



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 8093

MANUFACTURER'S SPECIFICATIONS

GENERAL

Number of Channels	40
Operating Voltage	13.8 VDC $\pm$ ground
Frequency Range	26.965 to 27.405 MHz
Microphone	Dynamic, with plug-in connector
Speaker	8 ohms, 3 watts
Antenna Impedance	50 ohms
Dimensions (W x H x L)	Approx. 203 x 29 x 186 mm (8 x 1.125 x 7.3 in)
Weight	Approx. 2 kg (4.4 lbs.)

RECEIVER

Certification	Part 15, Sub-part C
Sensitivity (AM)	0.5 μ V for 10 dB $\frac{s+n}{n}$
(SSB)	0.2 μ V for 10 dB $\frac{s+n}{n}$
Adjacent Channel Rejection	55 dB minimum
Spurious Rejection (Major Image)	45 dB minimum
Squelch Sensitivity	0.5–1,000 μ V
Audio Output	3 W @ 10% distortion

TRANSMITTER

Compliance	FCC DATA 8093, Part 95
Power Output	4 W (AM) 12 W PEP (SSB)
Spurious and Harmonic Emission	–60 dB minimum
Carrier Suppression (SSB)	–40 dB minimum
Unwanted Sideband Suppression (SSB)	–50 dB minimum

Courtesy of the Manufacturer

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

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PAGE MODEL 8093

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:
T1 thru T5, T8, T9, T11.....9440
L2, L3.....9300, 9302, 9304
L4, L12.....8606, 9091, 9440
CT1 thru CT6.....5000, 8276, 9089

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of frequency counter thru 10pF to TP3 (Q8 Emitter).	Ch. 19, AM Clarifier Midrange	CT1	Adjust for 10.240MHz.
Input of frequency counter thru 10pF to TP3 (Q8 Emitter).	Ch. 19, USB Clarifier Midrange	CT3	Adjust for 10.2415MHz.
Input of frequency counter thru 10pF to TP3 (Q8 Emitter).	Ch. 19, LSB Clarifier Midrange	CT2	Adjust for 10.23815MHz.
Input of frequency counter thru 10pF to TP4 (Q9 Emitter).	Ch. 19, LSB	CT5	Adjust for 9.7875MHz.
Input of frequency counter thru 10pF to TP4 (Q9 Emitter).	Ch. 19, USB	CT4	Adjust for 9.7825MHz.
Input of DC meter to TP1 (junction of R126 and R129).	Ch. 1, AM	T11	Adjust for 2.00 volts. Check for approximately 3.52 volts on Channel 40. Key transmitter and check for 1.30 volts on Channel 1 and 2.12 volts on Channel 40.
Input of frequency counter thru 10pF to TP5 (T11 Secondary).	Ch. 1, AM		Check for 17.180MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter thru 10pF to TP6 (IC8 Pin 9).	Ch. 1, AM		Check for 26.965MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of oscilloscope to TP7 (T5 Secondary).	Ch. 19, AM	T5	Adjust for maximum RF (550mV p-p typical). (See Figure 1.)

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: Squelch MINIMUM, Clarifier Midrange, ANL Off, NB Off.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP8 (Q5 base). 455kHz, 1000Hz @ 30% modulation.	Ch. 19, AM	T4	Adjust for maximum output.
Output of signal generator to antenna input.	Ch. 19, AM	T1, T2, T3	Adjust for maximum output. Readjust T1 and T2 for maximum.

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 indicated; Squelch MINIMUM, Clarifier Midrange,
ANL Off, NB Off.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 500uV.	Ch. 19, AM Squelch Maximum	VR3	SQUELCH RANGE Adjust so squelch just breaks.
Output of signal generator to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19, AM	VR2	S METER Adjust for 9 on Signal 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	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope to TP9 (Q19 base).	Ch. 19, AM XMT	T8	Adjust for maximum RF output.
Input of RF wattmeter to antenna input.	Ch. 19, AM XMT	L4, L3, L2, T9	Adjust for maximum RF output.
Input of RF wattmeter to antenna input.	Ch. 19, AM XMT	L12	Adjust for 4.0 watts RF output maximum.

TRANSMITTER ADJUSTMENTS

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Insert a 0-500mA DC meter at TP11 (Junction of L5 and C77).	Ch. 19, USB XMT	VR14	FINAL BIAS Adjust for 80mA idle current.
Input of RF wattmeter to antenna input. Inject a 1000Hz, 10mV signal at mic input.	Ch. 19, USB XMT	VR11	SSB RF ALC Adjust for 12 watts RF output maximum.
Input of oscilloscope or modulation meter to antenna input. Inject a 1000Hz, 15mV signal at mic input.	Ch. 19, AM XMT	VR7	AM AMC Adjust for 100% modulation maximum. (See Figure 2.)
Input of RF wattmeter to antenna input.	Ch. 19, AM XMT	VR10	RF METER Adjust so Transmit Power meter agrees with RF wattmeter.

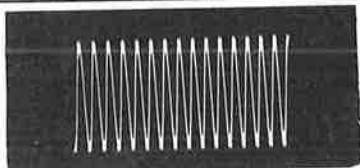


Figure 1

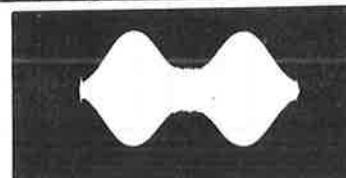
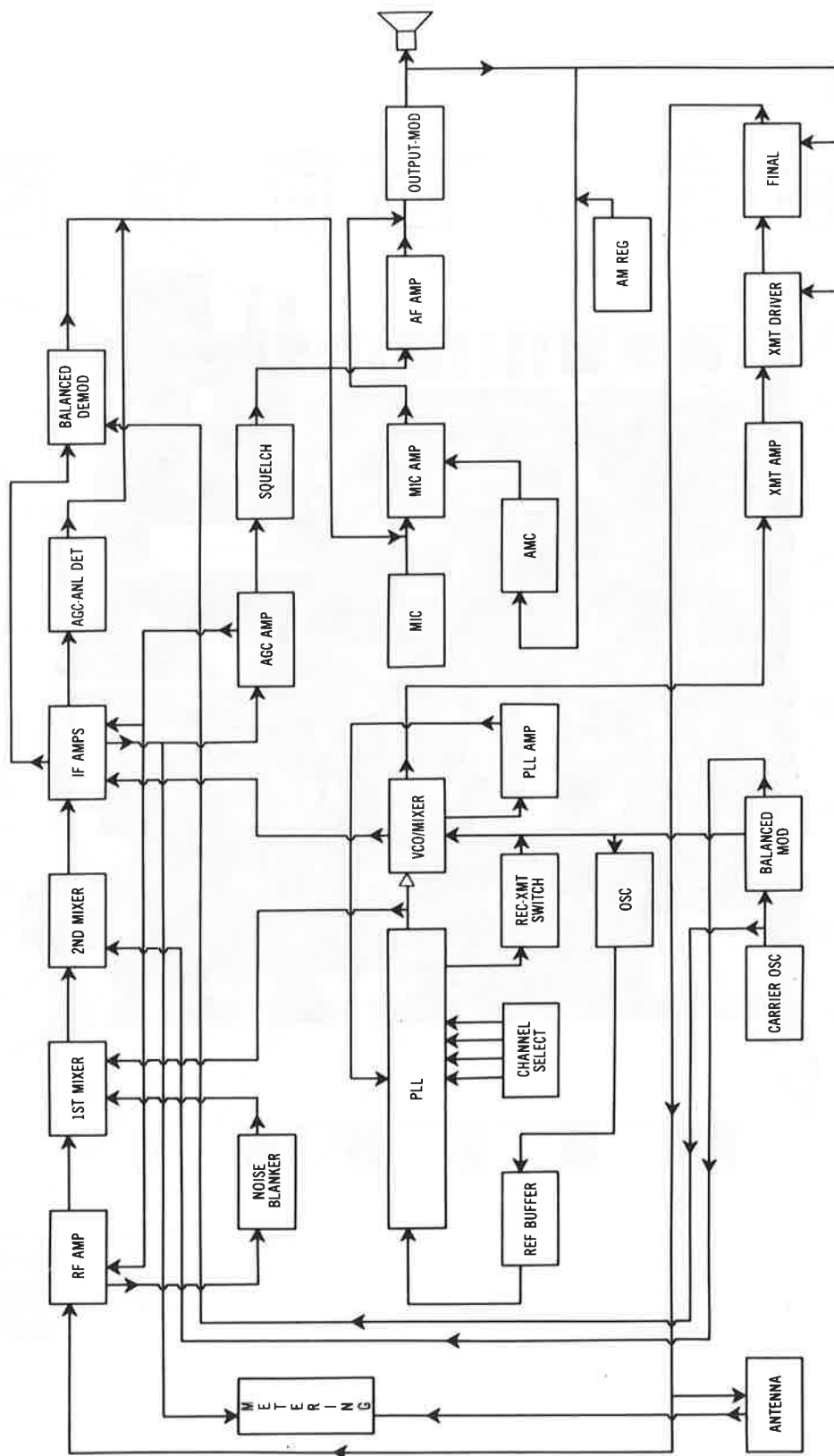


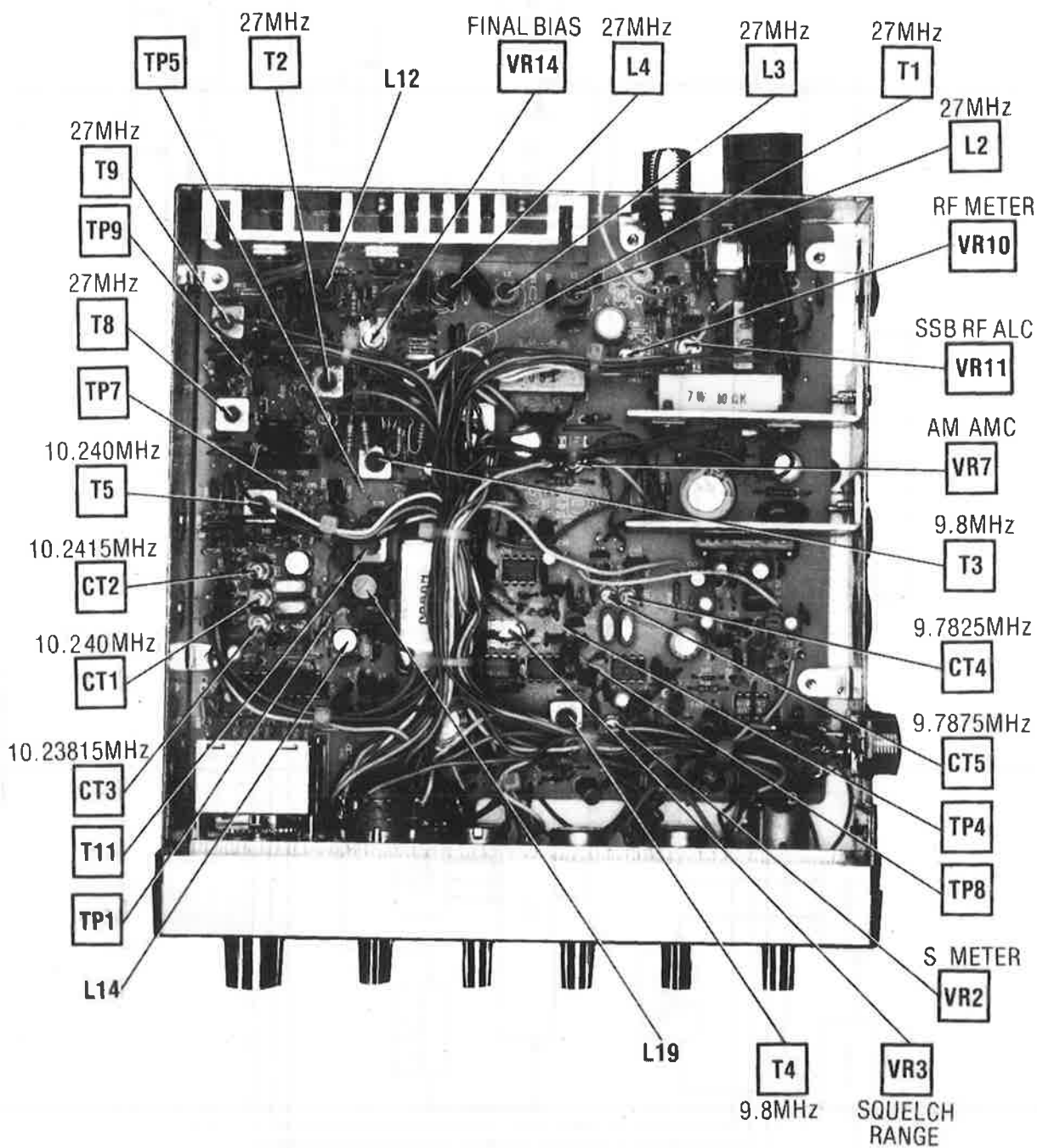
Figure 2

TRUTH CHART

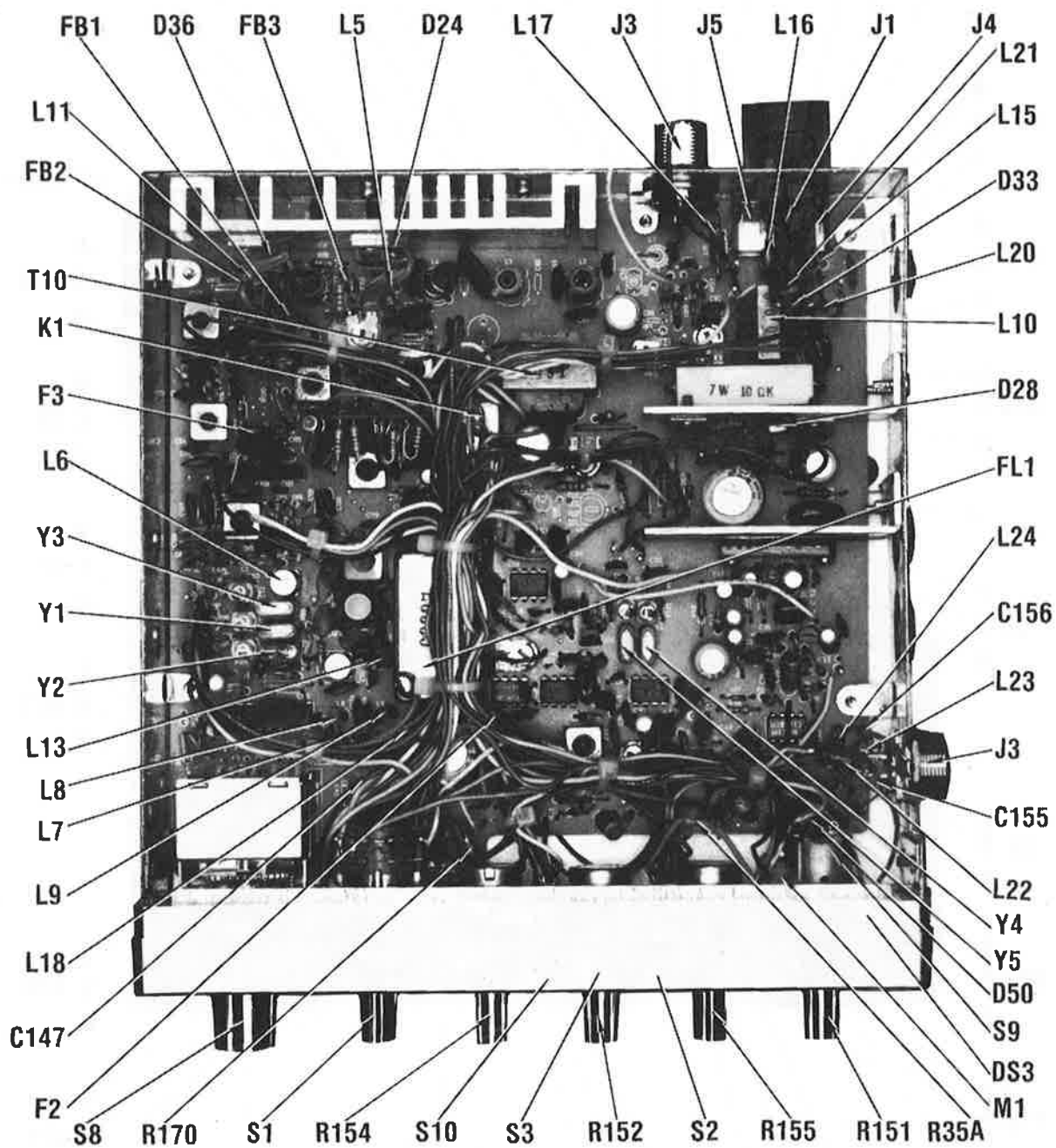
C H A N N E L	0 = 0 Volts 1 = 5.84 Volts								VCO OUTPUT IN MHz AT TP5	VCO OUTPUT IN MHz AT IC8 Pin 9
	IC9 PROGRAM DIVIDER									
	PINS									
	11	12	13	14	15	16				
1	0	0	0	0	0	0			17.180	26.965
2	0	0	0	0	0	1			17.190	26.975
3	0	0	0	0	1	0			17.200	26.985
4	0	0	0	1	0	0			17.220	27.005
5	0	0	0	1	0	1			17.230	27.015
6	0	0	0	1	1	0			17.240	27.025
7	0	0	0	1	1	1			17.250	27.035
8	0	0	1	0	0	1			17.270	27.055
9	0	0	1	0	1	0			17.280	27.065
10	0	0	1	0	1	1			17.290	27.075
11	0	0	1	1	0	0			17.300	27.085
12	0	0	1	1	1	0			17.320	27.105
13	0	0	1	1	1	1			17.330	27.115
14	0	1	0	0	0	0			17.340	27.125
15	0	1	0	0	0	1			17.350	27.135
16	0	1	0	0	1	1			17.370	27.155
17	0	1	0	1	0	0			17.380	27.165
18	0	1	0	1	0	1			17.390	27.175
19	0	1	0	1	1	0			17.400	27.185
20	0	1	1	0	0	0			17.420	27.205
21	0	1	1	0	0	1			17.430	27.215
22	0	1	1	0	1	0			17.440	27.225
23	0	1	1	1	0	1			17.470	27.255
24	0	1	1	0	1	1			17.450	27.235
25	0	1	1	1	0	0			17.460	27.245
26	0	1	1	1	1	0			17.480	27.265
27	0	1	1	1	1	1			17.490	27.275
28	1	0	0	0	0	0			17.500	27.285
29	1	0	0	0	0	1			17.510	27.295
30	1	0	0	0	1	0			17.520	27.305
31	1	0	0	0	1	1			17.530	27.315
32	1	0	0	1	0	0			17.540	27.325
33	1	0	0	1	0	1			17.550	27.335
34	1	0	0	1	1	0			17.560	27.345
35	1	0	0	1	1	1			17.570	27.355
36	1	0	1	0	0	0			17.580	27.365
37	1	0	1	0	0	1			17.590	27.375
38	1	0	1	0	1	0			17.600	27.385
39	1	0	1	0	1	1			17.610	27.395
40	1	0	1	1	0	0			17.620	27.405



