V	CEEG010ALX	PC1-50	VTT1A50	QV1-11	EV-1615
C58	.22 35V	CSSF2R2MDC		TDC224M050EL	QDT1-10	SD50-R229
C63	1 50V	CEEG010ALX	PC1-50	VTT1A50	QV1-11	EV-1615
C76	.22 35V	CSSF2R2MDC		TDC224M050EL	QDT1-10	SD50-R229
C78	.22 35V	CSSF2R2MDC		TDC224M050EL	QDT1-10	SD50-R229
C80	10 16V	CEED100ALX	PC10-25	VTT10B25	QV1-41	EV-1222
C87	.22 35V	CSSF2R2MDC		TDC224M050EL	QDT1-10	SD50-R229
C97	33 10V 6.3	CEEB330ALX	PC30-25	VTT33B10		EV-1225
C108	1 50V	CEEG010ALX	PC1-50	VTT1A50	QV1-11	EV-1615
C119	10 16V	CEED100ALX	PC10-25	VTT10B25	QV1-41	EV-1222
C127	22 16V	CSSD220MDC		TDC226M035GL	QDT1-83	SD35-229
C129	3.3 25V	CEEE3R3ALX	PC5-50	VTT3R3A50	QV1-25	EV-1618.1
C131	4.7 25V	CEEE4R7ALX	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C135	1 50V	CEEG010ALX	PC1-50	VTT1A50	QV1-11	EV-1615
C141	1 25V	CSSD10MDC		TDC105M035EL		SD35-19
C142	3.3 25V	CEEE3R3ALX	PC5-50	VTT3R3A50	QV1-25	EV-1618.1
C143	1 25V	CSSD10MDC		TDC105M035EL		SD35-19
C145	10 16V	CEED100ALX	PC10-25	VTT10B25	QV1-41	EV-1222
C148	47 10V	CEEC470ALX	PC50-16	VTT47D16	QV1-73	EV-1226
C150	4.7 25V	CEEE4R7ALX	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C156	3.9 25V 10V	CSSC3R9MDC				
C160	33 10V 6.3	CEEB330ALX	PC30-25	VTT33B10		EV-1225
C162	47 16V	CEED470ALX	PC50-16	VTT47D16	QV1-73	EV-1226
C164	1 50V	CEEG010ALX	PC1-50	VTT1A50	QV1-11	EV-1615
C166	2200 16V	CEED222ALX	WBR2000-16*	TC1520C*	QE1-643*	TVA-1175.3*
C167	330 16V	CEED331ALX	WBR300-35*	VTT330H16	QV1-133	EV-1245
C168	220 16V	CEED221ALX	PC250-25	VTT220H16	QV1-117	EV-1240
C170	.47 50V	CEEG47ALX	PC1-50	VTT47A63	QV1-3	EV-1610
C171	47 10V 6.3	CEEB470ALX	PC50-16	VTT47D16	QV1-73	EV-1226
C173	1 50V	CEEG010ALX	PC1-50	VTT1A50	QV1-11	EV-1615
C175	2.2 25V	CEEE2R2ALX	PC2-100	VTT2R2A50	QV1-19	EV-1517
C176	47 16V	CEED470ALX	PC50-16	VTT47D16	QV1-73	EV-1226
C178	33 16V	CEED330ALX	PC30-25	VTT33D25	QV1-63	EV-1325
C179A	47 16V	CEED470ALX	PC50-16	VTT47D16	QV1-73	EV-1226
C182	.47 50V	CEEG47ALX	PC1-50	VTT47A63	QV1-3	EV-1610
C901	.22 35V	CSSF2R2MDC		TDC224M050EL	QDT1-10	SD50-R229
POWER SUPPLY BOARD						
C1	2200 35V	CET1F22201	WBR2000-50*	TC50200A*	QE1-648*	TVA-1318.3*
C2	100 25V	CEAE101ALX	PC100-25	VTT100G25	QV1-97	EV-1331
SWITCH BOARD						
C701	4.7 25V	CEEE4R7ALX	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C704	4.7 25V	CEEE4R7ALX	PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C705	47 16V	CEED470ALX	PC50-16	VTT47D16	QV1-73	EV-1226
C706	47 16V	CEED470ALX	PC50-16	VTT47D16	QV1-73	EV-1226
C713	.1 50V	CEEG0R1ZMN		TDC104M050EL	QDT1-2	SD50-R109
C715	3.3 25V	CEEE3R3ALX	PC5-50	VTT3R3A50	QV1-25	EV-1618.1

* Axial replacement for radial device.

