



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 SBE-42CB (CORTEZ 40)

MANUFACTURER'S SPECIFICATIONS

TRANSMITTER

Power Output:	4 watts (maximum)
Modulation:	95-100%
Modulator Response:	300 Hz to 3000 Hz, +3 -10db
Output Impedance:	50 ohms, unbalanced
Output Indicator:	Back lit front panel meter

RECEIVER

Sensitivity:	0.5 microvolt for 10db S+N/N ratio
Selectivity:	65db @ ± 10 kHz
IF Frequencies:	10.695 MHz, 455 KHz
Receiver Delta Tune:	± 750 Hz, Nominal
Automatic Gain Control:	Less than 10db change in audio output for signal inputs from 10-500,000 μ V
Squelch Threshold:	0.5 μ V
Audio Power Output:	Greater than 3.0 watts @ 10% T.H.D.
Built-in Speaker:	8 ohms, 3-1/2" Round
External Speaker:	(Not supplied) 4 or 8 ohms. Disables internal speaker when connected.
Spurious Rejection:	
Image:	-60db or better
IF:	-50db or better
Others:	-50db or better

Courtesy of the Manufacturer

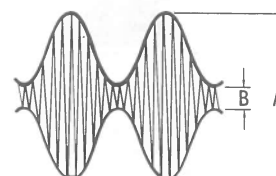
HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

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SBE MODEL SBE-42CB

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 9-volt DC input.
 Adjustments made with 12-volt DC input.
 Adjustments made with 14-volt DC input.
 Connect low sides of test equipment to ground unless specified otherwise.
 Connect 50-ohm dummy load or antenna before keying transmitter.
 Suggested Alignment Tools: GC ELECTRONICS:
 C401 8276, 5000
 L303, L304, L306 9091, 8728A, 8728
 T101 thru T105 5009, 8728A, 8728
 L101, L102, L103, L301, L302,
 L402, L403, L405, T401, L601, L602 9440



$$\text{Modulation Ratio} = \frac{A - B}{A + B} \times 100 (\%)$$

FIGURE 1

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of frequency counter to TP10 (Q19, Emitter).	Ch. 19, XMT	C401	Adjust for 10.238MHz.
	Ch. 19 Delta Tune Midrange		Check for 10.240MHz.
Input of oscilloscope to TP10 (Q19, Emitter).	Ch. 19 Delta Tune Midrange	L402	Adjust for maximum.
Input of oscilloscope to TP12 (Q27, Drain).	Ch. 1	T401	Adjust for maximum.
Input of DC meter to TP1.	Ch. 1 Delta Tune Midrange	L403	Adjust for 2.00 volts.
	Ch. 1, XMT		Check for 2.78 volts.
Input of oscilloscope to TP11 (Q25, Collector).	Ch. 19 Delta Tune Midrange	L405	Adjust for maximum.
Input of frequency counter to TP11 (Q25, Collector).	Ch. 1, Delta Tune Midrange		Check for 16.270MHz Check all channels. (See Truth Chart for correct frequencies.)
	Ch. 1, XMT		Check for 16.727MHz. Check all channels. (See Truth Chart for correct frequencies.)
Input of frequency counter to TP13 (IC401, Pin 2).	Ch. 1, Delta Tune Midrange		Check for .910MHz. Check all channels. (See Truth Chart for correct frequencies.)
	Ch. 1, XMT		Check for 1.37MHz. Check all channels. (See Truth Chart for correct frequencies.)

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.
 RF Gain Maximum, Delta Tune Midrange, Squelch MINIMUM.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP14 (Q3, Gate). 455kHz, 100Hz @ 30% modulation.	Ch. 19	T105, T104, T103	Adjust for maximum.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19	T102, T101, L103, L102, L101	Adjust for maximum. If necessary, readjust T103, T104 and T105.

RECEIVER ALIGNMENT (Continued)

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 25.4MHz no modulation. Input of oscilloscope to TP15 (IC602, Pin 2).	Ch. 19 NB On	L601,L602 L603	Adjust for maximum.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.
RF Gain Maximum, Delta Tune Midrange.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.185MHz,1000Hz @ 30% modulation. Output 5,000uV.	Ch. 19 Squelch Maximum	VR201	SQUELCH RANGE Adjust so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz,1000Hz @ 30% modulation. Output 100uV.	Ch. 19 Squelch MINIMUM	VR101	S METER Adjust for 9 on S scale of meter.

SBE MODEL SBE-42CB

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
	Ch. 19	L301,L302, L303,L304 L306	Adjust for maximum.
	Ch. 19	L304	Adjust for 4 watts maximum.

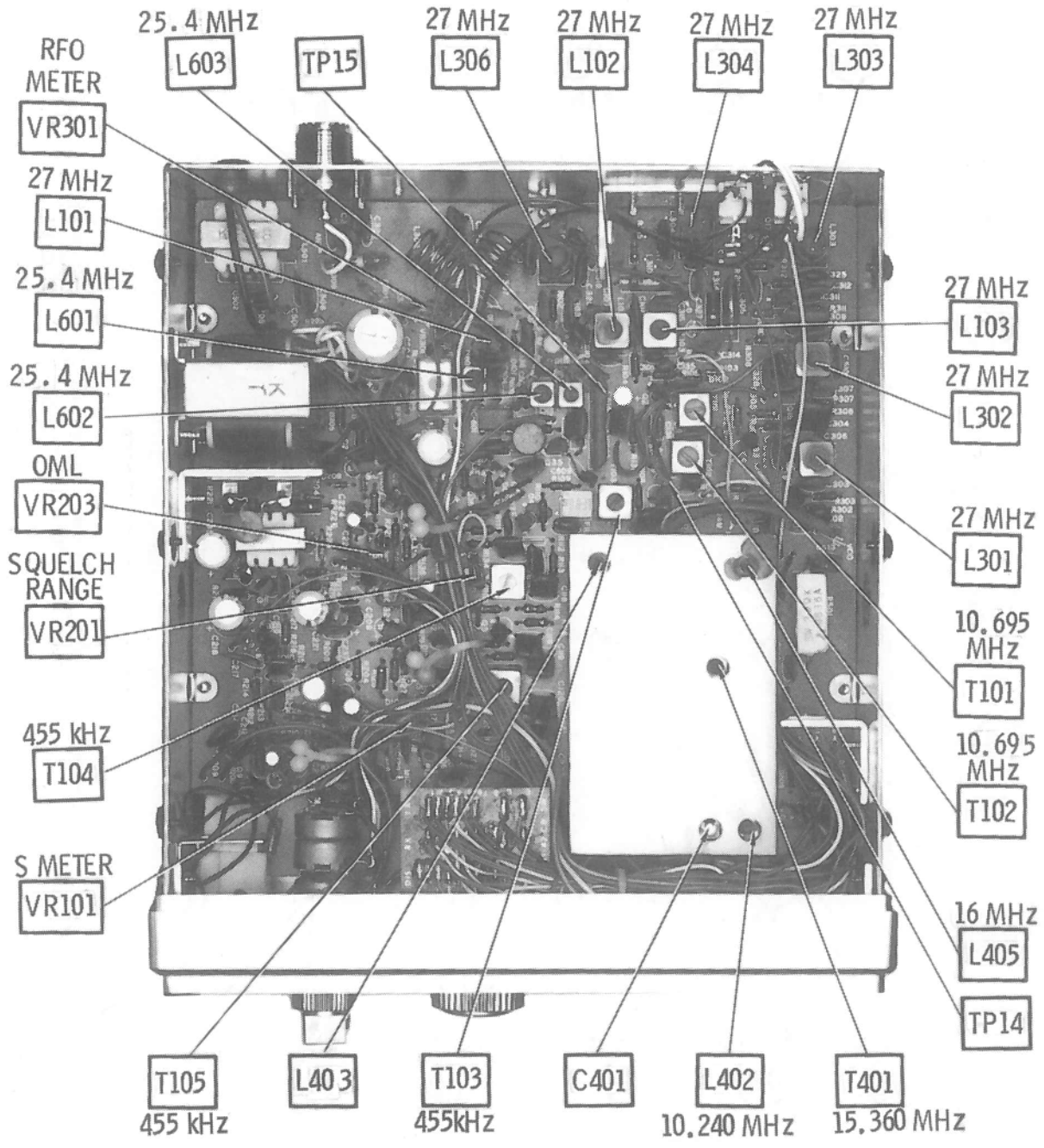
TRANSMITTER ADJUSTMENTS

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.

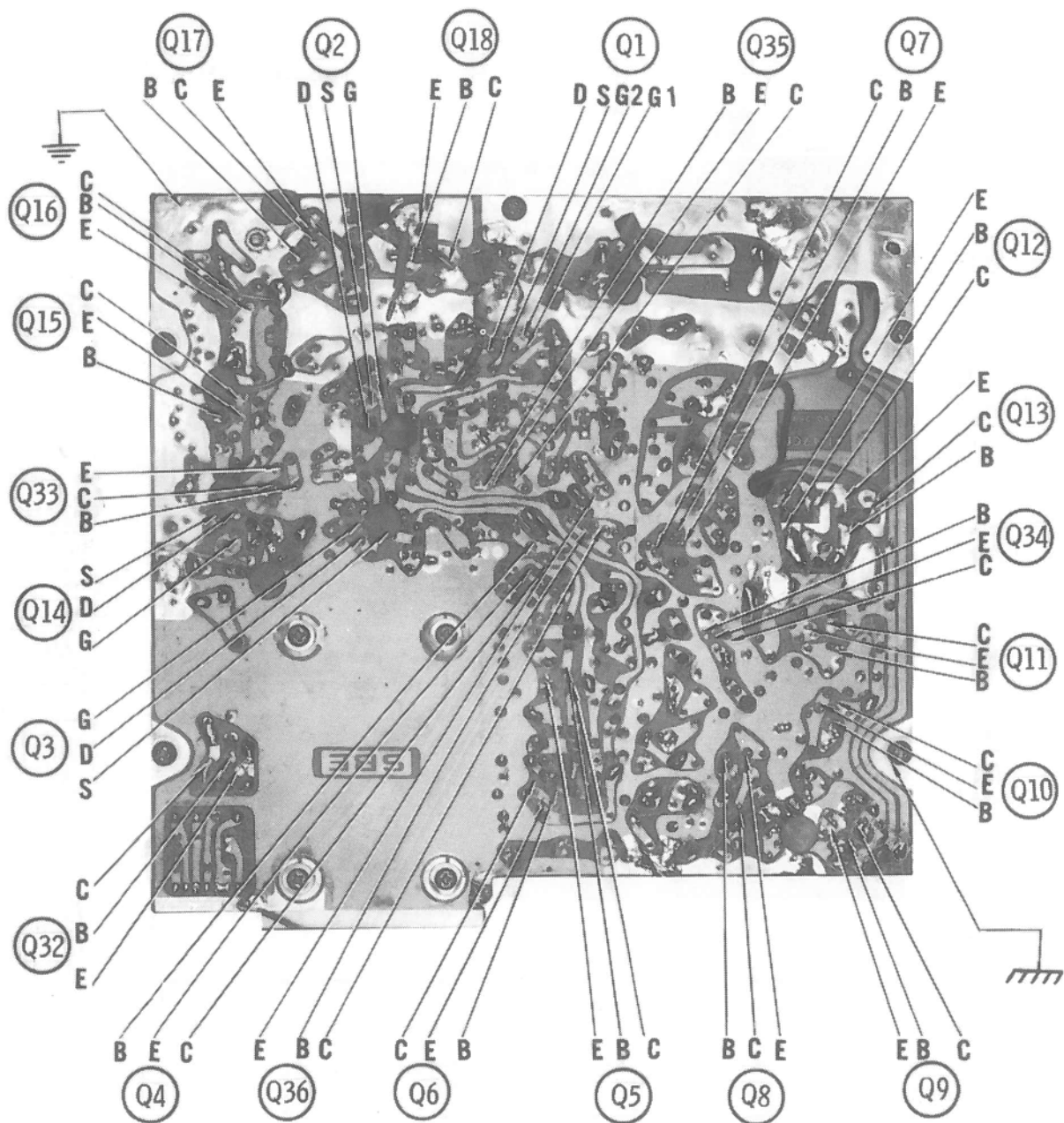
TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of oscilloscope or modulation meter to antenna jack. Inject a 1000Hz, 20mV signal at Mic input.	Ch. 19	VR203	OML Adjust for 100% modulation maximum. See Figure 1.
Connect an RF wattmeter and 50-ohm 25 watt dummy load to antenna connector.	Ch. 19	VR301	RFO METER Adjust so the panel RFO meter agrees with RF wattmeter.