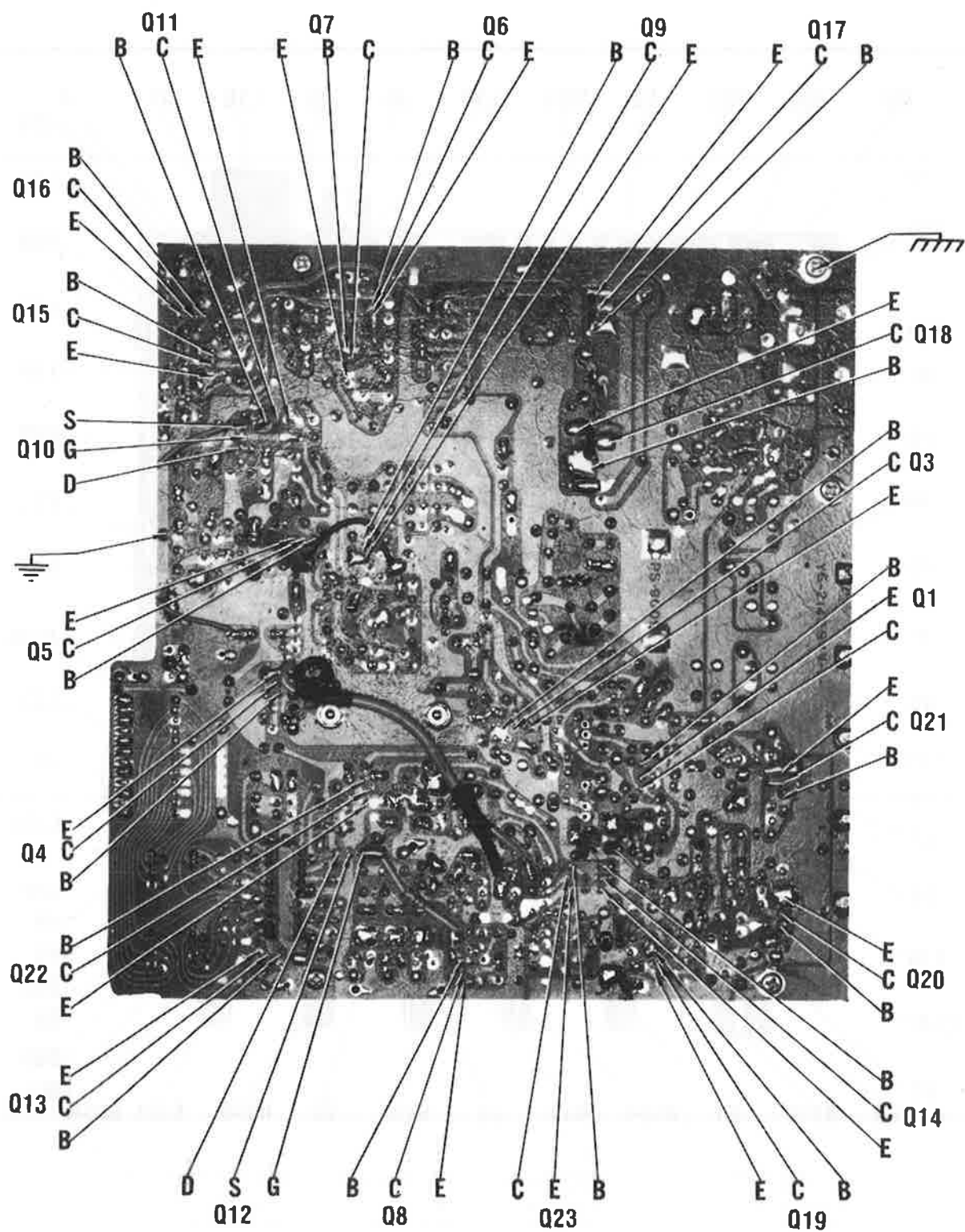
BLOCK DIAGRAM



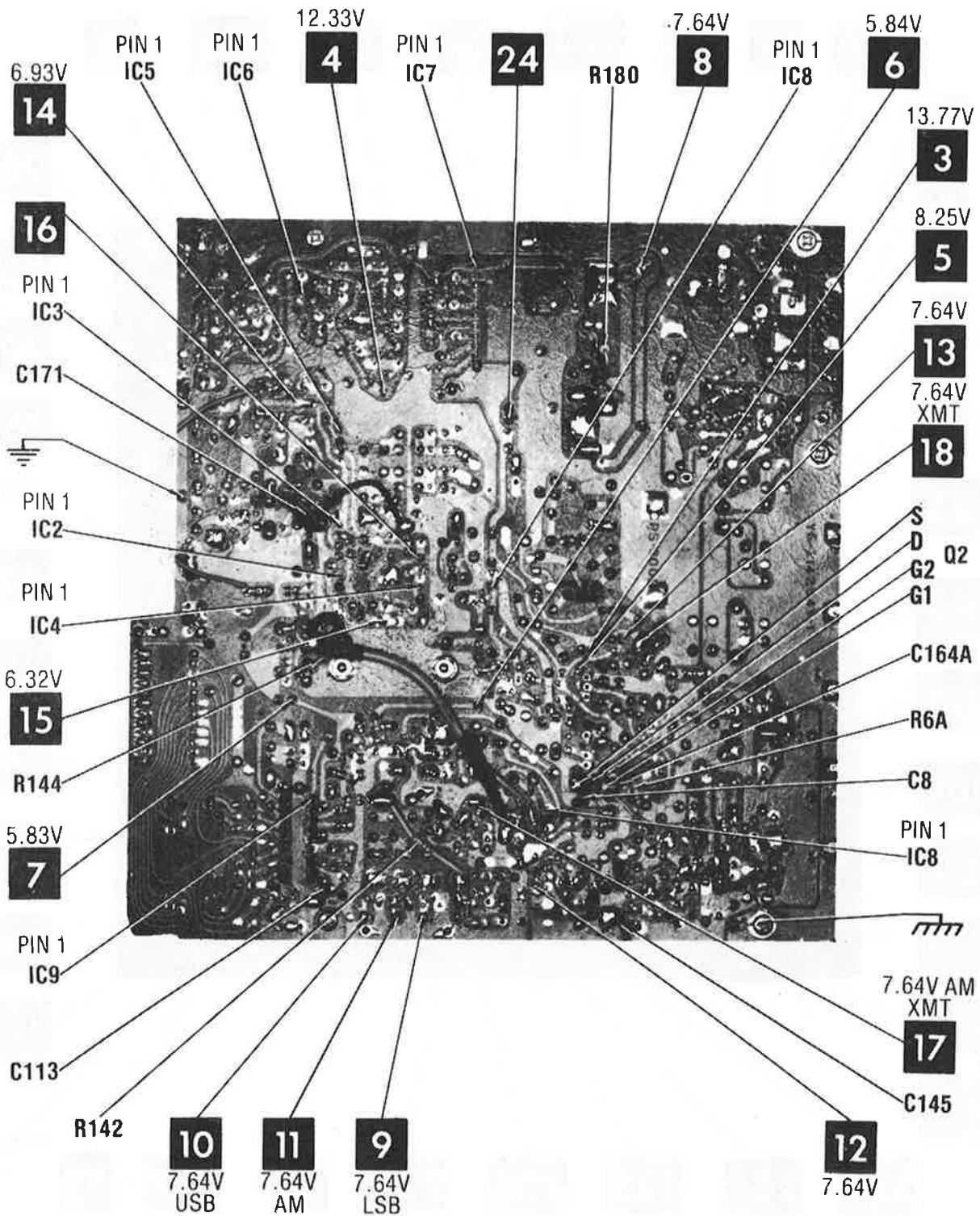
CHASSIS-BOTTOM



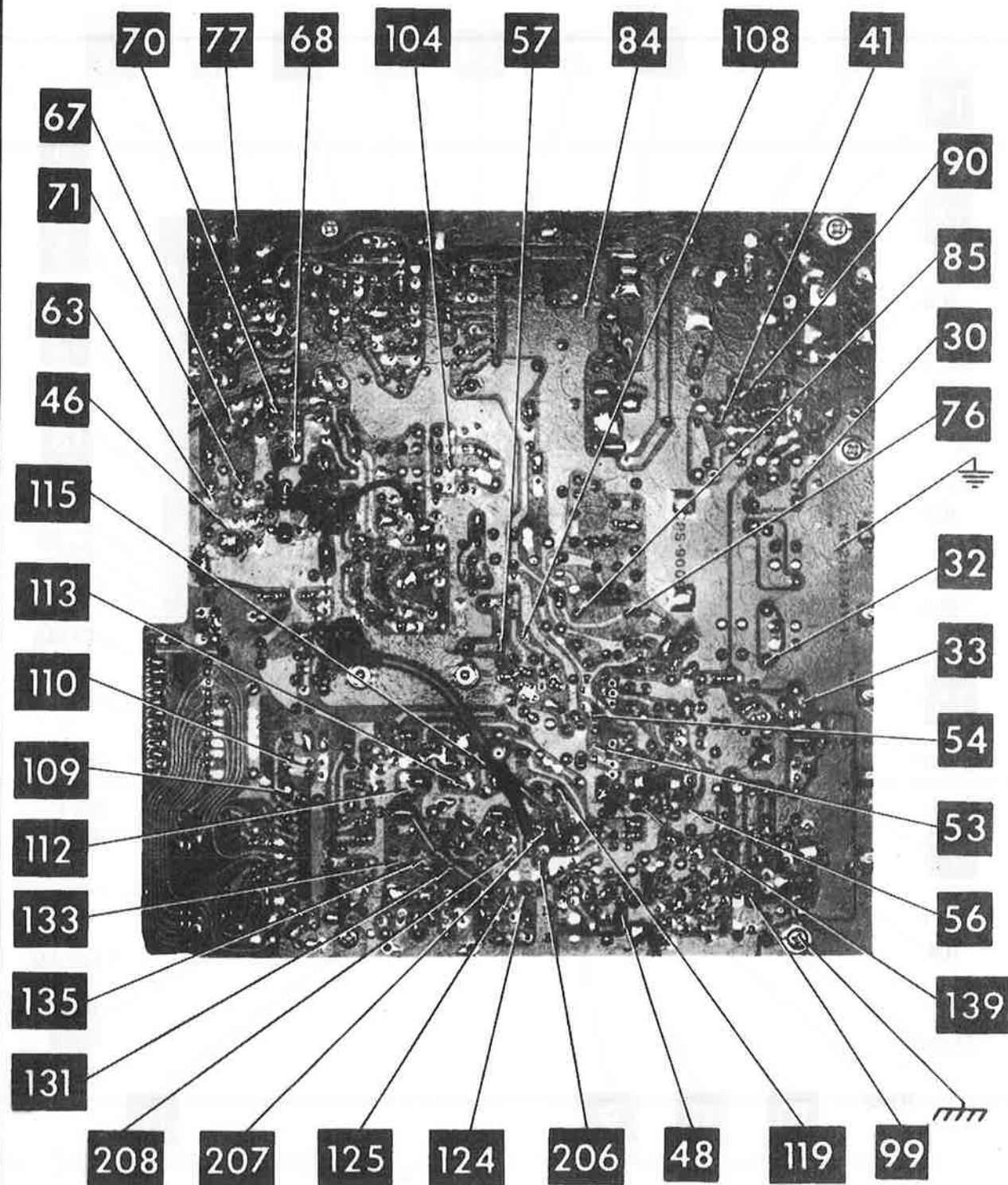
CHASSIS-BOTTOM



MAIN BOARD

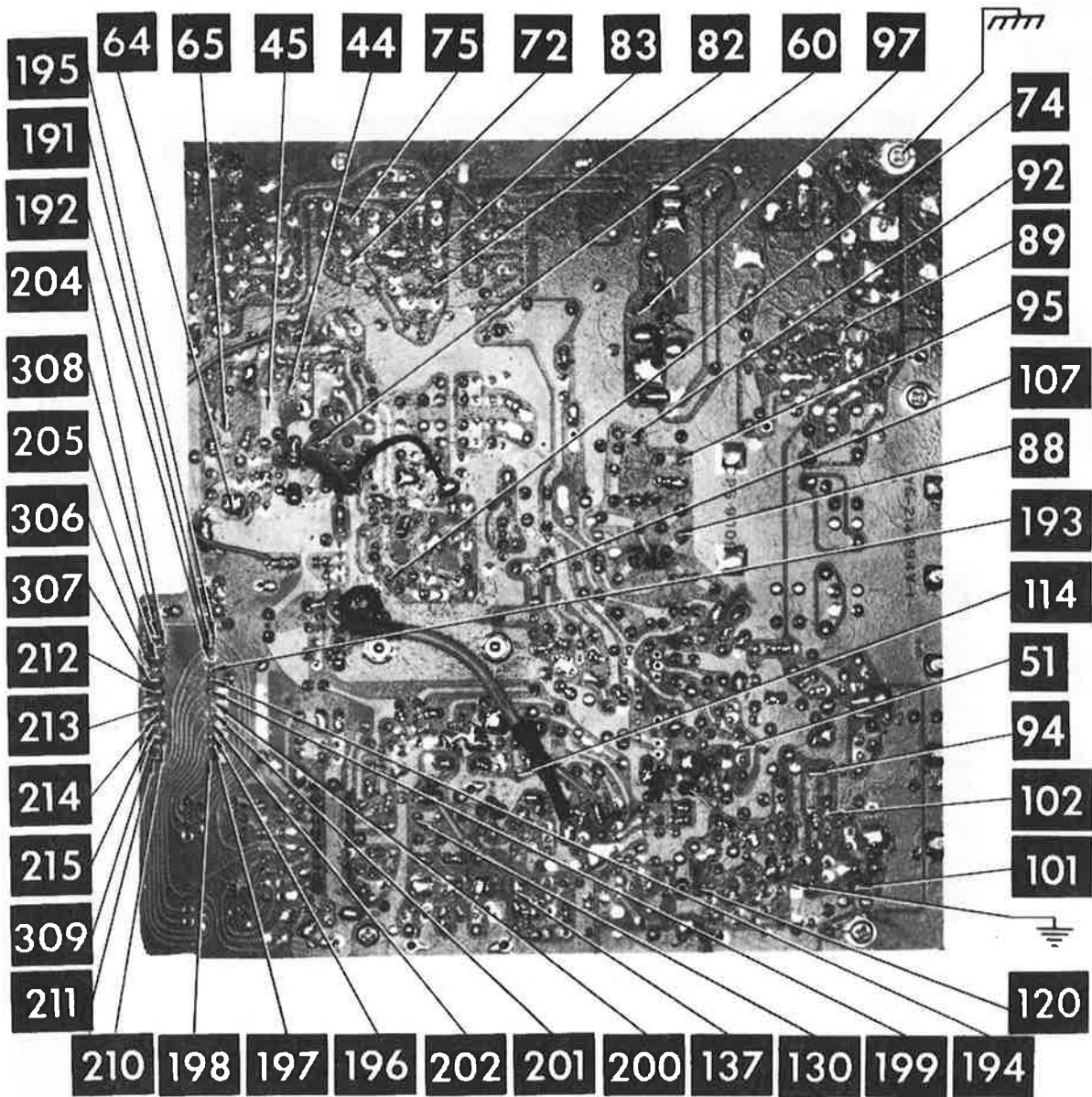


MAIN BOARD

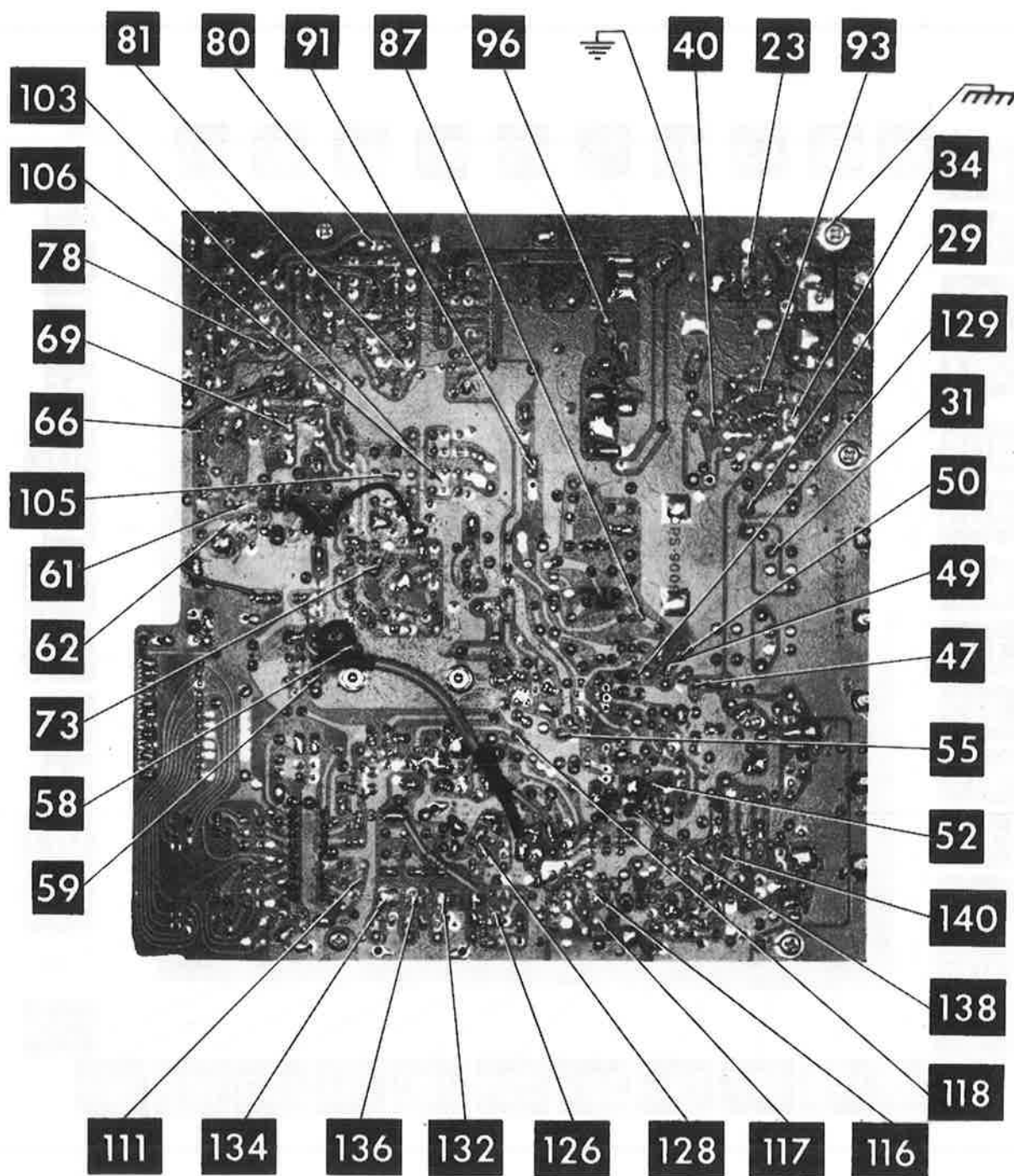


MAIN BOARD

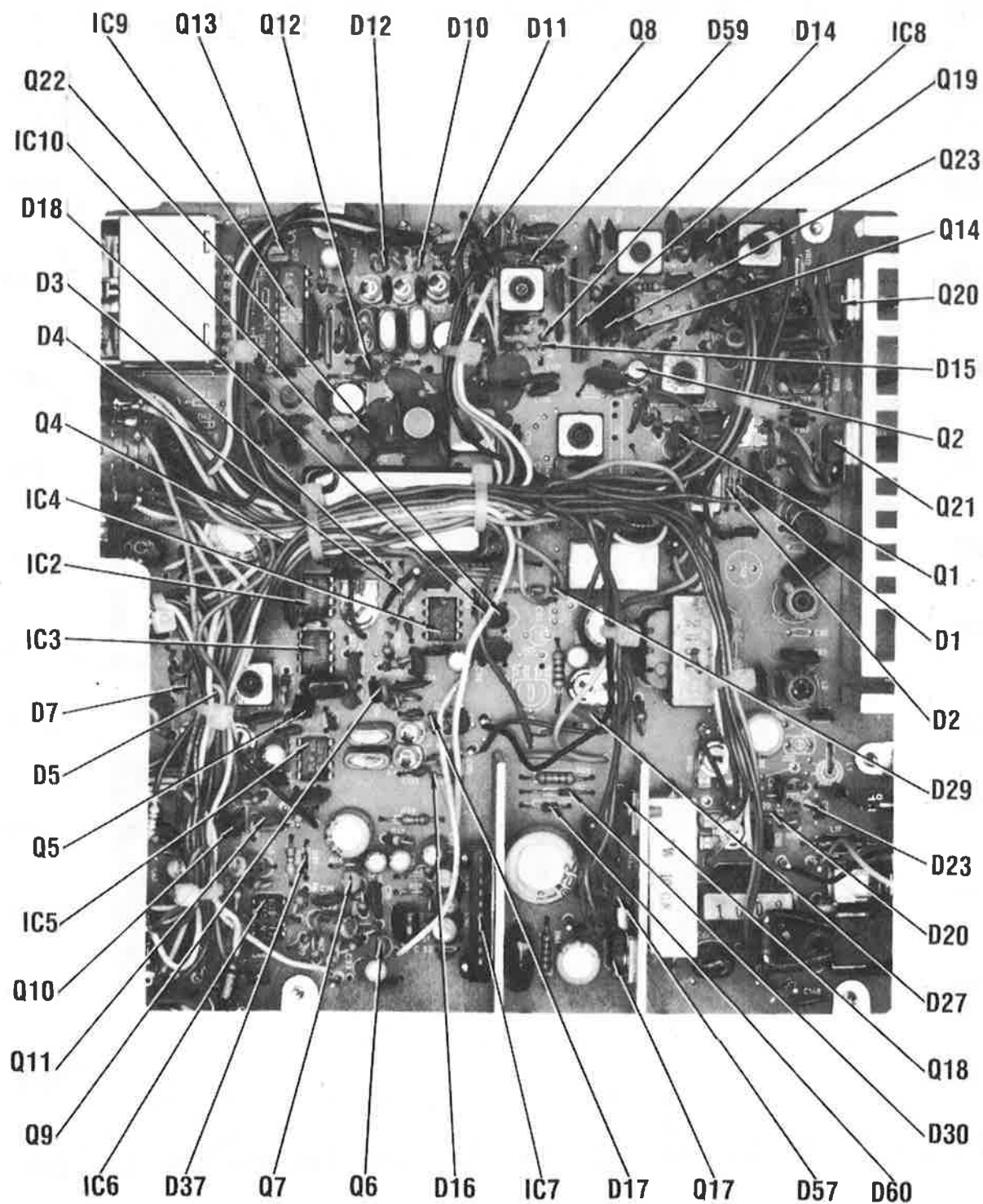
PAGE MODEL 8093



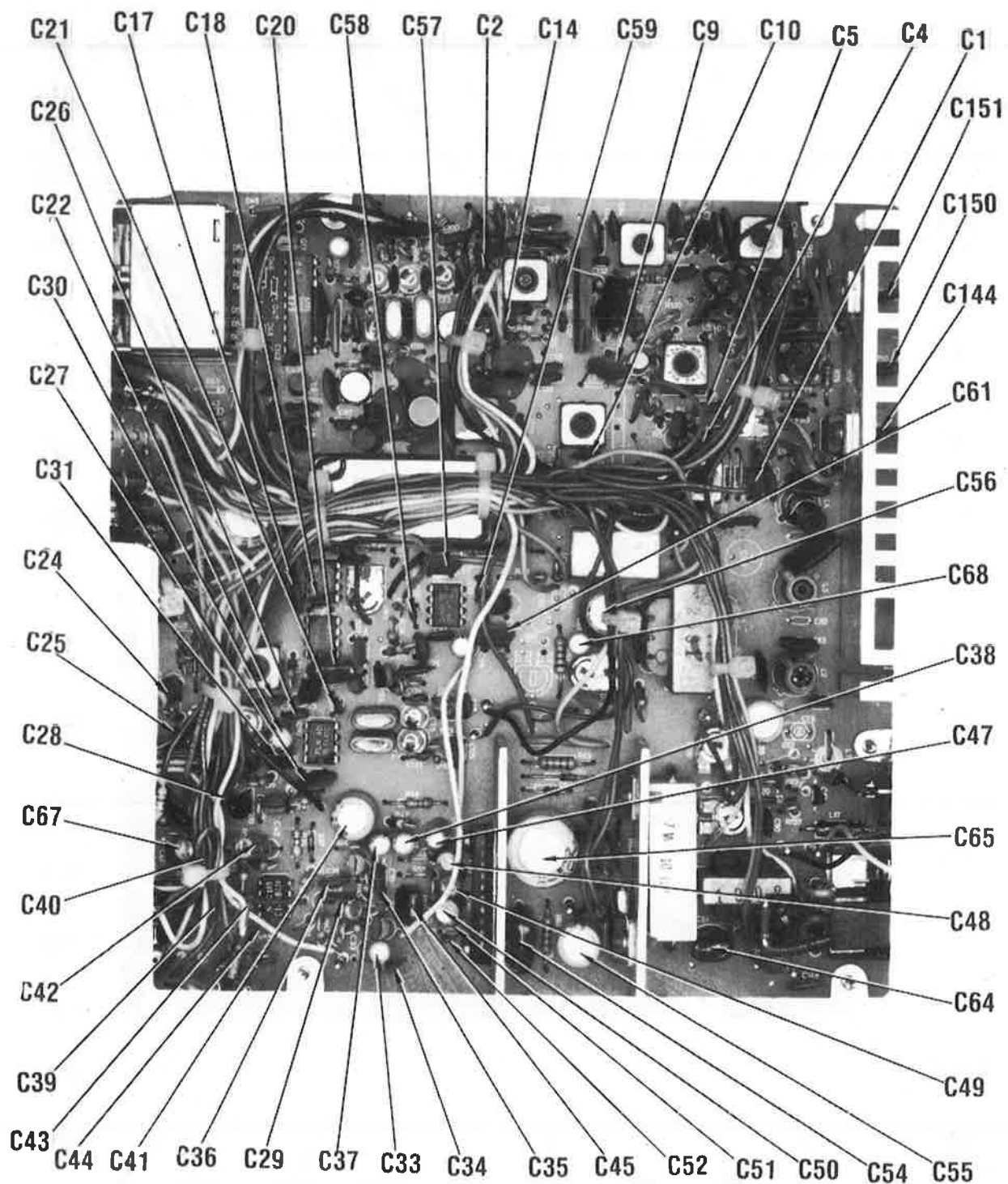
MAIN BOARD



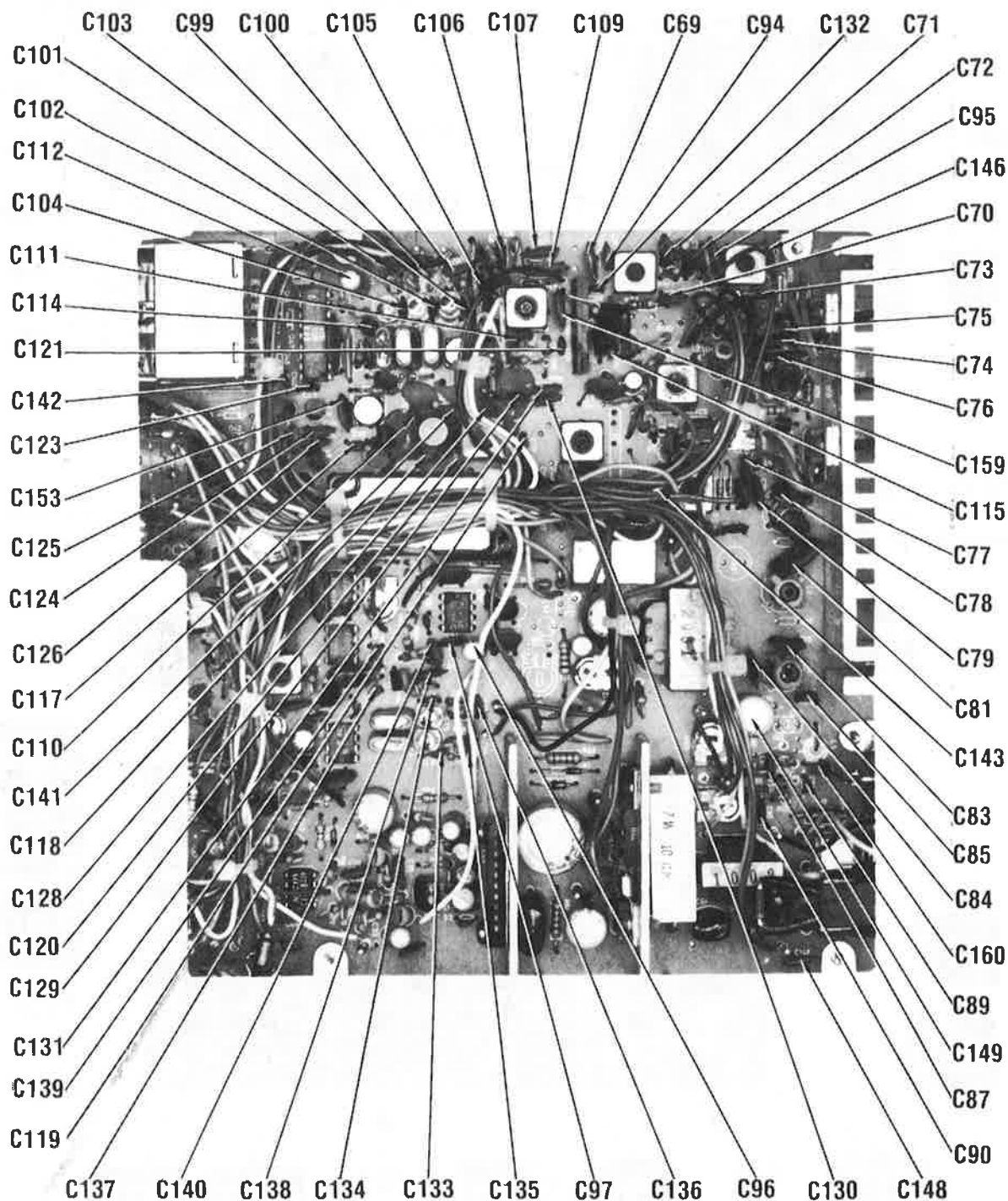
MAIN BOARD



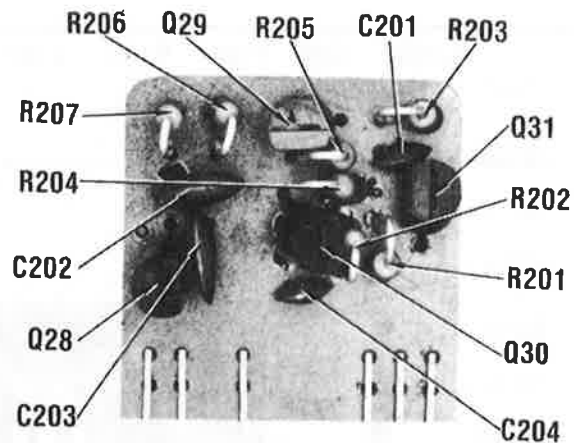
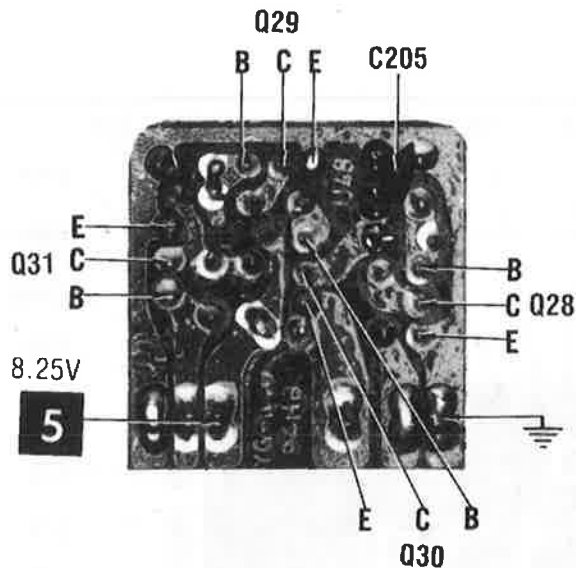
MAIN BOARD



MAIN BOARD

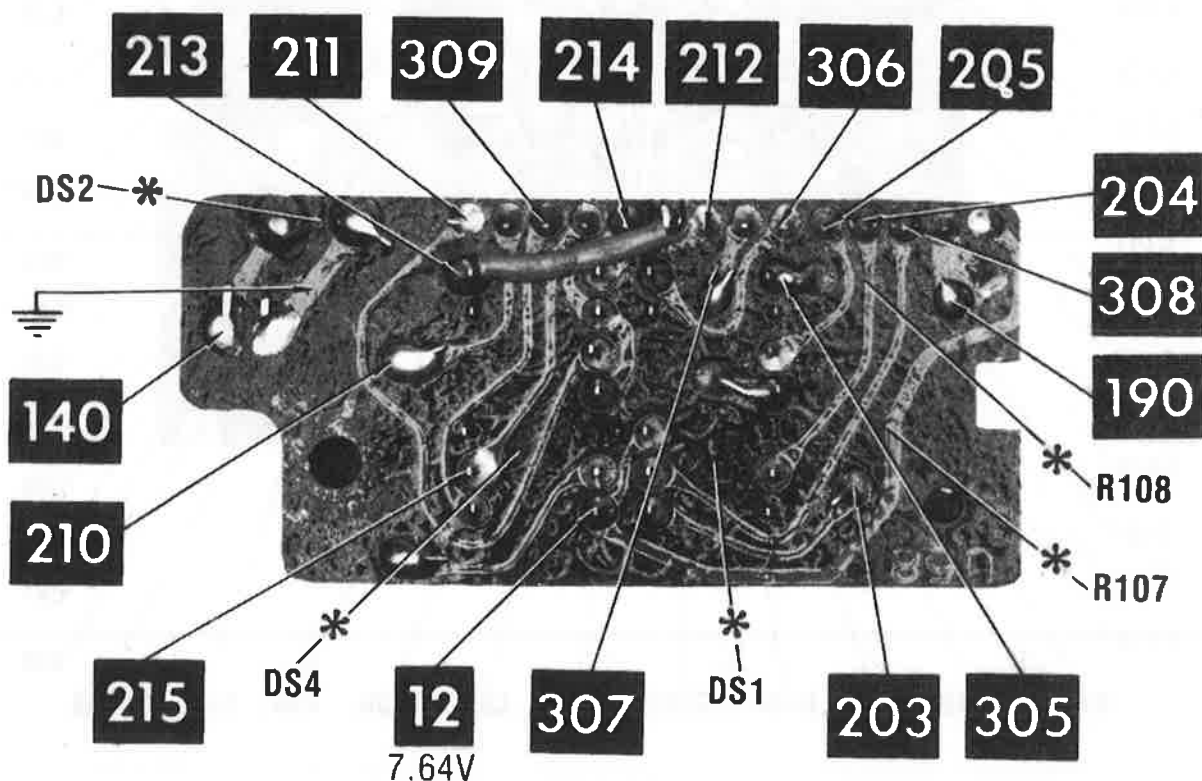


MAIN BOARD



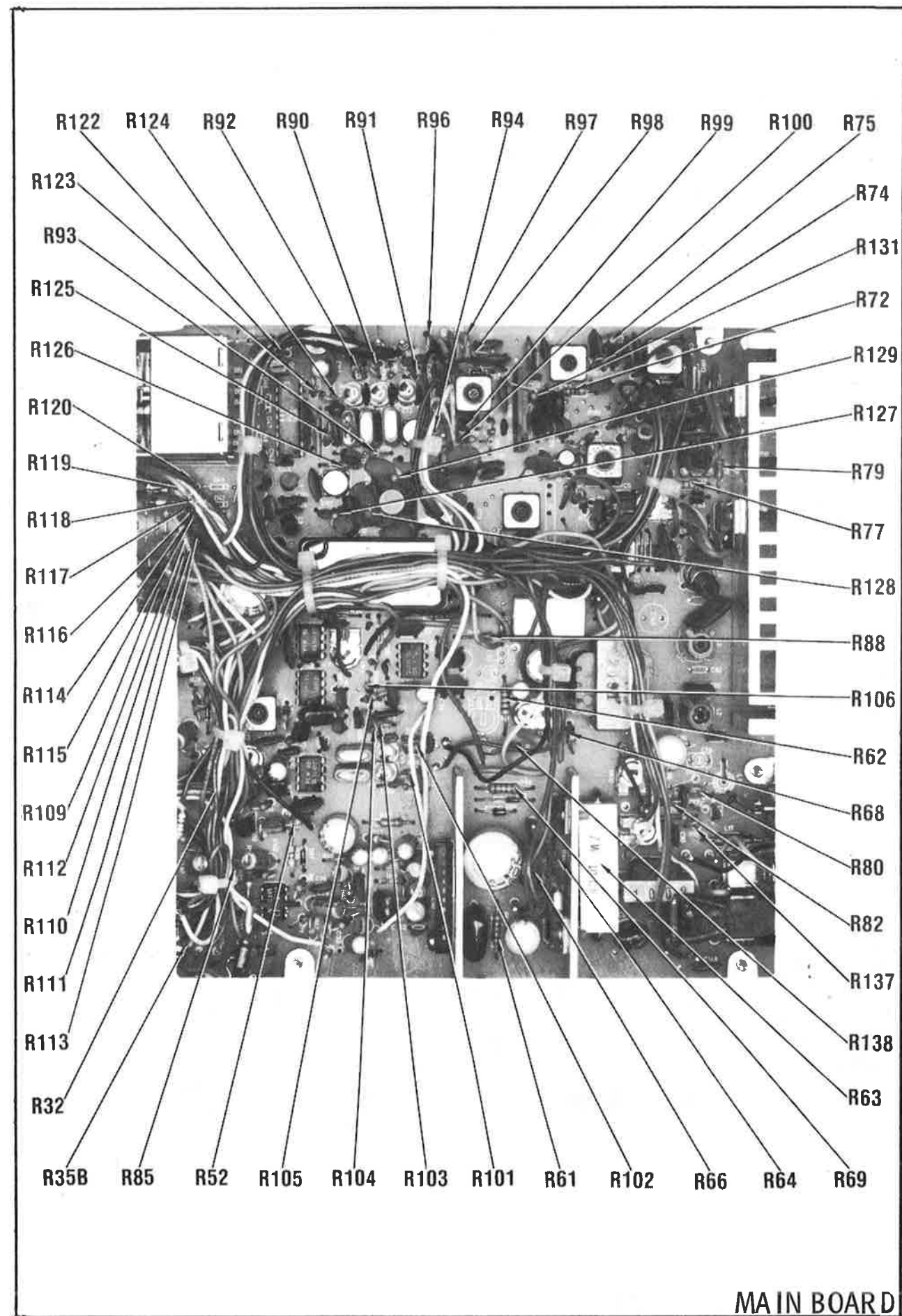
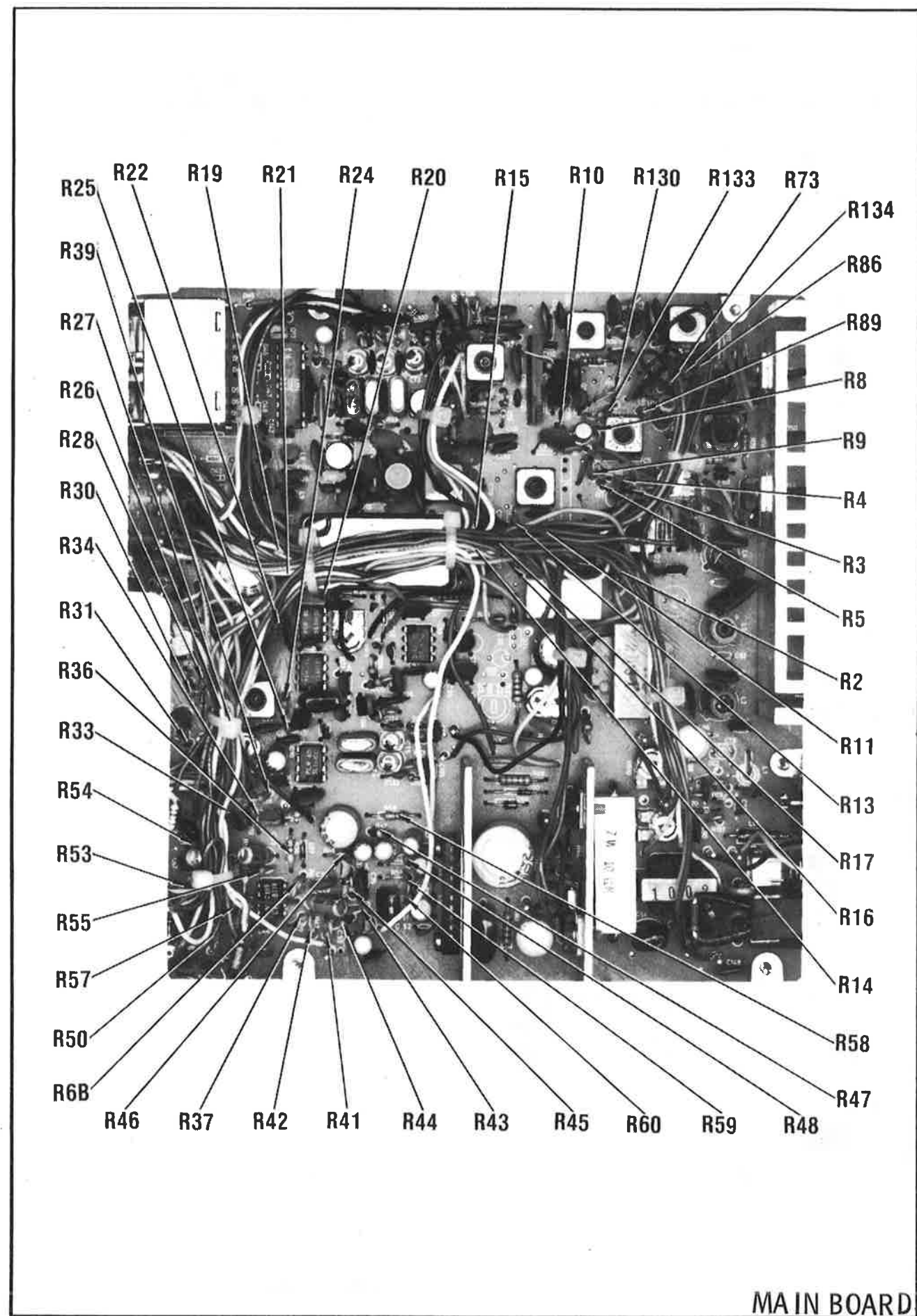
NOISE BLANKER BOARD

A Howard W. Sams **CIRCUITRACE®** Photo



* LOCATED ON OTHER SIDE OF BOARD

READOUT BOARD



PARTS LIST AND (When ordering parts, state

WIRING DATA

Cable (Speaker Shielding Str)
Hook-up Wire
Hook-up Wire
Microphone Cable
Microphone Cable
Microphone Cable

SEMICONDUCTORS

ITEM No.	TYPE No.	MFG PART No.
D1	1S2588	IP20-0441
D2	1S2588	IP20-0441
D3	ITT73C	IP20-0442
D4	ITT73C	IP20-0442
D5	FMI	IP20-0118
D6	1S2076	IP20-0422
D7	1S2075K	IP20-0274
D8	ITT73C	IP20-0442
D9	ITT73C	IP20-0442
D10	1S2588	IP20-0441
D11	1S2588	IP20-0441
D12	1S2588	IP20-0441
D13	ITT310S	IP20-0151
D14	1S2588	IP20-0441
D15	1S2588	IP20-0441
D16	1S2588	IP20-0441
D17	1S2588	IP20-0441
D18	1S2076	IP20-0422
D19	1S953	IP20-0443
D20	1S2687T	IP20-0443
D21	1S2076	IP20-0422
D22	1N60P	IP20-0016
D23	MV-1Y	IP20-0444
D24	W06C	IP20-0440
D27	W06L	TP20-0440
D28	MV-11YM	IP20-0445
D29	W06C	IP20-0440
D30	W06L	IP20-0446
D31	W2075	IP20-0439
D33	S3V-10	IP20-0444
D36	MV-1Y	IP20-0444
D37	ITT73C	IP20-0442
D50	ITT73C	IP20-0442
D57	ITT73C	IP20-0442
D59	1S2076	IP20-0422
D60	ITT73C	IP20-0442
IC2	SL1612C	IP20-0427
IC3	SL1612C	IP20-0427
IC4	SL1640C	IP20-0428
IC5	SL1640C	IP20-0428
IC6	MC1458	IP20-0430
IC7	AN315	IP20-0281
IC8	AN103-0	IP20-0429
	AN103	IP20-0429
	TA7310P	IP20-0429
IC9	3001	IP20-0431
IC10	CCI3001	IP20-0431
Q1	78L06	IP20-0253
Q2	2SC1856	IP20-0436
	3SK41L	IP20-0218
Q3	2SC710	IP20-0002
	2SC710C	IP20-0002
Q4	2SC460	IP20-0179
	2SC460B	IP20-0179
	2SC829	IP20-0179
	2SC839	IP20-0179
Q5	2SC945AP	IP20-0434
	2SC945LQ	IP20-0434
Q6	2SC945	IP20-0434
	2SC945LQ	IP20-0434
	2SC945LQ	IP20-0434
	2SC458	IP20-0434
Q7	2SC945L	IP20-0434
	2SC945LQ	IP20-0434
Q8	2SC458	IP20-0179
	2SC460B	IP20-0179
	2SC460	IP20-0179
	2SC839	IP20-0179