When ordering replacement parts specify model number.

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
MAIN BOARD							
C1	.0047 50V 10%	(1)		WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C2	.022 50V 10%			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C6	33 N150 10%	CCCB330KPM			*		10TCP-Q33
C7	12 N150 50V	CCCB120KPM(1)			*		10TCP-Q12
C9	.001 50V 10%			DPMS6D1	EWFA1A210	QFT2-1	1FT-D10
C10	.0012 50V 10%	(1)		DPMS6D12	PVC6212		6PS-D12
C11	2 N150	CCCB020CPM			*		10TCP-Q33
C12	33 N150 10%	CCCB330KPM(1)					
C14	10 50V +.5%	CCCB100DCM(1)					
C16	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C17	33 N150 10%	CCCB330KPM			*		10TCP-Q33
C18	.001 50V 10%			DPMS6D1	EWFA1A210	QFT2-1	1FT-D10
C19	220 N150 10%	CCCB221KPM			*		10TCP-T22
C20	22 NPO	(1)	DTZ-22	NPO22	CN0422		10TCC-Q22
C21	15 NPO	(1)	DTZ-15	NPO15	CN0415	QFT2-91	10TCC-Q15
C22	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-1	1FT-S10
C23	.001 50V 10%			DPMS6D1	EWFA1A210		1FT-D10
C24	68 N150 10%	CCCB680KPM			*		10TCP-Q68
C26	.047 50V 10%			DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C27	.047		UK25-503		MAG2515		HY-735
C28	.001 50V 10%			DPMS6D1	EWFA1A210	QFT2-1	1FT-D10
C29	5 N150 +.5%	CCCB050DPM			*		10TCP-V50
C30	68 N150 10%	CCCB680KPM			*		10TCP-Q68
C31	27 NPO 10%	(1)			CN0427		10TCC-Q27
C32	560 10%		DD-561		GP356		10TS-T56
C34	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C35	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C36	150 N150 10%	CCCB151KPM(1)			*		10TCP-T15
C37	82 N150 10%	CCCB820KPM			*		10TCP-Q82
C38	56 N150 10%	CCD560KPM(1)			*		10TCP-Q68
C39	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C40	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C42	3 N150 +.25%	CCCB030CPM(1)			*		10TCP-Q47
C43	47 N150 10%	CCCB470KPM(1)			EWFA1A110	QFT2-91	1FT-S10
C45	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C46	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C47	47 N150 10%	CCCB470KPM(1)			*		10TCP-Q47
C48	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C49	390 10%	(1)	DD-391	GP390	GP339		10TS-T39
C50	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C51	.047 50V +10%			DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C52	82 N150 10%	CCCB820KPM			*		10TCP-Q82
C53	220 N150 10%	CCCB221KPM			*		10TCP-Q82
C54	150 N150 10%	CCCB151KPM			*		10TCP-T15
C55	560 10%		DD-561		GP356		10TS-T56
C56	47 N150 10%	CCCB470KPM			*		10TCP-Q47
C57	470 10%		DD-471	GP470	GP347		10TS-T47
C59	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C60	5 N150 +.5%	CCCB050DPM			*		10TCP-V50
C61	2 N150 +.25%	CCCB020CPM					
C62	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C64	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C65	39 NPO 10%	(1)			CN0439		10TCC-Q39
C66	20 NPO	(1)	DTZ-20	NPO20	CN0420		10TCC-Q20
	10 +.5%		DTZ-10	NPO10	CN0410		10TCC-Q10
C67	.001 50V 10%			DPMS6D1	EWFA1A210	QFT2-1	1FT-D10
C68	22 N150 10%	CCCB220KPM			*		10TCP-Q22
C69	220 N150 10%	CCCB221KPM			*		10TCP-T22
C70	220 N150 10%	CCCB221KPM			*		10TCP-T22
C71	8 N150 +.5%	CCCB080DPM(1)			*		10TCP-V82
C72	100 N150 10%	CCCB101KPM			*		10TCP-T10
C73	33 N150 10%	CCCB330KPM(1)			*		10TCP-Q33
C74	22 N150	CCCB220KPM			*		10TCP-Q22
C75	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C77	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C79	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C81	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C82	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C83	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C84	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C85	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C86	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C88	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C89	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C90	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C91	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C92	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C93	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C94	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C95	6 N150 +.5%	CCCB060DPM			*		10TCP-Q33
C96	33 N150 10%	CCCB330KPM			*		1FT-D10
C98	.001 50V 10%			DPMS6D1	EWFA1A210	QFT2-1	1FT-S10
C99	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	10TCP-Q33
C100	33 N150 10%	CCCB330KPM			*		10TCP-Q33
C101	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C102	.047 50V 10%			DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C103	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C104	3 N150 +.25%	CCCB030CPM					
C105	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C106	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C107	39 N150 10%	CCCB390KPM			*		10TCP-Q39
C109	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C110	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C111	.01 50V 10%			WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C112	5 N150 +.5%	CCCB050DPM(1)			*		10TCP-V50
C113	220 N150 10%	CCCB221KPM			*		10TCP-T22
C114	.0047 50V 10%			WMF1D47	M192P4729R8	QFT2-63	1FT-D47