TRUTH CHART

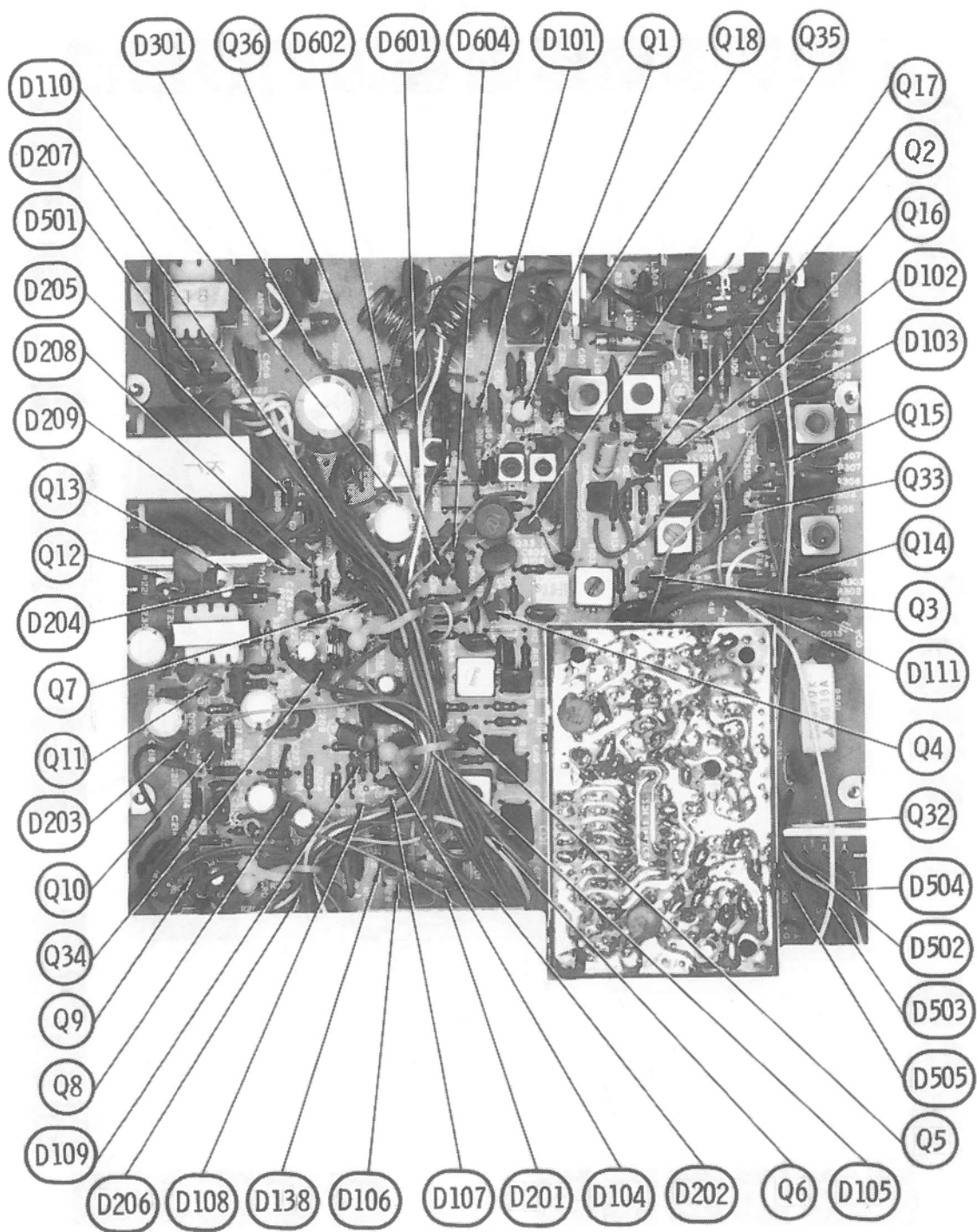
C H A N N E L	1 = 4.56 Volts 0 = 0 Volts								REC SYNTHESIZER OUTPUT IN MHz AT TP11	REC DIVIDER INPUT IN MHz AT TP13	XMT DIVIDER INPUT IN MHz AT TP13	XMT SYNTHESIZER OUTPUT IN MHz AT TP11
	REC IC401 PROGRAM DIVIDER											
	PINS											
	8	9	10	11	12	13	14	15				
1	0	1	0	1	1	0	1	1	16.270	.910	1.37	16.727
2	0	1	0	1	1	1	0	0	16.280	.920	1.38	16.737
3	0	1	0	1	1	1	0	1	16.290	.930	1.39	16.747
4	0	1	0	1	1	1	1	1	16.310	.950	1.41	17.767
5	0	1	1	0	0	0	0	0	16.320	.960	1.42	16.777
6	0	1	1	0	0	0	0	1	16.330	.970	1.43	16.787
7	0	1	1	0	0	0	1	0	16.340	.980	1.44	16.797
8	0	1	1	0	0	1	0	0	16.360	1.000	1.46	16.817
9	0	1	1	0	0	1	0	1	16.370	1.010	1.47	16.827
10	0	1	1	0	0	1	1	0	16.380	1.020	1.48	16.837
11	0	1	1	0	0	1	1	1	16.390	1.030	1.49	16.847
12	0	1	1	0	1	0	0	1	16.410	1.050	1.51	16.867
13	0	1	1	0	1	0	1	0	16.420	1.060	1.52	16.877
14	0	1	1	0	1	0	1	1	16.430	1.070	1.53	16.887
15	0	1	1	0	1	1	0	0	16.440	1.080	1.54	16.897
16	0	1	1	0	1	1	1	0	16.460	1.100	1.56	16.917
17	0	1	1	0	1	1	1	1	16.470	1.110	1.57	16.927
18	0	1	1	1	0	0	0	0	16.480	1.120	1.58	16.937
19	0	1	1	1	0	0	0	1	16.490	1.130	1.59	16.947
20	0	1	1	1	0	0	1	1	16.510	1.150	1.61	16.967
21	0	1	1	1	0	1	0	0	16.520	1.160	1.62	16.977
22	0	1	1	1	0	1	0	1	16.530	1.170	1.63	16.987
23	0	1	1	1	1	0	0	0	16.560	1.200	1.66	17.017
24	0	1	1	1	0	1	1	0	16.540	1.180	1.64	16.997
25	0	1	1	1	0	1	1	1	16.550	1.190	1.65	17.007
26	0	1	1	1	1	0	0	1	16.570	1.210	1.67	17.027
27	0	1	1	1	1	0	1	0	16.580	1.220	1.68	17.037
28	0	1	1	1	1	0	1	1	16.590	1.230	1.69	17.047
29	0	1	1	1	1	1	0	0	16.600	1.240	1.70	17.057
30	0	1	1	1	1	1	0	1	16.610	1.250	1.71	17.067
31	0	1	1	1	1	1	1	0	16.620	1.260	1.72	17.077
32	0	1	1	1	1	1	1	1	16.630	1.270	1.73	17.087
33	1	0	0	0	0	0	0	0	16.640	1.280	1.74	17.097
34	1	0	0	0	0	0	0	0	16.650	1.290	1.75	17.107
35	1	0	0	0	0	0	1	0	16.660	1.300	1.76	17.117
36	1	0	0	0	0	0	1	1	16.670	1.310	1.77	17.127
37	1	0	0	0	0	1	0	0	16.680	1.320	1.78	17.137
38	1	0	0	0	0	1	0	1	16.690	1.330	1.79	17.147
39	1	0	0	0	0	1	1	0	16.700	1.340	1.80	17.157
40	1	1	0	0	0	1	1	1	16.710	1.350	1.81	17.167



CHASSIS - BOTTOM



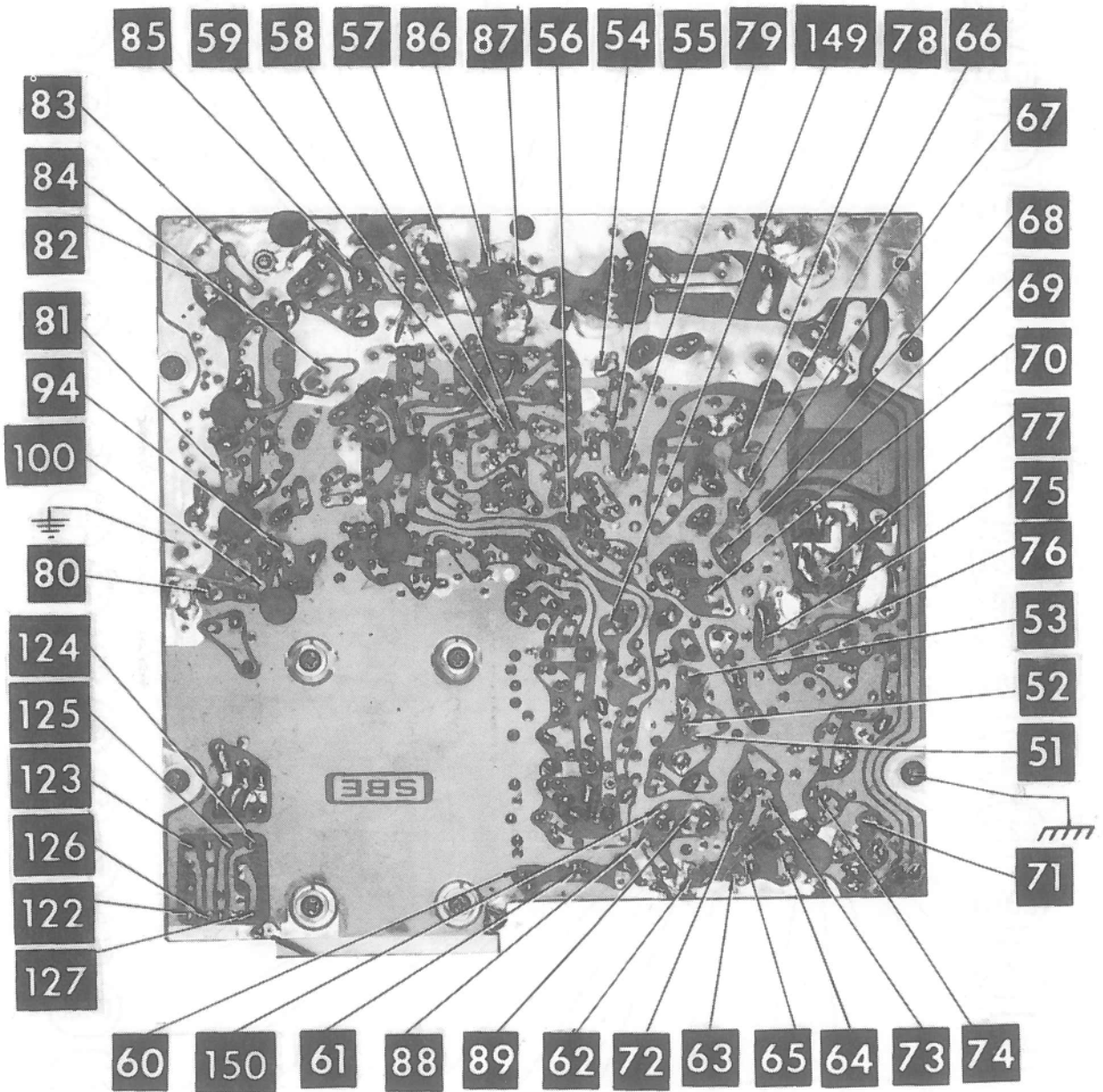
MAIN BOARD



MAIN BOARD

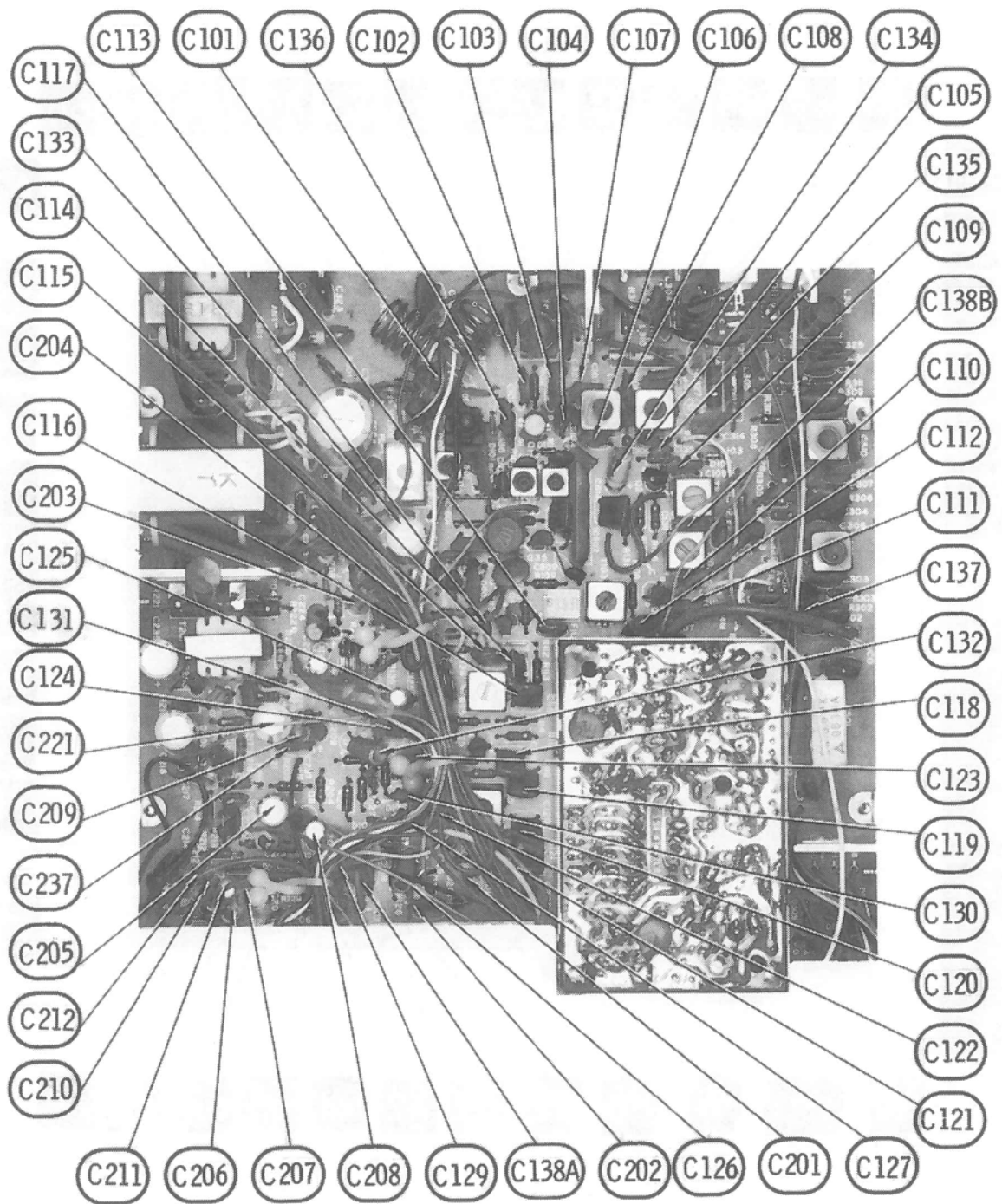


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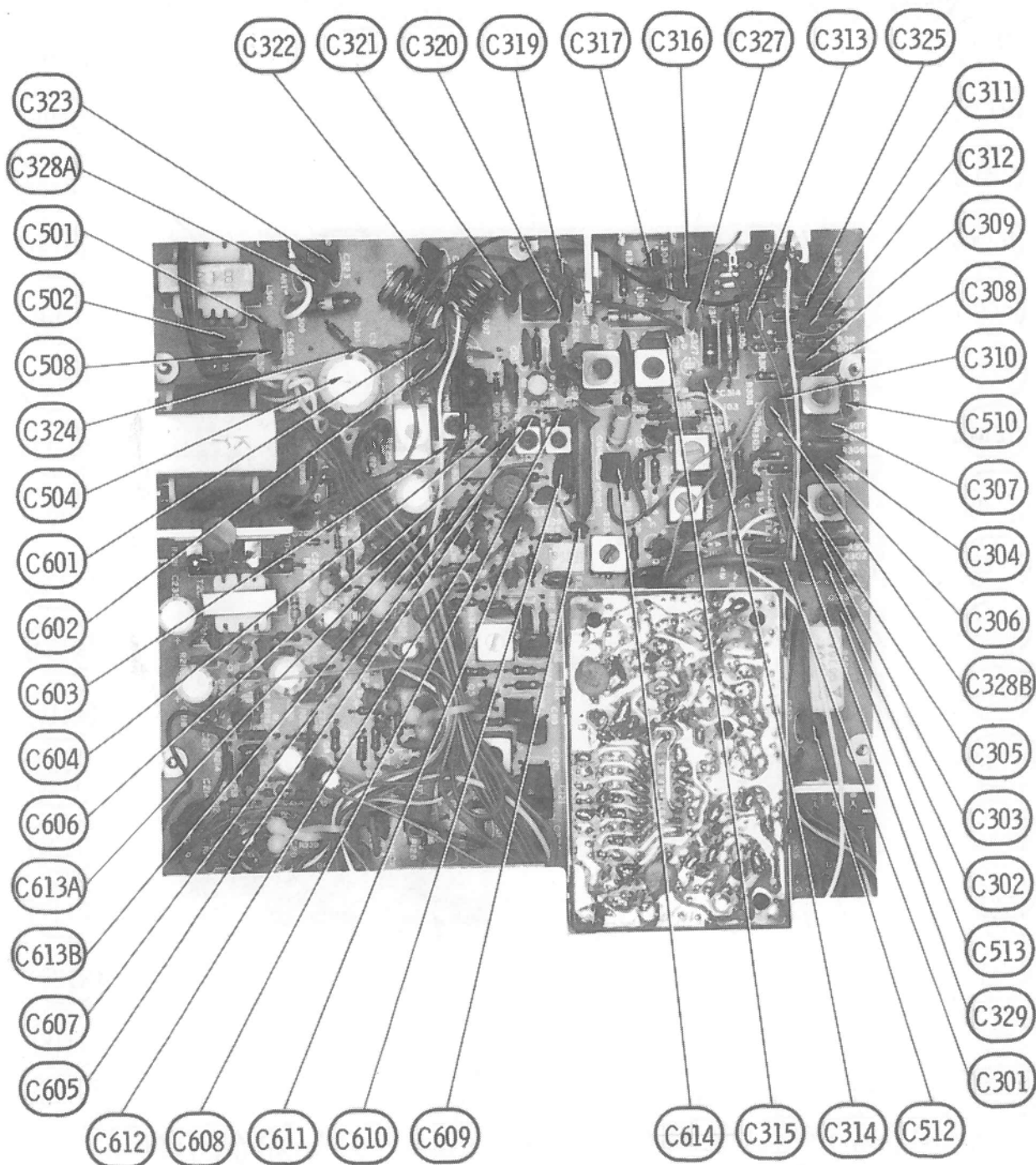


