



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.



BROWNING MODEL BARON

MODEL Baron

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

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Printed in U. S. of America

7CF634

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. Suggested Alignment Tools: GC Electronics:

L3.....5097
 L304,R86,R134,T4 thru T8,T301,T302.....5009
 L5,L301,L302,L303,T1,T2,T3,T9 thru T12,T303..9440
 C56,C82.....5000
 R9,R10,R12,R49,R72,R317,R324,R328.....5000

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP314.	Ch. 19 AM		Check for 5.120MHz.
Input of frequency counter to TP315.	Ch. 19 AM Clarifier at midrange	L303	Adjust for 17.0555MHz.
Input of frequency counter to TP311.	Ch. 19 AM Clarifier at midrange	R328	Adjust for 34.985MHz.
Input of frequency counter to TP311.	Ch. 19 USB Clarifier at midrange	R324	Adjust for 34.987MHz.
Input of frequency counter to TP311.	Ch. 19 LSB Clarifier at midrange		Check for 19.382MHz.
Input of DC meter to TP302.	Ch. 19 AM Clarifier at midrange	R322	Adjust for 5.14V.
Input of frequency counter and RF VTVM to TP311.	Ch. 19 AM Clarifier at midrange	L302	Adjust for maximum at 34.985MHz.
Input of frequency counter to TP311.	Ch. 19 USB		Check for 34.9875MHz.
Input of frequency counter and RF VTVM to TP311.	Ch. 19 LSB	L301	Adjust for maximum at 19.3825MHz.
Input of frequency counter to TP4.	Ch. 19 USB	C82	Adjust for 7.8025MHz.
Input of frequency counter and RF VTVM to TP308.	Ch. 19 LSB	T301,T302, T303	Adjust for maximum at 18.507MHz.
Input of Oscilloscope to TP317.	Ch. 19 AM	L304	Adjust for MINIMUM squaring.
Input of DC meter to TP316.	Ch. 1 AM		Check for 3.95 volts.

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil. Adjust volume control to obtain a suitable indication. Set generator output low enough to prevent AGC limiting.

AM

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP318. 7.8MHz,1000Hz @ 30% modulation.	Ch. 19 AM Clarifier at midrange RF at maximum	T6,T5,T4	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz,1000Hz @ 30% modulation.	Ch. 19 AM Clarifier at midrange RF at maximum	T1,T2,T3	Adjust for maximum output.

RECEIVER ALIGNMENT

Connect an AC VTVM or AF wattmeter across speaker voice coil. Adjust volume control to obtain a suitable indication. Set generator output low enough to prevent AGC limiting.

SSB

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP318. 7.8015MHz unmodulated.	Ch. 19 USB Clarifier at midrange RF at maximum	T5,T4	Adjust for maximum output.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF wattmeter across speaker voice coil.
Adjust volume control to obtain a suitable indication.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 1000uV.	Ch. 19 AM Clarifier at midrange RF at maximum	R49	SQUELCH RANGE Set Squelch Control R51 fully clockwise. Adjust R49 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 19 AM Clarifier at midrange RF at maximum	R10	S METER Adjust R10 for 9 on S scale of meter.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation. Output 1uV. Input of oscilloscope to speaker voice coil.	Ch. 19 AM Clarifier at midrange RF at maximum	R12	RF GAIN Adjust R12 for best signal to noise ratio.

TRANSMITTER ALIGNMENT

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

AM

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
	Ch. 19 AM	T8, T9, T10, T11, T12, L5, L7, L3	Adjust for maximum.
Input of frequency counter to antenna jack.	Ch. 19 AM	R317	Adjust R317 for 26.965MHz.