R98
R99
R100
R75
R74
R131
R72
R129
R127
R79
R77
R128
R88
R106
R62
R68
R80
R82
R137
R138
R63
R66
R64
R69

PARTS LIST AND DESCRIPTION

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

WIRING DATA

Cable (Speaker) (Unshielded).....	Use BELDEN No. 8782 (AWG24) (4 colors)
Shielding Strap.....	Use BELDEN No. 8660 (3/16" width)
Hook-up Wire (General Use).....	Use BELDEN No. 8524 (AWG22) (13 colors)
Hook-up Wire (Shielded).....	Use BELDEN No. 8401 (Braided Shield) (1 conductor) (AWG25)
	Use BELDEN No. 8421 (Spiral Shield) (1 conductor) (AWG25)
	Use BELDEN No. 8737 (Spiral Shield) (2 conductor) (AWG22)
Microphone Cable (Coiled).....	Use BELDEN No. 8497 (3 conductor-1 shielded) (6 ft.) (AWG22)
Microphone Cable (Coiled).....	Use BELDEN No. 9466 (3 conductor-1 shielded) (6 ft.) (AWG28)
Microphone Cable (Coiled).....	Use BELDEN No. 9468 (3 conductor-1 shielded) (6 ft.) (AWG31)

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D1	1S2588	IP20-0441	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D2	1S2588	IP20-0441	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D3	1T173C	IP20-0442	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D4	1T173C	IP20-0442	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D5	FMI	IP20-0118	1N34AS	PTC207	REN 109	SK3087	ECG109	TM109/**	WEP134/109	103-29001
D6	1S2076	IP20-0422	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D7	1S2075K	IP20-0274	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D8	1T173C	IP20-0442	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D9	1T173C	IP20-0442	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D10	1S2588	IP20-0441	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D11	1S2588	IP20-0441	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D12	1S2588	IP20-0441	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D13	1T1731OS	IP20-0151	GE-90	PTC214	REN 614	SK3100/519	ECG614	TM614	WEP200/614	103-219
D14	1S2588	IP20-0441	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D15	1S2588	IP20-0441	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D16	1S2588	IP20-0441	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D17	1S2588	IP20-0441	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D18	1S2076	IP20-0422	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D19	1S953	IP20-0443	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D20	1S2687T	IP20-0443	REN 612	PTC214	REN 177	SK3325/612	ECG612	TM612	WEP925/519	103-176
D21	1S2076	IP20-0422	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D22	1N60P	IP20-0016	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D23	WV-1Y	IP20-0444	GE-504A	PTC301	REN 601	SK3463/601	ECG601	TM601	WEP156	212-76-02
D24	WV-1Y	IP20-0444	GE-504A	PTC301	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D27	WV-1Y	IP20-0444	GE-504A	PTC301	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D28	WV-1Y	IP20-0444	GE-504A	PTC301	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D29	WV-1Y	IP20-0444	GE-504A	PTC301	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D30	WV-1Y	IP20-0444	GE-504A	PTC301	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D33	WV-1Y	IP20-0444	GE-504A	PTC301	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D36	WV-1Y	IP20-0444	GE-504A	PTC301	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D37	WV-1Y	IP20-0444	GE-504A	PTC301	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D50	WV-1Y	IP20-0444	GE-504A	PTC301	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D57	WV-1Y	IP20-0444	GE-504A	PTC301	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D59	WV-1Y	IP20-0444	GE-504A	PTC301	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D60	WV-1Y	IP20-0444	GE-504A	PTC301	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
IC2	SL1612C	IP20-0427	GE-512	PTC204	REN 156	SK3051/156	ECG156	TM156	WEP4008/156	212-29000
IC3	SL1612C	IP20-0427	GE-512	PTC204	REN 156	SK3051/156	ECG156	TM156	WEP4008/156	212-29000
IC4	SL1640C	IP20-0428	GE-512	PTC204	REN 156	SK3051/156	ECG156	TM156	WEP4008/156	212-29000
IC5	SL1640C	IP20-0428	GE-512	PTC204	REN 156	SK3051/156	ECG156	TM156	WEP4008/156	212-29000
IC6	MC1458	IP20-0430	GEIC-220	PTC763	REN 1192	SK3445/1192	ECG1192	TM1192	WEP2120/1192	221-29034
IC7	AN315	IP20-0281	PTC763	REN 1192	SK3445/1192	ECG1192	TM1192	WEP2120/1192	221-29061	221-29061
IC8	AN103-0	IP20-0429	PTC763	REN 1192	SK3445/1192	ECG1192	TM1192	WEP2120/1192	221-29061	221-29061
IC9	3001	IP20-0431	PTC763	REN 1192	SK3445/1192	ECG1192	TM1192	WEP2120/1192	221-29061	221-29061
IC10	CC13001	IP20-0431	PTC763	REN 1192	SK3445/1192	ECG1192	TM1192	WEP2120/1192	221-29061	221-29061
Q1	78L06	IP20-0253	GE-86*	PTC136*	REN 123A*	SK3831	ECG988	TM988	WEP736/123A*	121-29000A
Q2	2SC1856	IP20-0436	GE-FET-4	PTC182*	REN 222	SK3065/222	ECG222	TM222	WEP905/222	121-826
Q3	2SC710	IP20-0002	GE-211*	PTC132*	REN 123AP*	SK3356	ECG107*	TM107/**	WEP710	121-29000A*
Q4	2SC710C	IP20-0002	GE-211*	PTC132*	REN 123AP*	SK3356	ECG107*	TM107/**	WEP710	121-29000A*
Q4	2SC460	IP20-0179	GE-61*	PTC136*	REN 107	SK3122	ECG199	TM199/**	WEP460	121-522*
Q4	2SC829	IP20-0179	GE-20*	PTC139*	REN 229*	SK3124/289	ECG289	TM289/**	WEP460	121-522*
Q4	2SC839	IP20-0179	GE-61*	PTC132*	REN 123A*	SK3124/289	ECG293	TM293/**	WEP1945	121-29000A*
Q5	2SC945AP	IP20-0434	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q5	2SC945LQ	IP20-0434	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q5	2SC945	IP20-0434	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q5	2SC945L	IP20-0434	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q5	2SC945LQ	IP20-0434	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q6	2SC945L	IP20-0434	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q6	2SC945LQ	IP20-0434	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q6	2SC945	IP20-0434	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q6	2SC945LQ	IP20-0434	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q7	2SC945L	IP20-0434	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q7	2SC945LQ	IP20-0434	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q7	2SC945	IP20-0434	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q7	2SC945LQ	IP20-0434	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q8	2SC460	IP20-0179	GE-61*	PTC136*	REN 107	SK3122	ECG199	TM199/**	WEP460	121-522*
Q8	2SC460	IP20-0179	GE-61*	PTC136*	REN 107	SK3122	ECG199	TM199/**	WEP460	121-522*
Q8	2SC839	IP20-0179	GE-61*	PTC132*	REN 123A*	SK3124/289	ECG293	TM293/**	WEP1945	121-29000A*

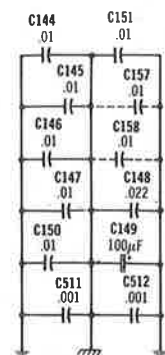
PARTS LIST AND DESCRIPTION (CONTINUED)

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

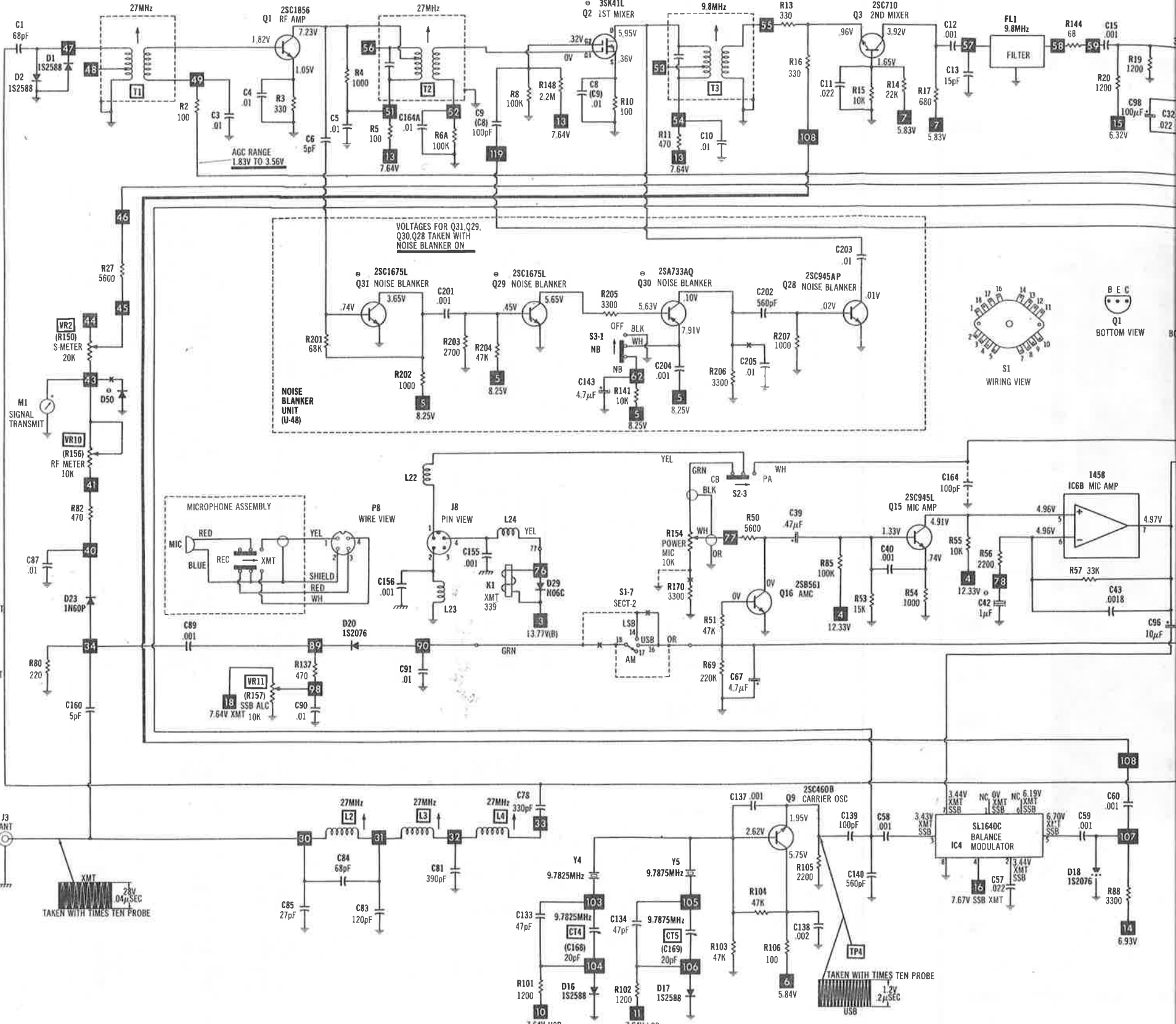
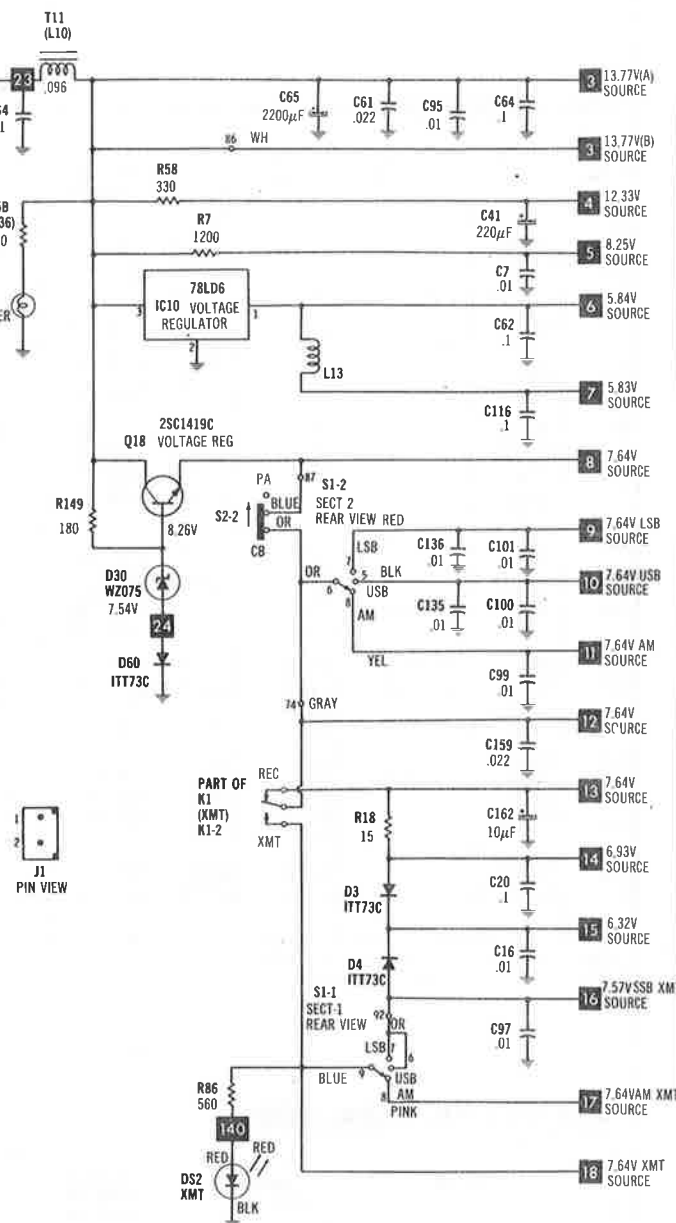
SEMICONDUCTORS (Select replacement transistor for best results) (cont)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
Q9	2SC460B	IP20-0179	GE-61*	PTC136*	REN 107	SK3122	ECG199	TM199/**	WEP460	121-522*
Q9	2SC460	IP20-0179	GE-61*	PTC136*	REN 107	SK3122	ECG199	TM199/**	WEP460	121-522*
Q10	2SC839	IP20-0433	GE-61*	PTC132*	REN 123A*	SK3124/289	ECG293	TM293/**	WEP1945	121-29000A*
Q10	2SK107	IP20-0433	GE-FET-1	PTC151*	REN 133*	SK3112	ECG133*	TM133*	WEP801/133*	921-1019
Q10	2SK107-4	IP20-0433	GE-FET-1	PTC151*	REN 133*	SK3112	ECG133*	TM133*	WEP801/133*	921-1019
Q11	2SA695	IP20-0112	GE-272*	PTC141*	REN 298*	SK3450/298*	ECG298*	TM298*	WEP915/298*	121-29046*
Q11	2SA695D2	IP20-0112	GE-272*	PTC141*	REN 298*	SK3450/298*	ECG298*	TM298*	WEP915/298*	121-29046*
Q12	2SA673	IP20-0432	GE-269	PTC103*	REN 290	SK3114/290	ECG290	TM290*	WEP911/290	121-29003*
Q12	2SK49H	IP20-0432	GE-FET-2	PTC161	REN 132*	SK3834/132	ECG312*	TM312*	WEP920/312*	921-1067*
Q12	2SK49	IP20-0432	GE-FET-2	PTC161	REN 132*	SK3834/132	ECG312*	TM312*	WEP920/312*	921-1067*
Q13	2SC945L	IP20-0245	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q13	2SC945R	IP20-0245	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q14	2SC458	IP20-0434	GE-210	PTC121*	REN 289	SK3124/289	ECG289	TM289/**	WEP458	121-29065
Q14	2SC945LQ	IP20-0434	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
Q14	2SC458	IP20-0434	GE-210	PTC121*	REN 289	SK3124/289	ECG289	TM289/**	WEP458	121-29065
Q17	2SC1061C	IP20-0007	GE-66	PTC167	REN 152	SK3054/196	ECG152	TM152/**	WEP745/152	121-987-03
Q18	2SC1061	IP20-0435	GE-66	PTC167	REN 152	SK3054/196	ECG152	TM152/**	WEP745/152	121-987-03
Q18	2SC1419C	IP20-0435	GE-66	PTC167	REN 152	SK3197/235	ECG152	TM152	WEP745/152	121-987-03
Q19	2SC1419	IP20-0437	GE-66	PTC167	REN 152	SK3197/235	ECG152	TM152	WEP745/152	121-987-03
Q19	2SC2003L	IP20-0437	GE-20*	PTC121*	REN 123AP	SK3449/297	ECG123AP*	TM123AP*	WEP736/123A*	121-29000A*
Q19	2SC2003	IP20-0437	GE-20*	PTC121*	REN 123AP	SK3449/297	ECG123AP*	TM123AP*	WEP736/123A*	121-29000A*
Q20	2SC2166	IP20-0321	GE-215	PTC186	REN 235	SK3197/235	ECG235	TM235	WEP785/235	121-29039</

13.80VDC
370mA REC NO SIGNAL
390mA REC NORMAL SIGNAL
2.3A XMT
2.75A MOD
260mA PA
380mA SSB REC NO SIGNAL
410mA SSB REC NORMAL VOLUME
900mA SSB XMT
2.45A SSB MOD

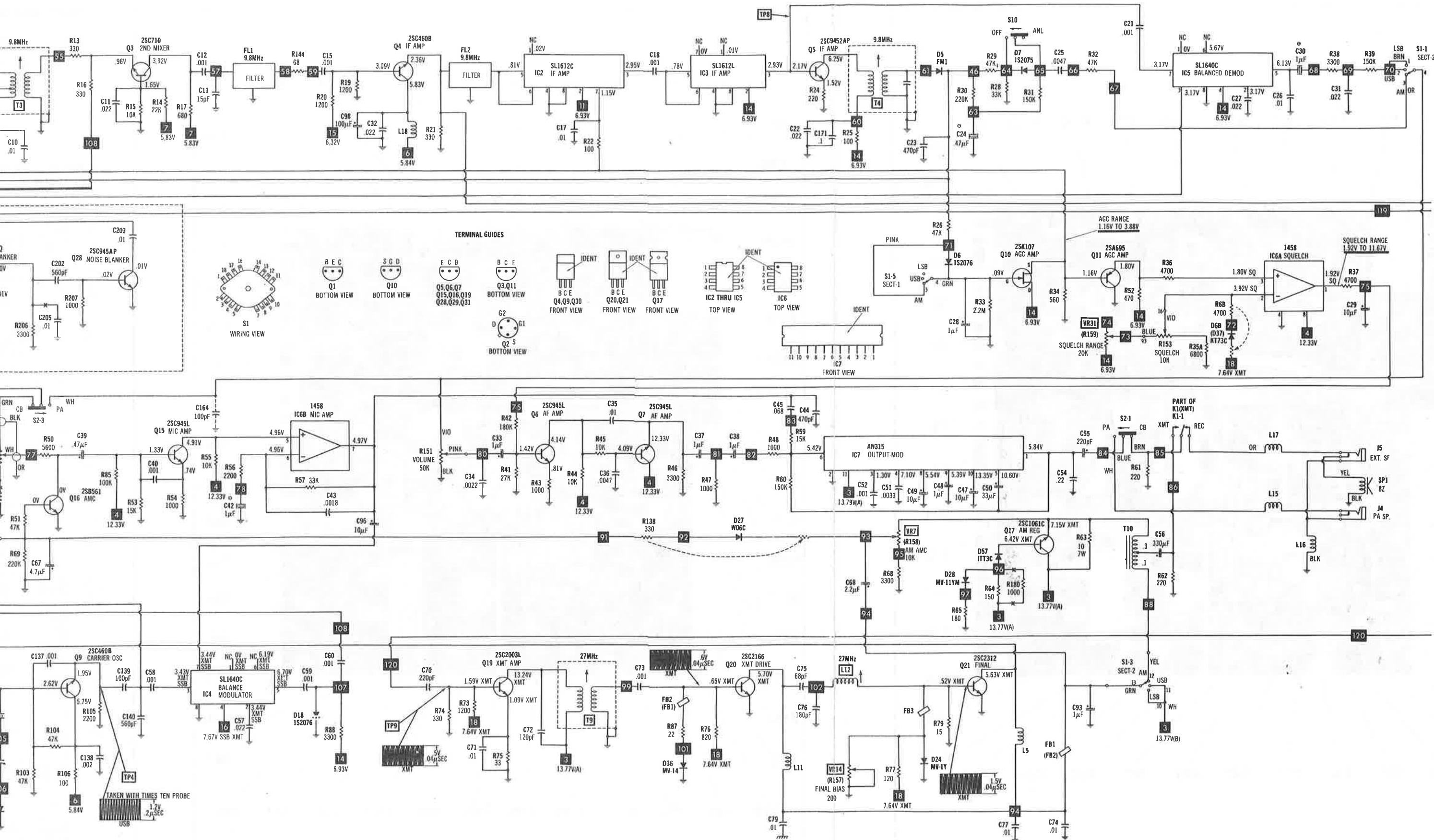


TERMINAL GUIDES



- Circuitry not used in some versions.
 - - - Circuitry used in some versions.
 - * Nominal value
 - ▽ Common tie point
 - ⊥ 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 SCHEMATIC

PACE MODEL 8093

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C1	68 N220 10%	IP22-0242		*		10TCR-Q68
C2	7					
C3	.01			MAG5011		
C4	.01			MAG5011		
C5	.01			MAG5011		
C6	5		NP06P8	CN0568		10TCC-V68
C7	.01			MAG5011		
C8	.01			MAG5011		
C9	100 N220 10%	IP22-0243		*		10TCR-T10
C10	.01			MAG5011		
C11	.022		MGP025	TA125		TG-S25
C12	.001			GP210	QCT2-41	10TS-D10
C13	15 NPO 10%		NP015	CN0415		10TCC-Q15
C14	.022		MGP025	TA125		TG-S25
C15	.001			GP210	QCT2-41	10TS-D10
C16	.01			MAG5011		
C17	.01			MAG5011		
C18	.001			GP210	QCT2-41	10TS-D10
C20	.1 50V		WMF05P1	EWFO5010	QFT2-215	1FT-P10
C21	.001			GP210	QCT2-41	10TS-D10
C22	.022		MGP025	TA125		TG-S25
C23	470		GP470	GP347	QCT2-35	10TS-T47
C25	.0047		GP4700	GP247		5GA-D47
C26	.01			MAG5011		
C27	.022		MGP025	TA125		TG-S25
C31	.022 50V 10%		DPHS2S22	H192P2239R8	QFT2-127	1FT-S22
C32	.022		MGP025	TA125		TG-S25
C34	.0022			GP222	QCT2-46	10TS-D22
C35	.01			MAG5011		
C36	.0047		GP4700	GP247		5GA-D47
C40	.001			GP210	QCT2-41	10TS-D10
C43	.0018 10%		GP1800	GP218	QCT2-44	10TS-D18
C44	470		GP470	GP347	QCT2-35	10TS-T47
C45	.068 50V 10%		WHFTS68	EWFT1A1 68	QF1-195	1P8-S68
C51	.0033		GP3300	GP233	QC2-107	5GA-D33
C52	.001			GP210	QCT2-41	10TS-D10
C54	.22 50V		WMF05P22	EWFO5022	QFT2-253	1FT-P22
C57	.022		MGP025	TA125		TG-S25
C58	.001			GP210	QCT2-41	10TS-D10
C59	.001			GP210	QCT2-41	10TS-D10
C60	.001			GP210	QCT2-41	10TS-D10
C61	.022		MGP025	TA125		TG-S25
C62	.1			MAG5001		
C63	.01			MAG5011		
C64	.1 50V		WMF05P1	EWFO5010	QFT2-215	1FT-P10
C69	120 N220 10%	IP22-0245		*		10TCR-T12
C70	220 N750 10%		N220	CN7322		10TCU-T22
C71	.01			MAG5011		
C72	120 N220 10%	IP22-0245		*		10TCR-T12
C73	.001			GP210	QCT2-41	10TS-D10
C74	.01			MAG5011		
C75	68 N220 10%	IP22-0242		*		10TCR-Q68
C76	180 N220 10%	IP22-0247		*		10TCR-T18
C77	.01			MAG5011		
C78	330 10%		CD15FD331J03	SX333	QW1-39	MWB-331
C79	.01 10%			MAG5011		
C80	390 10%		CD15FD391J03	SX339	QW1-41	MWB-391
C81	120 10%		CD15FD121J03	SX312	QW1-29	MWA-121
C83	120 10%					
C84	33		CD15ED330J03	SX433	QW1-15	MWA-330
C85	51		CD15ED510J03		QW1-20	MWA-510
C86	100 N750 10%		N100	CN7310		10TCU-T10
C87	.01			MAG5011		
C89	.001			GP210	QCT2-41	10TS-D10
C90	.01			MAG5011		
C91	.01			MAG5011		
C94	.01			MAG5011		
C95	.01			MAG5011		
C97	.01			MAG5011		
C99	.01			MAG5011		
C100	.01			MAG5011		
C101	.01			MAG5011		
C102	22 N220 10%			*		10TCR-Q22
C103	22 N220 10%			*		10TCR-Q22
C104	22 N220 10%			*		10TCR-Q22
C105	.001			GP210	QCT2-41	10TS-D10
C106	220 N750 10%		N220	CN7322		10TCU-T22
C107	100 N220 10%	IP22-0243		*		10TCR-T10
C108	.001			GP210	QCT2-41	10TS-D10
C109	.039			GP140		5GA-S40
C110	.039			GP140		5GA-S40
C111	.01			MAG5011		
C113B	.01		GP100	GP310	QCT2-24	10TS-T10
C116	100			MAG5001		
C117	68		GP68	GP468		10TS-Q68
C118	100		GP100	GP310	QCT2-24	10TS-T10
C119	47 N750 10%		N47	CN7447		10TCU-Q47
C120A	120 N750 10%					10TCU-Q47
C120B	56 N220 10%	IP22-0241		*		10TCU-T12
C121	.001			GP210	QCT2-41	10TCR-Q56
C123	15 NPO 10%		NP015	CN0415		10TS-D10
C124	470		GP470	GP347	QCT2-35	10TCC-Q15
C125	150 N750 10%		N150	CN7315		10TCU-T15
C126	470		GP470	GP347	QCT2-35	10TS-T47
C128	33 N470 10%	IP22-0239		*		10TCT-Q33
C129	56 NPO 10%			CN0456		10TCC-Q56
C130	560 10%			GP356		10TS-T56
C131	150 N750 10%		N150	CN7315		10TCU-T15

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C132	.001			GP210		
C133	47 N750 10%		N47	CN7447	QCT2-41	10TS-D10
C134	47 N750 10%		N47	CN7447		10TCU-Q47
C135	.01			MAG5011		10TCU-Q47
C136	.01			MAG5011		
C137	.001			GP210	QCT2-41	10TS-D10
C138	.022		MGP025	TA125		TG-S25
C139	100 N750 10%		N100	CN7310		10TCU-T10
C140	560			GP356		10TS-T56
C141	.0022			GP222	QCT2-46	10TS-T56
C142	.001			GP210	QCT2-41	10TS-D10
C144	.01			MAG5011		
C145	.01			MAG5011		
C146	.01			MAG5011		
C147	.01			MAG5011		
C148	.022		MGP025	TA125		TG-S25
C150	.01			MAG5011		
C151	.01			MAG5011		
C152	150 N750 10%	IP22-0245	N150	CN7315		10TCU-T15
C153	120 N220 10%			*		10TCR-T12
C155	.001			GP210	QCT2-41	10TS-D10
C156	.001			GP210	QCT2-41	10TS-D10
C159	.022		MGP025	TA125		TG-S25
C160	5					
C163	.01			MAG5011		
C164A	.01			MAG5011		
C171	.1			MAG5001	QCT2-41	10TS-D10
C201	.001			GP210		10TS-T56
C202	560			GP356		
C203	.01			MAG5011		
C204	.001			GP210	QCT2-41	10TS-D10
C503	.022		MGP025	TA125		TG-S25
C504	.022		MGP025	TA125		TG-S25
C505	.001 125V			GP210	QCT2-41	10TS-D10
C506	.001 125V			GP210	QCT2-41	10TS-D10
C508	.001 50V		DPMS6D1	EWFTA210	QFT2-1	1FT-D10
C510	.001			GP210	QCT2-41	10TS-D10
C511	.001			GP210	QCT2-41	10TS-D10
C512	.001			GP210	QCT2-41	10TS-D10
C513	.001			GP210	QCT2-41	10TS-D10
C514	.022		MGP025	TA125		TG-S25
CT1	20 Trimmer	IP22-0229				
CT2	20 Trimmer	IP22-0229				
CT3	20 Trimmer	IP22-0229				
CT4	20 Trimmer	IP22-0229				
CT5	20 Trimmer	IP22-0229				
CT6	20 Trimmer	IP22-0229				

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

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA		
			MFR. PART No.	MALLORY PART No.	TRW PART No.
R151	Volume/Switch	50K	IP24-0101		
R152	Clarifier	10K	IP24-0102		
R154	Phr Hic	10K	IP24-0102		
R155	Squelch	10K	IP24-0103		
VR2	S Meter	20K	IP24-0093	MTC24L1	U260R253B
VR3	Squelch Range	20K	IP24-0093	MTC24L1	U260R253B
VR7	AH AHC	10K	IP24-0100	RVA0911H103	U260R103B
VR10	RF Meter	10K	IP24-0100	RVA0911H103	U260R103B
VR11	SSB RF ALC	10K	IP24-0100	RVA0911H103	U260R103B
VR14	Final Bias	200	IP24-0099		

PARTS LIST AND DESCRIPTION (CONTINUED)

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

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		MFGR. PART No.	WORKMAN PART No.			MFGR. PART No.	WORKMAN PART No.
R63	10 Ohm 7W 10%	IP23-0084					

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	RF Choke	IP21-0502			
L2	Antenna Matching (58MHz)	IP21-0489			
L3	PI Filter (27MHz)	IP21-0490			
L4	Loading Final (27MHz)	IP21-0491			
L5	RF Choke (3.3uH)	IP21-0486			
L6	RF Choke (10uH)	IP21-0488			
L7	RF Choke (22uH)	IP21-0498	220	9330-32	
L8	RF Choke (1uH)	IP21-0473	010	70F106A1	
L9	RF Choke (1uH)	IP21-0473	010	70F106A1	
L10	VCO/Mixer	IP21-0501	ETC147225		
L11	RF Choke (3.3uH)	IP21-0486			
L12	XMT Driver (27MHz)	IP21-0492			
L13	RF Choke (22uH)	IP21-0498	220	9330-32	
L14	RF Choke	IP21-0487	ETC1093		
L15	RF Choke (3.3uH)	IP21-0486			
L16	RF Choke (3.3uH)	IP21-0486			
L17	RF Choke (3.3uH)	IP21-0486			
L18	RF Choke (22uH)	IP21-0498	220	9330-32	
L19	PLL (3.3uH)	IP21-0487	ETC1093		
L20	RF Choke (3.3uH)	IP21-0486			
L21	RF Choke (3.3uH)	IP21-0486			
L22	RF Choke (3.3uH)	IP21-0486			
L23	RF Choke (3.3uH)	IP21-0486			
L24	RF Choke				
L25	RF Choke				
T1	Receive Antenna (27MHz)	IP21-0500	ETC20113		
T2	Rec Amp (27MHz)	IP21-0493	ETC20107	CBS759-TC	
T3	Mixer (9.8MHz)	IP21-0494	ETC15062	CBS508-1TC	
T4	IF Amp (9.8MHz)	IP21-0495	CPS1021		
T5	Oscillator (10.540MHz)	IP21-0494	ETC15062	CBS508-1TC	
T8	VCO/Mixer (27MHz)	IP21-0496	ETC15063		
T9	XMT Amp (27MHz)	IP21-0496	ETC15063		