SBE MODEL SBE-42CB

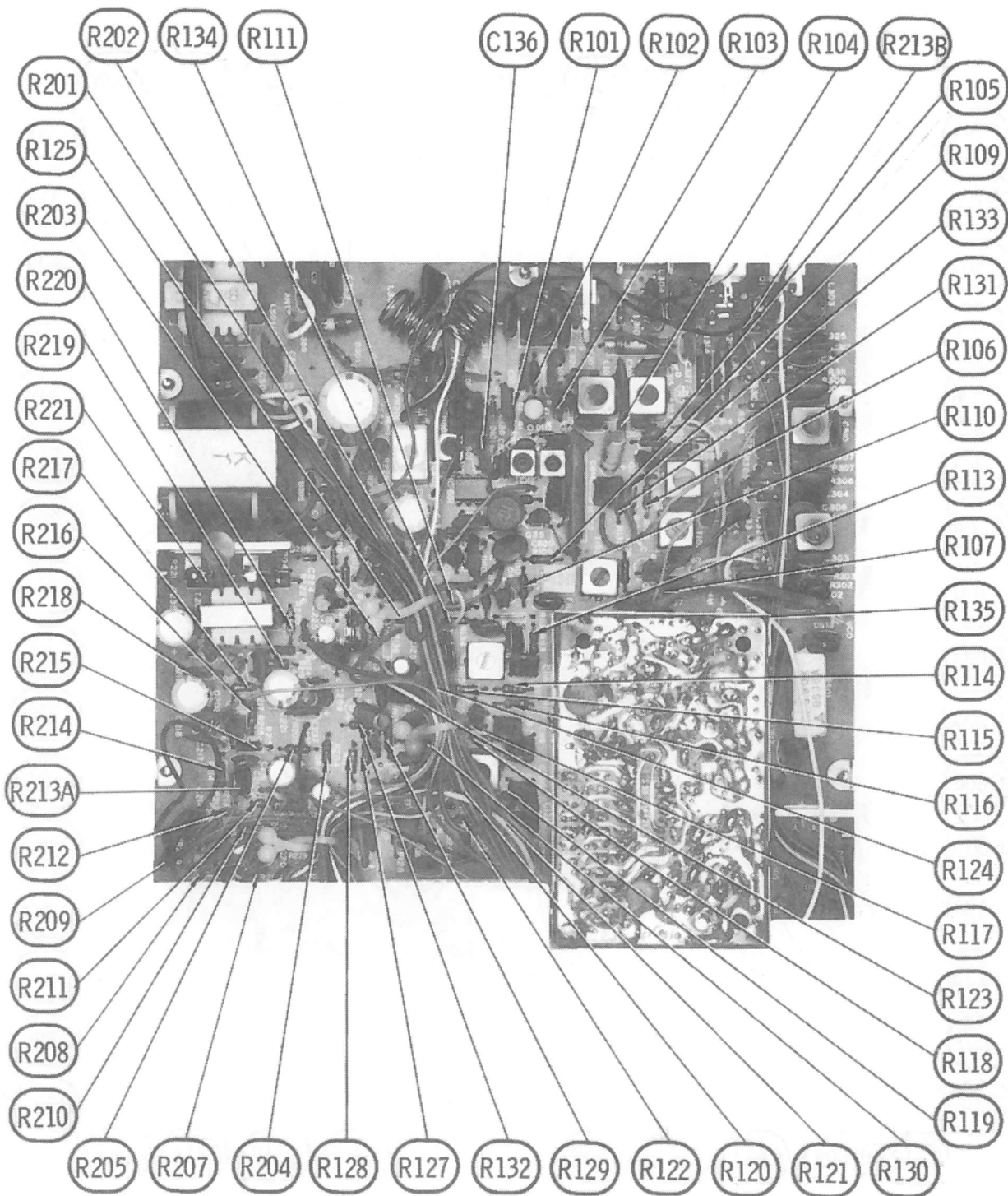
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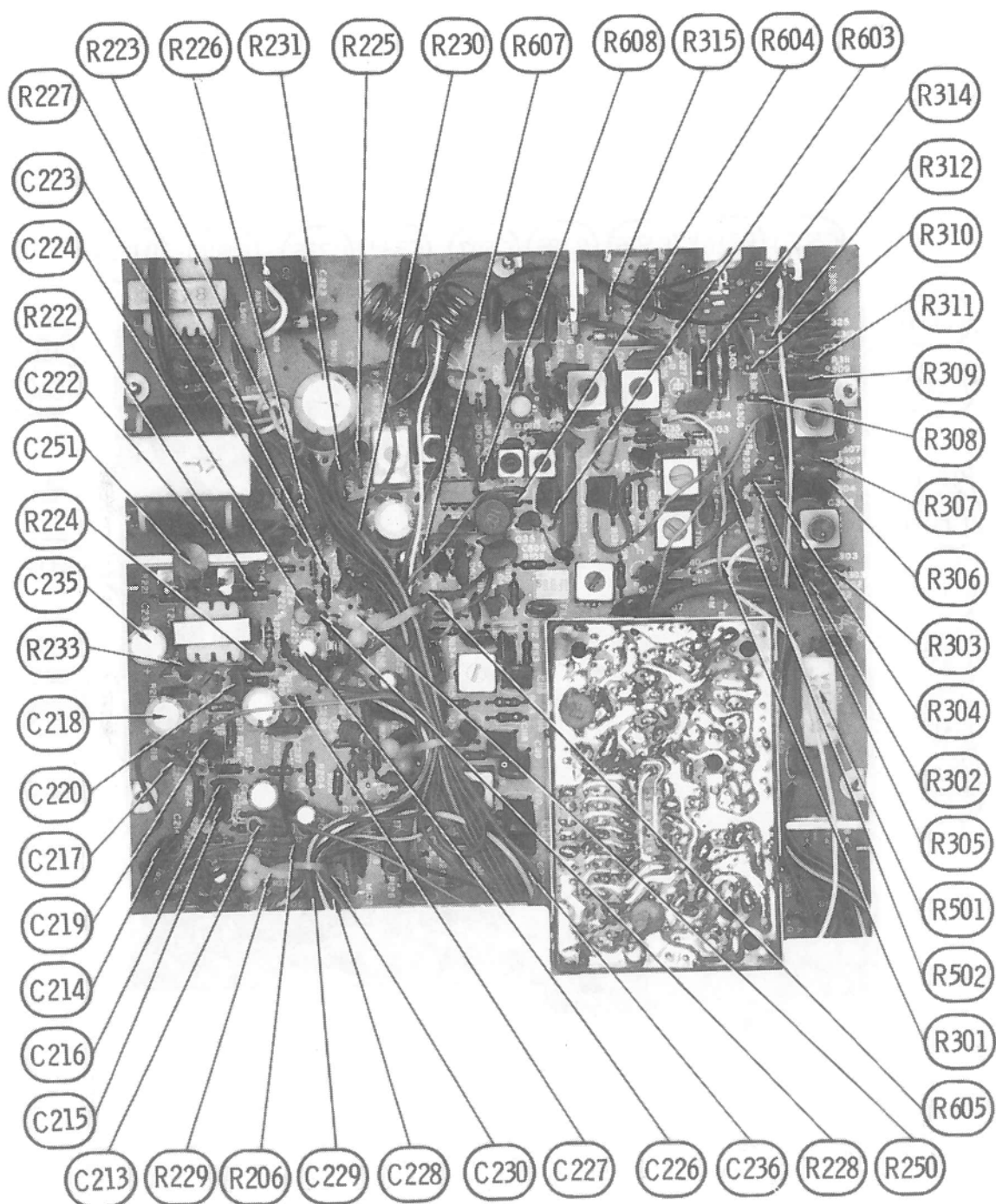
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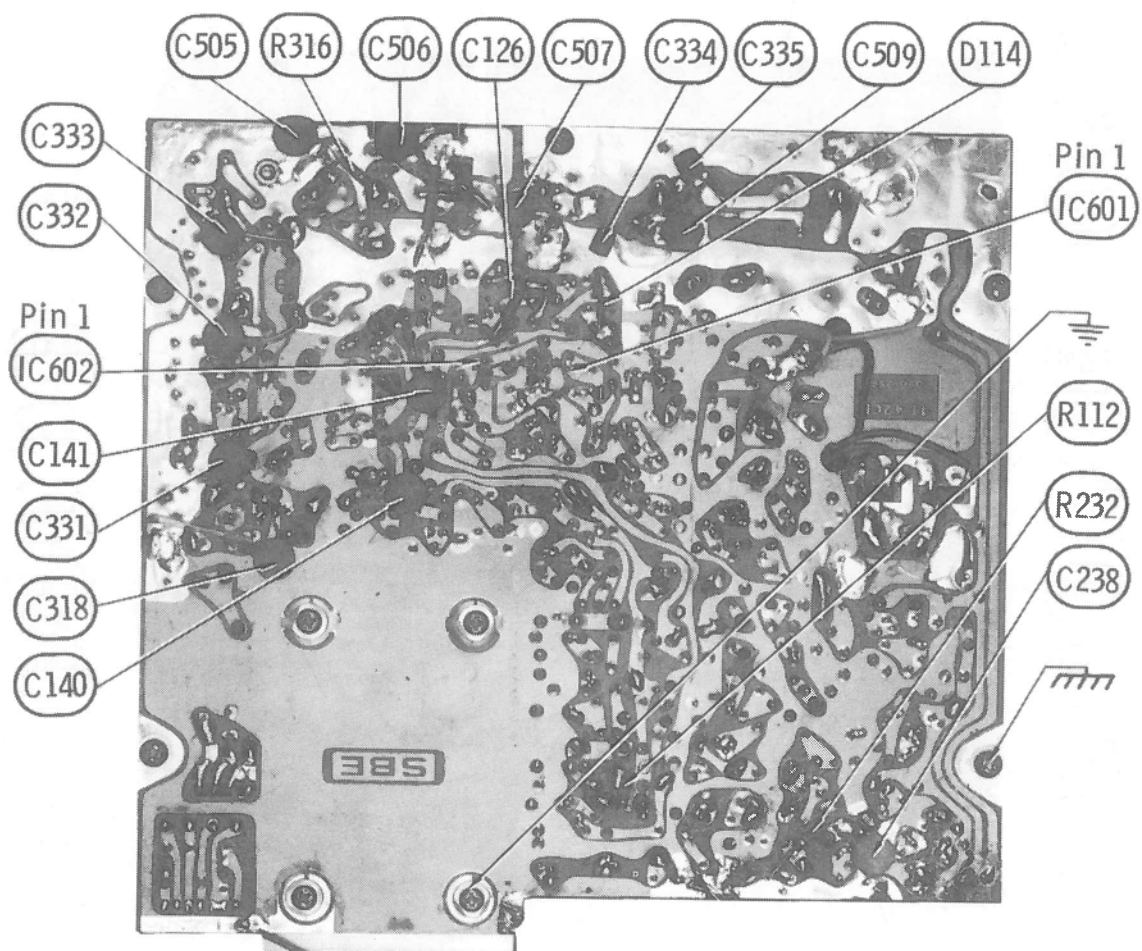
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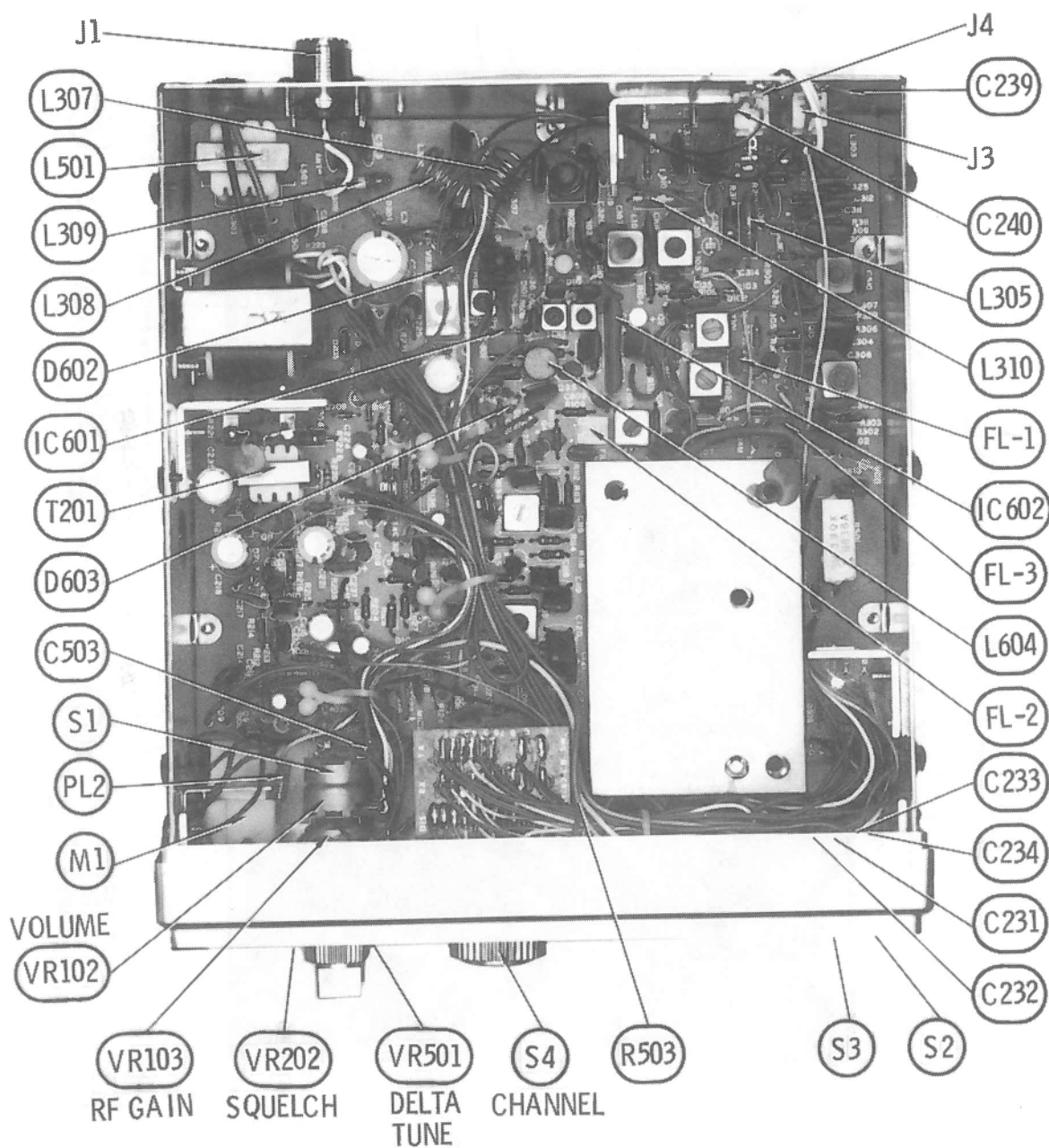
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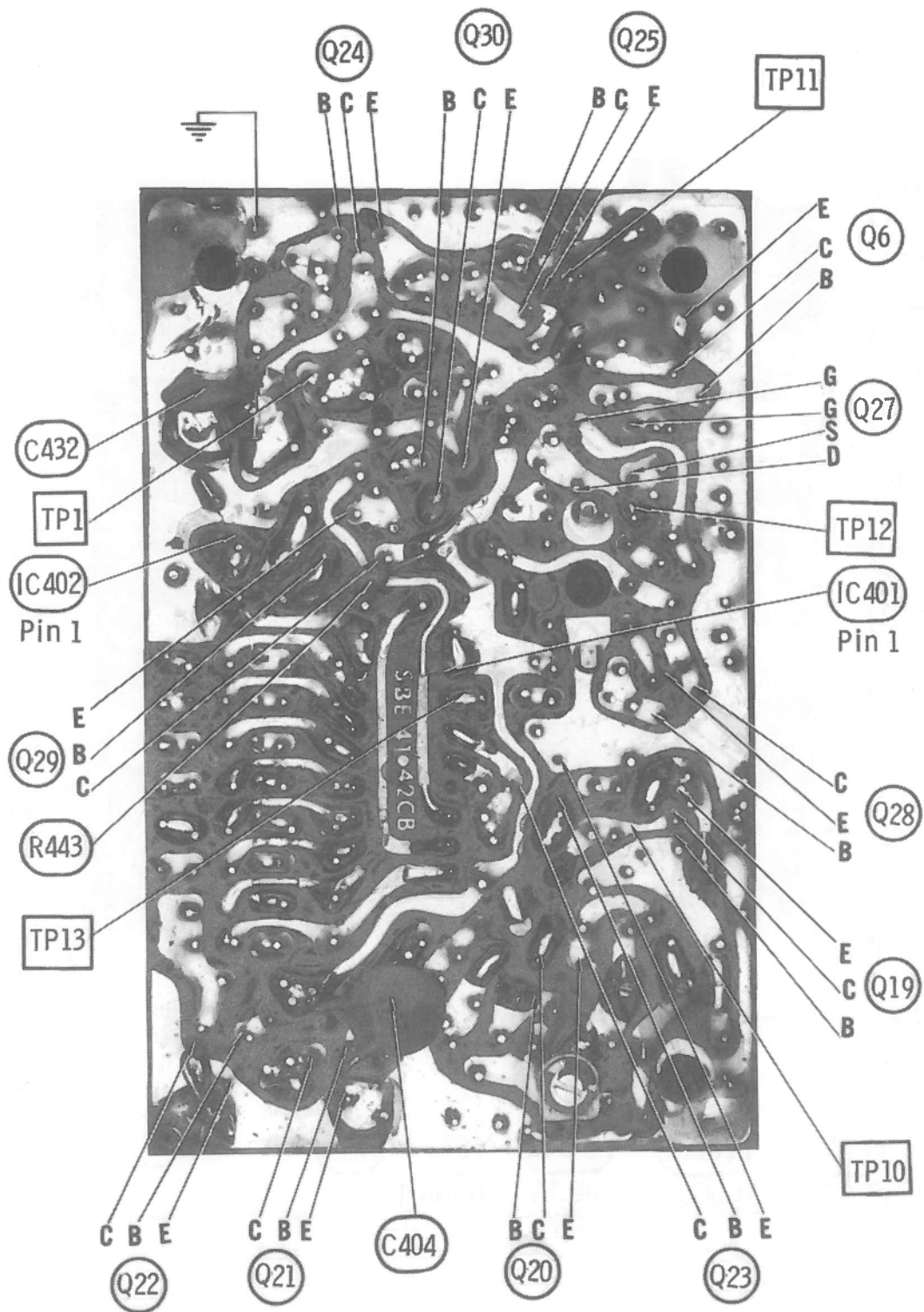