TRANSMITTER ALIGNMENT

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

SSB

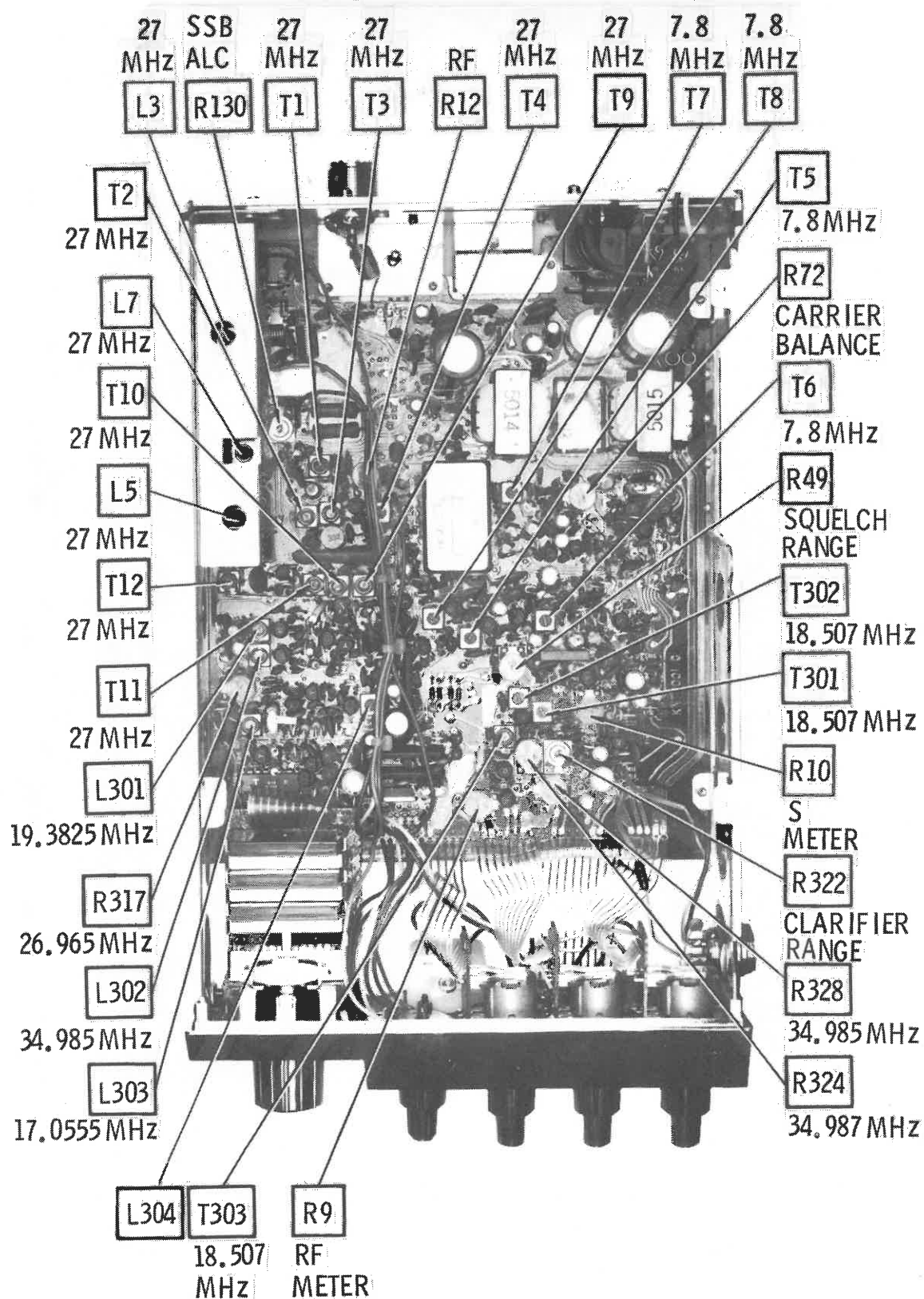
TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Inject a 1000Hz, 100mV signal at MIC input.	Ch. 19 USB	T7	Adjust for maximum RF output.