COLT MODEL 1200

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA						
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.			
						Q-LINE	GENERAL LINE		
C115	.001 50V 10%	CCC8270KPM	DD-221	DPMS6D1	EWF1A210	QFT2-1	1FT-D10		
C116	.033 50V 10%			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33		
C117	.0047 50V 10%			WMF1D47	M192P4729R8	QFT2-63	1FT-D47		
C118	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10		
C121	.001 50V 10%			DPMS6D1	EWF1A210	QFT2-1	1FT-D10		
C122	27 N150				*		10TCP-Q27		
C123	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10		
C124	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10		
C125	.033 50V 10%			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33		
C126	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10		
C128	.0047 50V 10%	WMF1D47	M192P4729R8	QFT2-63	1FT-D47				
C130	.033 50V 10%	DPMS6S33	M192P3339R8	QFT2-149	1FT-S33				
C132	.0047 50V 10%	WMF1D47	M192P4729R8	QFT2-63	1FT-D47				
C133	220 10%	CCC8101KPM CCC8220KCM CCC8050DPM	DD-221	GP322			10TS-T22		
C136	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10		
C137	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10		
C138	100 N150 10%				*		10TCP-T10		
C139	22 N150				*		10TCP-Q22		
C140	5 N150				*		10TCP-V50		
C144	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10		
C146	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10		
C149	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10		
C151	.0022 50V 10%			DPMS6D22	M192P2229R8	QFT2-27	1FT-D22		
C152	.022 50V 10%	DPMS2S22	M192P2239R8	QFT2-127	1FT-S22				
C153	220 10%	(1)	DD-221	GP322			10TS-T22		
C154	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10		
C155	.0022 50V 10%			DPMS6D22	M192P2229R8	QFT2-27	1FT-D22		
C157	68			DD-680	GP468		10TS-Q68		
C158	150 10%			DD-151	GP315		10TS-T15		
C159	68			DD-680	GP468		10TS-Q68		
C161	.068 50V 10%			WMF1S68	EWF1A168	QF1-195	1PB-S68		
C163	220 10%			DD-221	GP322		10TS-T22		
C165	.047			UK25-503	MAG2515		HY-735		
C169	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10		
C172	.01 50V 10%	WMF1S1	EWF1A110	QFT2-91	1FT-S10				
C174	.01 50V 10%	WMF1S1	EWF1A110	QFT2-91	1FT-S10				
C179B	.047	CCC8390KCM(1) CCC8221KPM(1) CCC8180KPM(1) (1) CCC8150KCM	DD-271	UK25-503	MAG2515		HY-735		
C180	.047			UK25-503	MAG2515		HY-735		
C181	.047			UK25-503	MAG2515		HY-735		
C183	.001 50V 10%			DPMS6D1	EWF1A210	QFT2-1	1FT-D10		