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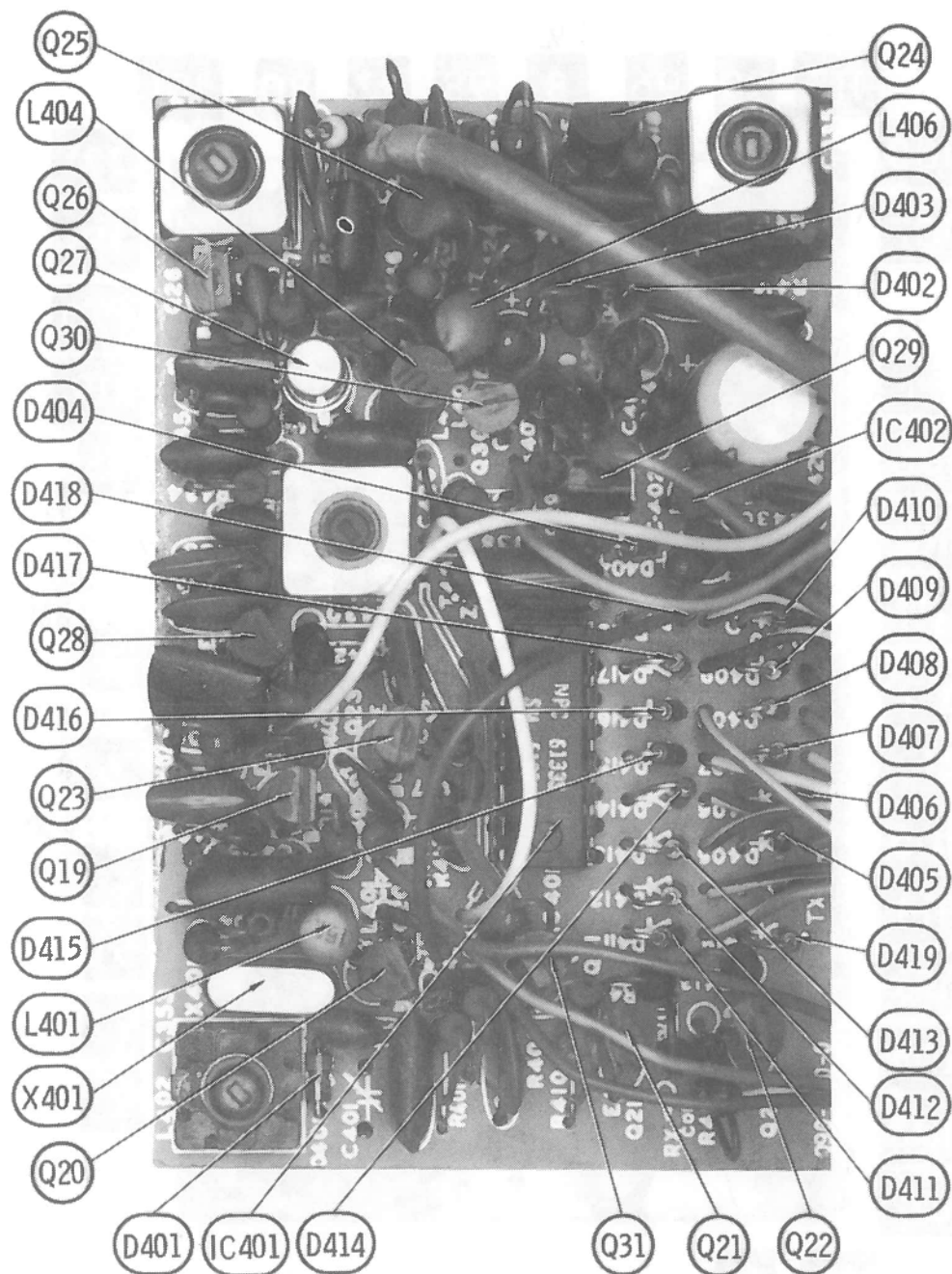
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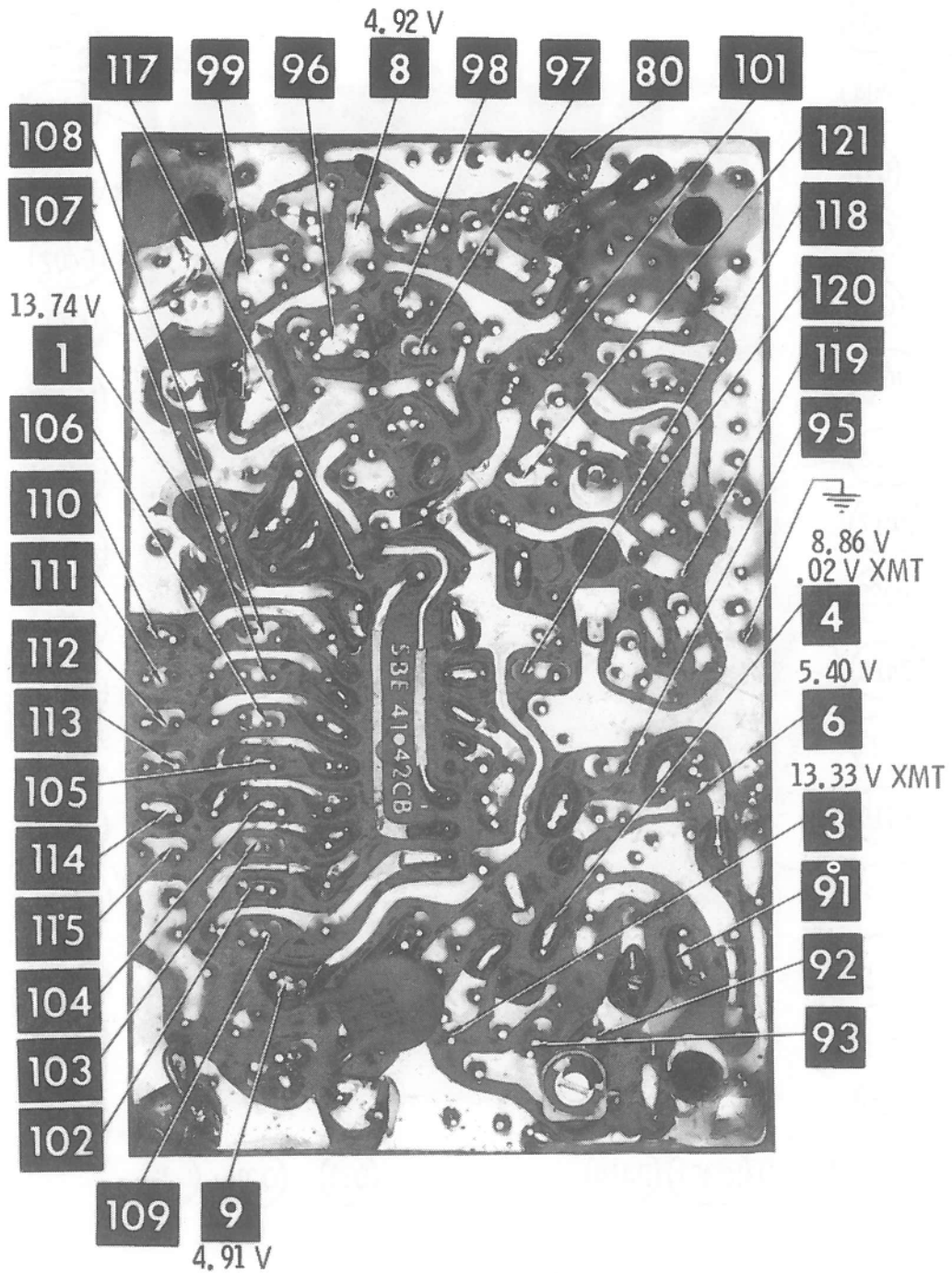
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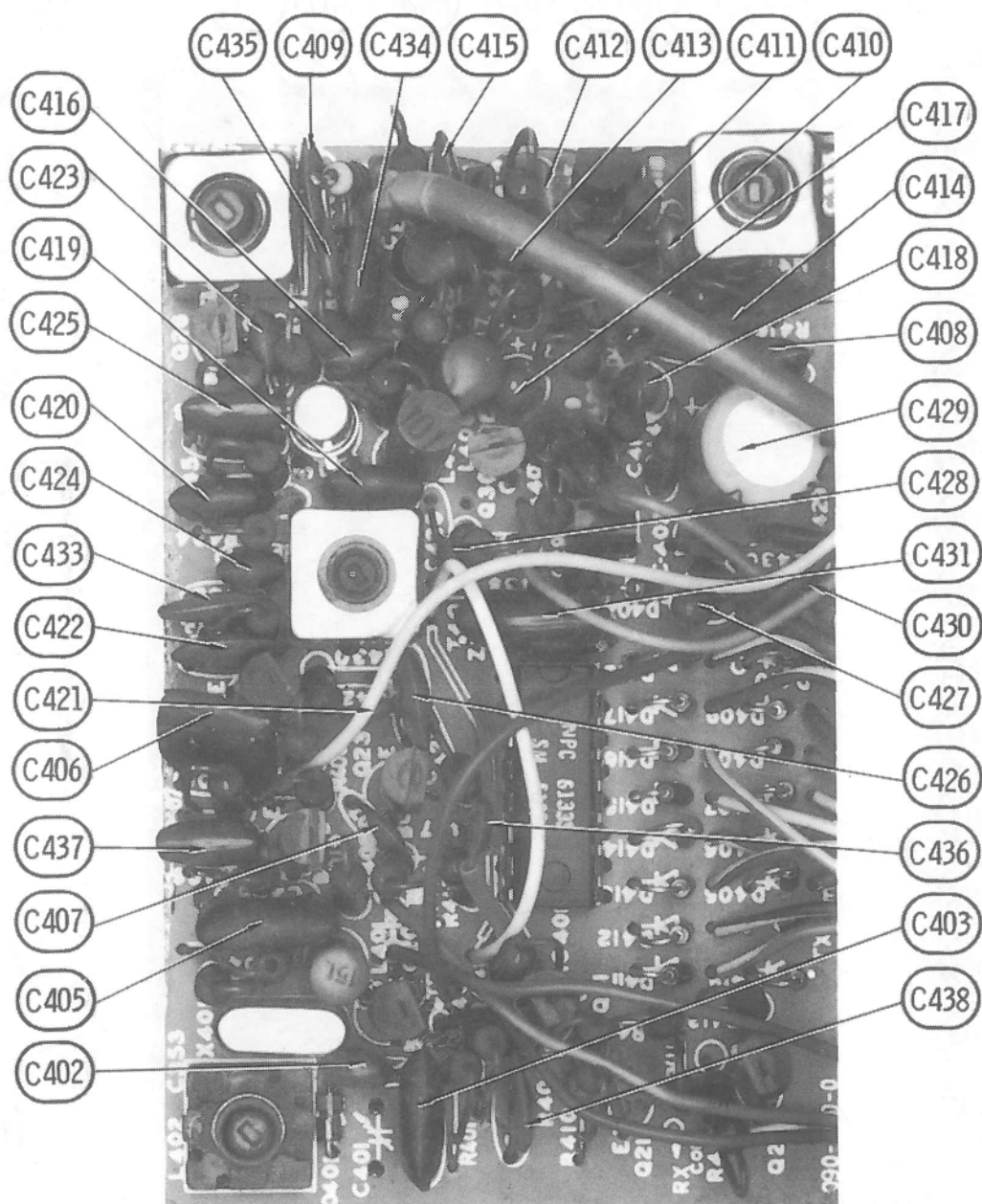
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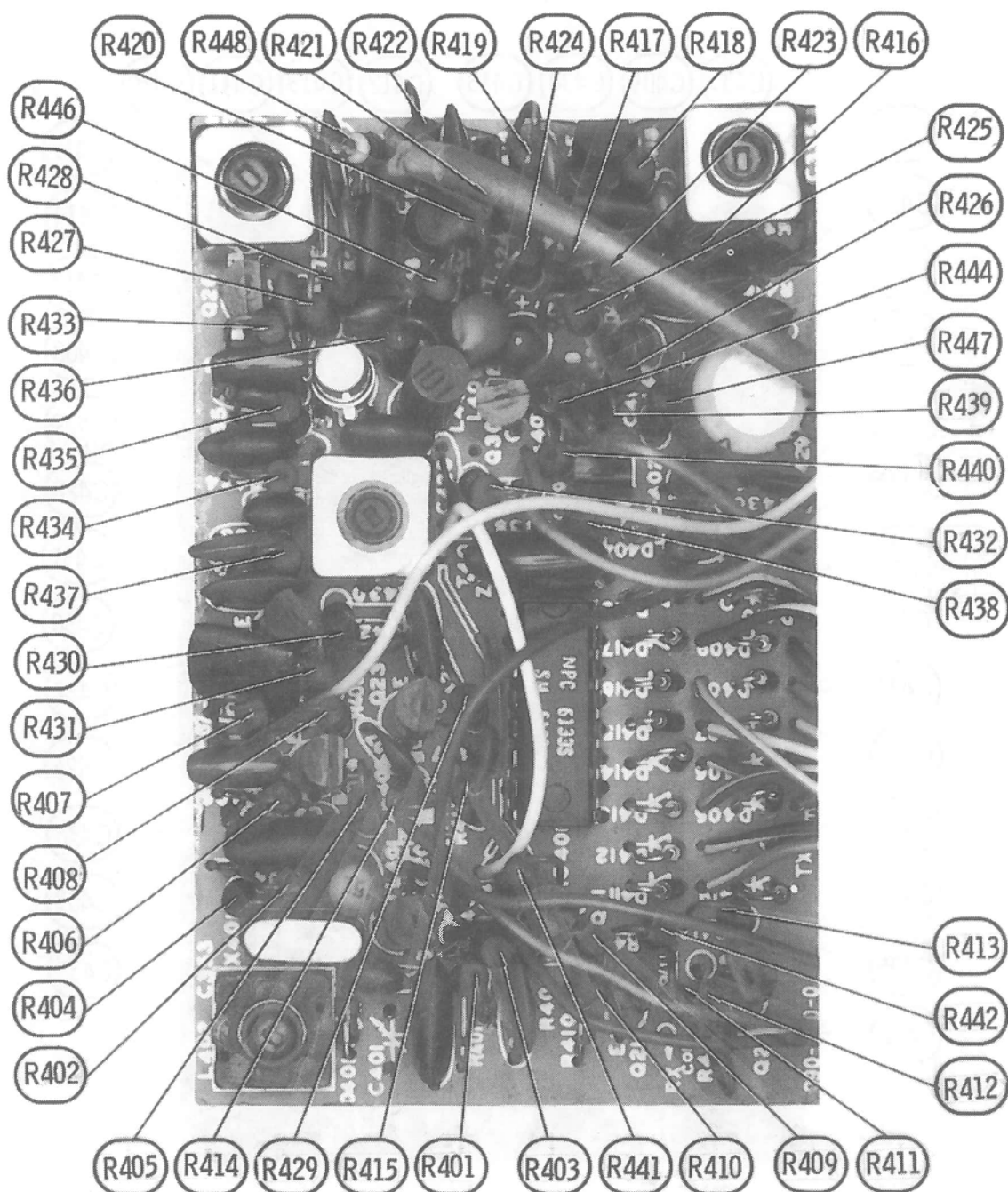
PLL BOARD