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FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L10	2.75A	.096	1.3mH	IP21-0501	TR509		

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (MODULATION)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
TR10	1	1.4		IP21-0497			

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3 1/2" PM 8 Ohms	IP29-0032		

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
F2	3A Quick-Acting	DP36-0008		AGC3	HRK	312003	150145	FG3-2

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
DS1	LED	IP28-0052	Channel Indicator (Tens)
DS2	LED	IP28-0054	XMT Indicator
DS3	Lamp	IP28-0053	Meter
DS4	LED	IP28-0052	Channel Indicator (Ones)
FL1	Filter	IP31-0129	9.8MHz
FL2	Filter	IP31-0130	9.8MHz
FL3	Filter	IP31-0131	27MHz
J1	Plug	IP26-0053	Power
J3	Jack	IP26-0028	Antenna
J4	Jack		PA/Speaker
J5	Jack		EXT Speaker
J8	Jack	IP26-0014	Mic
K1	Relay	IP32-0017	XMT
Mic	Microphone	IP29-0021	
M1	Meter	IP27-0619	Signal/Transmit
S1	Switch	IP25-0096	LSB/USB/AM
S2	Switch	IP25-0097	CB/PA
S3	Switch	IP25-0098	NB, On/Off
S8	Switch	IP25-0095	Channel Select
S10	Switch	IP25-0098	ANL/Off
Y1	Crystal	IP31-0124	10.240MHz
Y2	Crystal	IP31-0125	10.2415MHz
Y3	Crystal	IP31-0126	10.23815MHz
Y4	Crystal	IP31-0127	9.7825MHz
Y5	Crystal	IP31-0128	9.7875MHz

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

ITEM	PART No.	ITEM	PART No.
Cover, Top	IP30-0656	Knob, Channel	IP30-0648
Cover, Bottom	IP30-0657	Knob, Volume/Squelch/Clarifier	IP30-0650
Front	IP30-0652		



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 STALKER XX

MANUFACTURER'S SPECIFICATIONS

Specifications (Nominal)

Power Source 117V AC/13.8V DC
Size 15" x 11½" x 4¾"

Receiver Section

Sensitivity (AM/SSB) 0.5/0.25 µV
Squelch Threshold (AM/SSB) 0.5/0.5 µV
Squelch Deepest Point 1000 µV
"S" Meter S-9 100 µV
Clarifier ± 1.25 KHz
Maximum AF Output Power 4.0 W
AF Output Power/10% Distortion 3.0 W
Selectivity BW @ 6 dB Down ± 4 KHz
Adjacent Channel Rejection - 60 dB
Image Rejection - 75 dB
Speaker Impedance 8 Ohm

Transmitter Section

Modulation (Peak) 100%
Power Output (AM/SSB) 4/12 W
Emission Type AM 6A3
Emission Type SSB 3A3J
Hum and Noise (Better than) - 60 dB
Frequency Tolerance 0.005%
Antenna Impedance 50 Ohm
Frequency Determining Method PLL

Public Address

Output Power @ 10% Distortion 3.0 W

Features

40-Channels
4 Watts AM Output Power
12 Watts (PEP) SSB Output Power
Completely Solid State
Phase Lock Loop Circuitry
Digital Channel Indicator
Channel 9 Scan
Built-in SWR Meter
"S"/RF Meter
Modulation Meter
ANL/NB Switch
Digital Clock & Clock Alarm
RF Gain Control
Tone Control
Mike Gain
Front Panel Phone Jack
Mode Switch
Clarifier
Modulation Indicator
TX, RX & Mode Indicators
Automatic Modulation Circuit
Detachable Dynamic Microphone
Positive/Negative Ground
Public Address Function
External Speaker Jack
Plug-in DC Power Cord
ONE-YEAR FULL WARRANTY

TEABERRY MODEL Stalker XX

Courtesy of the Manufacturer

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

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80CF1094

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 RT301 for 13.80 volts at TP15.
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:

L1 thru L10, L13, L14, L17 thru L20, L26 thru L29 ...	9440
L36, L39	8728, 8728A, 9304
CT1, CT2, CT3	5000, 8276, 9089

GC ELECTRONICS:

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of frequency counter to TP12 (IC2 Pin 8).	Ch. 19, AM		Check for 10.240MHz.
Input of oscilloscope to TP16 (L18 Secondary).	Ch. 19, AM Clarifier Midrange	L18	Adjust for maximum RF (200mV typical). (See Figure 1.)
Input of DC meter to TP9 (IC1 Pin 5).	Ch. 40, AM	L13	Adjust for 3.50 volts. Check for approx. 2.40 volts on channel 1.
Input of oscilloscope to TP1 (L14 Secondary).	Ch. 19, USB	L14	Adjust for maximum RF (1.4 volts typical). (See Figure 2.)
Input of frequency counter to TP1 (L14 Secondary).	Ch. 19, USB Clarifier Midrange	CT3	Adjust for 34.9875MHz +20Hz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP1 (L14 Secondary).	Ch. 19, LSB Clarifier Midrange	L19	Adjust for 34.9825MHz +20Hz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP1 (L14 Secondary).	Ch. 19, AM Clarifier Midrange	L20	Adjust for 34.9850MHz +20Hz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP1 (L14 Secondary).	Ch. 19, SMT, LSB	VR3	Adjust for 34.9825MHz +20Hz.
Input of frequency counter to TP10 (Junction of L12 and C68).	Ch. 1, USB		Check for 1.430MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP3 (TR13 Base).	Ch. 19, USB	CT1	Adjust for 7.8025MHz +5Hz or -0Hz.
Input of frequency counter to TP3 (TR13 Base).	Ch. 19, LSB	CT2	Adjust for 7.7975MHz +0Hz or -5Hz.
Input of frequency counter to TP3 (TR13 Base). Disconnect TP7 and TP8 (at Final Amp TR41).	Ch. 19, XMT, AM	L17	Adjust for 7.8000MHz +5Hz.

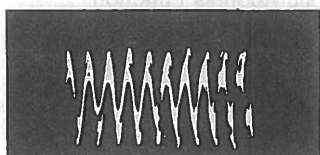


Figure 1

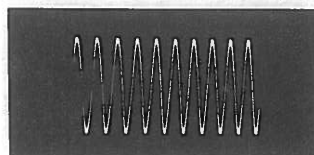


Figure 2

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.
Mode AM, RF Gain Maximum, Squelch MINIMUM, Clarifier Midrange, ANL/NB Off, Scan Off.

AM

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP13 (TR10 Collector). 7.8MHz, 1000Hz @ 30% modulation.	Ch. 19	L , L4	Adjust for maximum output.
Output of signal generator to antenna input. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	L5, L6, L7 L8, L9, L10	Adjust for maximum output. If necessary readjust L3 and L4 for maximum.
Output of signal generator to antenna input. Input of oscilloscope to TP14 (TR6 Emitter). Inject a 100pps, 1uSec pulse width signal at antenna input.	Ch. 19 ANL/NB On	L1, L2	Adjust for maximum amplitude pulses (3.2 volts typical). (See Figure 3.)

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
Mode AM, RF Gain Maximum, Squelch MINIMUM, Clarifier Midrange, ANL/NB Off, Scan Off.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 1000uV.	Ch. 19 Squelch Maximum	VR502	SQUELCH RANGE Adjust so that squelch just breaks.
Output of signal generator to antenna input. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19 S/R/MOD S/R/F	VR1	SIG METER Adjust for 9 on sig scale of meter.
Output of signal generator to antenna input. 27.065MHz, 1000Hz @ 30% modulation. Output 1000uV.	Ch. 19 HOLD/SCAN/OFF SCAN	VR501	SCAN SENSITIVITY Adjust till scanning stops.

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.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of RF wattmeter and 50-ohm, 25 watt dummy load to antenna input. Inject a two tone 50mV signal at Mic input.	Ch. 19, USB Mike Gain Maximum	L26, L27, L28, L29, L36	Set VR7 to MINIMUM. Adjust for maximum RF output.
Input of spectrum analyzer or harmonic meter to antenna input.	Ch. 19, AM Mike Gain MINIMUM	L39	Adjust for MINIMUM at 54MHz (2nd harmonic).

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
Input of oscilloscope or modulation meter to antenna input.	Ch. 19, AM S/RF/MOD MOD	VR12	MOD METER Adjust so that MOD meter agrees with external modulation meter.
Insert a 0-150mA DC current meter at TP8. No modulation.	Ch. 19, USB Mike Gain MINIMUM	VR8	RF DRIVER BIAS Adjust for 30mA idle current. Reconnect TP8.
Insert a 0-150mA DC current meter at TP7. No modulation.	Ch. 19, USB Mike Gain MINIMUM	VR9	RF FINAL BIAS Adjust for 50mA idle current. Reconnect TP7.
Input of RF wattmeter and 50-ohm, 25 watt dummy load to antenna input. No modulation.	Ch. 19, USB Mike Gain MINIMUM	VR5	CARRIER BALANCE Adjust for MINIMUM RF output. Check LSB and readjust if necessary for MINIMUM RF output.
Input of RF wattmeter and 50-ohm, 25 watt dummy load to antenna input. Inject a two tone, 50mV signal at Mic input.	Ch. 19, USB Mike Gain Maximum	VR7	RF ALC Adjust for 11.0 watts PEP RF output maximum.
Input of RF wattmeter and 50-ohm, 25 watt dummy load to antenna input. No modulation.	Ch. 19, AM Mike Gain MINIMUM	VR6	AM POWER Adjust for 4.0 watts RF output maximum.
Input of RF wattmeter and 50-ohm, 25 watt dummy load to antenna input. No modulation.	Ch. 19, AM Mike Gain MINIMUM S/RF/MOD S/RF	VR10	RF PWR METER Adjust so that PWR meter agrees with RF wattmeter.
Input of oscilloscope or modulation meter to antenna input. Inject a 1000Hz, 10mV signal at Mic input.	Ch. 19, AM XMT	VR11	AMC Adjust for 95% modulation maximum. (See Figure 4.)

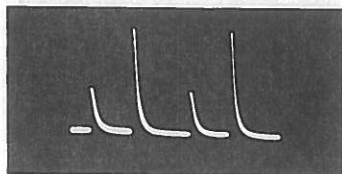


Figure 3

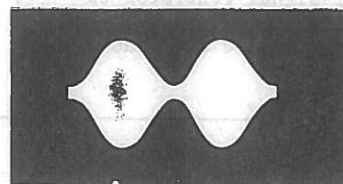
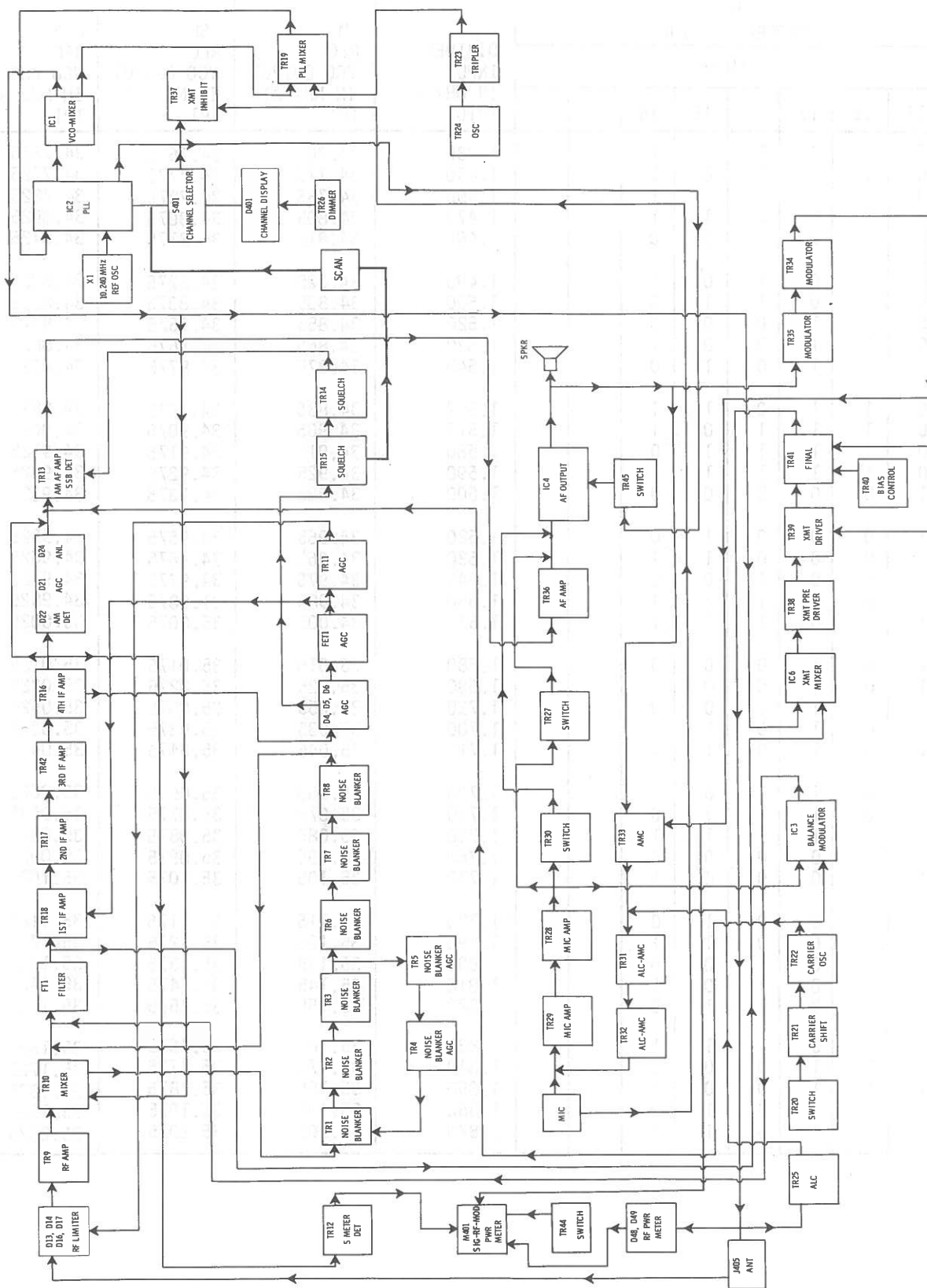


Figure 4

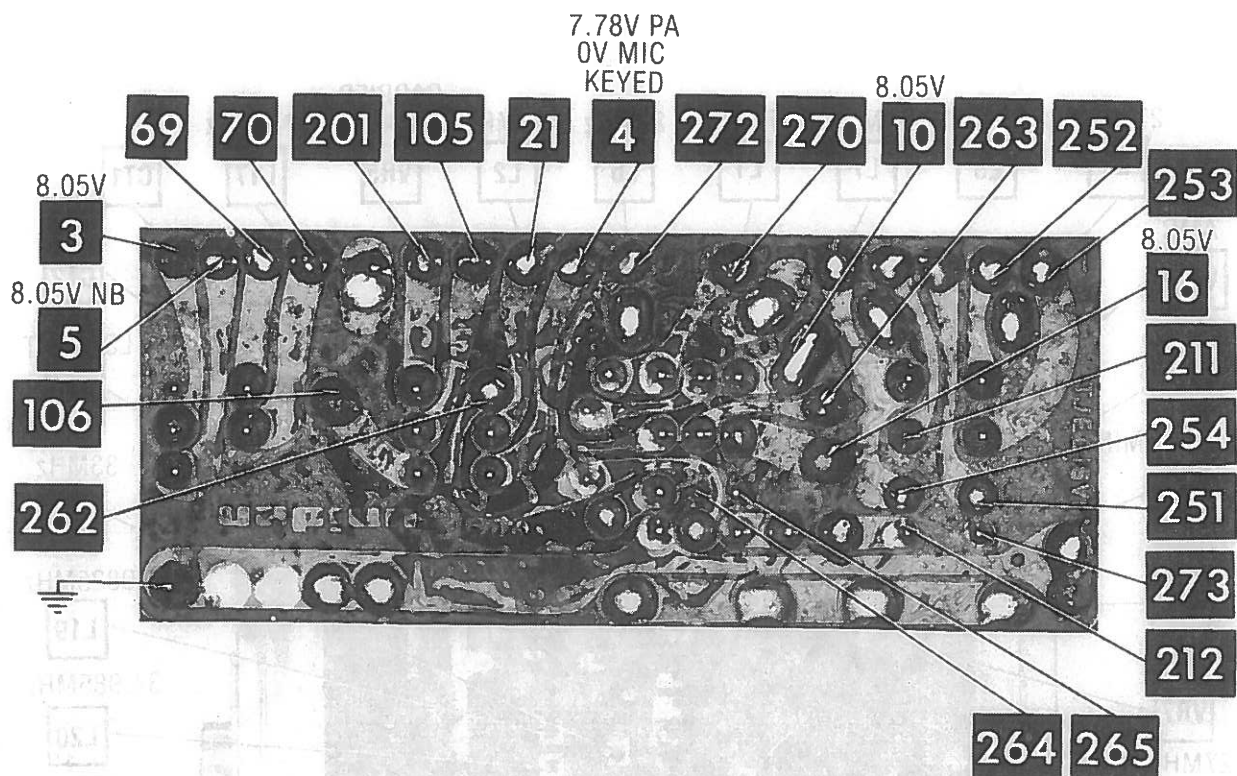
TRUTH CHART

C H A N N E L	1 = 6.67 Volts 0 = 0 Volts								DIVIDER INPUT IN MHz AT TP10	AM REC VCO OUTPUT IN MHz AT TP1	USB REC VCO OUTPUT IN MHz AT TP1	LSB REC VCO OUTPUT IN MHz AT TP1
	IC2 PROGRAM DIVIDER											
	PINS											
	11	12	13	14	15	16						
1	0	0	1	1	1	1			1.430	34.765	34.7675	34.7625
2	0	1	0	0	0	0			1.440	34.775	34.7775	34.7725
3	0	1	0	0	0	1			1.450	34.785	34.7875	34.7825
4	0	1	0	0	1	1			1.470	34.805	34.8075	34.8025
5	0	1	0	1	0	0			1.480	34.815	34.8175	34.8125
6	0	1	0	1	0	1			1.490	34.825	34.8275	34.8225
7	0	1	0	1	1	0			1.500	34.835	34.8375	34.8325
8	0	1	1	0	0	0			1.520	34.855	34.8575	34.8525
9	0	1	1	0	0	1			1.530	34.865	34.8675	34.8625
10	0	1	1	0	1	0			1.540	34.875	34.8775	34.8725
11	0	1	1	0	1	1			1.550	34.885	34.8875	34.8825
12	0	1	1	1	0	1			1.570	34.905	34.9075	34.9025
13	0	1	1	1	1	0			1.580	34.915	34.9175	34.9125
14	0	1	1	1	1	1			1.590	34.925	34.9275	34.9225
15	1	0	0	0	0	0			1.600	34.935	34.9375	34.9325
16	1	0	0	0	1	0			1.620	34.955	34.9575	34.9525
17	1	0	0	0	1	1			1.630	34.965	34.9675	34.9625
18	1	0	0	1	0	0			1.640	34.975	34.9775	34.9725
19	1	0	0	1	0	1			1.650	34.985	34.9875	34.9825
20	1	0	0	1	1	1			1.670	34.005	35.0075	35.0025
21	1	0	1	0	0	0			1.680	35.015	35.0175	35.0125
22	1	0	1	0	0	1			1.690	35.025	35.0275	35.0225
23	1	0	1	1	0	0			1.720	35.055	35.0575	35.0525
24	1	0	1	0	1	0			1.700	35.035	35.0375	35.0325
25	1	0	1	0	1	1			1.710	35.045	35.0475	35.0425
26	1	0	1	1	0	1			1.730	35.065	35.0675	35.0625
27	1	0	1	1	1	0			1.740	35.075	35.0775	35.0725
28	1	0	1	1	1	1			1.750	35.085	35.0875	35.0825
29	1	1	0	0	0	0			1.760	35.095	35.0975	35.0925
30	1	1	0	0	0	1			1.770	35.105	35.1075	35.1025
31	1	1	0	0	1	0			1.780	35.115	35.1175	35.1125
32	1	1	0	0	1	1			1.790	35.125	35.1275	35.1225
33	1	1	0	1	0	0			1.800	35.135	35.1375	35.1325
34	1	1	0	1	0	1			1.810	35.145	35.1475	35.1425
35	1	1	0	1	1	0			1.820	35.155	35.1575	35.1525
36	1	1	0	1	1	1			1.830	35.165	35.1675	35.1625
37	1	1	1	0	0	0			1.840	35.175	35.1775	35.1725
38	1	1	1	0	0	1			1.850	35.185	35.1875	35.1825
39	1	1	1	0	1	0			1.860	35.195	35.1975	35.1925
40	1	1	1	0	1	1			1.870	35.205	35.2075	35.2025

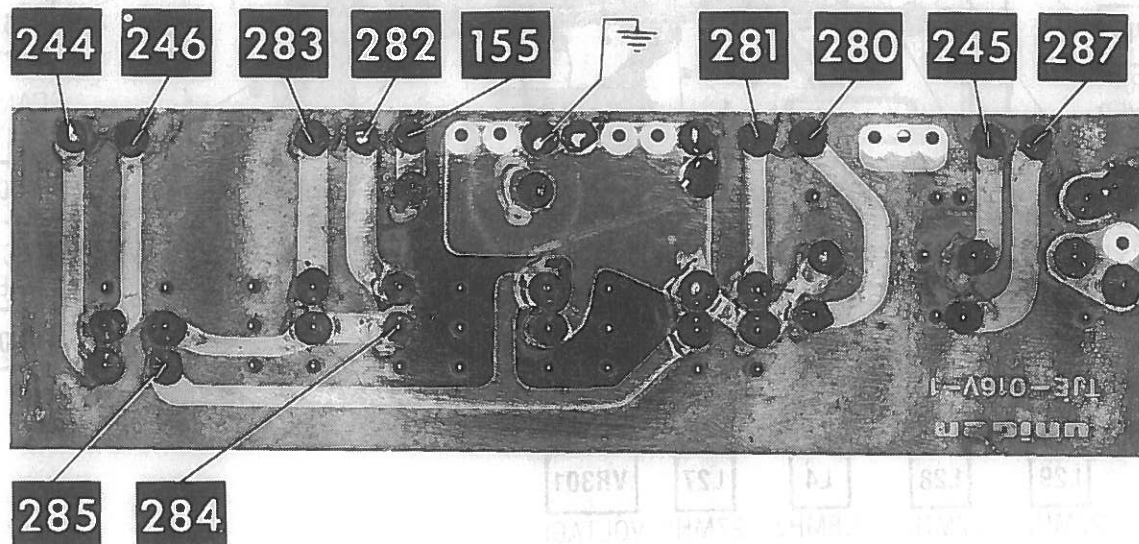
TEABERRY MODEL Stalker XX



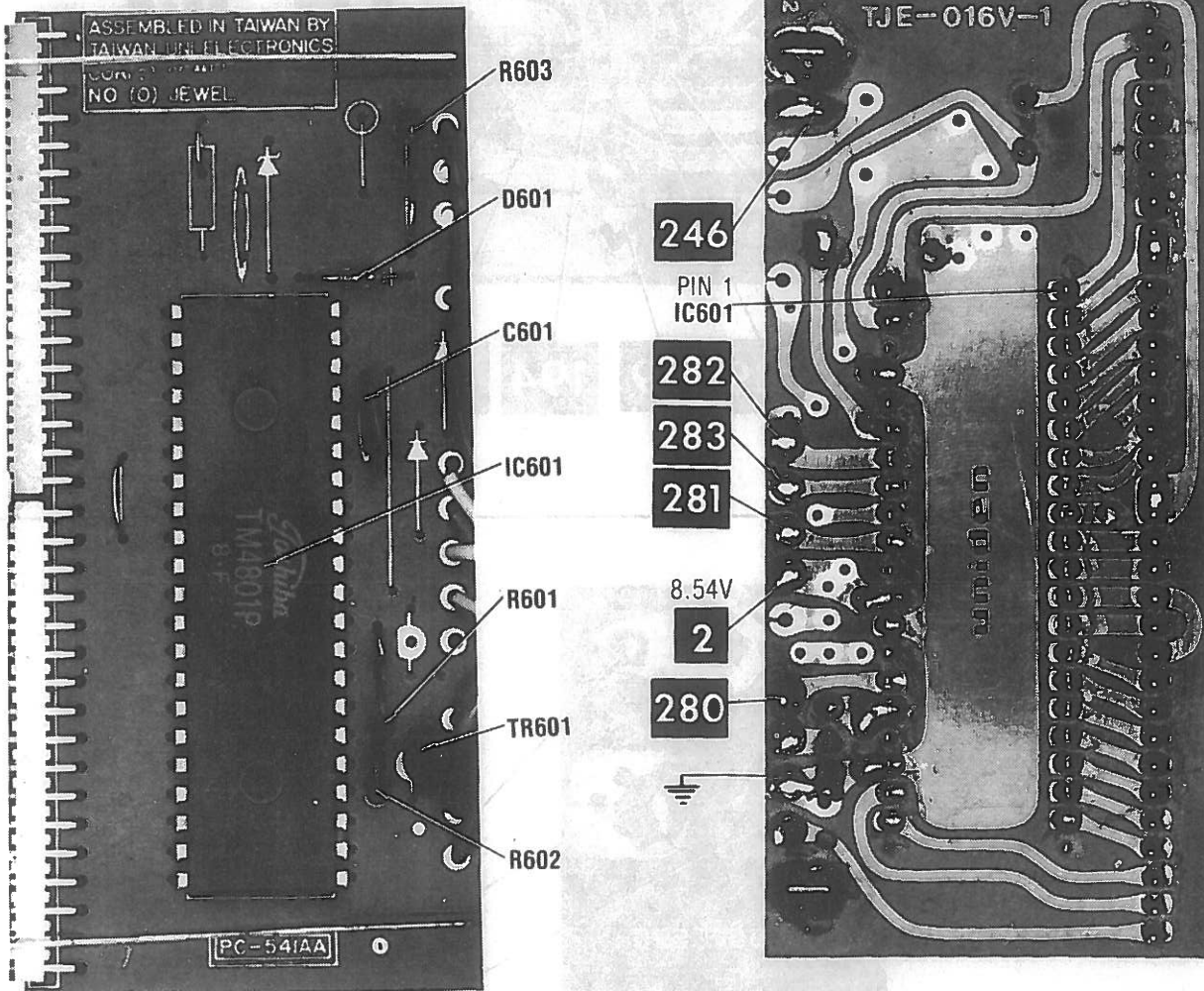
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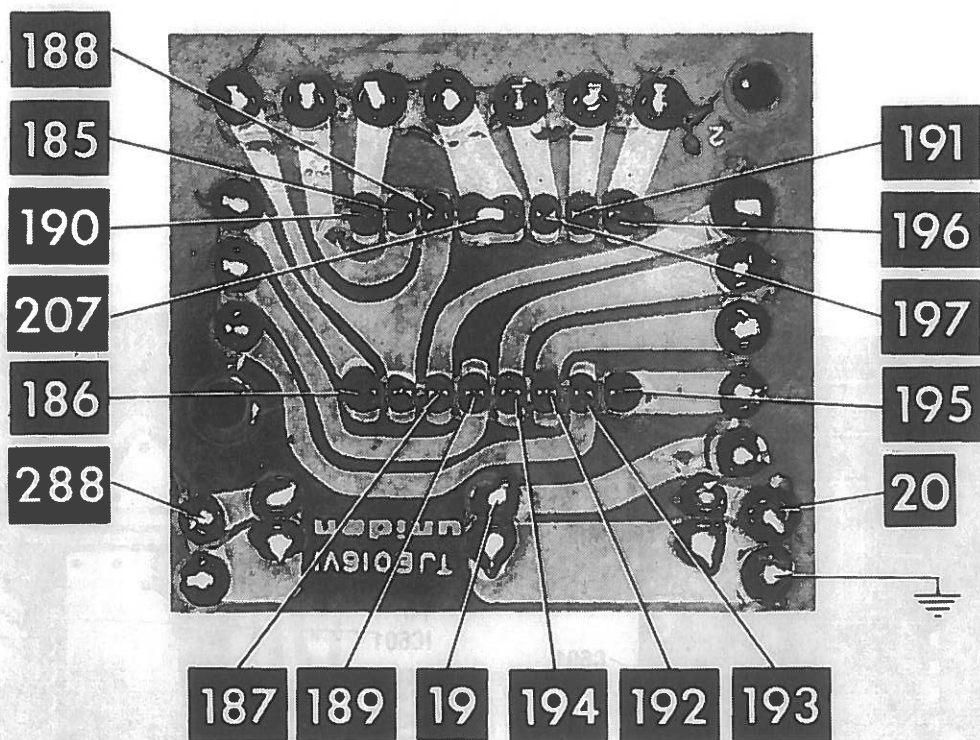
FUNCTION SWITCH BOARD