C184	270 10%			GP270	GP327		10TS-T27		
C185	39 N150 10%				*		10TCP-Q39		
C186	220 N150 10%				*		10TCP-T22		
C187	18 N150				*		10TCP-Q18		
C188	18 N150				*		10TCP-Q18		
C188	15 N150								
C189	.047	(1)	DD-820 DD-151	UK25-503	MAG2515		HY-735		
C190	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10		
C191	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10		
C192	.047 50V 10%			DPMS2S47	EWF1A147	QFT2-171	1FT-S47		
C195	.0022 50V 10%			DPMS6D22	M192P2229R8	QFT2-27	1FT-D22		
C196	82				GP482		10TS-Q82		
C196	150 10%				GP315		10TS-T15		
C197	.0022				GP222		10TS-D22		
POWER SUPPLY BOARD									
C3	.022				UK25-223 UK50-103 UK25-503 UK25-223				HY-725
C4	.01		MAG5011						
C5	.047		MAG2515				HY-735		
C6	.022						HY-725		
SWITCH BOARD									
C702	270 10%		DD-271	GP270	GP327		10TS-T27		
C703	.001 50V 10%			DPMS6D1	EWF1A210	QFT2-1	1FT-D10		
C707	.0082 50V 10%			WMF1D82	EWF1A282	QFT2-85	1FT-D82		
C708	.033 50V 10%			DPMS6S33	M192P3339R8	QFT2-149	1FT-S33		
C709	.015 50V 10%			WMF1S15	M192P1539R8	QFT2-105	1FT-S15		
C710	.012 50V 10%			WMF1S15	M192P1539R8	QFT2-105	1FT-S15		
C711	.022 50V 10%			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22		
C712	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S10		
C714	.022 50V 10%			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22		
C716	.01 50V 10%			WMF1S1	EWF1A110	QFT2-91	1FT-S22		
C717	.022 50V 10%			DPMS2S22	M192P2239R8	QFT2-127	1FT-S22		
SWR BOARD									
C501	.01 50V	CKUB103NXY CKUB103NXY CCDB010CPM CTZ7200H01 CTZ7200H01 CTZ7250H01 CTZ7200H01(1)	UK50-103 UK50-103 UK50-103		MAG5011		10TCP-Q39		
C502	.01 50V				MAG5011		10TCP-Q39		
C503A	.01				MAG5011				
C503B	1 N150 ±.25%								
CT1	20								
CT2	20								
CT3	20								
CT4	25								
CT5	20								
CHASSIS									
C201	39 N150 50V 10%	CCDB390KPM CCDB390KPM	UK50-103 UK50-103 DD-102 DD-102 UK25-503 UK25-503 DD-102 DD-102 UK25-503 UK25-503		*		10TCP-Q39		
C202	39 N150 50V 10%				*		10TCP-Q39		
C203	.01 50V				MAG5011				
C204	.01 50V				MAG5011				
C205	.001 50V				GP210		10TS-D10		
C206	.001 50V				GP210		10TS-D10		
C207	.047 50V				MAG2515		HY-735		
C208	.047 50V				MAG2515		HY-735		
C209	.001 50V				GP210		10TS-D10		
C210	.001 50V				GP210		10TS-D10		
C212	.047 50V		MAG2515		HY-735				
C213	.047 50V		MAG2515		HY-735				

(1) Value may vary, replace with original value.