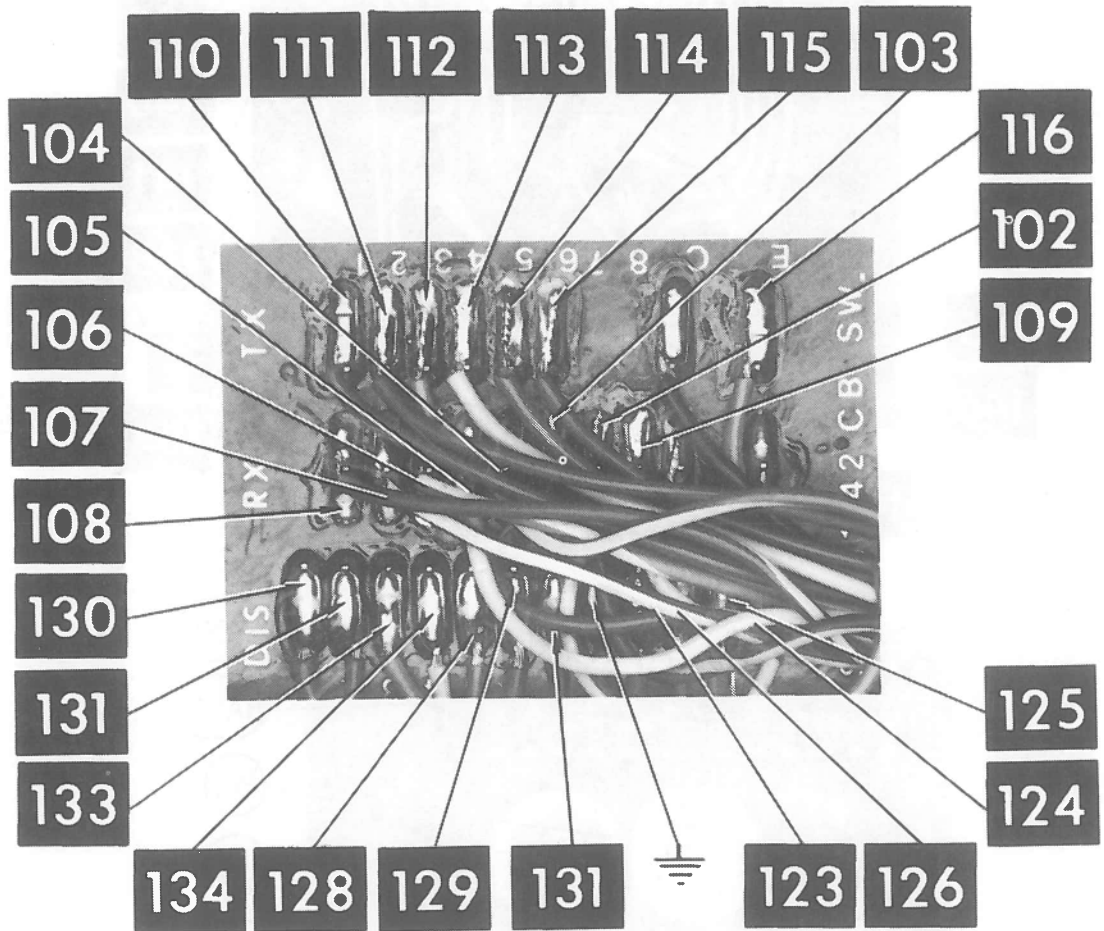
PLL BOARD



PLL BOARD

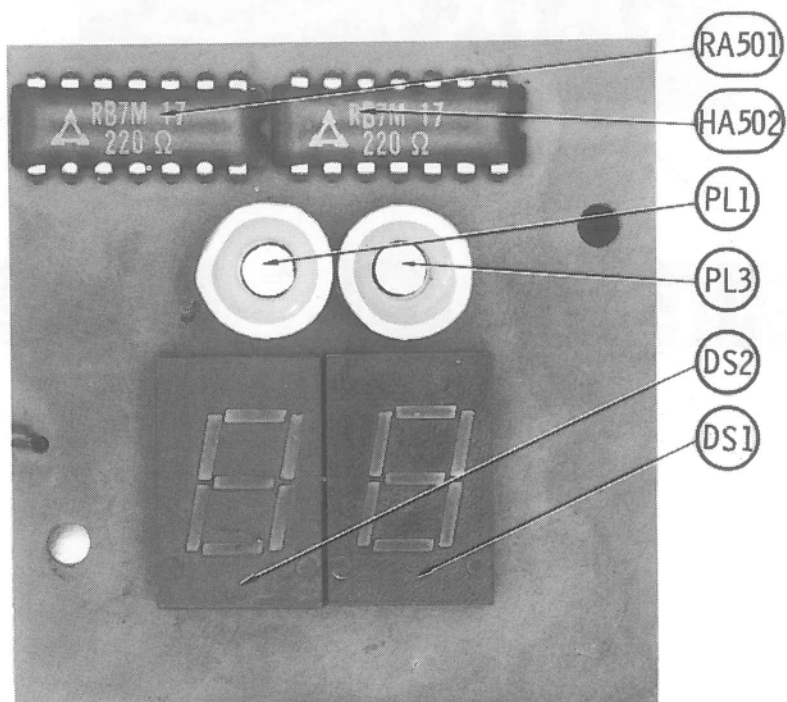
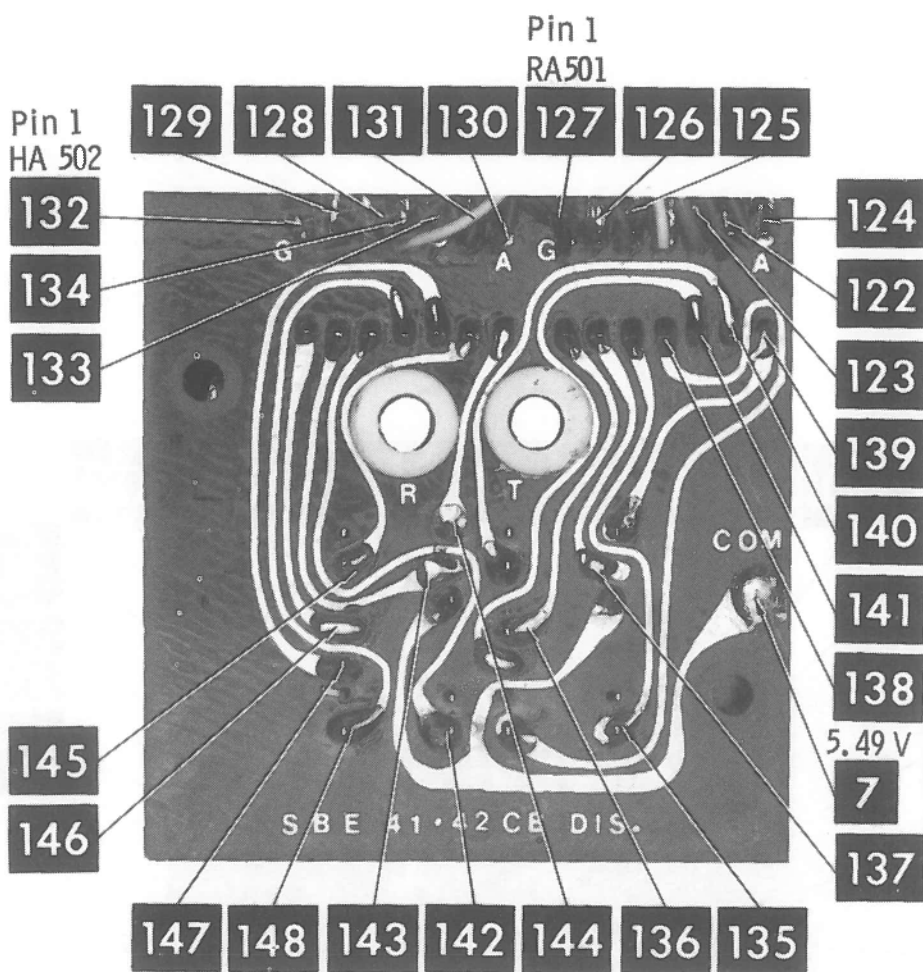


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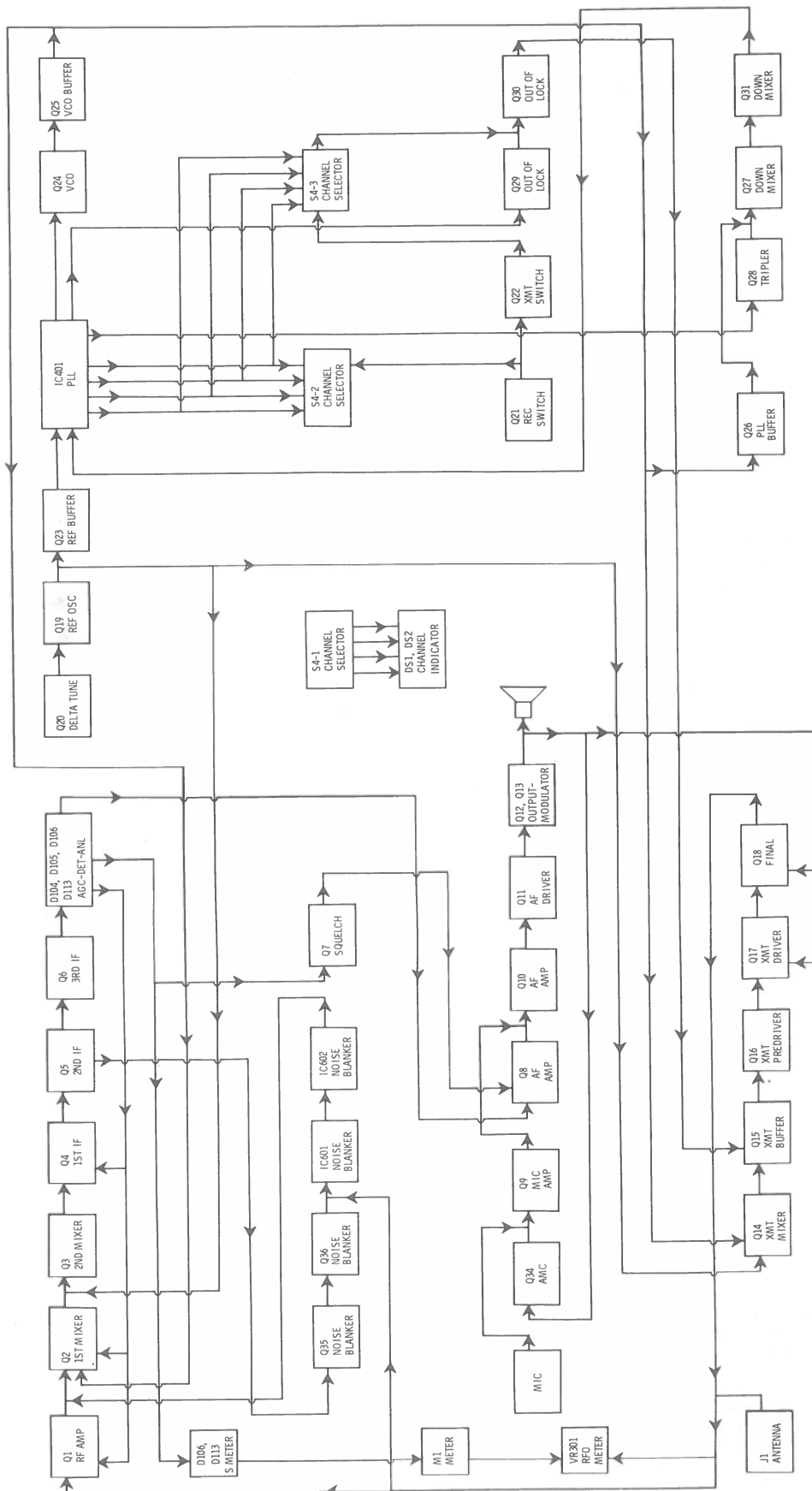