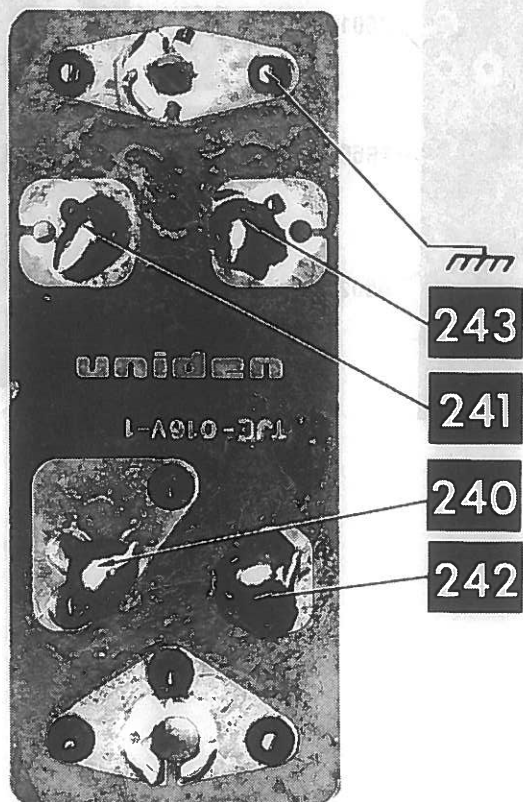
MODE SWITCH BOARD



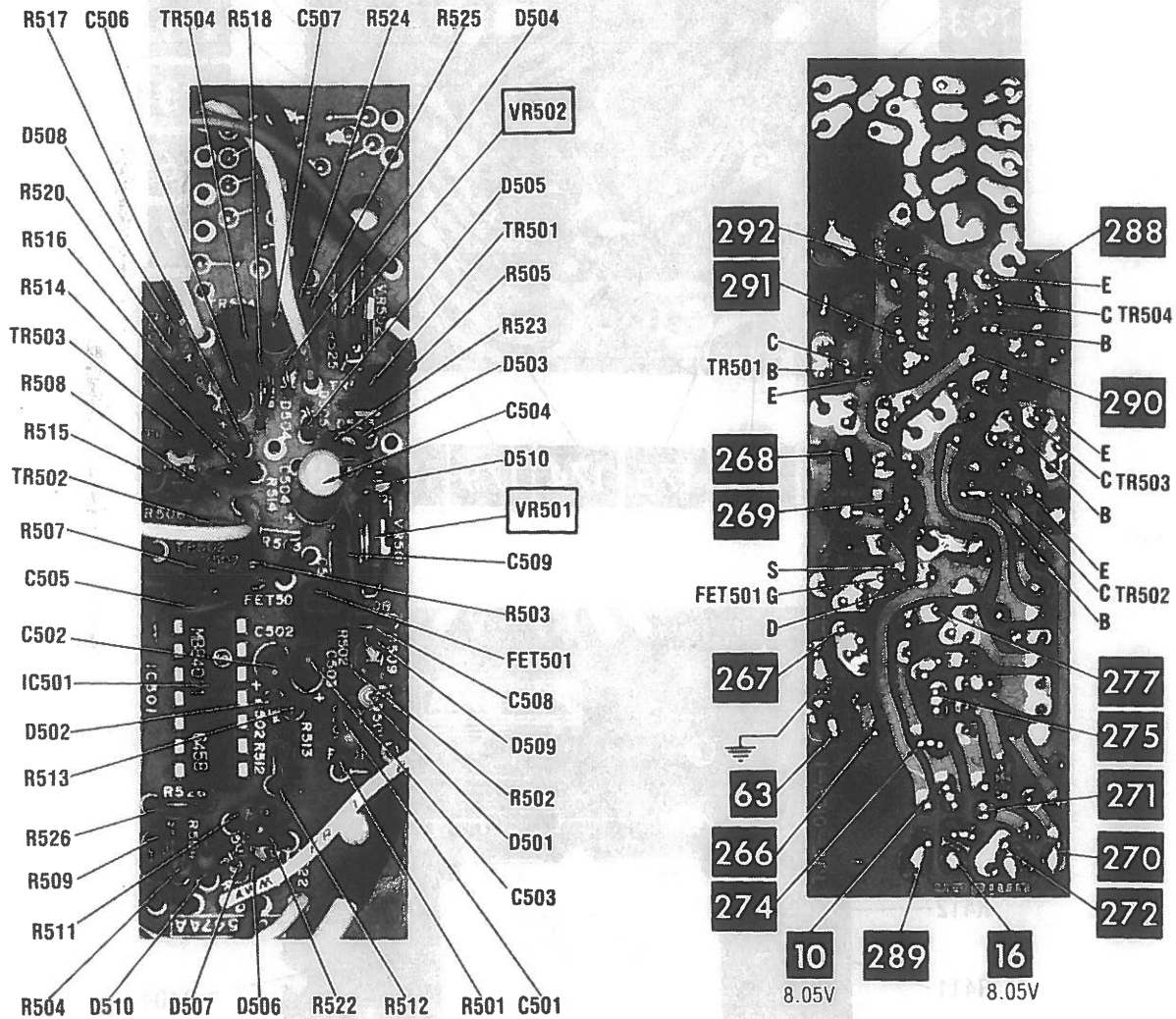
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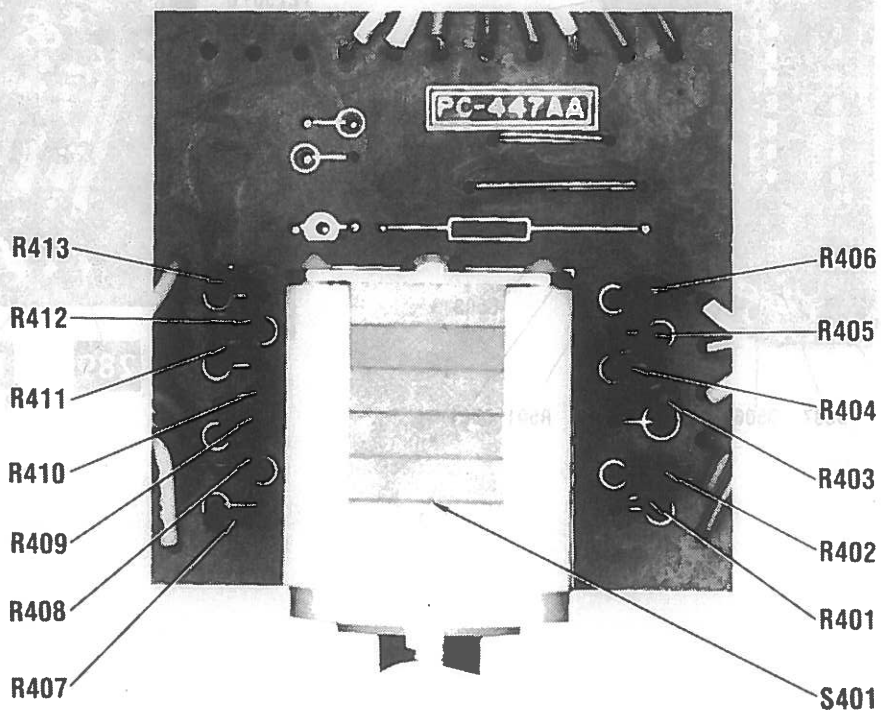
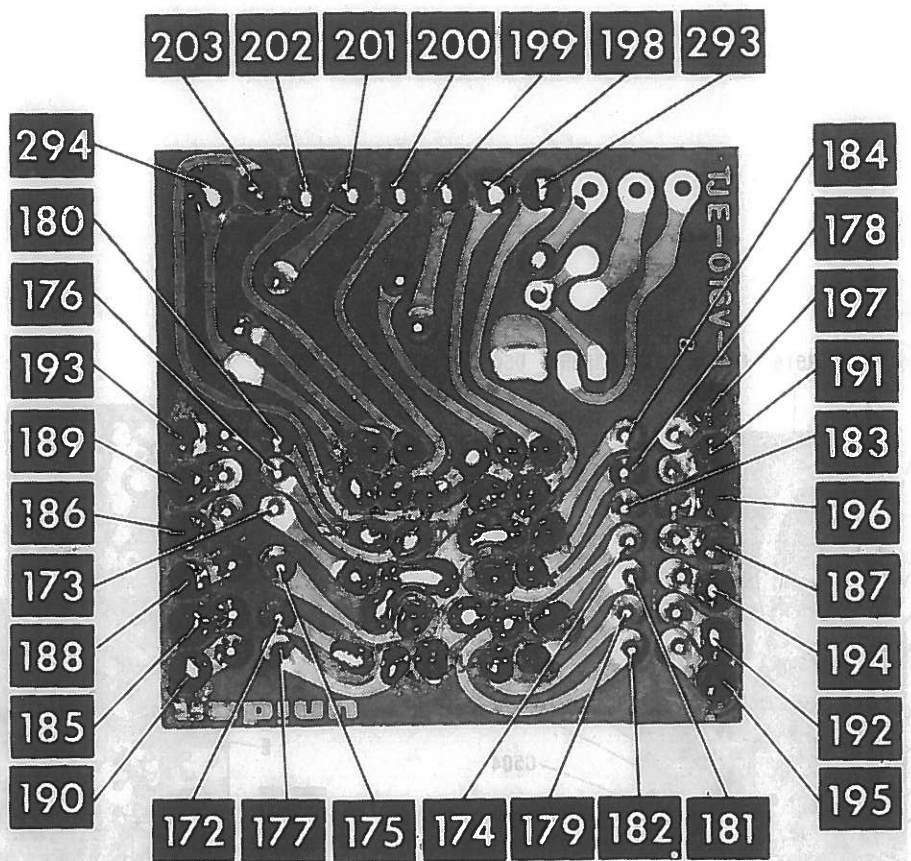


LED BOARD

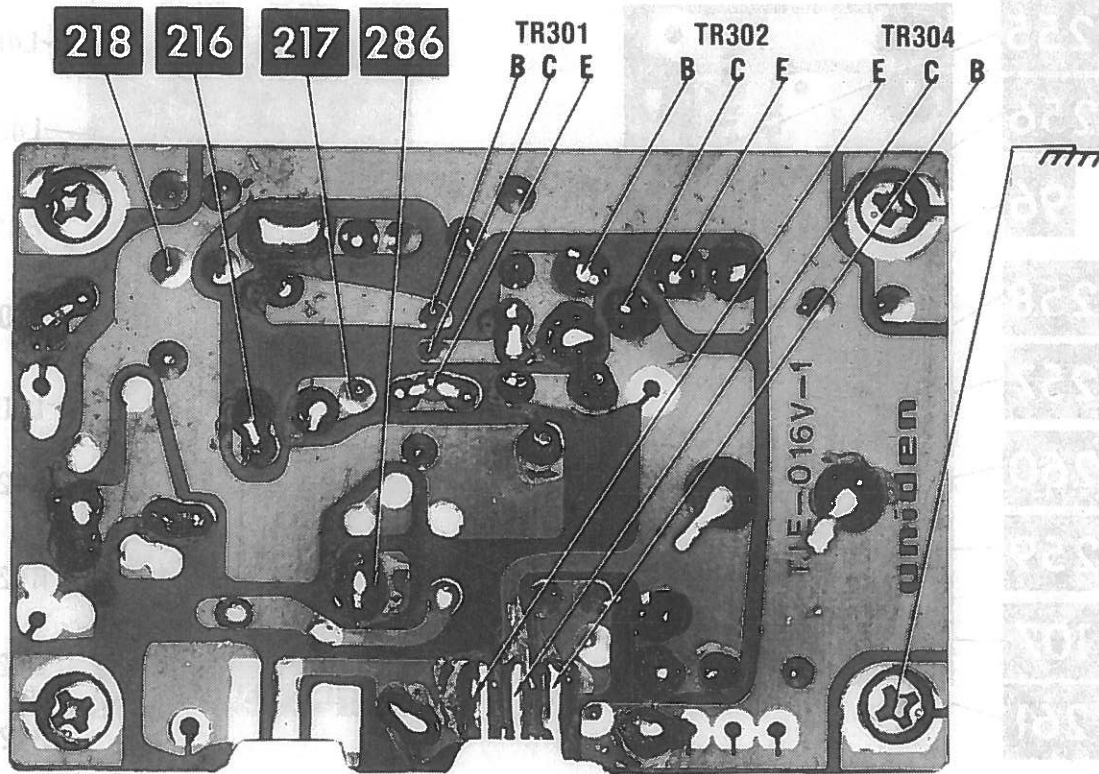


POWER FILTER BOARD

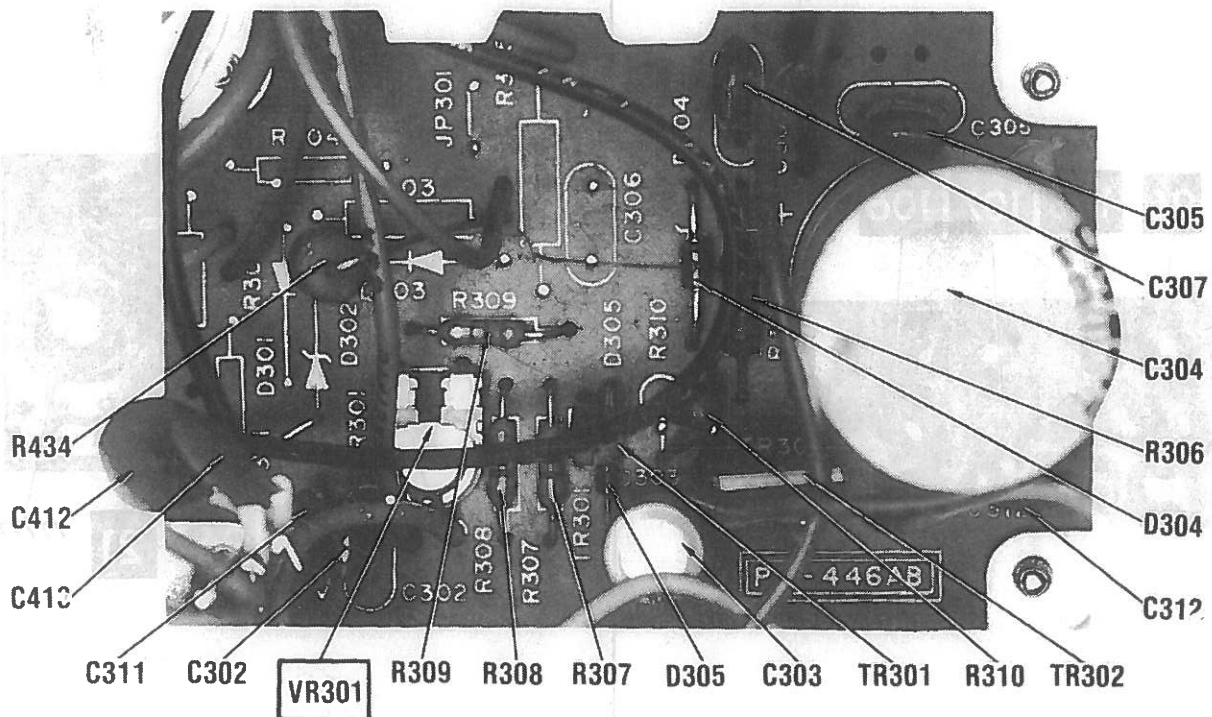




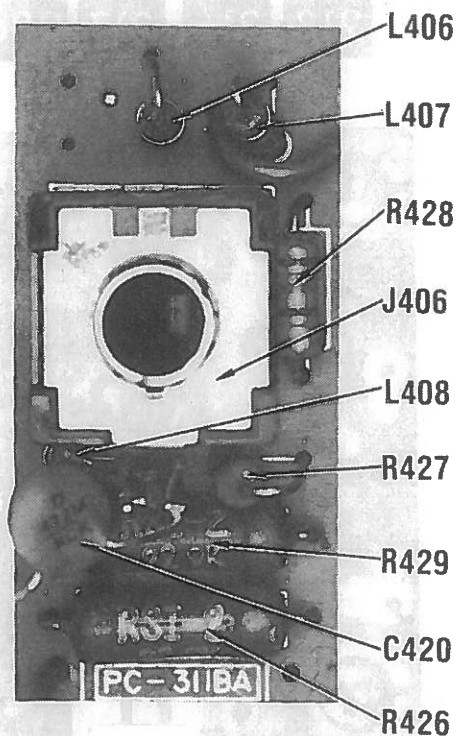
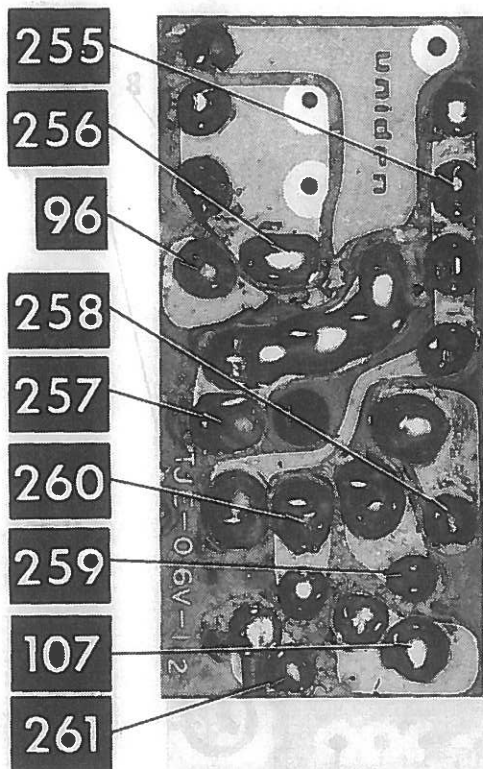
CHANNEL SELECTOR BOARD



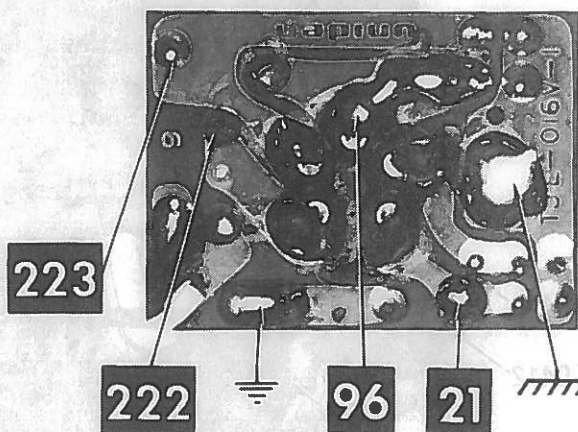
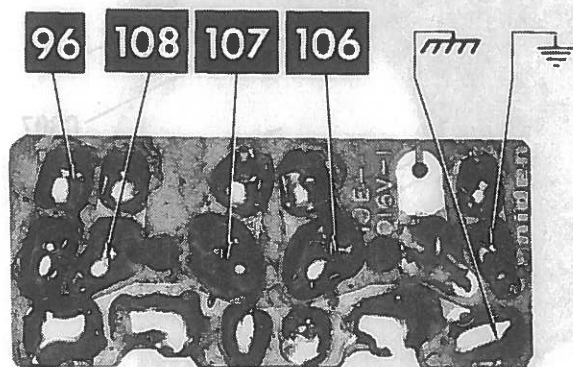
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POWER SUPPLY BOARD

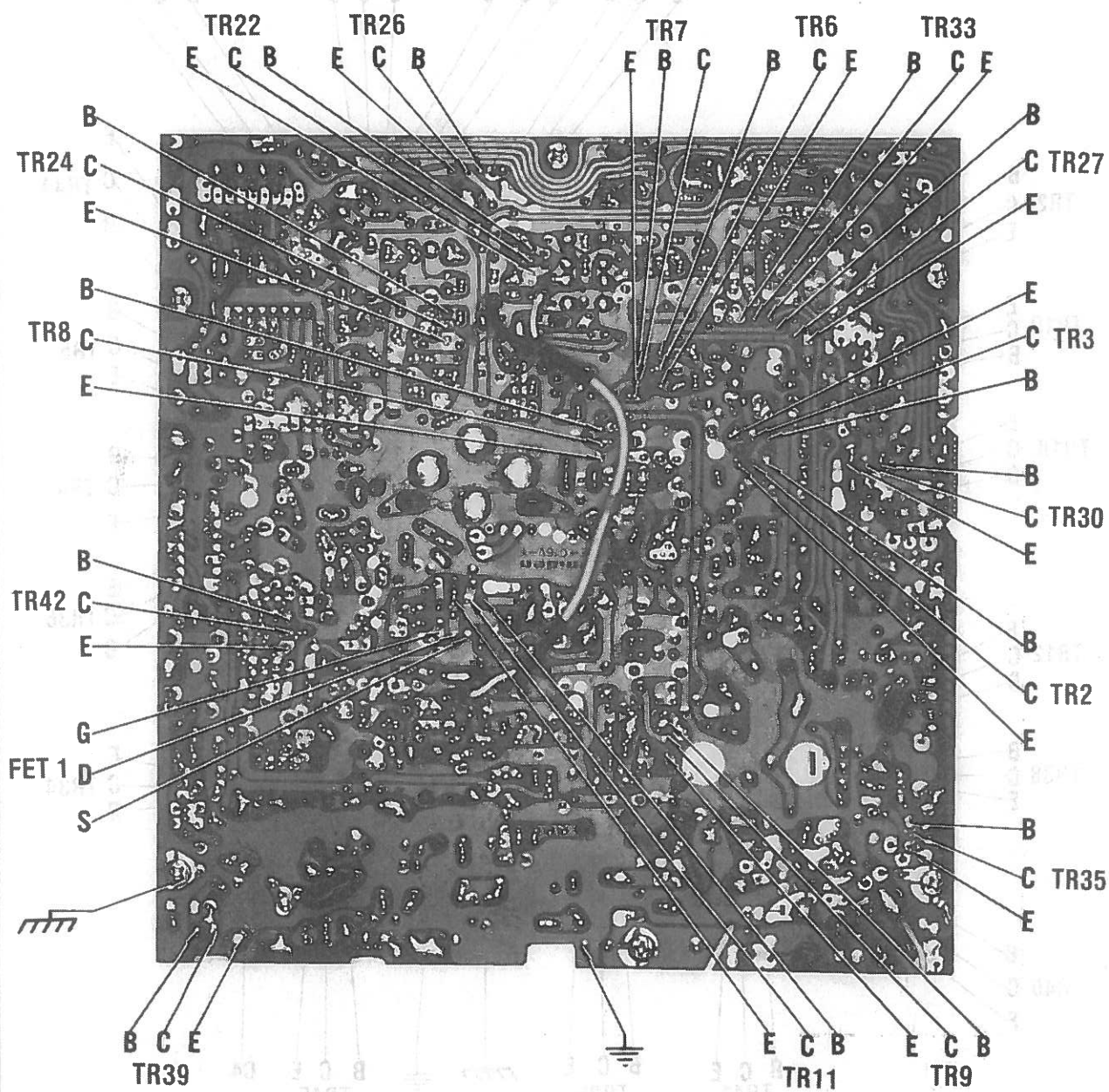


PHONE JACK BOARD

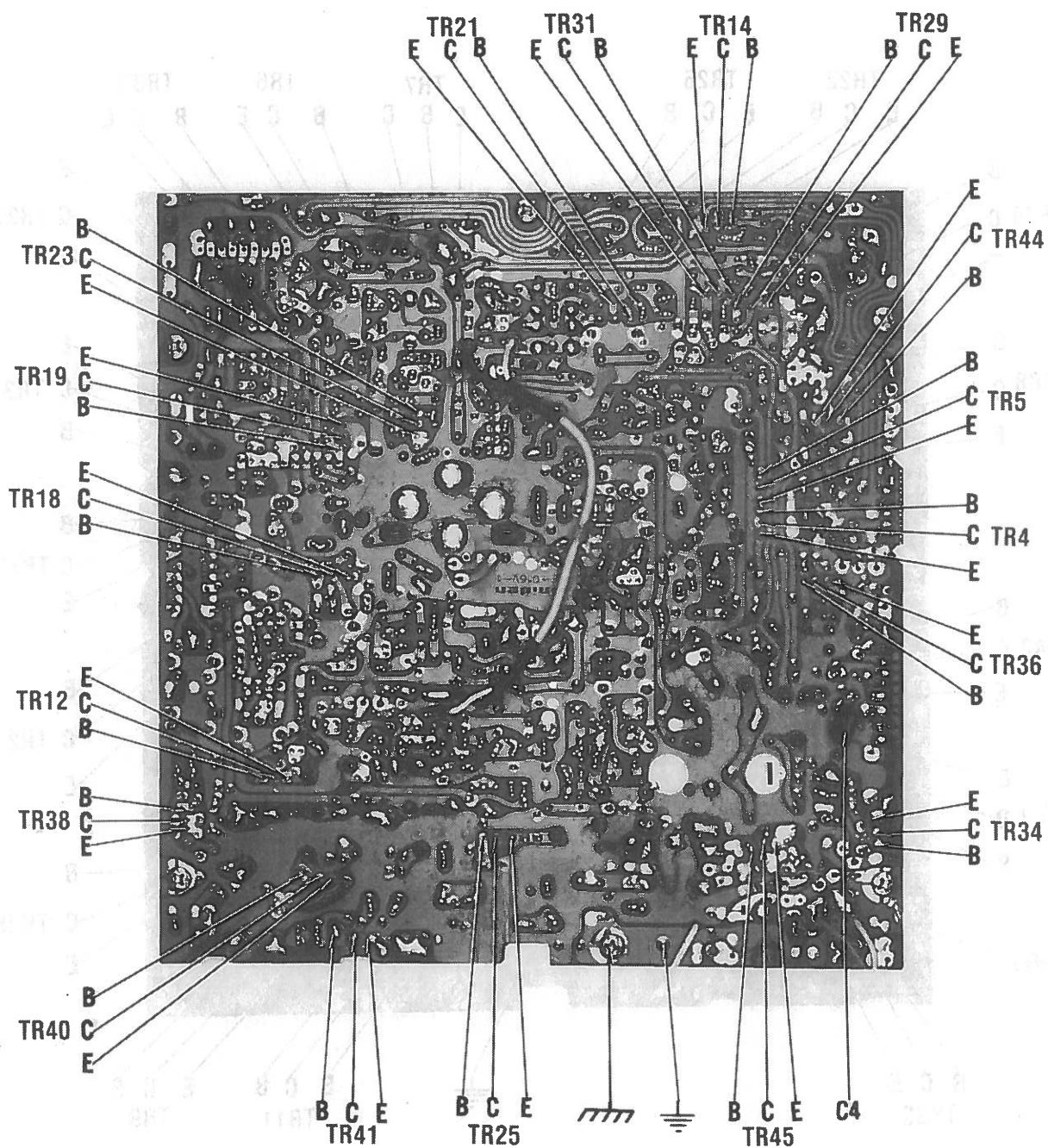


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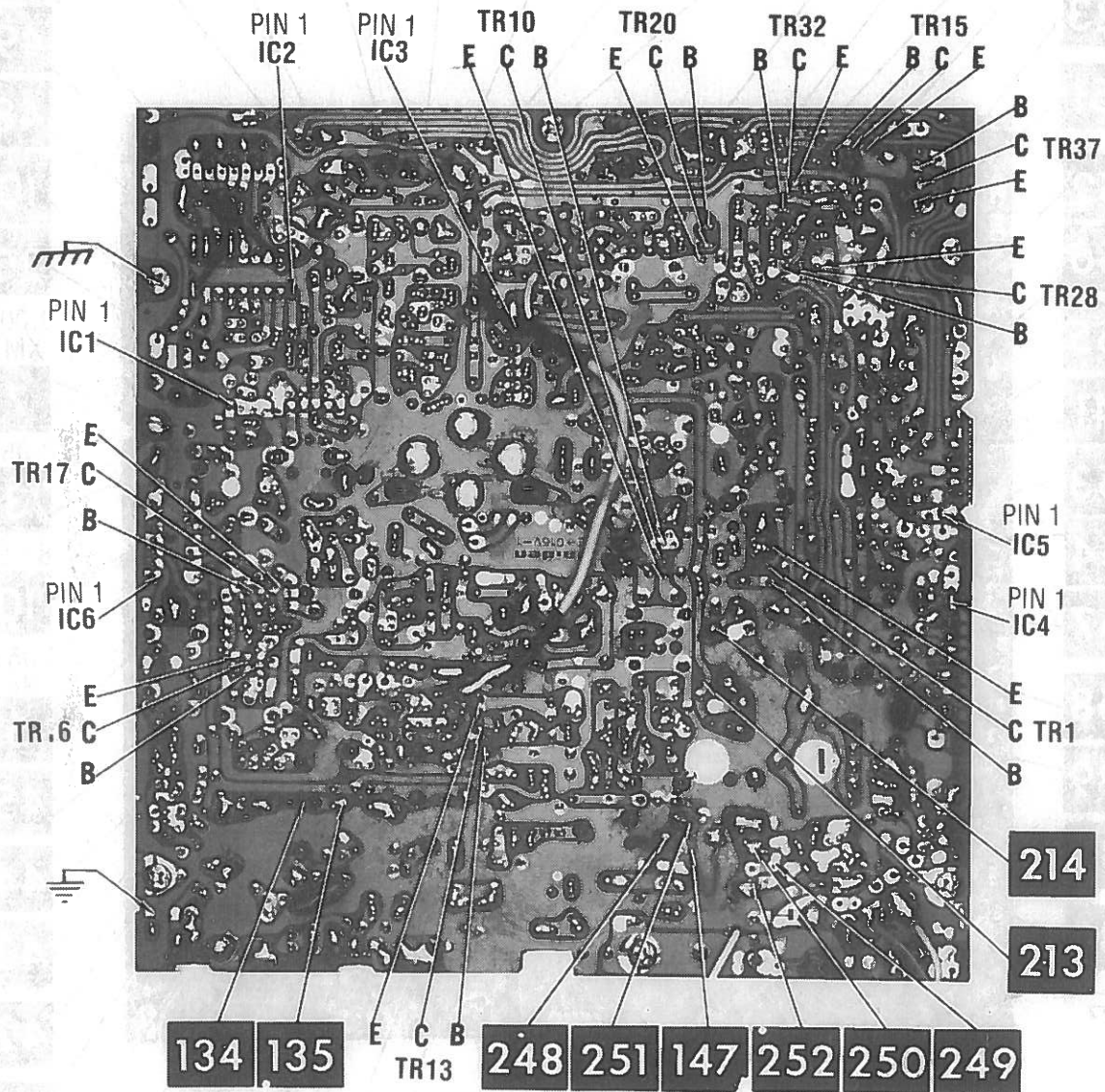
MIC JACK BOARD