*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			
			MFG. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
RV1	Bias	100	RPJNB10101			
RV2	SSB Power	5000	RPGBN50201			U260R502B
RV3	RF Meter	20K	RPGBN20301			U260R253B
RV4	Balance	1000	RPGBN10201			U260R102B
RV5	Balance	10K	RPGBN10301	T-10K (3)	MTC14L1 (3)	
RV6	AM S Meter	20K	RPGBN20301			U260R253B
RV7	SSB S Meter	10K	RPGBN10301	T-10K (3)	MTC14L1 (3)	U260R103B
RV8	AGC	5000	RPGBN50201			U260R502B
RV9	AM Squelch Range	20K	RPGBN20301			U260R253B
RV10	SSB Squelch Range	200K	RPGBN20401			U260R254B
RV11	Mic Gain	500	RPGBN50101			U260R501B
RV12	AMC	2000	RPGBN20201			U260R252B
RV501	SWR	5000	RPPNB50201			X260R502B
VR1	AF Gain	50K	RVNA503A13	F2-50K(1), SSK104	UA54A(1),SL3250	BU1(1),CF63, SS1,DC1
VR2	Squelch	50K	RVNA503A13	F2-50K(1), SSK104	UA54A(1),SL3250	BU1(1),CF63, SS1,DC1
VR3	Mic Gain	5000	RVNA502A05	F2-5000(1), SSK104	UA53A(1),SL3250	BU1(1),CF60, SS1,DC1
VR4	PA Gain	5000	RVNA502A05	F2-5000(1), SSK104	UA53A(1),SL3250	BU1(1),CF60, SS1,DC1
VR5	Tone	200K	RVNA204A03	F2-250K(1), SSK104	UA254A(1),SL3250	BU1(1),CF23, SS1,DC1
VR6	RF Gain	50K	RVNA503B13	F2-50K(1), SSK104	UA54A(1),SL3250	BU1(1),CF63, SS1,DC1
VR7	Clarifier	50K	RVNA503A13	F2-50K(1), SSK104	UA54A(1),SL3250	BU1(1),CF63, SS1,DC1
VR8	Calibrate/RF/SWR Switch	10K	RVNC103B02	F1-10K(1), SSK104, KR2	UA14L(1),SL3250, US27	BU1(1),CF9, SS1,MF
POWER SUPPLY BOARD						
RV1	Voltage	500	PRGNB50101			U260R501B

(1) Enlarge mounting hole.

(3) For horizontal mounting, bend the two outside terminals to fit P.C. Board. Use jumper to connect center terminal to P.C. Board.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		MFG. PART No.	WORKMAN PART No.			MFG. PART No.	WORKMAN PART No.
AREY 251	Resistor Array	RAC182M07N*		AREY 252	Resistor Array	RAC182M07N*	

*Consists of seven 1800 ohm resistors.

COILS (RF-IF)

		REPLACEMENT DATA			
ITEM No.	FUNCTION	PART No.	OTHER IDENTIFICATION	MILLER PART No.	REMARKS
MAIN BOARD					
L1	Oscillator	LF2R2KD01N	.022E	70F226A1	
L2	RF Choke (68uH)	LF680KD01N	680		
L3	RF Choke (68uH)	LDADA3538G			
L6	RF Choke (1.95uH)	LDADA3038J			
L7	RF Driver (27MHz)	TR10C2003S			
L8	RF Choke	LDADB3524M			
L9	RF Choke (.75uH)	LDADB4024B			
L10	RF Choke (.75uH)	LDADB3524M			
L11	Loading Final (27MHz)	TR10C2005S			
L12	Pi Filter (.11uH)	LA1JG1004A			
L13	Antenna Matching (27MHz)	TR10C2004S			
L14	RF Choke (4.7uH)	LF4R7KD01N	.047V	70F226A1	
L15	Pi Filter	LF2R2KD01N	022E		
L16	RF Choke (.9uH)	LF0R9KD01N	010D		
L17	Buffer (68uH)	LF680KD01N	680D		
L18	RF Choke (1mH)	LF102KB01S	102		
L22	RF Choke (.75uH)	LDADB4024B			
L23	RF Choke (.75uH)	LDADB4024B			
L24	SSB Detector (68uH)	LF680KD01N	680D		
T1	VCO/Mixer (37MHz)	TR10MB003T			
T2	VCO/Mixer (37MHz)	TR10MB005S			
T3	Oscillator (20.105MHz)	TR10DB002S	10DB002S		
T4	Mixer/RF ALC (27MHz)	TR10CA006T	10CA006		
T5	Mixer/RF ALC (27MHz)	TR10CB003T			
T6	RF Preamp (27MHz)	TR10CP006S			
T7	Rec Antenna (27MHz)	TR10MP003T	ETR0333		
T8	RF Amp (27MHz)	TR10CA006T	10CA006		
T9	RF Amp (27MHz)	TR10CB001S	10CB001M		
T10	Noise Blanker (10.695MHz)	TR10MA013S	10MA013S		
T11	Carrier, Insertion (10.6935MHz)	TR10MA015S	10MA015S		
T12	SSB IF Amp (10.6935MHz)	TR10MA015S	10MA015S		
T13	Noise Blanker (10.695MHz)	TR10MA014S	10MA014S		
T14	IF (455kHz)	TR10LA021S			
T15	IF (455kHz)	TR10LA022S	10LA022S		
POWER SUPPLY BOARD					
L4	RF Choke	LF2R2KD01N	022E	70F226A1	
L5	RF Choke	LF2R2KD01N	022E	70F226A1	
L19	RF Choke (68uH)	LF680KD01N	680D		
L20	RF Choke (1.15uH)	LBBJE1008A			
L21	RF Choke	LBBJE1008A			