SBE MODEL SBE-42CB

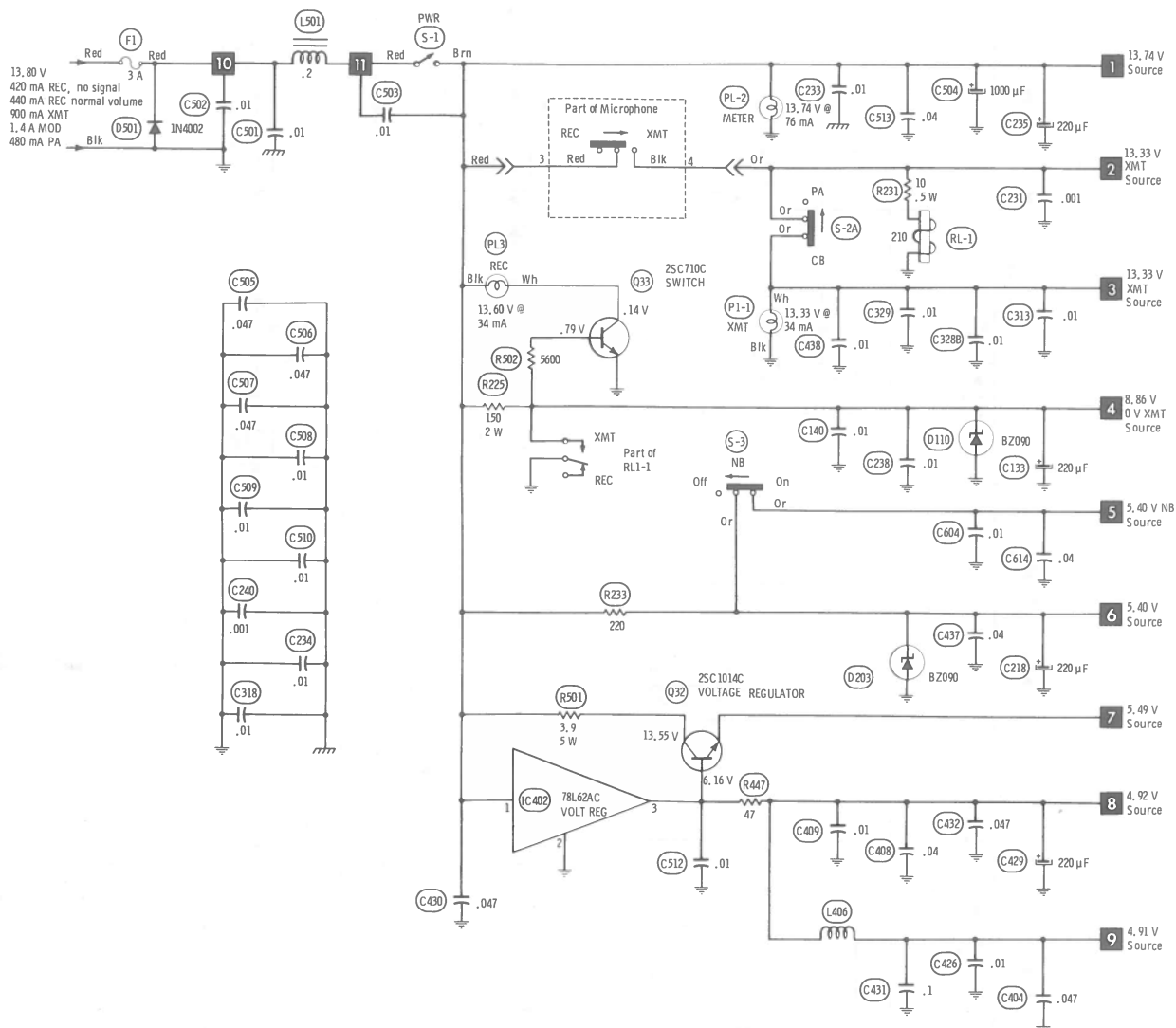
CH. SELECTOR BOARD



LED BOARD



BLOCK DIAGRAM



— Circuitry not used in some versions

--- Circuitry used in some versions

⊕ See parts list

⊗ Nominal value

⊥ Ground

⊥ Chassis

▽ Common tie point

Measurements made in Channel 1 with switching as shown unless noted.

Item numbers in rectangles appear in the alignment/adjustment instructions.

Supply voltage maintained as shown at input.

Voltages measured with digital meter, no signal.

Controls adjusted for normal operation.

Arrow at control indicates direction of advance.

Terminal identification may not be found on unit.

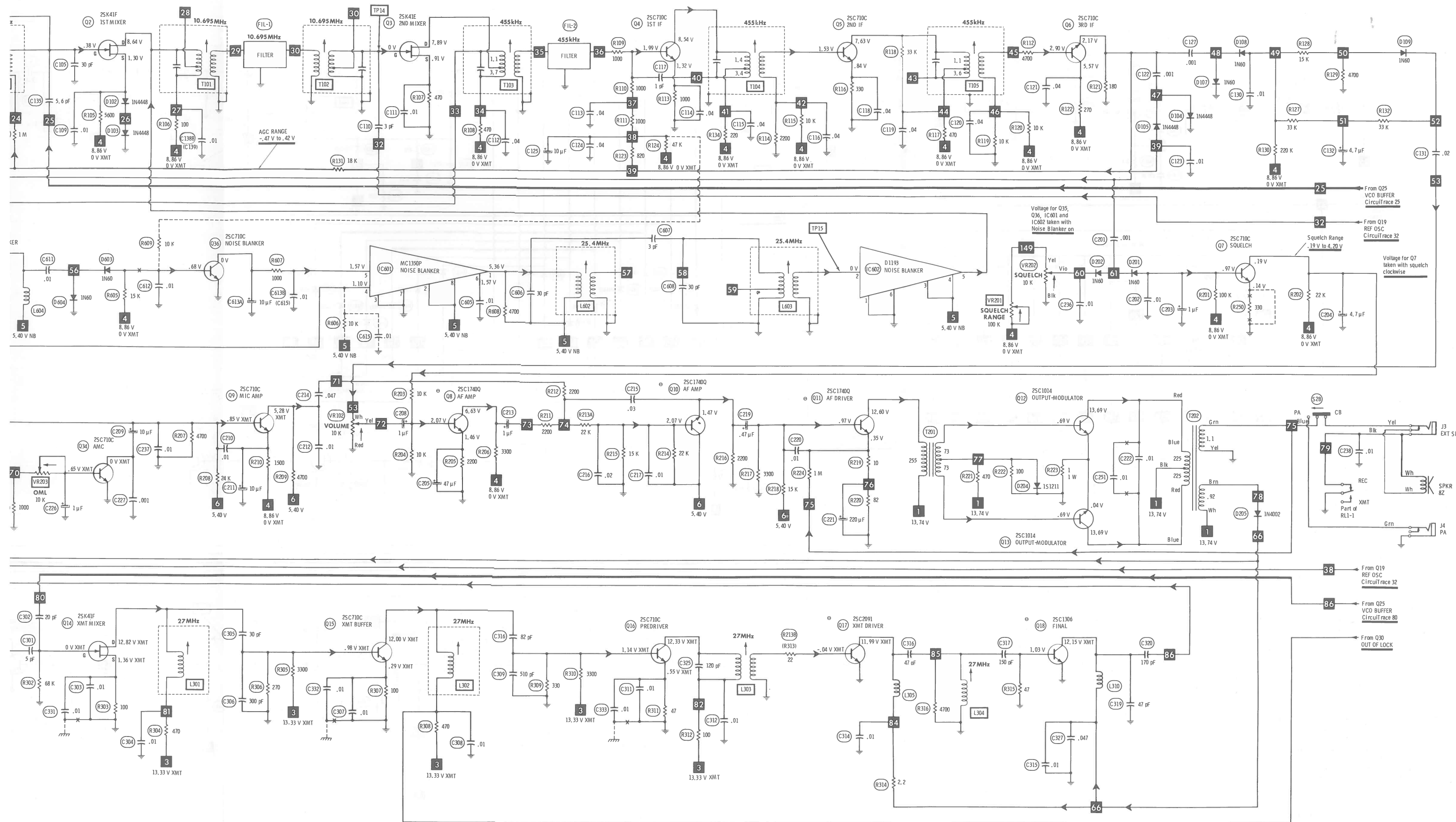
Resistors are 1/2W or less, 5% unless noted.

Value in () used in some versions.

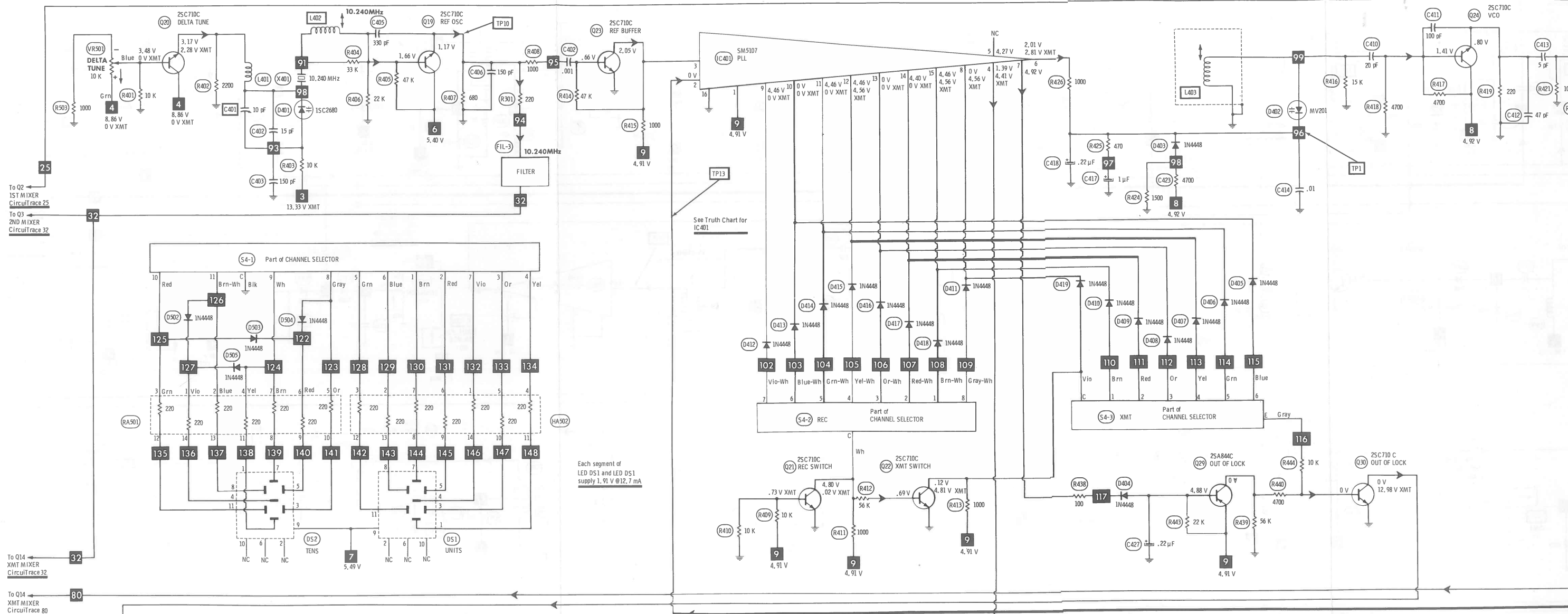
A PHOTOFACIT STANDARD NOTATION SCHEMATIC