MAIN BOARD

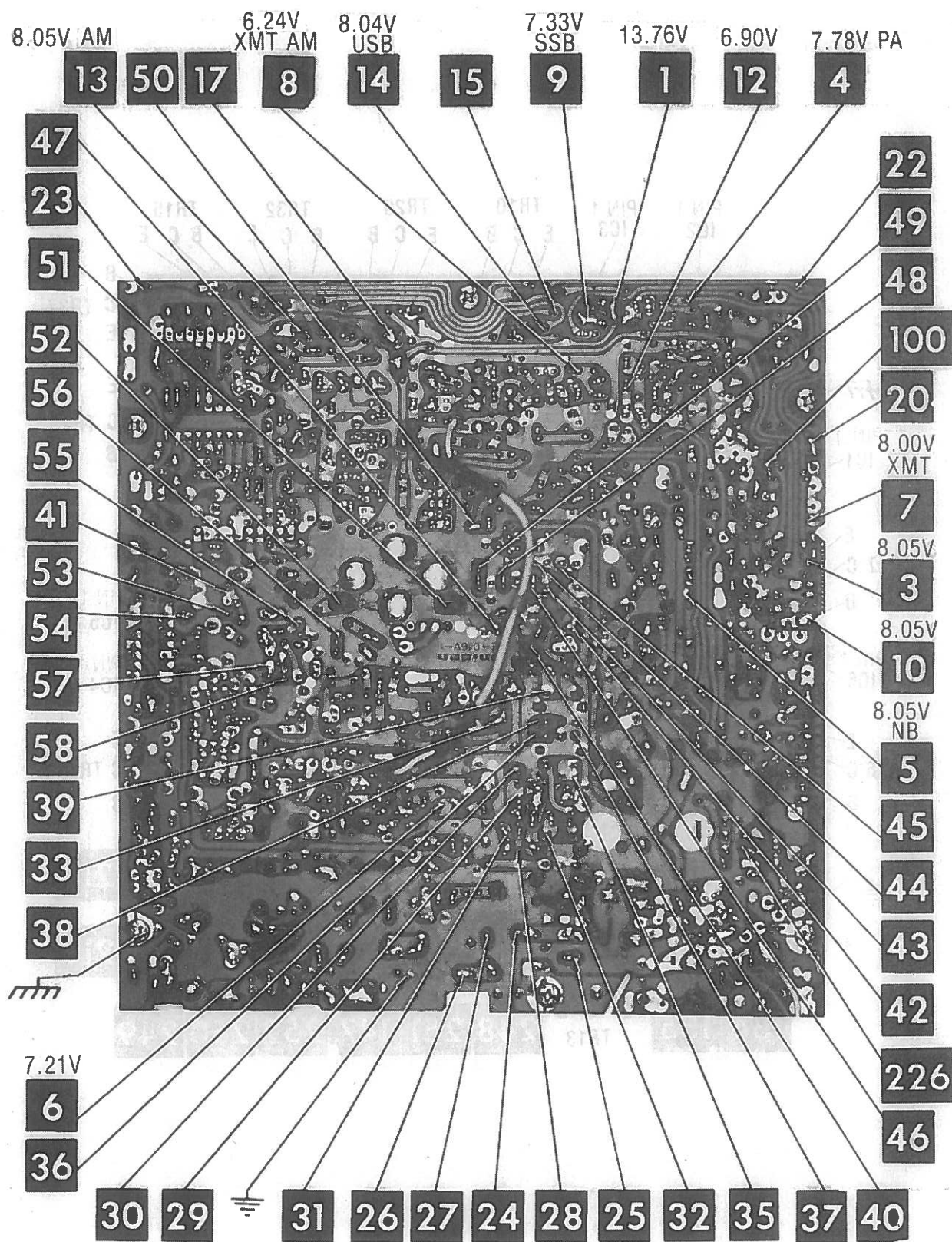


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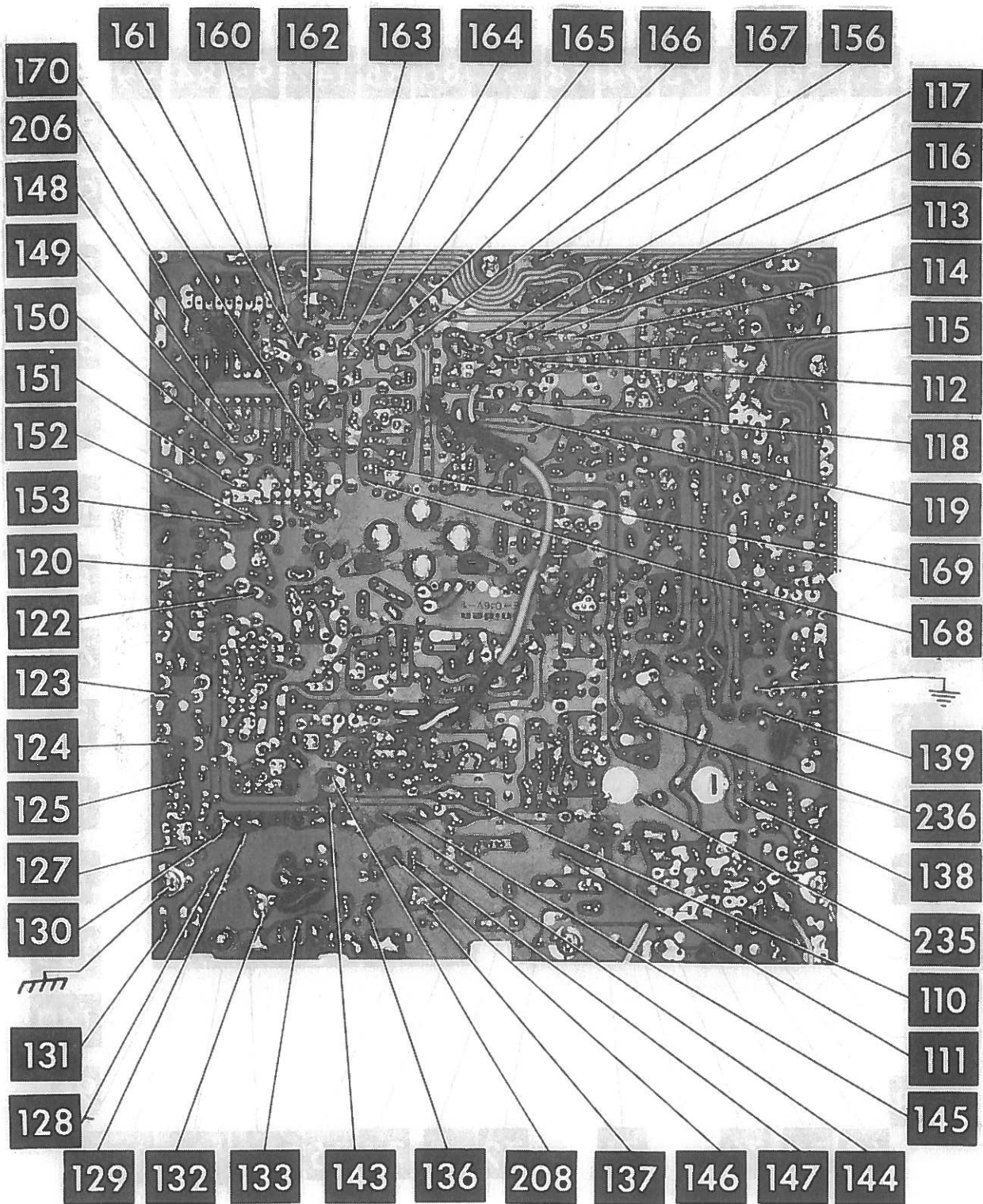
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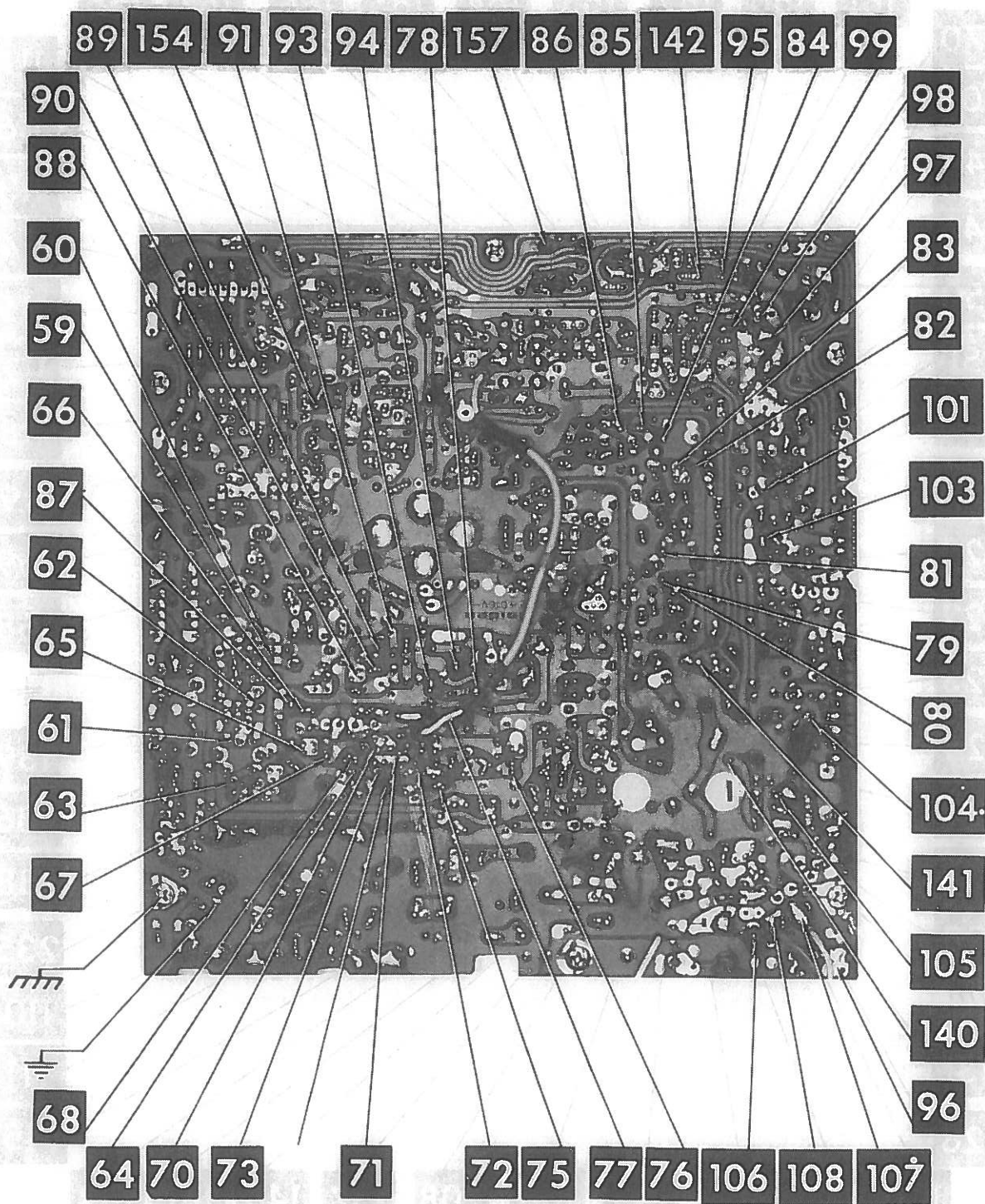


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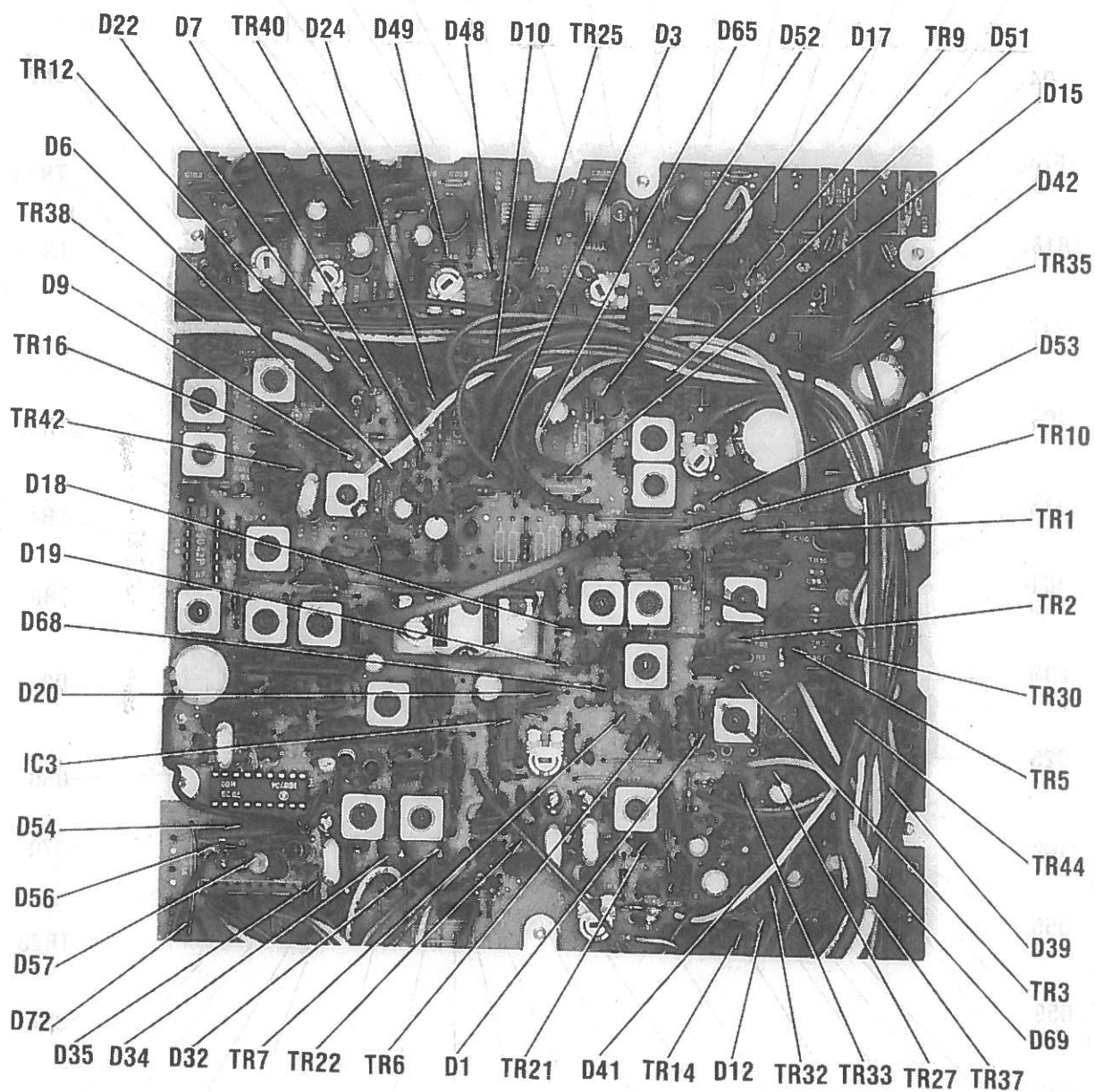
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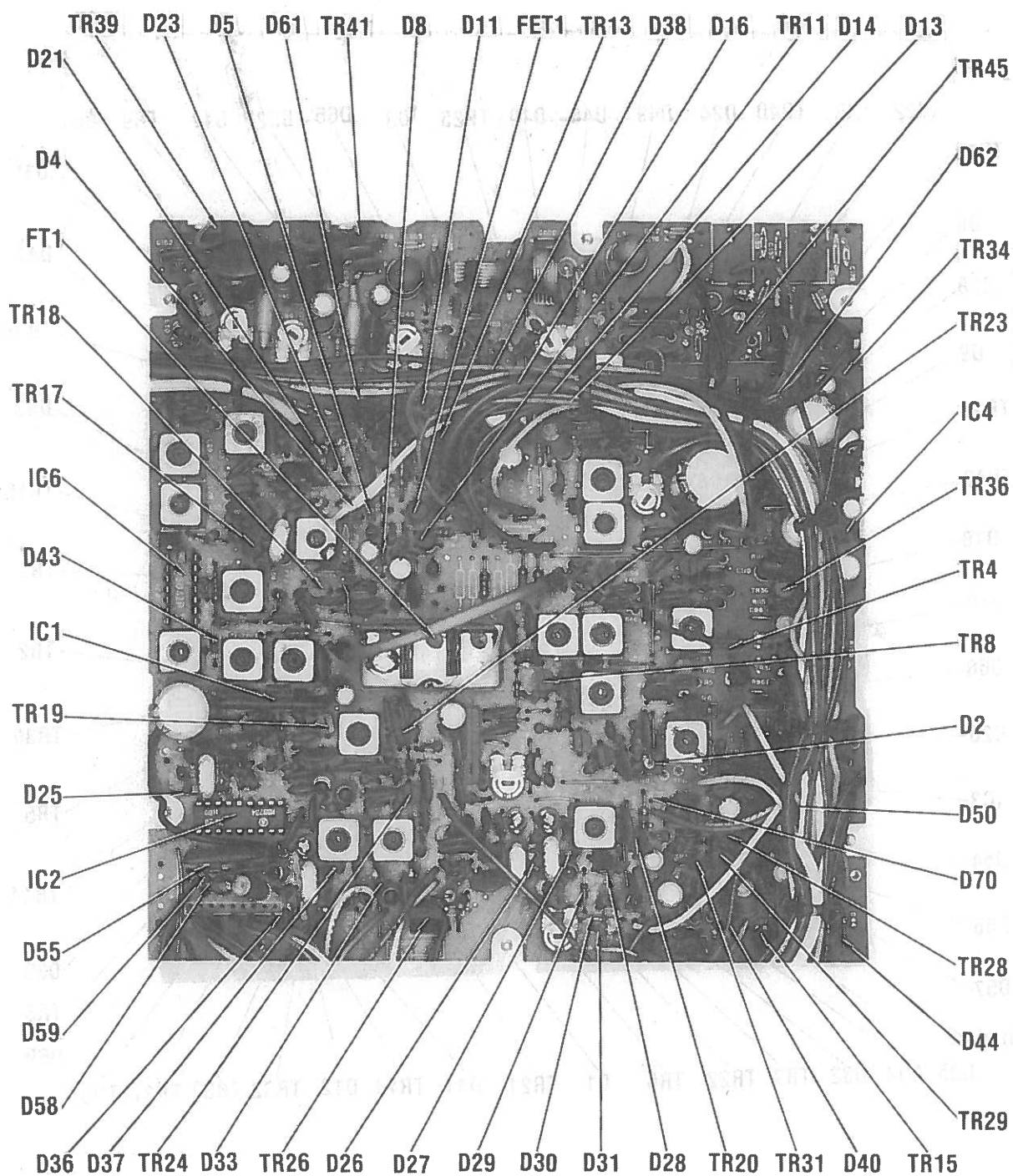
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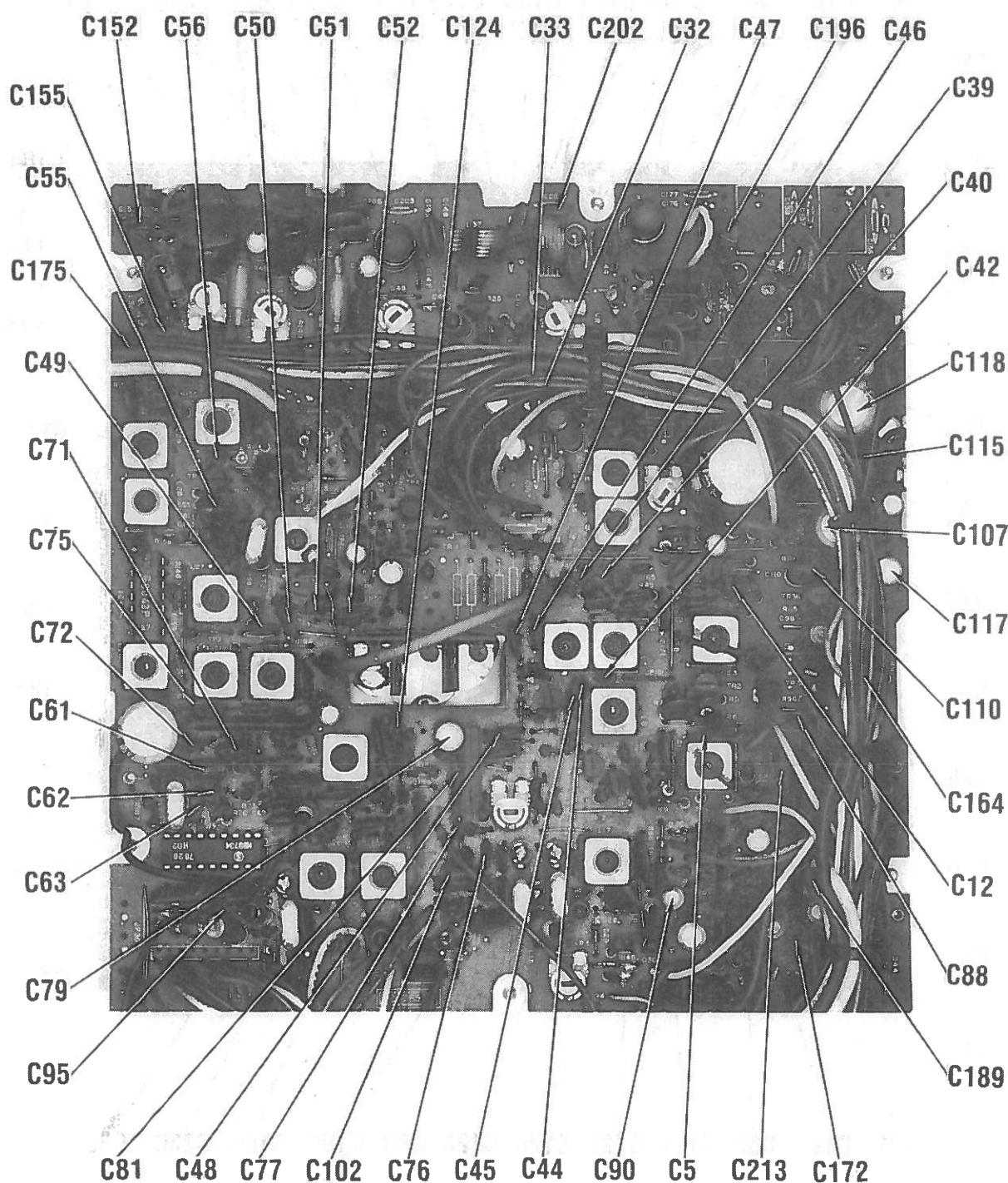
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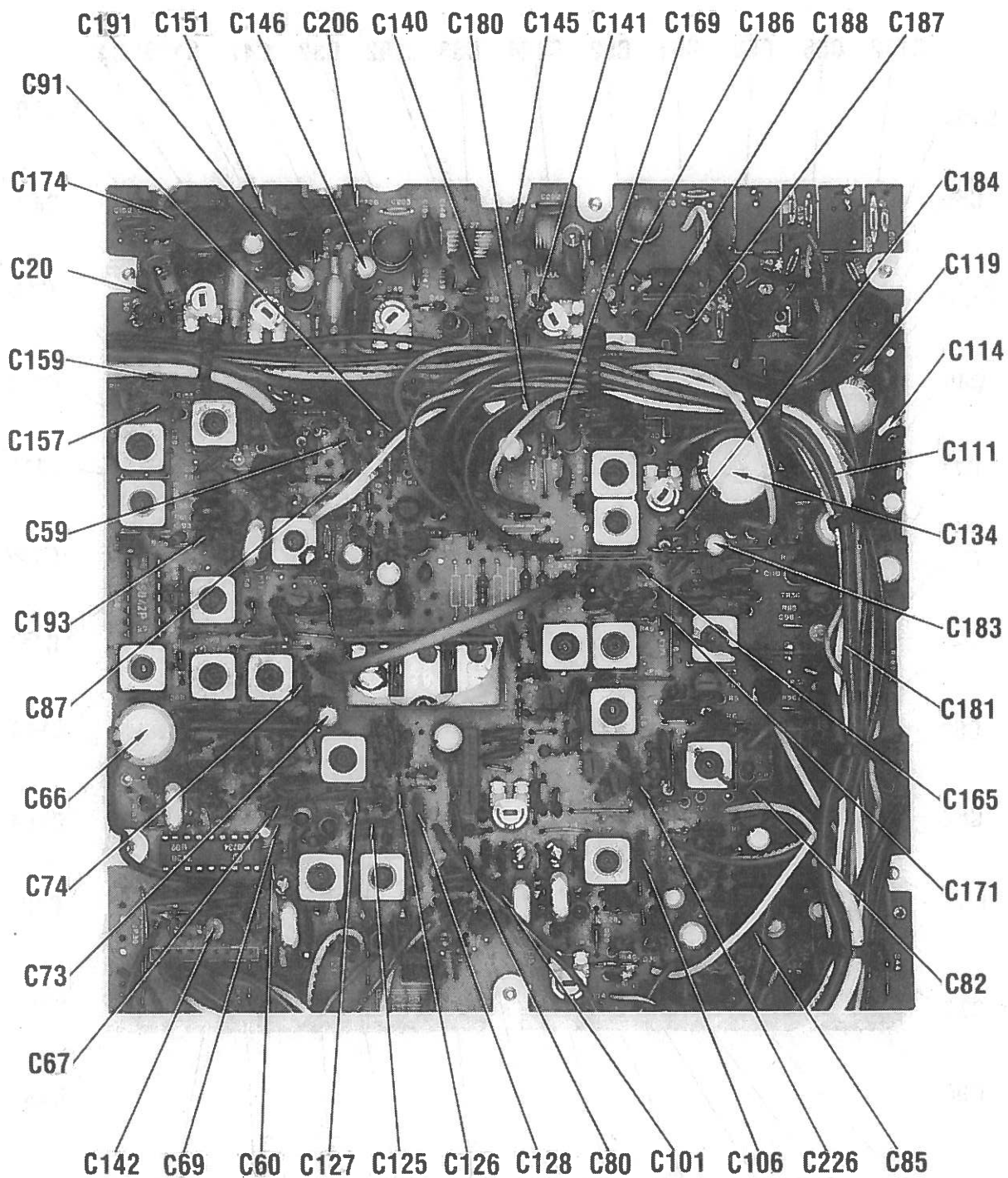
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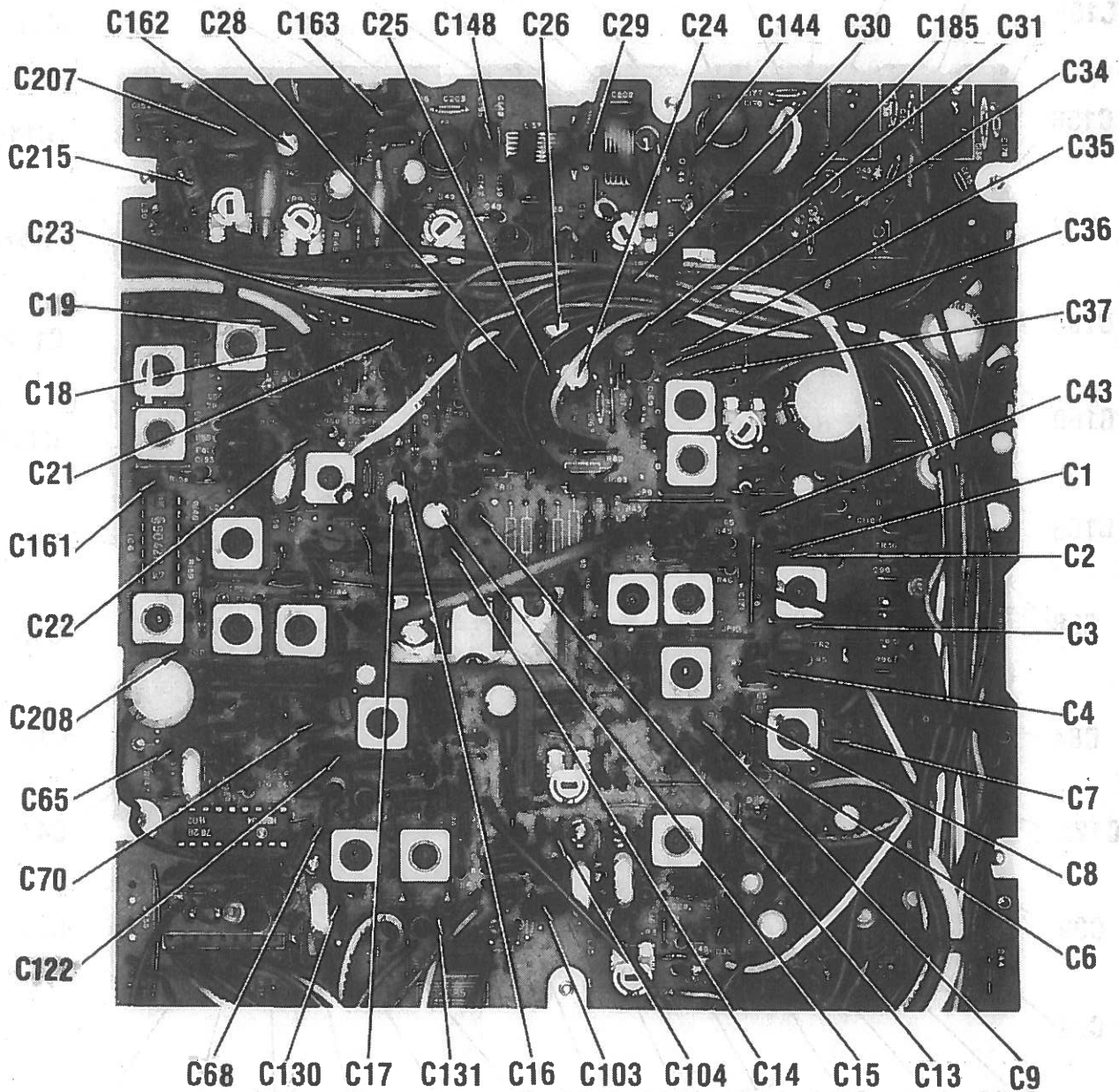
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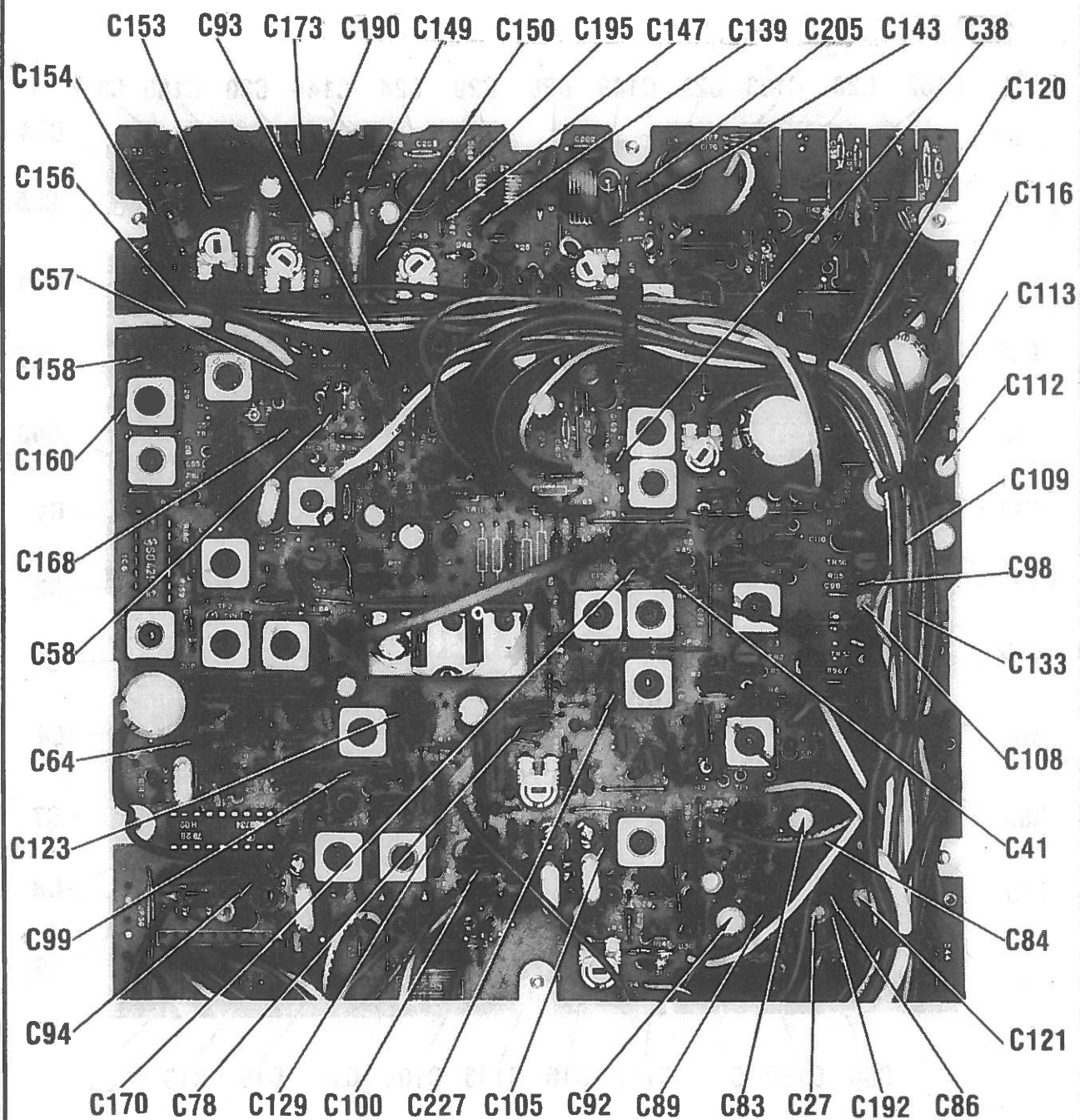
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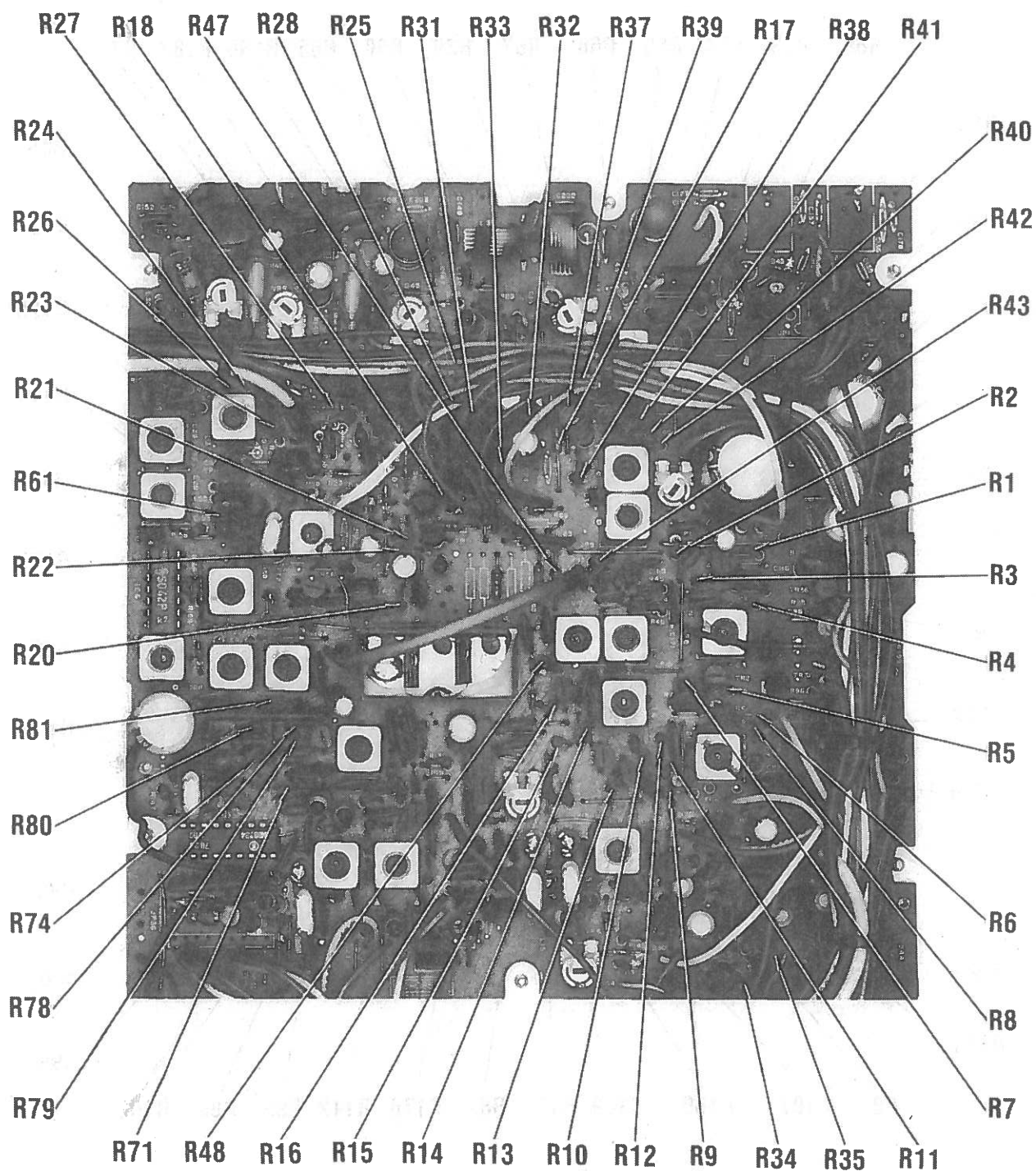
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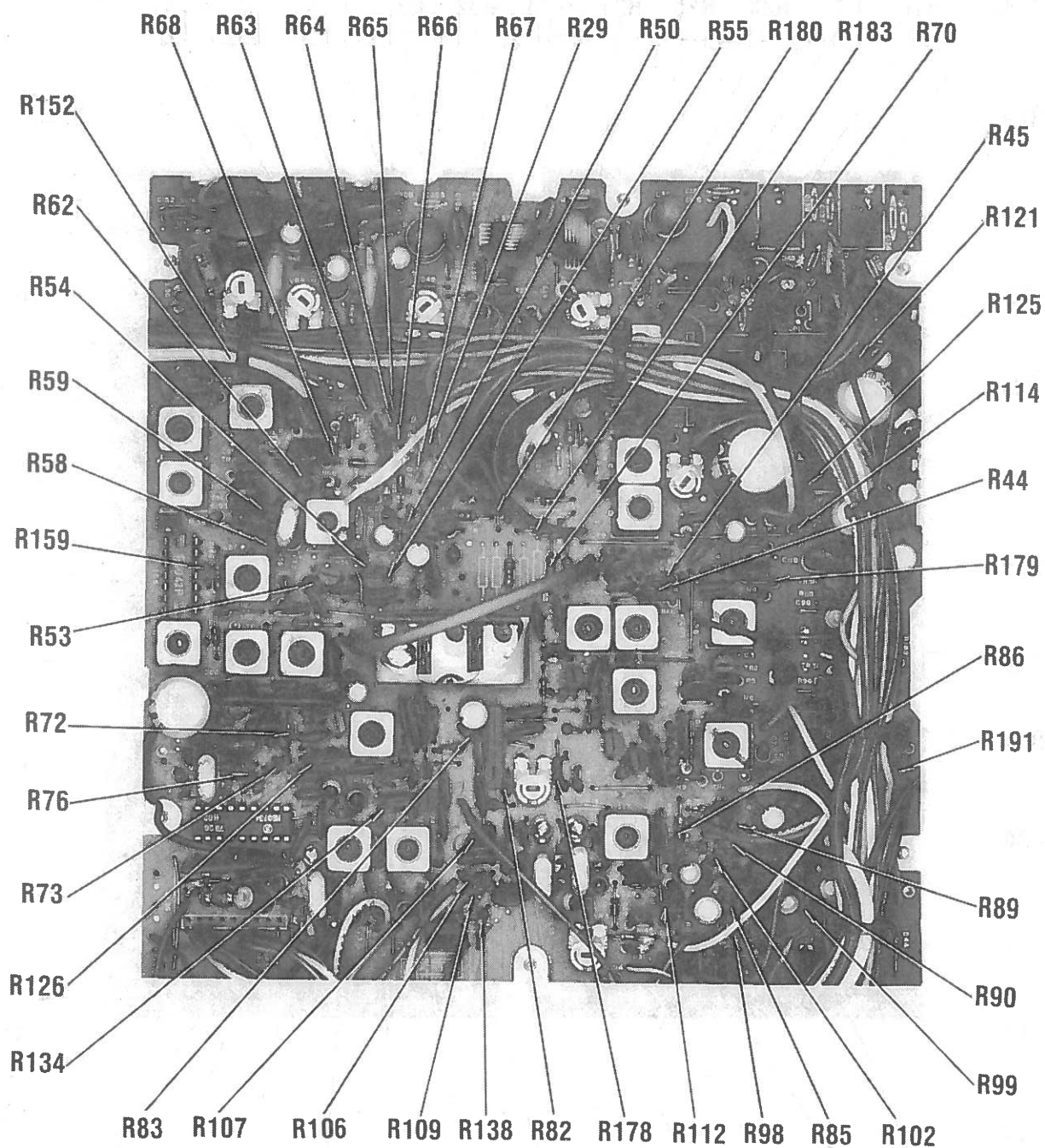
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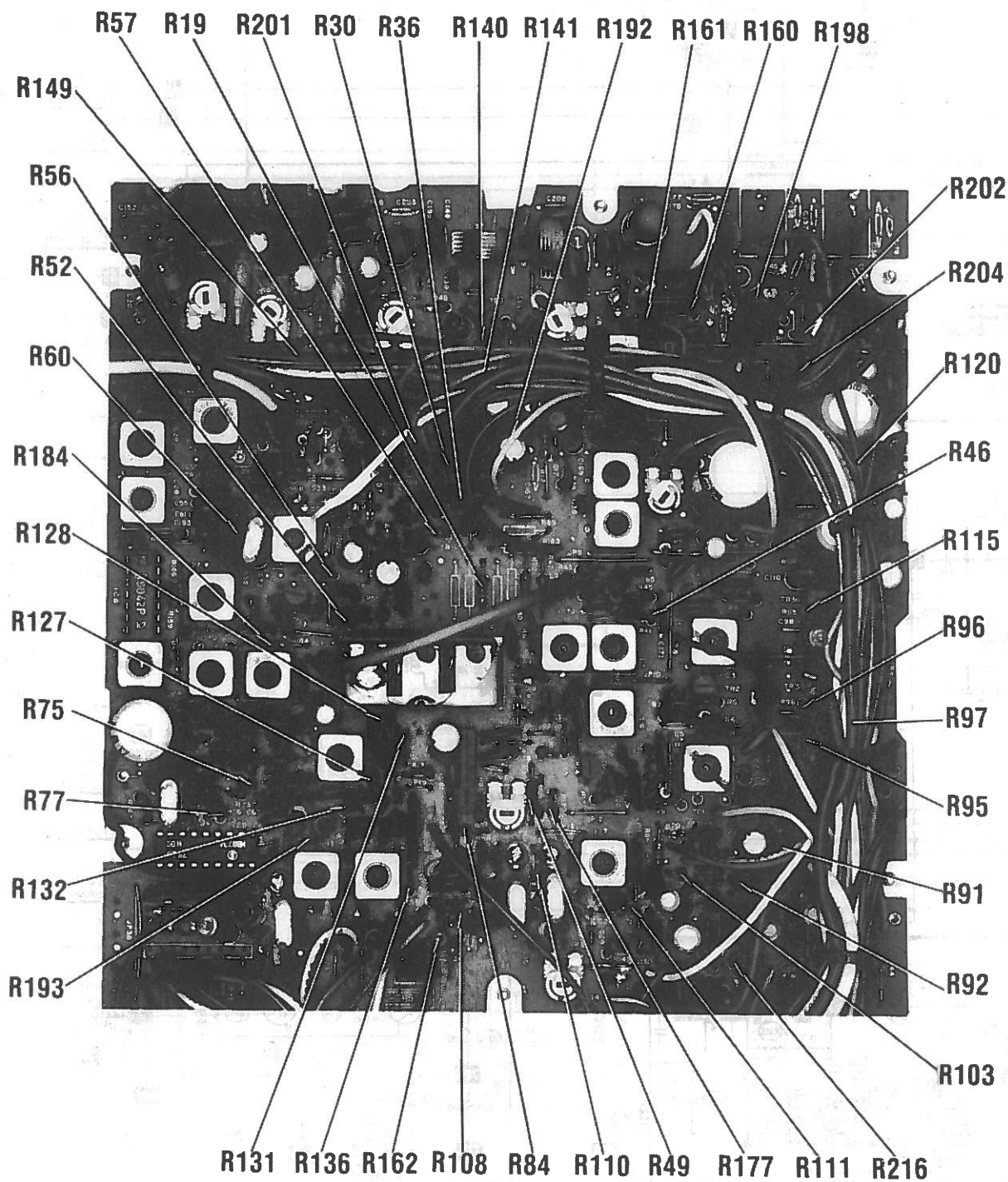
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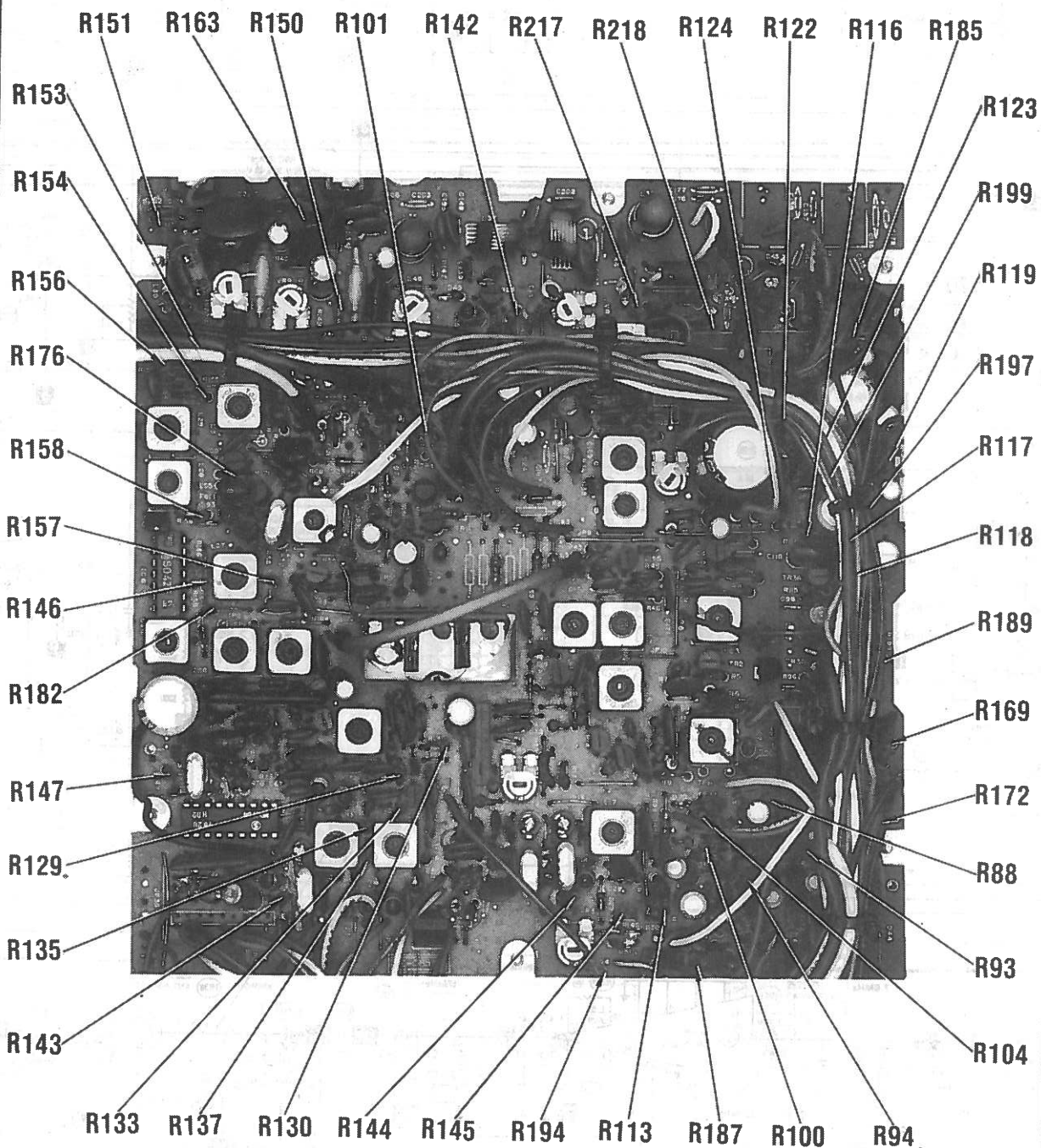
MAIN BOARD