COLT MODEL 1200

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	2.6A	.23	3.3mH	LJ119H004W			

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T16	32	8	TBG28A004W			

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T201	120V AC @ .66A AC	18.70V AC @ 4.0A AC @ 2.6A DC	VX223RH002 TBG28A004W (1)		PCB-5	(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3-5/8" PM 8 Ohms	Z9A0920802	3A05Z8R	

FUSE DEVICES

		REPLACEMENT DATA						
ITEM No.	DESCRIPTION	PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1A	1A 250V Quick Acting	ZFBQ10202U	YHF1S3001U	AGC-1	HKP	312001	342013AL	FG1-2
F1B	3A 250V Quick Acting	ZFAQ30202U		GJV-3		318003		
F1C	3A 250V Quick Acting			AGC-3	HRK	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	ZGAAZ60114	18-032	18-034	18-010	18-032	1	2	4	3	NC	2	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
MAIN BOARD			
CF	Filter	FBR455A17M	455kHz
J1	Jack	YJC02S015Z	Antenna (PL-259)
J2	Jack	YJC02S015Z	Antenna (PL-259)
J3	Jack	YJT03S003Z	PA
J4	Jack	YJT03S003Z	External Speaker 1/8"
J7	Jack	YJS03S018Z	Phone
J8	Jack	YJZ04S004Z	Microphone
LED301	LED	QL#LN526RN	Channel Readout (LN526RK) Each segment 1.87V @ 6.5mA)
M1	Meter	ZMJ1050N03	Signal Strength
M2	Meter	ZMJ1050N06	SWR/RF
MXF	Filter	FF10R7S01S	10.695MHz
PL1	Lamp	ZPB064101U	Modulation (10.62V @ 62mA)
PL2	Lamp	ZPB064101U	Receive (13.72V @ 72mA)
PL3	Lamp	ZPB064101U	On the Air (13.72V @ 72mA)
PL4	Lamp	ZPB064101U	LSB (13.72V @ 72mA)
PL5	Lamp	ZPB064101U	AM (13.72V @ 72mA)
PL6	Lamp	ZPB064101U	USB (13.72V @ 72mA)
S1		SL020201CA	AC, On/Off, Power (Slide)
S2		SR0403107H	USB/AM/LSB
S3		SR0402102H	Antenna A/B
S4	Switch		RF/SWR (Part of VR8)
S5	Switch	SL020206ZB	CAL/SWR
S7	Switch	SL020206ZB	ANL On/Off
S8	Switch	SL020206ZB	NB On/Off
S9	Switch	SL020206ZB	HF On/Off
S11	Switch		AC/DC
SW1	Switch	SR2140603H	Channel Selector (40 Channel)
X1	Crystal	YAS1C1001X	10.0525MHz
X2	Crystal	XAS1B9001X	10.240MHz
X3	Crystal	XAZ1A6001X	10.692MHz
	Cord	ACAC029ULA	AC
	Cord	ACDC053ULA	DC
POWER SUPPLY BOARD			
J5	Jack	YJB02S009U	DC Power
J6	Jack	YJA02S0014	AC Power
PL7	Lamp	ZPA168102U	Signal XMT, (13.72V @ 70mA)
PL8	Lamp	ZPA168102U	RF/SWR Meter *13.72V @ 70mA)
PL9	LED	QLAR3139SR	Power (Red) (1.60V @ 12mA)
S6	Switch	SL020206ZB	PA/CB
ZR1	Relay	ZRAT34102U	Antenna

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

ITEM	PART No.	ITEM	PART No.
Escutcheon	AMCT120001	Knob, For Lever Switches	VN210SM001
Knob, For Channel Selector	MN386AA027	Knob, For Rotary Controls and Switches	MN276AA104