WITH **CIRCUITRACE®**

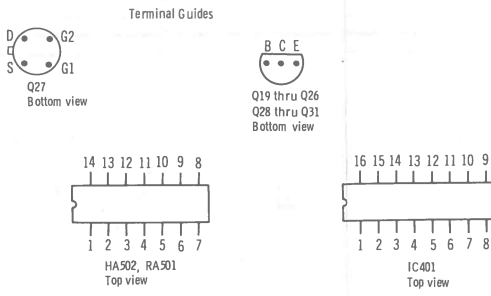
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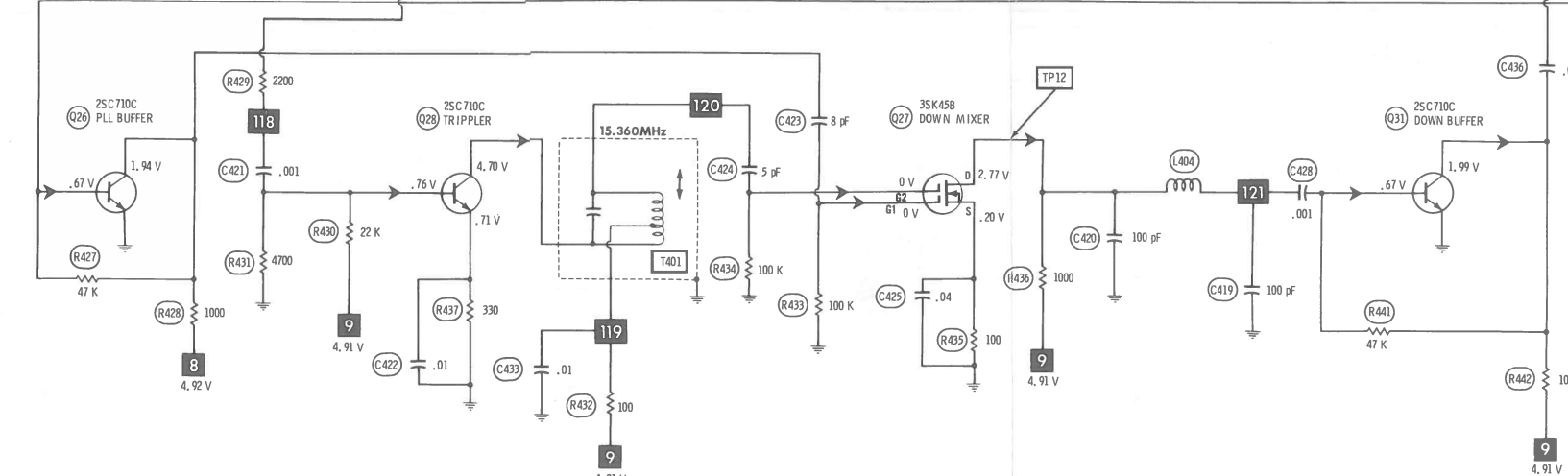
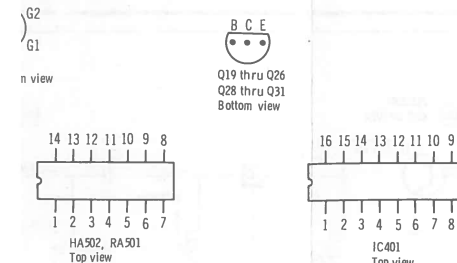
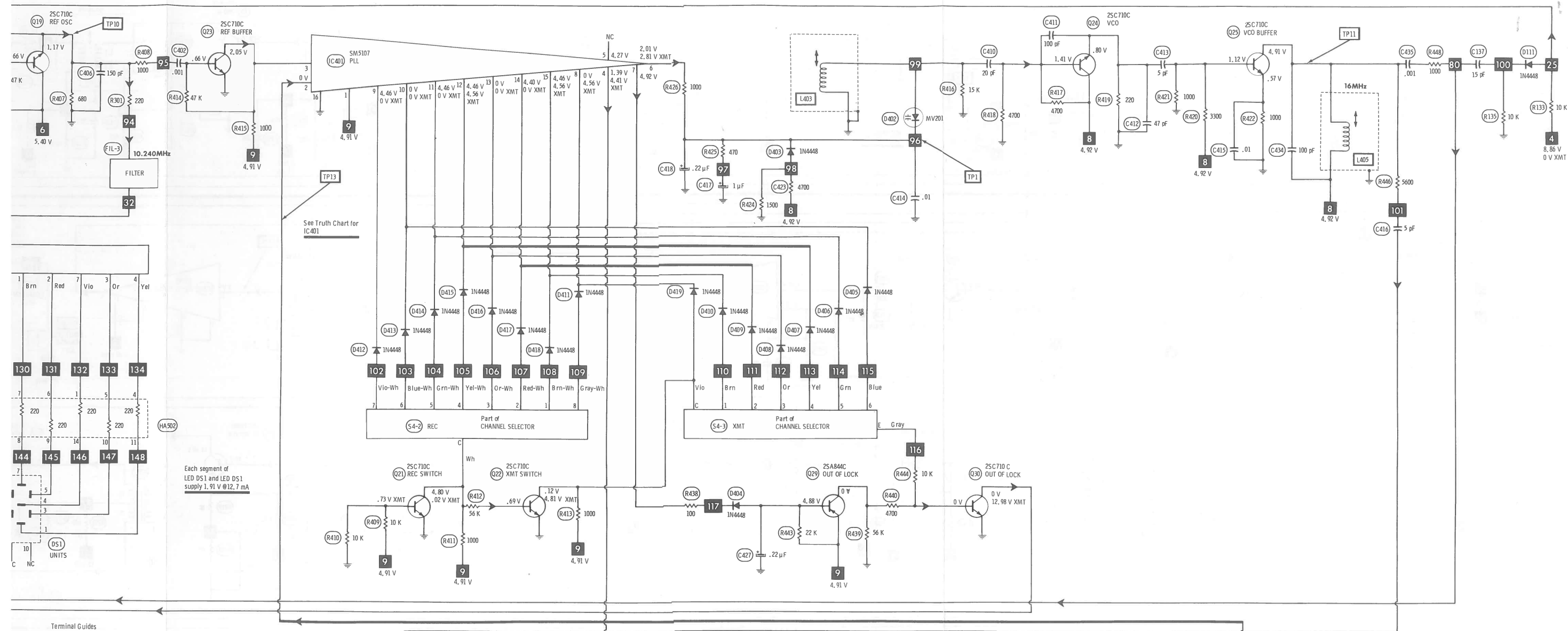


SBE MODEL SBE-42CB



— Circuitry not used in some versions
 --- Circuitry used in some versions
 ⊕ See parts list
 * Nominal value
 ⏏ Ground
 CH Chassis
 ▽ Common tie point
 Measurements made in Channel 1 with switching as shown unless noted. Item numbers in rectangles appear in the alignment/adjustment instructions. Supply voltage maintained as shown at input. Voltages measured with digital meter, no signal. Controls adjusted for normal operation. Arrow at control indicates direction of advance. Terminal identification may not be found on unit. Resistors are 1/2W or less, 5% unless noted. Value in () used in some versions.





PARTS LIST AND DESCRIPTION

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

WIRING DATA

General-use Hook-up Wire (available in 5 colors)	BELDEN No. 8523	Coiled Microphone Cable	
Shielded Hook-up Wire (spiral wrapped)	BELDEN No. 8421	3-conductor (1 shielded) 23AWG	BELDEN No. 9471 (5')
(braided)	BELDEN No. 8401		BELDEN No. 8497 (6')
Speaker Cable (available in 4 colors)	BELDEN No. 8782		BELDEN No. 9472 (7-1/2')
Bonding Strap	BELDEN No. 8672	28AWG	BELDEN No. 9466 (6')
AC Power Cord	(6') BELDEN No. 17106	31AWG	BELDEN No. 9468 (10')
	(9') BELDEN No. 17109	4-conductor (unshielded) 23AWG	BELDEN No. 8415 (6')
		5-conductor (1 shielded) 28AWG	BELDEN No. 9467 (6')
			BELDEN No. 9465 (7-1/2')

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
D101	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D102	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D103	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D104	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D105	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D106	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D107	1N60	8000-00006-007	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D108	1N60	8000-00006-007	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D109	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D110	BZ090	8000-00011-043	GEZD-9.1	ZB9.1B		REN 139		RT-240	ECG139A	1N4739A	WEP1109	103-272
D111	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D113	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D114	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D115	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D201	1N60	8000-00006-007	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D202	1N60	8000-00006-007	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D203	BZ090	8000-00011-043	GEZD-9.1	ZB9.1B		REN 139		RT-240	ECG139A	1N4739A	WEP1109	103-272
D204	1S1211	8000-00011-045		PTC301		REN 601	SK3463		ECG601			
D205	1N4002	8000-00030-010	GE-504A	1N4002	HEPRO052	REN 116	SK3312	RT-213	ECG116	1N4004	WEP156	212-76-02
D206	1N60	8000-00006-007	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D207	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D208	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D209	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D301	1N60	8000-00006-007	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D401	1S2688	8000-00011-166	GE-90		HEPR2503	REN 614		RT-262	ECG614		WEP200	ZEN-453
D402	MV201	8000-00038-010			HEPR2502	REN 612			ECG612			ZEN-452
D403	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D404	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D405	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D406	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D407	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D408	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D409	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D410	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D411	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D412	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D413	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D414	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D415	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D416	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D417	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D418	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D419	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D501	1N4002	8000-00030-010	GE-504A	1N4002	HEPRO052	REN 116	SK3312	RT-213	ECG116	1N4004	WEP156	212-76-02
D502	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D503	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D504	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D505	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D601	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D602	1N4448	8000-00042-007	GE-514	PTC214	HEPRO602	REN 177	SK3100	RT-218	ECG519	1N4148	WEP925	
D603	1N60	8000-00006-007	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
D604	1N60	8000-00006-007	1N60	PTC206	HEPR9135	REN 109	SK3088	RT-263	ECG109	1N60	WEP134	ZEN-430
IC401	SM5107	8000-00052-009										
IC402	78L62AC											
	78L62WV											
	78L06C	8000-00047-006										
IC601	MC1350P		GEIC-217		HEPC6059P		SK3234	TVMC-59	ECG746		WEP2024	
	MC1350	8000-00053-004	GEIC-217		HEPC6059P		SK3234	TVMC-59	ECG746		WEP2024	
IC602	D1193											
	H8D1193	8000-00053-005										
Q1	3SK45B		GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222		WEP905	121-826
	3SK41L	8000-00011-053	GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222		WEP905	121-826
Q2	2SK41F	8000-00050-017	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312			ZEN-123
Q3	2SK41F	8000-00050-017	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312			ZEN-123
Q4	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	25C710	WEP710	121-Z9000*
Q5	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	25C710	WEP710	121-Z9000*
Q6	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	25C710	WEP710	121-Z9000*
Q7	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	25C710	WEP710	121-Z9000*
Q8	2SC1740Q		GE-62	PTC121*	HEPS0015*	REN 123A*	SK3122	RT-109*	ECG123A*		WEP736*	121-972
	2SC1740		GE-62	PTC121*	HEPS0015*	REN 123A*	SK3122	RT-109*	ECG123A*		WEP736*	121-972
	2SC1647	8000-00050-015	GE-62	PTC136	HEPS0015	REN 199	SK3124	RT-302	ECG199		WEP66	121-972
Q9	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	25C710	WEP710	121-Z9000*
Q10	2SC1740Q		GE-62	PTC121*	HEPS0015*	REN 123A*	SK3122	RT-109*	ECG123A*		WEP736*	121-972
	2SC1740		GE-62	PTC121*	HEPS0015*	REN 123A*	SK3122	RT-109*	ECG123A*		WEP736*	121-972
	2SC1647	8000-00050-015	GE-62	PTC146	HEPS0015	REN 199	SK3124	RT-302	ECG199		WEP66	121-972
Q11	2SC1740Q		GE-62	PTC121*	HEPS0015*	REN 123A*	SK3122	RT-109*	ECG123A*		WEP736*	121-972
	2SC1740		GE-62	PTC121*	HEPS0015*	REN 123A*	SK3122	RT-109*	ECG123A*		WEP736*	121-972
	2SC1647	8000-00050-015	GE-62	PTC136	HEPS0015	REN 199	SK3124	RT-302	ECG199		WEP66	121-972
Q12	2SC1014	8000-00004-087	GE-273	PTC193		REN 300	SK3464	RT-137	ECG300	25C482*	WEP1014	
Q13	2SC1014	8000-00004-087	GE-273	PTC193		REN 300	SK3464	RT-137	ECG300	25C482*	WEP1014	
Q14	2SK41F	8000-00050-017	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312			ZEN-123
Q15	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	25C710	WEP710	121-Z9000*
Q16	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	25C710	WEP710	121-Z9000*

SBE MODEL SBE-42CB

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA									
			GENERAL ELECTRIC PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	THORDARSON PART No.	WORKMAN PART No.	ZENITH PART No.
Q17	2SC209L	(12)	GE-270	PTC180		REN 295			ECG295		WEP913	
	2SC1957	8000-00041-047	GE-270	PTC180	HEPS3044	REN 295	SK3197		ECG295		WEP913	
	2SC2086		GE-47*	PTC143*	HEPS3001*	REN 293*			ECG293*		WEP912*	
Q18	2SC1306 (13)	8000-00038-001	GE-215	PTC186		REN 235	SK3197	RT-146	ECG235	2SC1306	WEP785	
	2SC2092		GE-337	PTC186		REN 235	SK3197	RT-146	ECG235	2SC1306	WEP785	
	2SC2166		GE-215	PTC186		REN 235	SK3197	RT-146	ECG235	2SC1306	WEP785	
Q19	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	2SC710	WEP710	121-Z9000*
Q20	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	2SC710	WEP710	121-Z9000*
Q21	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	2SC710	WEP710	121-Z9000*
Q22	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	2SC710	WEP710	121-Z9000*
Q23	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	2SC710	WEP710	121-Z9000*
Q24	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	2SC710	WEP710	121-Z9000*
Q25	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	2SC710	WEP710	121-Z9000*
Q26	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	2SC710	WEP710	121-Z9000*
Q27	3SK45B		GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222		WEP905	121-826
	3SK41L	8000-00011-053	GE-FET-4	PTC182	HEPF2007	REN 222	SK3065	RT-181	ECG222		WEP905	121-826
Q28	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	2SC710	WEP710	121-Z9000*
Q29	2SA844C	8000-00050-016	GE-244*	PTC103*	HEPS0019*	REN 129*	SK3114	RT-126A*	ECG129*		WEP60*	
Q30	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	2SC710	WEP710	121-Z9000*
Q31	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	2SC710	WEP710	121-Z9000*
Q32	2SC101A	8000-00004-087	GE-273	PTC193		REN 300	SK3464	RT-137	ECG300	2SC482*	WEP1014	
Q33	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	2SC710	WEP710	121-Z9000*
Q34	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	2SC710	WEP710	121-Z9000*
Q35	2SK41F	8000-00050-017	GE-FET-2	PTC161	HEPF0021	REN 132	SK3448	RT-175	ECG312		ZEN-123	
Q36	2SC710C	8000-00011-047	GE-211*	PTC132	HEPS0016*	REN 123A*	SK3444	RT-308*	ECG123A*	2SC710	WEP710	121-Z9000*

* Lead configuration may vary from original.

(12) 5.0 W @ 1.0 A.

(13) 12.0 W @ 3.0 A.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C125	10 16V	4-10M16	PC10-25	VTT10B25	QV1-41	EV-1222
C128	1 50V	4-1M50	PC1-50	VTT1A50	QV1-11	EV-1615
C129	1 50V	4-1M50	PC1-50	VTT1A50	QV1-11	EV-1615
C132	4.7 35V		PC5-50	VTT4R7B50	QV1-29	EV-1519
C133	220 16V	4-220M16	PC250-25	VTT220H16	QV1-117	EV-1240
C134	1 50V	4-1M50	PC1-50	VTT1A50	QV1-11	EV-1615
C203	1 50V	4-1M50	PC1-50	VTT1A50	QV1-11	EV-1615
C204	4.7 35V		PC5-50	VTT4R7B50	QV1-29	EV-1519
C205	47 16V	4-47M16	PC50-16	VTT47D16	QV1-73	EV-1226
C206	1 50V	4-1M50	PC1-50	VTT1A50	QV1-11	EV-1615
C208	1 50V	4-1M50	PC1-50	VTT1A50	QV1-11	EV-1615
C209	10 16V	4-10M16	PC10-25	VTT10B25	QV1-41	EV-1222
C211	10 16V	4-10M16	PC10-25	VTT10B25	QV1-41	EV-1222
C213	1 50V	4-1M50	PC1-50	VTT1A50	QV1-11	EV-1615
C218	220 16V	4-220M16	PC250-25	VTT220H16	QV1-117	EV-1240
C219	.47 35V		TDC47M050EL		QDT1-19	SD50-R479
C221	220 16V	4-220M16	PC250-25	VTT220H16	QV1-117	EV-1240
C223	4.7 25V	4-4.7M25	PC5-50	VTT4R7B50	QV1-27	EV-1319
C224	4.7 25V	4-4.7M25	PC5-50	VTT4R7B50	QV1-27	EV-1319
C226	1 50V	4-1M50	PC1-50	VTT1A50	QV1-11	EV-1615
C228	1 50V	4-1M50	PC1-50	VTT1A50	QV1-11	EV-1615
C230	10 16V	4-10M16	PC10-25	VTT10B25	QV1-41	EV-1222
C235	220 16V	4-220M16	PC250-25	VTT220H16	QV1-117	EV-1240
C417	1 25V		TDC105M035EL		QDT1-10	SD35-19
C418	.22 35V		TDC224M050EL		QDT1-10	SD50-R229
C427	.22 35V		TDC224M050EL		QDT1-10	SD50-R229
C429	220 16V	4-220M16	VTT220H16		QV1-117	EV-1240
C504	1000 16V	4-1000M16	VTT1000L16		QV1-183	EV-1260
C613a	10 16V	4-10M16	PC10-25	VTT10B25	QV1-41	EV-1222