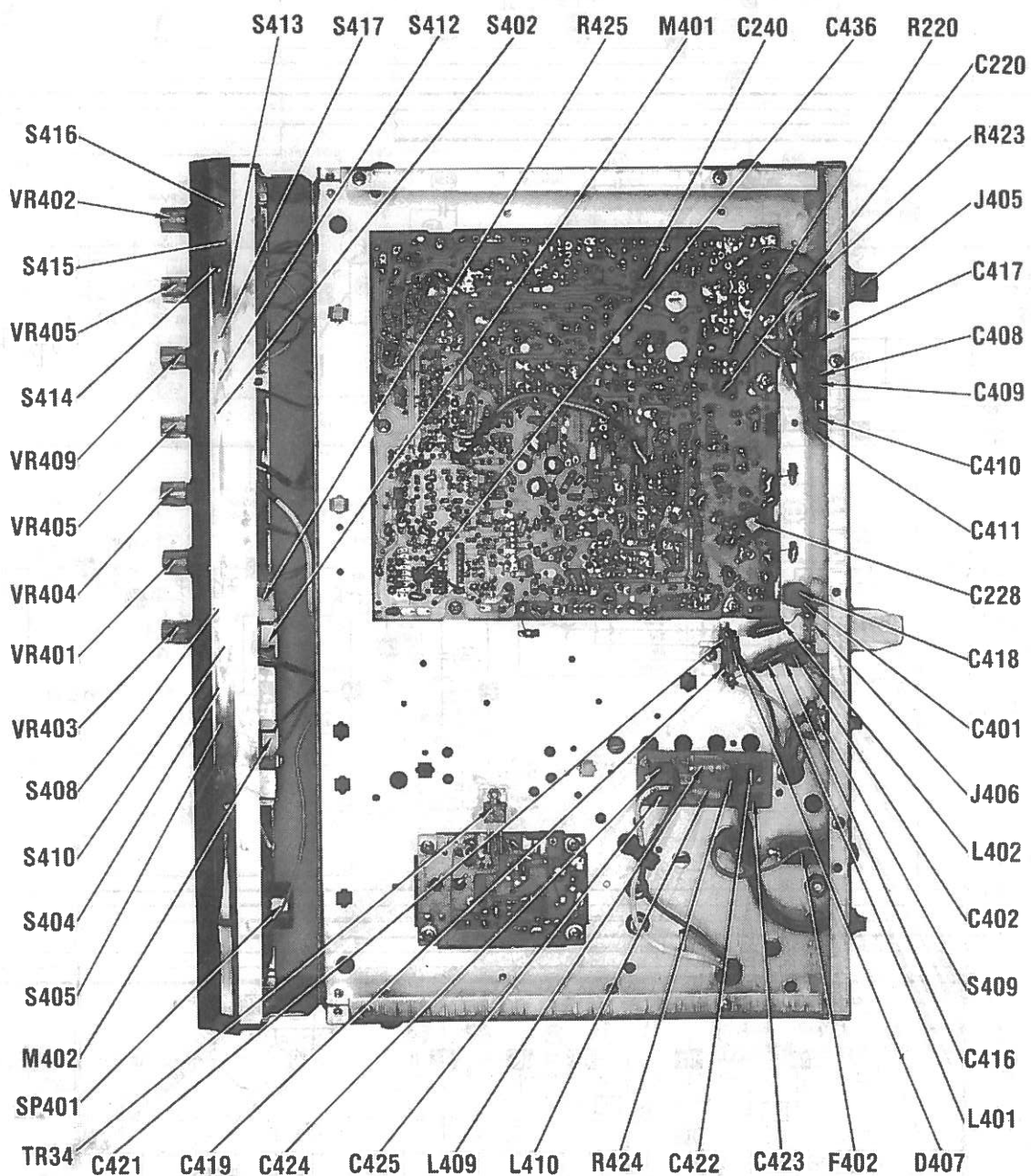
MAIN BOARD



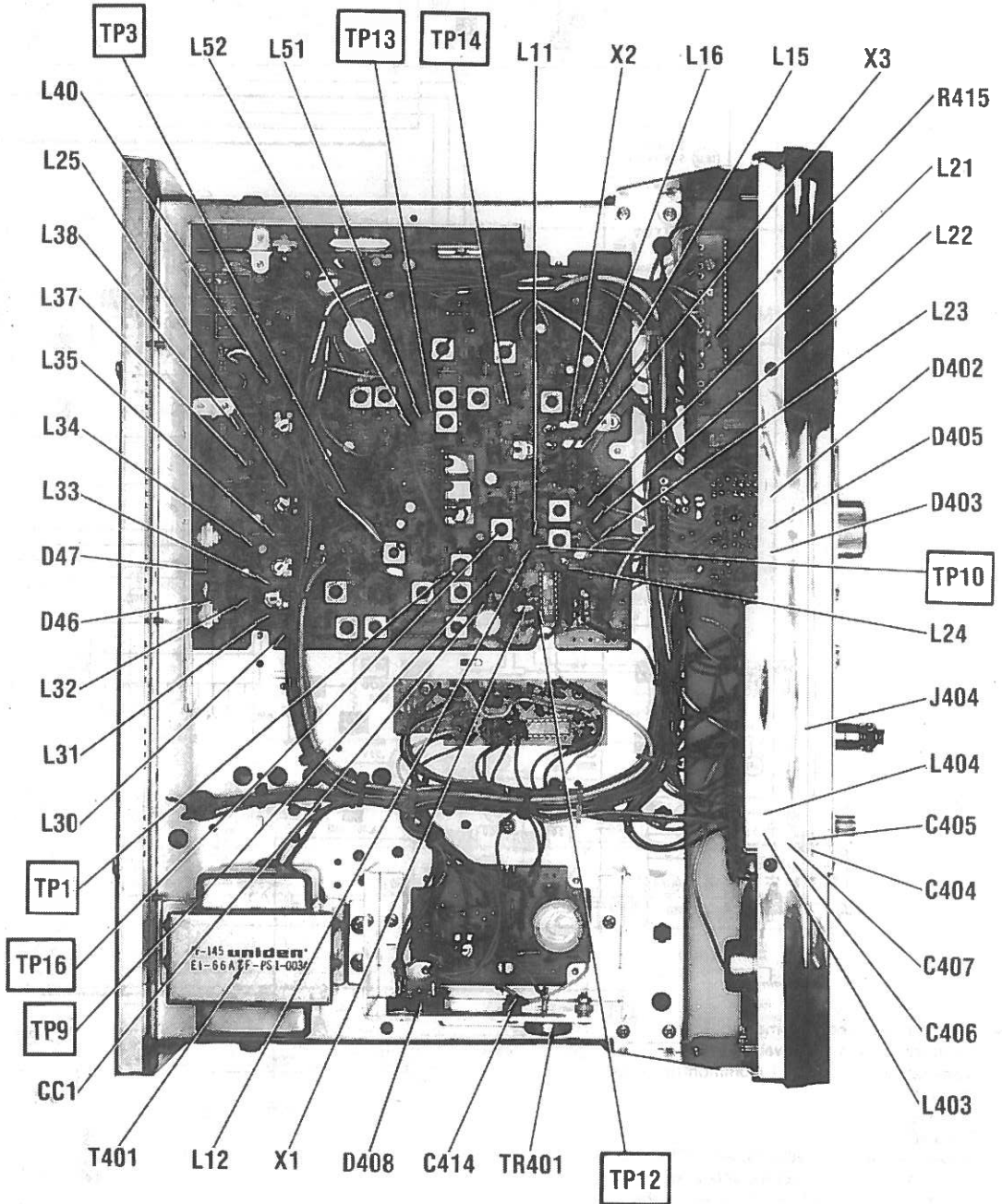
MAIN BOARD



MAIN BOARD



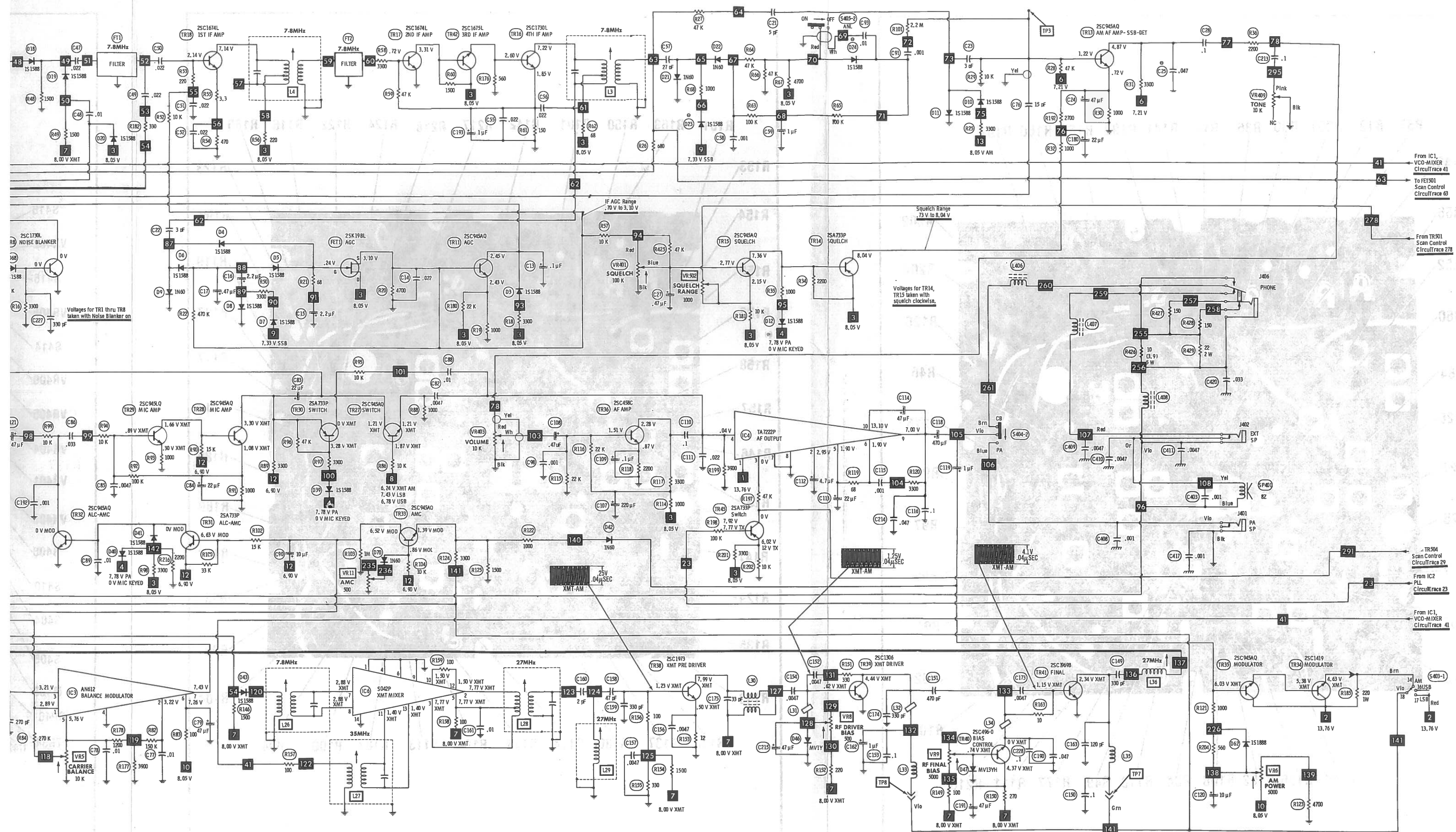
CHASSIS-BOTTOM



CHASSIS-TOP

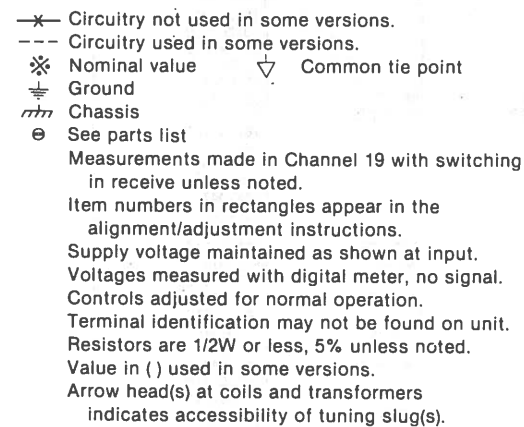
- Circuitry not used in some versions.
 - - - Circuitry used in some versions.
 * Nominal value ▽ Common tie point
 ⏏ Ground
 Chassis
 See parts list
 Waveforms and Voltages taken in Channel 19
 with switching in receive unless noted.
 Item numbers in rectangles appear in the
 alignment/adjustment instructions.
 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).

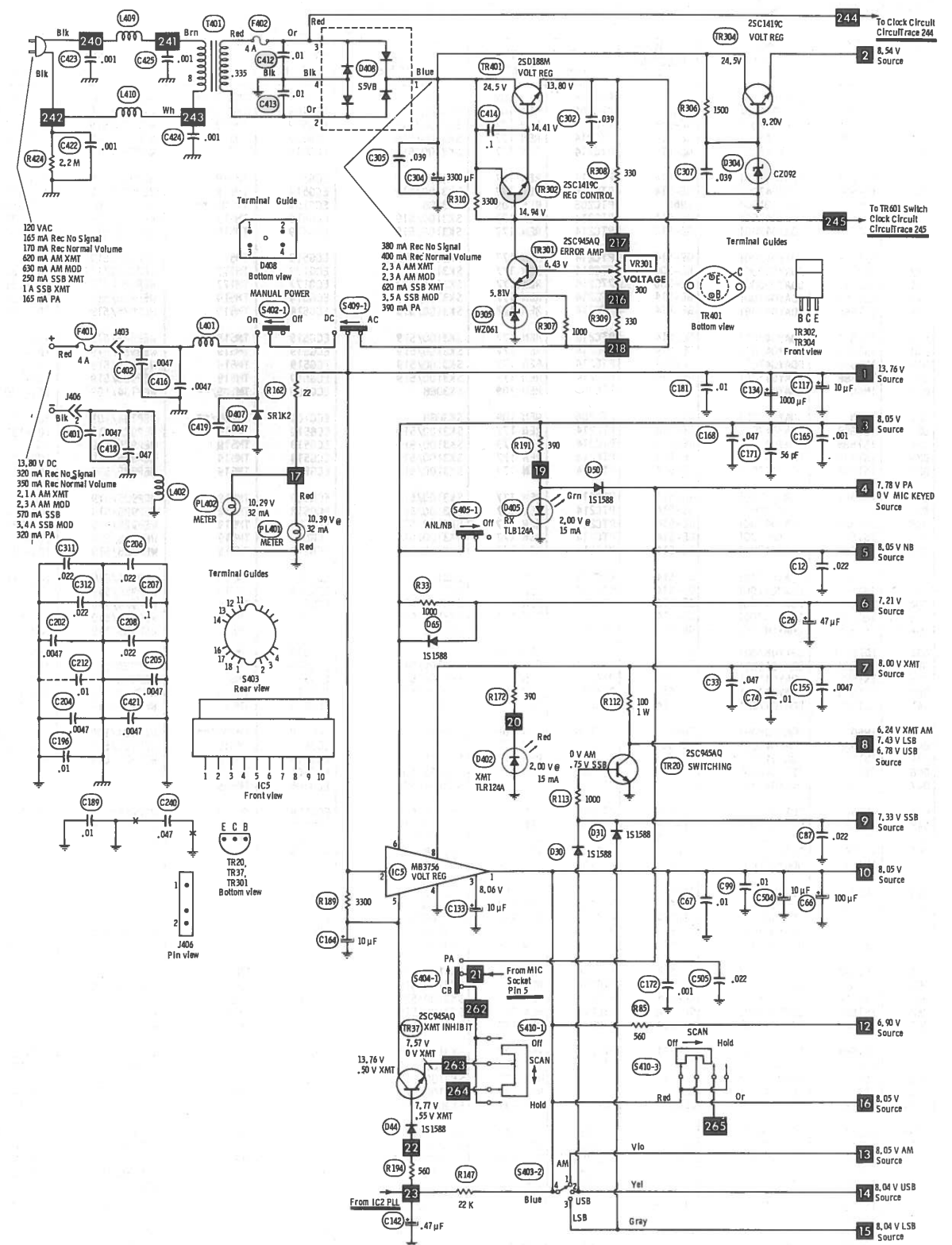
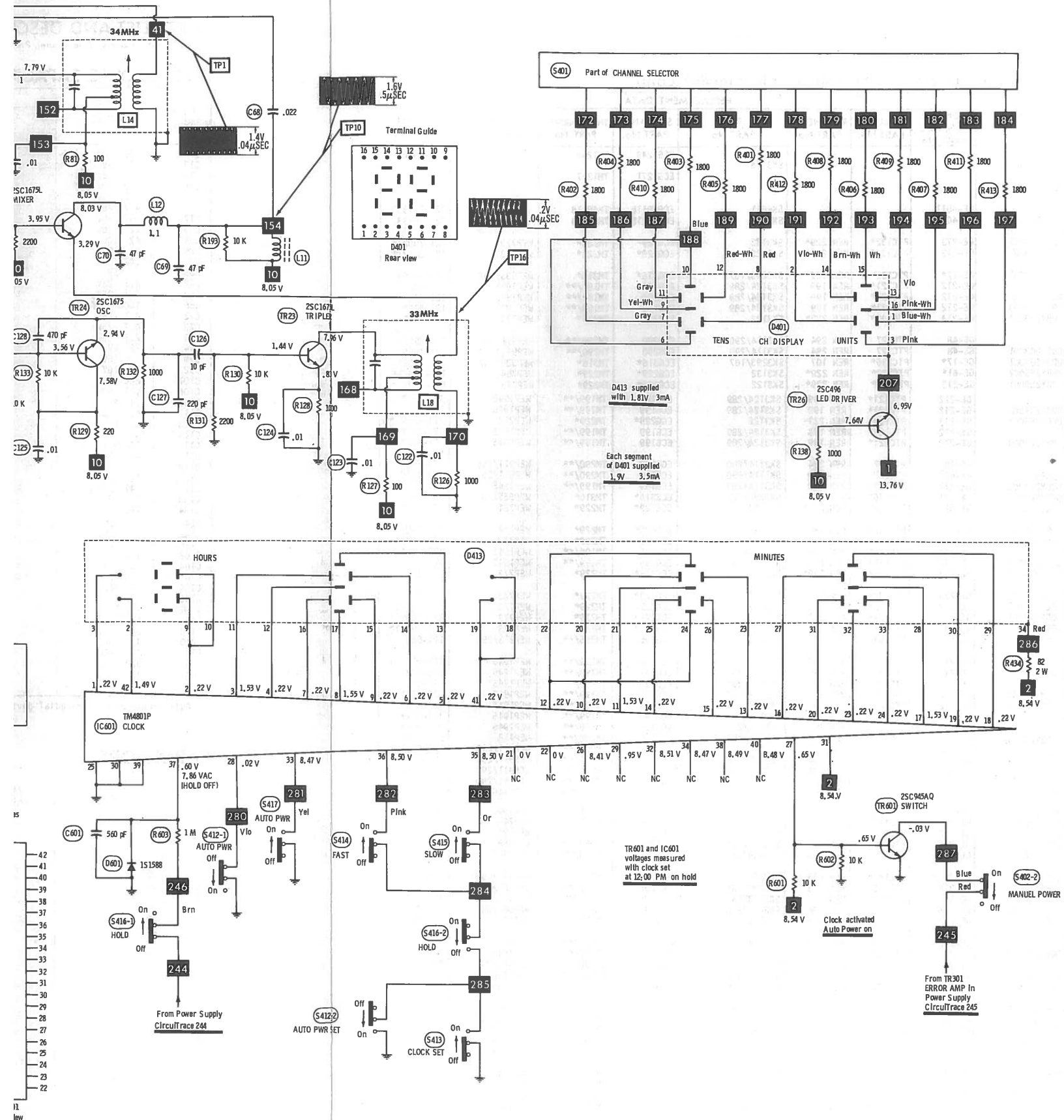
A PHOTOFACT STANDARD NOTATION SCHEMATIC
 WITH **CIRCUITRACE**
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CB MAIN CHASSIS SCHEMATIC

TEABERRY MODEL Stalker XX





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.	MALLORY PART No.	RAYTHEON PART No.	RCA PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D1	1N60	DDAY001004	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D2	1N60	DDAY001004	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D4	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D5	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D6	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D7	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D8	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D9	1N60	DDAY001004	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D10	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D11	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D12	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D13	MC301	DDAY090001	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D14	MC301	DDAY090001	GE-300	PTC214	REN 177	SK3175/177	ECG177	TM177	WEP1062/177	103-131
D15	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D16	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D17	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D18	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D19	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D20	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D21	1N60	DDAY001004	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D22	1N60	DDAY001004	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D23	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D24	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D25	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D26	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D27	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D28	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D29	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D30	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D31	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D32	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D33	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D34	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D35	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D36	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D37	1S2687D	DDAY067001	G		REN 612		ECG612	TM612		103-176
D38	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D39	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D40	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D41	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D42	1N60	DDAY001004	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D43	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D44	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D46	MY1Y	DDFY020001		PTC301	REN 601	SK3463/601	ECG601	TM601		
D47	MY13YH	DDFY021001		PTC302		SK3864/605	ECG605	TM605		
D48	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D49	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D50	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D51	1N60P	DDAY001002	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D52	1N60P	DDAY001002	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D53	1N60	DDAY001004	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D54	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D55	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D56	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D57	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D58	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D59	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D61	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D62	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D65	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D68	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D69	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D70	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D72	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D304	C2092	DDAY010002	GEZD-9.1	ZB9.1A	REN 139	SK3060/139A	ECG139A	TM139/**	WEP1109/139	103-272
D305	W2061	DDAY008001	GEZD-6.2	ZB6.2B	REN 137	SK3058/137A	ECG137A	TM137A/**	WEP1154/137A	103-29008
D407	SR1K2	DDAY002002	GE-504A	PTC201	REN 116	SK3311	ECG116	TM116	WEP156	212-76-02
D408	SSV810	DDAY066001	GEBR-206	PTC204(4)	REN 156(4)	SK3061/156(4)	ECG5313	TM516(4)	WEP1044	212-29000(4)
D501	1N60P	DDAY001002	1N60	PTC206	REN 109	SK3088	ECG109	TM109/**	WEP134/109	103-29001
D502	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D503	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D504	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D505	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D506	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D507	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D508	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D509	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D510	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
D601	1S1588	DDAY047001	GE-514	PTC214	REN 177	SK3100/519	ECG519	TM519	WEP925/519	103-131
FET1	2SK198L	DDCY001002	GE-FET-2	PTC161	REN 132*	SK3834/132	ECG312*	TM312*	WEP920/312*	921-1067*
FET501	2SK198L	DDCY001002	GE-FET-2	PTC161	REN 132*	SK3834/132	ECG312*	TM312*	WEP920/312*	921-1067*
IC1	UHC007	DDEY133001					ECG1262	TM1262		
IC2	MB8734	DDEY173001								

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.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
IC3	AN612	DDEY130001					ECG1249	TM1249		221-29068
IC4	TA7222P	DDEY146001				SK3726				
IC5	MB3756	DDEY131001					ECG1271	TM1271		
IC6	S042P	DDEY132001								
IC501	MB84011	DDEY084001	GE-4011			SK4011	ECG4011B	TM4011B		221-29133
IC601	MB84011M	DDEY148001	GE-4011			SK4011	ECG4011B	TM4011B		221-29133
TR1	25C1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*
TR2	25C1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*
TR3	25C1730L	DDBY269001	GE-17*	PTC136*	REN 107	SK3293/107	ECG316*	TM316*	WEP535/107	121-29093
TR4	25C9450		GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR5	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR6	25C1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*
TR7	25A733AP		GE-48	PTC127	REN 294	SK3114/290	ECG290	TM290/**	WEP911/290	121-29067
	25A733P	DDBY003001	GE-48	PTC127	REN 294	SK3114/290	ECG290	TM290/**	WEP911/290	121-29067
TR8	25C1730L	DDBY269001	GE-17*	PTC136*	REN 107	SK3293/107	ECG316*	TM316*	WEP535/107	121-29093
TR9	25C1674L	DDBY295002	GE-61*	PTC132*	REN 229*	SK3132	ECG229*	TM229*	WEP784	121-29021*
TR10	25C1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*
TR11	25C9450		GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR12	25C1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*
TR13	25C9450		GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR14	25A733AP		GE-48	PTC127	REN 294	SK3114/290	ECG290	TM290/**	WEP911/290	121-29067
	25A733P	DDBY003001	GE-48	PTC127	REN 294	SK3114/290	ECG290	TM290/**	WEP911/290	121-29067
TR15	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR16	25C1730L	DDBY269001	GE-17*	PTC136*	REN 107	SK3293/107	ECG316*	TM316*	WEP535/107	121-29093
TR17	25C1674L	DDBY295002	GE-61*	PTC132*	REN 229*	SK3132	ECG229*	TM229*	WEP784	121-29021*
TR18	25C1674L	DDBY295002	GE-61*	PTC132*	REN 229*	SK3132	ECG229*	TM229*	WEP784	121-29021*
TR19	25C1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*
TR20	25C9450		GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR21	25C1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*
TR22	25C1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*
TR23	25C1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*
TR24	25C1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*
TR25	25C1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*
TR26	25C496-0	DDBY246001	GE-57	PTC163	REN 295	SK3253/295	ECG295	TM295/**	WEP913/295	121-880
TR27	25C9450		GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR28	25C9450		GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR29	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
	25C945L		GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
	25C9450		GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
	25C458BP-C	DDBY273002	GE-210	PTC121*	REN 289	SK3124/289	ECG289	TM289/**	WEP458	121-29065
TR30	25A733AP		GE-48	PTC127	REN 294	SK3114/290	ECG290	TM290/**	WEP911/290	121-29067
	25A733P	DDBY003001	GE-48	PTC127	REN 294	SK3114/290	ECG290	TM290/**	WEP911/290	121-29067
TR31	25A733AP		GE-48	PTC127	REN 294	SK3114/290	ECG290	TM290/**	WEP911/290	121-29067
	25A733P	DDBY003001	GE-48	PTC127	REN 294	SK3114/290	ECG290	TM290/**	WEP911/290	121-29067
TR32	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR33	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR34	25C1419C	DDBY278002	GE-66	PTC167	REN 152	SK3197/235	ECG152	TM152	WEP745/152	121-987-03
TR35	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR36	25C458C	DDBY273001	GE-210	PTC121*	REN 289	SK3124/289	ECG289	TM289/**	WEP458	121-29065
TR37	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR38	25C1973	DDBY272001	GE-285*	PTC143*	REN 293	SK3849/293	ECG293	TM293	WEP912/293	121-29066
TR39	25C1306	DDBY230001	GE-215	PTC186	REN 235	SK3239/235	ECG235	TM235/**	WEP785/235	121-29039
TR40	25C496-0	DDBY246001	GE-57	PTC163	REN 295	SK3253/295	ECG295	TM295/**	WEP913/295	121-880
TR41	25C1969B	DDBY307001	GE-216	PTC186	REN 236	SK3239/236	ECG236	TM236	WEP840/236	121-29040
TR42	25C1675L	DDBY259001	GE-213	PTC132*	REN 229*	SK3122	ECG229*	TM229*	WEP773	121-29021*
TR44	25C9450		GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR45	25A733AP		GE-48	PTC127	REN 294	SK3114/290	ECG290	TM290/**	WEP911/290	121-29067
	25A733P	DDBY003001	GE-48	PTC127	REN 294	SK3114/290	ECG290	TM290/**	WEP911/290	121-29067
TR301	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR302	25C1419C	DDBY278002	GE-66	PTC167	REN 152	SK3197/235	ECG152	TM152	WEP745/152	121-987-03
TR304	25C1419C	DDBY278002	GE-66	PTC167	REN 152	SK3197/235	ECG152	TM152	WEP745/152	121-987-03
TR401	25D188M	DDBY403001	GE-75	PTC118	REN 130	SK3297/280	ECG130	TM130	WEP704/130	121-29011
TR501	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR502	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR503	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*
TR504	25C2236-0		GE-47	PTC178	REN 293	SK3849/293	ECG293	TM293	WEP912/293	121-29066
	25C2236D	DDBY276001	GE-47	PTC178	REN 293	SK3849/293	ECG293	TM293	WEP912/293	121-29066
TR601	25C945AQ	DDBY224003	GE-212	PTC121*	REN 199	SK3124/289	ECG199	TM199/**	WEP1945	121-972*

* Lead configuration may vary from original.
 /** Also available as exact type replacement.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C7	.22 16V			TDC224M050EL	QDT1-10	SD50-R229
C13	.1 25V			TDC104M050EL	QDT1-2	SD50-R109
C15	2.2 25V		PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C16	2.2 50V		PC2-100	VTT2R2A50	QV1-21	EV-1617.1
	.47 50V		PC1-50	VTT4R7A63	QV1-3	EV-1610
	4.7 25V		PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C17	.47 50V		PC1-50	VTT4R7A63	QV1-3	EV-1610
C19	.22 16V			TDC224M050EL	QDT1-10	SD50-R229
C24	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C26	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C27	.47 50V		PC1-50	VTT4R7A63	QV1-3	EV-1610
C59	1 25V			TDC105M035EL	QDT1-25	SD35-19
C62	2.2 25V			TDC225M035FL	QDT1-37	SD35-2R29
C63	2.2 25V			TDC225M035FL	QDT1-37	SD35-2R29
C66	1000 10V		PC1000-16	VTT1000L10	QV1-179	EV-1161
C72	4.7 25V			TDC475M010EL	QDT1-48	SD10-4R79
C73	4.7 25V		PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C83	2.2 25V		PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C84	22 6V			TDC226M015FL	QDT1-82	SD15-229
C90	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C92	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C107	220 10V		PC250-10	VTT220F10	QV1-115	EV-1140
C108	.47 50V		PC1-50	VTT4R7A63	QV1-3	EV-1610
C109	.1 25V			TDC104M050EL	QDT1-2	SD50-R109
C112	4.7 25V		PC5-50	VTT4R7B50	QV1-31	EV-1619.1
C113	22 6V			TDC226M015FL	QDT1-82	SD15-229
C114	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C117	10 25V		PC10-25	VTT10B25	QV1-11	EV-1422
C118	470 10V		PC500-16	VTT470K16	QV1-151	EV-1251
C119	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C120	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C121	.47 50V		PC1-50	VTT4R7A63	QV1-3	EV-1610
C133	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C134	1000 25V		WBRI000-25*	VTT1000N25	QV1-185	EV-1360
C141	2.2 50V		PC2-100	VTT2R2A50	QV1-21	EV-1617.1
C142	.47 50V		PC1-50	VTT4R7A63	QV1-3	EV-1610
C146	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C162	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C164	10 25V		PC10-25	VTT10B25	QV1-11	EV-1422
C169	1 50V		WBRI0-25	TT10X10	QE1-177	TVA-1145
C180	22 10V		PC25-25	VTT22B16	QV1-55	EV-1224
C183	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C191	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C193	1 25V			TDC105M035EL	QDT1-25	SD35-19
C198	.47 50V		PC1-50	VTT4R7A63	QV1-3	EV-1610
C215	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226
C302	220 16V		PC250-25	VTT220H16	QV1-117	EV-1240
C304	3300 35V		AA0155A	FP062		TVLU-1129
C434	47 10V		PC50-16	VTT47D16	QV1-73	EV-1226

* Axial replacement for radial device.

TEABERRY MODEL Stalker XX

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C1	.022		MGP025	TA125		TG-S25
C2	.022		MGP025	TA125		TG-S25
C3	.001			GP210	QCT2-41	10TS-D10
C4	.022		MGP025	TA125		TG-S25
C5	.022		MGP025	TA125		TG-S25
C6	.001			GP210	QCT2-41	10TS-D10
C8	82 NPO		NPO82	CN0482		10TCC-QR2
C9	.001			GP210	QCT2-41	10TS-D10
C10	100 N220			*		10TCR-T10
C11	.022		MGP025	TA125		TG-S25
C12	.022		MGP025	TA125		TG-S25
C14	.022		MGP025	TA125		TG-S25
C18	.022		MGP025	TA125		TG-S25
C20	.022		DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C21	5 NPO		NPO6P8	CN0568		10TCC-V68
C22	3 NPO		NPO3P3	CN0533		10TCC-V33
C23	3 NPO		NPO3P3	CN0533		10TCC-V33
	.047		DPMS2S47	EW1A147	QFT2-171	1FT-S47
C25	.022		DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C28	1		WMF05P1	EW05010	QFT2-215	1FT-P10
C29	12 NPO			CN0412		10TCC-012
C30	.001			GP210	QCT2-41	10TS-D10
C31	.001			GP210	QCT2-41	10TS-D10
C32	.001			GP210	QCT2-41	10TS-D10
C33	.0047		GP4700	GP247		56A-D47
C34	.001			GP210	QCT2-41	10TS-D10
C35	.0047		GP4700	GP247		56A-D47
C36	4 NPO		NPO4P7	CN0547		10TCC-V47
C37	.0047		GP4700	GP247		56A-D47
C38	2 NPO		NP02P2	CN0522		10TCC-V22
C39	.001			GP210	QCT2-41	10TS-D10
C40	.001			GP210	QCT2-41	10TS-D10
C41	.001			GP210	QCT2-41	10TS-D10
C42	2 NPO		NP02P2	CN0522		10TCC-V22
C43	33 NPO		NP033	CN0433	QCC2-22	10TCC-Q33

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C44	2 NPO		NP02P2	CN0522		10TCC-V22
C45	.022		MGP025	TA125		TG-S25
C46	.022		MGP025	TA125		TG-S25
C47	.022		MGP025	TA125		TG-S25
C48	.01			MAG5011		
C49	.022		MGP025	TA125		TG-S25
C50	.022		MGP025	TA125		TG-S25
C51	.022		MGP025	TA125		TG-S25
C52	.022		MGP025	TA125		TG-S25
C53	.5					
C54	.022		DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C55	.022		DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C56	.022		MGP025	TA125		TG-S25
C57	27 NPO			CN0427		10TCC-Q27
C58	.001		DPMS6D1	EWFA1A210	QFT2-1	1FT-D10
C60	.01			MAG5011		
C61	.1		WMF05P1	EWFO5010	QFT2-215	1FT-P10
C64	18 NPO			CN0418		10TCC-Q18
C65	10 NPO		NP010	CN0410	QCC2-15	10TCC-Q10
C67	.01			MAG5011		
C68	.022		MGP025	TA125		TG-S25
C69	47 NPO		NP047	CN0447	QCC2-26	10TCC-Q47
C70	47 NPO		NP047	CN0447	QCC2-26	10TCC-Q47
C71	.047		DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C74	.01			MAG5011		
C75	.01			MAG5011		
C76	15 NPO		NP015	CN0415		10TCC-Q15
C77	.01			MAG5011		
C78	.01			MAG5011		
C79	.1		WMF05P1	EWFO5010	QFT2-215	1FT-P10
C80	4 NPO		NP04P7	CN0547		10TCC-V47
C81	270 N750			CN7327		10TCU-T27
C82	.0047		WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C85	.0047		WMF1D47	M192P4729R8	QFT2-63	1FT-D47
C86	.033		DPMS6S33	M192P3339R8	QFT2-149	1FT-S33
C87	.022		MGP025	TA125		TG-S25
C88	.01		WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C89	.01		WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C91	.0022		DPMS6D22	M192P2229R8	QFT2-27	1FT-D22
C93	.01		WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C94	.01			MAG5011		
C95	.01			MAG5011		
C98	.001			GP210	QCT2-41	10TS-D10
C99	.01			MAG5011		
C100	.01			MAG5011		
C101	.001			GP210	QCT2-41	10TS-D10
C102	100 NPO		NP0100	CN0310		10TCC-T10
C103	.01			MAG5011		
C104	18 NPO			CN0418		10TCC-Q18
C105	10 NPO		NP010	CN0410	QCC2-15	10TCC-Q10
C106	.01			MAG5011		
C108	.039		DPMS6S39	M192P3939R8	QFT2-159	1FT-S39
C110	.1		WMF05P1	EWFO5010	QFT2-215	1FT-P10
C111	.022		DPMS2S22	M192P2239R8	QFT2-127	1FT-S22
C115	.001		DPMS6D1	EWFA1A210	QFT2-1	1FT-D10
C116	.1		WMF05P1	EWFO5010	QFT2-215	1FT-P10
C122	.01			MAG5011		
C123	.01			MAG5011		
C124	.01			MAG5011		
C125	.01			MAG5011		
C126	10 NPO		NP010	CN0410	QCC2-15	10TCC-Q10
C127	220			GP322		10TS-T22
C128	470		GP470	GP347	QCT2-35	10TS-T47
C129	.01			MAG5011		
C130	.01			MAG5011		
C131	.01			MAG5011		
C132	10		NP010	CN0410	QCC2-15	10TCC-Q10
C139	1 NPO			CN0510		10TCC-V10
C140	10 NPO		NP010	CN0410	QCC2-15	10TCC-Q10
C141	.0047		GP4700	GP247		5GA-D47
C143	68 NPO		NP068	CN0468		10TCC-Q68
C144	39 NPO			CN0439		10TCC-Q39
C145	180 N220			*		10TCR-Q18
C147	1 NPO			CN0510		10TCC-V10
C148	390 N750					10TCU-T39
C149	330 N750		DPMS6D1	EWFA1A210	QF1-7	GPS-D10
C150	.1		WMF05P1	EWFO5010	QFT2-215	1FT-P10
C151	470 N750					10TCU-T47
C152	.0047		GP4700	GP247		5GA-D47
C153	.1		WMF05P1	EWFO5010	QFT2-215	1FT-P10
C154	.0047		GP4700	GP247		5GA-D47
C155	.0047		GP4700	GP247		5GA-D47
C156	.0047		GP4700	GP247		5GA-D47
C157	.0047		GP4700	GP247		5GA-D47
C158	47 NPO		NP047	CN0447	QCC2-26	10TCC-Q47
C159	330 N750		DPMS6D1	EWFA1A210	QF1-7	GPS-D10
C160	1.5 NPO		NP01P5	CN0515		10TCC-V15
C161	.01		WMF1S1	EWFA1A110	QFT2-91	1FT-S10
C163	120 N220			*		10TCR-T12
C165	.001			GP210	QCT2-41	10TS-D10
C167	.022		MGP025	TA125		TG-S25
C168	.047		DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C170	100		NP0100	CN0310		10TCC-T10
C171	56 NPO			CN0456		10TCC-Q56
C172	.001			GP210	QCT2-41	10TS-D10
C173	.0047		GP4700	GP247		5GA-D47
C174	330 N750		DPMS6D1	EWFA1A210	QF1-7	GPS-D10
C175	33 NPO		NP033	CN0433	QCC2-22	10TCC-Q33
C177	.022		MGP025	TA125		TG-S25

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C181	.01			MAG5011		
C184	.0047		GP4700	GP247		5GA-D47
C189	.01			MAG5011		
C190	.047			MAG5015		
C192	.001			GP210	QCT2-41	10TS-D10
C195	47 NPO		NP047	CN0447	QCC2-26	10TCC-Q47
C196	.0047		GP4700	GP247		5GA-D47
C197	.0047		GP4700	GP247		5GA-D47
C202	.0047		GP4700	GP247		5GA-D47
C203	.0047		GP4700	GP247		5GA-D47
C204	.0047		GP4700	GP247		5GA-D47
C206	.022		MGP025	TA125		TG-S25
C207	.1			MAG5001		
C208	.022		MGP025	TA125		TG-S25
C301	.039		DPMS6S39	M192P3939RB	QFT2-159	1FT-S39
C303	.039		DPMS6S39	M192P3939RB	QFT2-159	1FT-S39
C308	.01			MAG5011		
C310	.01			MAG5011		
C401	.0047		GP4700	GP247		5GA-D47
C402	.0047		GP4700	GP247		5GA-D47
C403	.001			GP210	QCT2-41	10TS-D10
C404	.001			GP210	QCT2-41	10TS-D10
C405	.001			GP210	QCT2-41	10TS-D10
C406	.001			GP210	QCT2-41	10TS-D10
C407	.001			GP210	QCT2-41	10TS-D10
C408	.0047		GP4700	GP247		5GA-D47
C409	.0047		GP4700	GP247		5GA-D47
C410	.0047		GP4700	GP247		5GA-D47
C411	.0047		GP4700	GP247		5GA-D47
C412	.01			MAG5011		
C413	.01			MAG5011		
C414	.1			MAG5001		
C415	.001			GP210	QCT2-41	10TS-D10
C416	.001			GP210	QCT2-41	10TS-D10
C417	.001			GP210	QCT2-41	10TS-D10
C420	.0033		GP3300	GP233	QC2-107	5GA-D33
C421	.047		GP4700	MAG5015		5GA-D47
C422	.0047		GP4700	GP247		5GA-D47
C436	.0047		GP4700	GP247		5GA-D47
CC1		(1)				
CT1	20					
CT2	20					
CT3	20					

(1) Consists of four .01 capacitors.

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

TEABERRY MODEL Stalker XX

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA		
			MFR. PART No.	MALLORY PART No.	TRW PART No.
VR1	SIG Meter	10K	RRVY189005	RVA0911H103	U260R103B
VR3	LSB XMT	3000	RRVY189004	RVA0911H502	U260R502B
VR5	Carrier Balance	10K	RRVY189005	RVA0911H103	U260R103B
VR6	AM Power	5000	RRVY189010	RVA0911H502	U260R502B
VR7	RF ALC	10K	RRVY189005	RVA0911H103	U260R103B
VR8	RF Driver Bias	500	RRVY189002	RVA0911H501	U260R501B
VR9	RF Final Bias	5000	RRVY189010	RVA0911H502	U260R502B
VR10	Power Meter	100K	RRVY189008	RVA0911H104	U260R104B
VR11	AMC	500	RRVY189002	RVA0911H501	U260R501B
VR12	MOD	100K	RRVY189008	RVA0911H104	U260R104B
VR301	Voltage	300	RRVY189001	RVA0911H501	U260R501B
VR401	Squelch	100K	RRVY126001		
VR402	Clarifier	20K	RRVY139001		
VR403	Volume	10K	RRVY036001		
VR404	RF Gain	10K	RRVY324001		
VR405	Mic Gain	1000	RRVY319001		
VR406	CAL	5000	RRVY377001		
VR408	CH. 9-SQ	100K	(18)		
VR409	Tone	10K	RRVY036001		
VR501	Scan Sensitivity	3000	RRVY146015	MTC53L1	X201R502B
VR502	Squelch Range	1000	RRVY145004	RVA1214V102(3)	X201R102B(3)

(18) Includes VR406 and VR408.

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

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	Noise Blanker	LLAY038001		CBS512-7TC	
L2	Noise Blanker	LLAY179001			
L3	IF Amp (7.8MHz)	LLAY255001			
L4	IF Amp (7.8MHz)	LLAY263001			
L5	Mixer (7.8MHz)	LLAY262001			
L6	Mixer (7.8MHz)	LLAY257001			
L7	Mixer (7.8MHz)	LLAY258001			
L8	RF Amp (27MHz)	LLAY259001			
L9	RF Amp (27MHz)	LLAY260001			
L10	Receive Antenna (27MHz)	LLAY261001			
L11	RF Choke (470uH)	LLZY012004			
L12	RF Choke (100uH)	LLZY012001			
L13	VCO Mixer	LLAY216001			
L14	VCO Mixer (34MHz)	LLAY195001			
L15	RF Choke (470uH)	LLZY012004			
L16	RF Choke (470uH)	LLZY012004			
L17	Carrier Shift (7.8000MHz)	LLAY217001			
L18	Tripler (33MHz)	LLAY256001			
L19	Oscillator (34.9825MHz)	LLAY217001			
L20	Oscillator (34.9850MHz)	LLAY218001			
L21	RF Choke (470uH)	LLZY012004			
L22	RF Choke (470uH)	LLZY012004			
L23	RF Choke (470uH)	LLZY012004			
L24	RF Choke (470uH)	LLZY012004			
L25	RF Choke (100uH)	LLZY012001			
L26	XMT Mixer (7.8MHz)	LLAY219001			
L27	VCO/Mixer (35MHz)	LLAY160001			
L28	XMT Mixer (27MHz)	LLAY220001			
L29	XMT Mixer (27MHz)	LLAY254001			
L30	XMT Predriver	LLDY096001			
L33	RF Choke	LLDY098001 or LLDY100001			
L35	RF Choke	LLDY098001 or LLDY100001			
L36	Final (27MHz)	LLCY019001 or LLCY073001		CB305	
L37	Pi Filter	LLCY051001			
L38	Antenna Matching	LLCY051001			
L39	TVI Trap (54MHz MIN)	LLCY019001 or LLCY073001		CB305	
L401	RF Choke	LLDY013001 or LLCY034001			
L402	RF Choke	LLDY013001 or LLCY034001			
L403	RF Choke	LLDY089001 or LLDY099001			
L406	RF Choke	LLDY089001 or LLDY099001			
L407	RF Choke	LLDY089001 or LLDY099001			
L408	RF Choke	LLDY089001 or LLDY099001			
L409	RF Choke	LLDY027001 or LLDY031001			
L410	RF Choke	LLDY027001 or LLDY031001			

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T401	120V AC @ 1A AC	17.40V AC @ 3.78A AC	TTFY145001 (Alternate TTFY143001)			

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP401	3" PM, 8 ohm	ASPY038001	30A05Z8	

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
F401 F402	4A Quick-acting 4A Quick-acting			AGC4 MTH4	HRK HKP	311004 311004	150145 442006	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
D401	LED	DDAY078001	TLR321 Channel Display Tens, Units 7-segment
D402	LED	DDAY100001	XMT TLR124A (2.00V @ 15mA)
D403	LED	DDAY100001	CH. 9
D405	LED	DDAY116001	Receive TLR124A (2.00V @ 15mA)
D413	LED	DDAY107001	Clock Hours, Minutes (TLR2077)
FT1	Filter	FFLY065001	(7.8MHz) Crystal FL065
FT2	Filter	FFLY046001	(7.8MHz) FL046 Crystal
J401	Jack	JJKY010001	PA Speaker JK010
J402	Jack	JJKY010001	External Speaker
J403	Jack		DC Power
J404	Jack		Mic
J405	Jack		Antenna
J406	Jack	JJKY005002	Phone JK005
L31	Ferrite Bead	LLDY087001	LD087
L32	Ferrite Bead	LLDY101001	LD101
L34	Ferrite Bead	LLDY087001	LD087
L40	Ferrite Bead	LLDY071001	LD071
L51	Ferrite Bead	LLDY077001 or	LD077
		LLDY085001	LD085
L52	Ferrite Bead	LLDY077001 or	LD077
		LLDY085001	LD085
L404	Ferrite Bead	LLDY077001 or	LD077
		LLDY085001	LD085
L405	Ferrite Bead	LLDY077001 or	LD077
		LLDY085001	LD085
M401	Meter		Signal/Rf Power
M402	Meter		SWR/Modulation
P404	Plug		Mic
PL401	Lamp	VPLY068004	Meter (10.39V @ 32mA) (PL068)
PL402	Lamp	VPLY068004	Meter (10.29V @ 32mA) (PL068)
S401	Switch		Channel Selector
S402	Switch		Manual Power On/Off
S403	Switch	SSRY205001	Mode AM/USB/LSB (SR205) Rotary
S404	Switch		CB/PA
S405	Switch		NB/ANL On/Off
S409	Switch	SSWY099001	AC/DC SW099 Slide
S410	Switch		Scan Off/Hold
S411	Switch		MOD/SWR/CAL

TEABERRY MODEL Stalker XX

PARTS LIST AND DESCRIPTION (CONTINUED)

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

MISCELLANEOUS (cont)

ITEM No.	PART NAME	PART No.	NOTES
S412	Switch		Auto Power On/Off
S413	Switch		Clock Set
S414	Switch		Fast
S415	Switch		Slow
S416	Switch		Hold On/Off
S417	Switch		Auto Power Set On/Off
X1	Crystal		(10.240MHz)
X2	Crystal		(7.8025MHz)
X3	Crystal		(7.7975MHz)
X4	Crystal		(11.1125MHz)
	Cord	WMZY022001	AC Power WZ022
	Microphone	AMKY108001	MK-108
	P.C. Board	PPCY447011	Channel Switch PC-447AA
	P.C. Board	PPCY541011	Clock PC-541AA
	P.C. Board	PPCY372011	Filter PC-372AA
	P.C. Board	PPCY542011	LED PC-542AA
	P.C. Board	PPCY385016	Main PC-385AF
	P.C. Board	PPCY450011	Mic Jack PC-450AA
	P.C. Board	PPCY311021	Phone Jack PC-3118A
	P.C. Board	PPCY446011	Power Supply PC-446AA
	P.C. Board	PPCY547011	Scan PC-547AA
	P.C. Board	PPCY543011	Slide Switch PC-543AA
	P.C. Board	PPCY401011	Speaker Jack PC-401AA
	P.C. Board	PPCY443011	Switch PC-443AA

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

ITEM	PART No.	ITEM	PART No.
Cover, Top	MDBP204583	Knob, Concentric, Outer	MDMP407467
Filter, Clock, Optical	MDAP407391	Knob, Pushbutton	MDMP404046
Filter, Display, Optical	MDAP404097	Panel, Front	MDMP107377
Knob	MDMP402181	Panel, Front Display	MDAP507389
Knob, Channel	MDMP406425	Panel, Front Display	MDAP407390
Knob, Concentric, Inner	MDMP407468		

WIRING DATA

Cable (Speaker)(Unshielded).....	Use BELDEN No. 8782 (AWG24)(4 colors)
Shielding Strap.....	Use BELDEN No. 8660 (3/16" width)
Hook-up Wire (General Use).....	Use BELDEN No. 8524 (AWG22)(13 colors)
Hook-up Wire (Shielded).....	Use BELDEN No. 8401 (Braided Shield)(1 conductor)(AWG25)
	Use BELDEN No. 8421 (Spiral Shield)(1 conductor)(AWG25)
	Use BELDEN No. 8737 (Spiral Shield)(2 conductor)(AWG22)
Coax (Transmission Line)	Use BELDEN No. 8216 (RG-174/U, 50 ohms)
Microphone Cable (Coiled).....	Use BELDEN No. 8491 (4 conductors-2 shielded)(6 ft.)(AWG23)
Microphone Cable (Coiled).....	Use BELDEN No. 9467 (5 conductors-1 shielded)(6 ft.)(AWG28)
AC Power Cord.....	Use BELDEN No. 17106 (6 ft.)(2 conductors)
AC Power Cord.....	Use BELDEN No. 17109 (9 ft.)(2 conductors)