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
						Q-LINE
C101	24			CD15ED240J03	SX424	QW1-12
C102	.01		UK50-103		MAG5011	
C103	.01		UK50-103		MAG5011	
C104	20			CD15ED200J03	SX420	QW1-10
C105	30			CD15ED300J03	SX430	QW1-14
C106	3	2-3P50				
C107	.01		UK50-103		MAG5011	
C108	.01		UK50-103		MAG5011	
C109	.01		UK50-103		MAG5011	
C110	3	2-3P50				

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C111	.01		UK50-103		MAG5011		
C112	.04 10%				M192P3939R8	QFT2-159	1FT-S39
C113	.04 10%				M192P3939R8	QFT2-159	1FT-S39
C114	.04 10%				M192P3939R8	QFT2-159	1FT-S39
C115	.04 10%				M192P3939R8	QFT2-159	1FT-S39
C116	.04 10%				M192P3939R8	QFT2-159	1FT-S39
C117	1			CD15CD010D03		QW1-1	MWA-010
C118	.04 10%				M192P3939R8	QFT2-159	1FT-S39
C119	.04 10%				M192P3939R8	QFT2-159	1FT-S39
C120	.04 10%				M192P3939R8	QFT2-159	1FT-S39
C121	.04 10%				M192P3939R8	QFT2-159	1FT-S39
C122	.001		DD-102		GP210		10TS-D10
C123	.01		UK50-103		MAG5011		
C124	.04 10%				M192P3939R8	QFT2-159	1FT-S39
C126	.001		DD-102		GP210		10TS-D10
C127	.001		DD-102		GP210		10TS-D10
C130	.01		UK50-103		MAG5011		
C131	.02 10%				M192P2239R8	QFT2-127	1FT-S22
C135	5.6		C33A5R6D(1)				10TCC-V56
C136	.01		UK50-103		MAG5011		
C137	15			CD15CD15QJ03		QW1-8	MWA-150
C138a	.01		UK50-103		MAG5011		
C138b	.01		UK50-103		MAG5011		
C140	.01		UK50-103		MAG5011		
C141	.01		UK50-103		MAG5011		
C201	.001				GP210		10TS-D10
C202	.01		UK50-103		MAG5011		
C207	.01		UK50-103		MAG5011		
C210	.01		UK50-103		MAG5011		
C212	.01		UK50-103		MAG5011		
C214	.047 10%			DPMS2S47	EWFA1A147	QFT2-171	1FT-S47
C215	.03 10%					QFT2-148	1FT-S30
C216	.02 10%					QFT2-127	1FT-S22
C217	.01		UK50-103		M192P2239R8		
C220	.01		UK50-103		MAG5011		
C222	.01		UK50-103		MAG5011		
C227	.001		DD-102		GP210		10TS-D10
C229	.01		UK50-103		MAG5011		
C231	.001		DD-102		GP210		10TS-D10
C232	.01		UK50-103		MAG5011		
C233	.01		UK50-103		MAG5011		
C234	.01		UK50-103		MAG5011		
C236	.01		UK50-103		MAG5011		
C237	.01		UK50-103		MAG5011		
C238	.01		UK50-103		MAG5011		
C239	.01		UK50-103		MAG5011		
C240	.001		DD-102		GP210		10TS-D10
C251	.01		UK50-103		MAG5011		
C301	5			CD15CD050D03		QW1-2	MWA-050
C302	20			CD15ED200J03	SX420	QW1-10	MWA-200
C303	.01		UK50-103		MAG5011		
C304	.01		UK50-103		MAG5011		
C305	30			CD15ED300J03	SX430	QW1-14	MWA-300
C306	300 10%			CD15FD301J03	SX330	QW1-38	MWA-301
C307	.01		UK50-103		MAG5011		
C308	.01		UK50-103		MAG5011		
C309	510 10%			CD15FD511J03	SX351	QW1-43	MWA-511
C310	82 10%			CD15ED82QJ03	SX482	QW1-25	MWA-820
C311	.01		UK50-103		MAG5011		
C312	.01		UK50-103		MAG5011		
C313	.01		UK50-103		MAG5011		
C314	.01		UK50-103		MAG5011		
C315	.01		UK50-103		MAG5011		
C316	47			CD15ED470J03	SX447	QW1-19	MWA-470
C317	150 10%			CD15FD151J03	SX315	QW1-31	MWA-151
C318	.01		UK50-103		MAG5011		
C319	47			CD15ED470J03	SX447	QW1-19	MWA-470
C320	170 10%			CD15FD181J03	SX318	QW1-33	MWA-181
C321	300 10%			CD15FD301J03	SX330	QW1-38	MWA-301
C322	200 10%			CD15FD201J03	SX320	QW1-34	MWA-201
C323	200 10%			CD15FD201J03	SX320	QW1-34	MWA-201
C324	.01		UK50-103		MAG5011		
C325	120 10%			CD15FD121J03	SX312	QW1-29	MWA-121
C327	.047		UK50-503		MAG5015		
C328a	100 NPO		DTZ-100	NP0100	CN0310		10TCC-T10
C328b	.01		UK50-103		MAG5011		
C329	.01		UK50-103		MAG5011		
C331	.01		UK50-103		MAG5011		
C332	.01		UK50-103		MAG5011		
C333	.01		UK50-103		MAG5011		
C334	12			CD12CD120J03		QW1-7	MWA-120
C335	35			CD15ED360J03	SX436		MWA-360
C401	10						
C402	15			CD15CD150J03		QW1-8	MWA-150
C403	150 10%			CD15FD151J03		QW1-31	MWA-151
C404	.047		UK50-503		SX315		
C405	330 10%			CD15FD331J03	MAG5015	QW1-39	MWA-331
C406	150 10%			CD15FD151J03	SX333	QW1-31	MWA-151
C407	.001		DD-102		GP210		10TS-D10
C408	.04 10%				M192P3939R8	QFT2-159	1FT-S39
C409	.01		UK50-103		MAG5011		
C410	20 N750		DTN-20	N20	CN7420		10TCU-Q20
C411	100 10%			CD15FD101J03	SX310	QW1-27	MWA-101
C412	47 N470 10%	1-47P50			*		10TCT-Q47
C413	5			CD15CD050D03		QW1-2	MWA-050

SBE MODEL SBE-42CB

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA					
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.		
						Q-LINE	GENERAL LINE	
C414	.01	2-3P50	UK50-103	CD15CD050D03 CD15FD101J03 CD15FD101J03	MAG5011 MAG5011	QW1-2 QW1-27 QW1-27	MWA-050	
C415	.01		UK50-103		SX310 SX310 GP210 MAG5011		MWA-101	
C416	5		DD-102 UK50-103				M192P3939R8 MAG5011 GP210 MAG5015 EWF05010 MAG5015 MAG5011	MWA-101
C419	100 10%							10TS-D10
C420	100 10%			CD15CD080D03 CD15CD050D03		QW1-5 QW1-2 QFT2-159		MWA-080
C421	.001				MWA-050			
C422	.01		1FT-S39					
C423	8		WMF05P1		QFT2-91		10TS-D10	
C424	5			1FT-S10				
C425	.04 10%			CD15FD101J03		QW1-27	MWA-101	
C426	.01						10TS-D10	
C428	.001		M192P3939R8 MAG5011 GP210 GP210		QFT2-159		10TS-D10	
C430	.047						1FT-S39	
C431	.1 10%			UK50-503 UK50-103		QW1-14 QW1-6 QFT2-159	MWA-300	
C432	.047						MWA-100	
C433	.01		1FT-S39					
C434	100 10%		CD15ED360J03 CD15ED360J03		SX436 SX436 GP210 MAG5011 MAG5011 SX430		MWA-300	
C435	.001			MWA-100				
C436	.001			DD-102		QW1-14 QW1-6 QFT2-159	MWA-300	
C437	.04 10%						1FT-S39	
C438	.01		UK50-103		M192P3939R8 MAG5011 MAG5011 MAG5011 MAG5015 MAG5015 MAG5015 MAG5011 MAG5011 MAG5011 MAG5011		MWA-300	
C501	.01		UK50-103				MWA-100	
C502	.01		UK50-103	CD15ED300J03		SX430 SX436 GP210 MAG5011 MAG5011 SX430	MWA-300	
C503	.01		UK50-103				MWA-100	
C505	.047		UK50-503		M192P3939R8 MAG5011 MAG5011 MAG5011 MAG5015 MAG5015 MAG5015 MAG5011 MAG5011 MAG5011 MAG5011		1FT-S39	
C506	.047		UK50-503				MWA-360	
C507	.047		UK50-503	MWA-360				
C508	.01		UK50-103	10TS-D10				
C509	.01		UK50-103	CD15ED300J03	SX430 SX436 GP210 MAG5011 MAG5011 SX430	MWA-300		
C510	.01		UK50-103			MWA-100		
C512	.01		UK50-103			M192P3939R8 MAG5011 MAG5011 MAG5011 MAG5015 MAG5015 MAG5015 MAG5011 MAG5011 MAG5011 MAG5011	MWA-300	
C513	.04 10%		UK50-103				MWA-100	
C601	35		DD-102	QW1-14 QW1-6 QFT2-159	MWA-300			
C602	35				1FT-S39			
C603	.001				UK50-103	CD15ED300J03	SX430 SX436 GP210 MAG5011 MAG5011 SX430	MWA-300
C604	.01				UK50-103			MWA-100
C605	.01		UK50-103	M192P3939R8 MAG5011 MAG5011 MAG5011 MAG5015 MAG5015 MAG5015 MAG5011 MAG5011 MAG5011 MAG5011	1FT-S39			
C606	30		UK50-103		MWA-300			
C607	3		UK50-103		MWA-100			
C608	30		CD15ED300J03 CD15CD100J03		SX430	QW1-14 QW1-6 QFT2-159	MWA-300	
C609	10	MWA-100						
C610	.04 10%	UK50-103 UK50-103 UK50-103		M192P3939R8 MAG5011 MAG5011 MAG5011 MAG5011 M192P3939R8			1FT-S39	
C611	.01						1FT-S39	
C612	.01		UK50-103		QFT2-159	1FT-S39		
C613b	.01		UK50-103			M192P3939R8	1FT-S39	
C614	.04 10%	UK50-103	1FT-S39					
C615	.01	UK50-103	1FT-S39					

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

(1) Axial replacement for radial device.

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA			
			MFR. PART No.	CENTRALAB PART No.	MALLORY PART No.	TRW PART No.
VR101	S Meter	5000	8000-00051-019			X260R502B (2)
VR102	Volume	10K	8000-00004-098 (18)			
VR103	RF Gain/Power Switch	10K				X260R104B (2)
VR201	Squelch Range	100K	8000-00004-094			
VR202	Squelch	10K	8000-00004-256 (19)			
VR501	Delta Tune	10K				X260R103B (2)
VR203	OML	10K	8000-00004-096			X260R502B (2)
VR301	RF0 Meter	5000	8000-000051-019			

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

(18) Includes VR102 and VR103.

(19) Includes VR202 and VR501.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFR. PART No.			WORKMAN PART No.	MFR. PART No.
HA502	Resistor Network(1)			RA501	Resistor Network(1)		
R501	3.9, 5W		8000-00045-013				

(1) Consists of seven 220 resistors.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L101	Rec Antenna (27MHz)	8000-00038-018	C294		(1) Cut off unwanted terminals and rotate to use two desired terminals.
L102	Rec RF (27MHz)	8000-00050-012	C337BD		
L103	Rec RF (27MHz)	8000-00050-012	C337BD		
L301	XMT Mixer (27MHz)	8000-00052-001	C410DZ		
L302	XMT Buffer (27MHz)	8000-00052-002	C409NZ		
L303	Pre-Driver (27MHz)	8000-00004-118	C042D	CB746	
L304	Driver (27MHz)	8000-00004-075	C043N	CB140(1)	
L305	RF Choke (25uH)	8000-00030-011			
L306	Final (27MHz)	8000-00004-077	C045Z	CB144(1)	
L307	Pi Filter	8000-00047-027	C997HD		
L308	Antenna	8000-00047-027	C997ND		
L309	Antenna Matching (.4uH)	8000-00053-014			
L310	RF Choke (.65uH)	8000-00004-055			
L401	Delta Tune (150uH)	8000-00011-018			
L402	Osc. (10.240MHz)	8000-00038-022	Z353ZZ		
L403	VCO	8000-00038-023	Z355N		
L404	RF Choke (100uH)	8000-00049-037			
L405	VCO Buffer	8000-00038-017	C354NZ		
L406	RF Choke (33uH)	8000-00052-006			
L601	Input Blanker (25.4MHz)	8000-00037-004	C544NT		
L602	Noise Blanker (25.4MHz)	8000-00053-001	Z56ONT		
L603	Noise Blanker (25.4MHz)	8000-00053-002	Z561DT		
L604	RF Choke				
T101	Rec Mixer (10.695MHz)				
T102	IF (10.695MHz)	8000-00050-014	F001AS		
T103	Rec Mixer (455kHz)	8000-00038-021	A293AD		
T104	IF (455kHz)	8000-00012-034	E1A227B	2067	
T105	IF (455kHz)	8000-00038-021	A293AD		
T401	Tripler (15.360MHz)	8000-00011-026	X1761T	CBS131-TC	

SBE MODEL SBE-42CB

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.	
L501	1.4A	.2	1.98mH	8000-00050-010 K-18(1)	TR555		(1) Number on unit..

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T201	1	2.5		8000-00030-019 A-31(1)			(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T202	32	1 8 2 18	8000-00052-008 E77 (1)			(1) Number on unit.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP1	2 3/4" PM 8 Ohms	8000-00011-057		

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
F1	3A Quick Acting			AGC-3	HDJ	312003	150145	FG3-2

MICROPHONE

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

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
DS1	LED	800-00048-017	Channel Display
DS2	LED	800-00048-017	Channel Display
FIL-1	Filter	8000-00028-209	10.7MHz
FIL-2	Filter	8000-00004-139	455kHz
FIL-3	Filter	8000-00052-036	10.240MHz
J1	Jack	8000-00004-069	Antenna
J2	Jack	8000-00004-070	MIC
J3	Jack	8000-00030-021	Ext.
J4	Jack	8000-00030-021	PA
M1	Meter	8000-00052-023	S/RFO
PL-1	Lamp	8000-00004-142	XMT 13.33V @ 34mA
PL-2	Lamp	8000-00011-056	Meter 13.74V @ 76mA
PL-3	Lamp	8000-00004-142	Rec 13.60V @ 34mA
RL-1	Relay	8000-00050-020	XMT/Rec
S-1	Switch		Power (Part of Volume Control)
S-2	Switch	8000-00051-042	PA/CB
S-3	Switch	8000-00051-042	NB ON/OFF
S-4	Switch	8000-00052-022	Channel Selector
X401	Crystal	8000-00038-011	10.240MHz
	Printed Circuit Board	8000-00052-013	Channel Switch
	Printed Circuit Board	8000-00052-010	Main
	Printed Circuit Board	8000-00052-011	PLL

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

ITEM	PART No.	ITEM	PART No.
Cabinet, Bottom	8000-00052-028	Knob, Channel	8000-00052-025
Cabinet, Top	8000-00052-027	Knob, Inner	8000-00053-006
Chassis	8000-00052-021	Knob, Outer	8000-00053-007
Front Panel	8000-00052-020		