TRANSMITTER ADJUSTMENTS

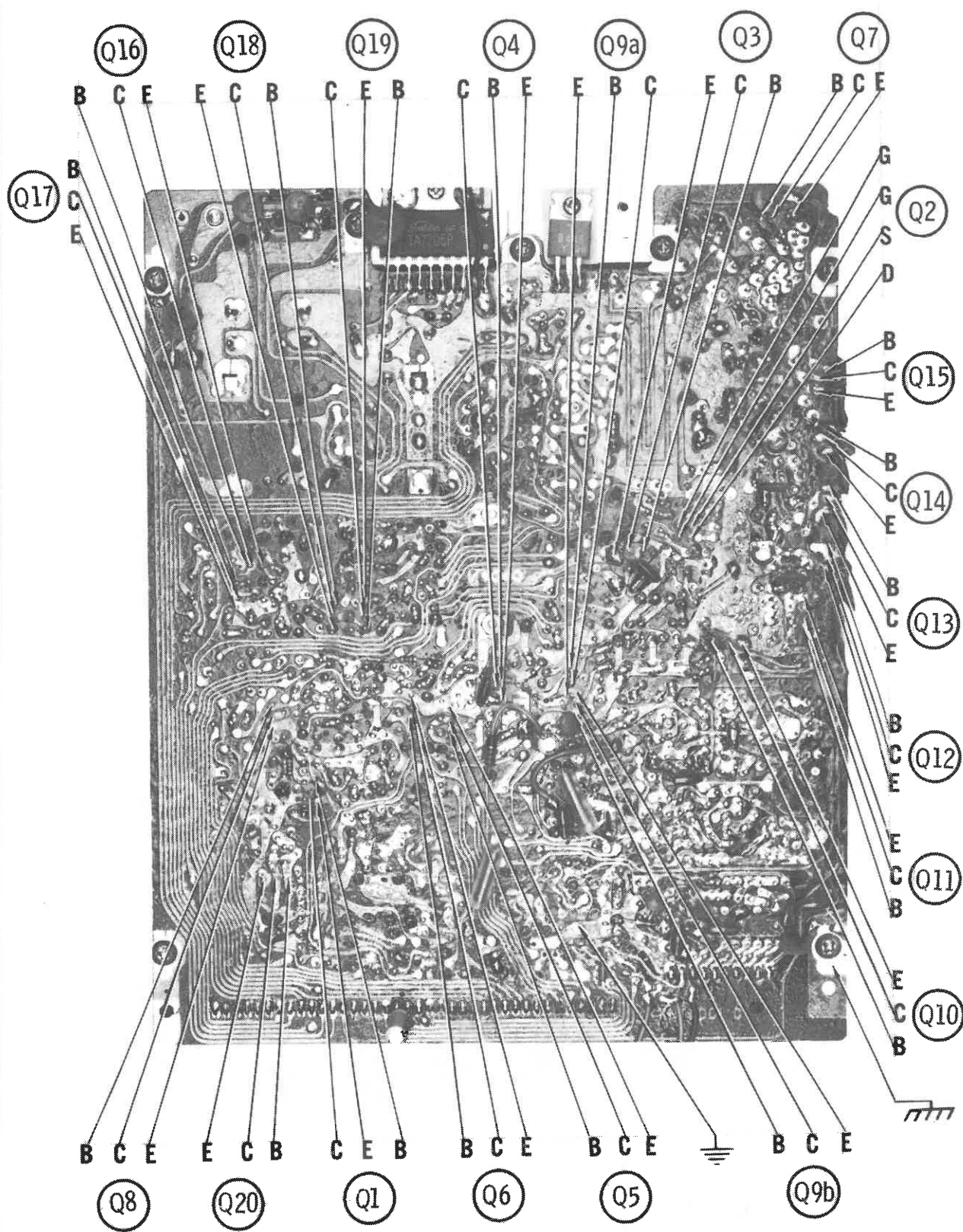
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.
NOTE: Be sure to check transmitter frequency and power on all active channels after adjustment of transmitter.
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of oscilloscope to antenna jack. No signal input.	Ch. 19 USB	R72, C56	CARRIER BALANCE Adjust for MINIMUM RF output.
Inject a 1000Hz, 100mV signal at MIC input.	Ch. 19 AM	R134	AM AMC Adjust for 100% modulation maximum.
Inject a 1000Hz, 100mV signal at MIC input.	Ch. 19 USB	R86, R176	SSB BIAS Adjust for maximum.
	Ch. 19 AM	R9	RF PANEL METER Adjust R9 so that RF panel meter agrees with RF wattmeter.
Inject a 1000Hz, 100mV signal at MIC input.	Ch. 19 USB	R130	SSB ALC Adjust R130 for 12 watts maximum.

BROWNING MODEL BARON

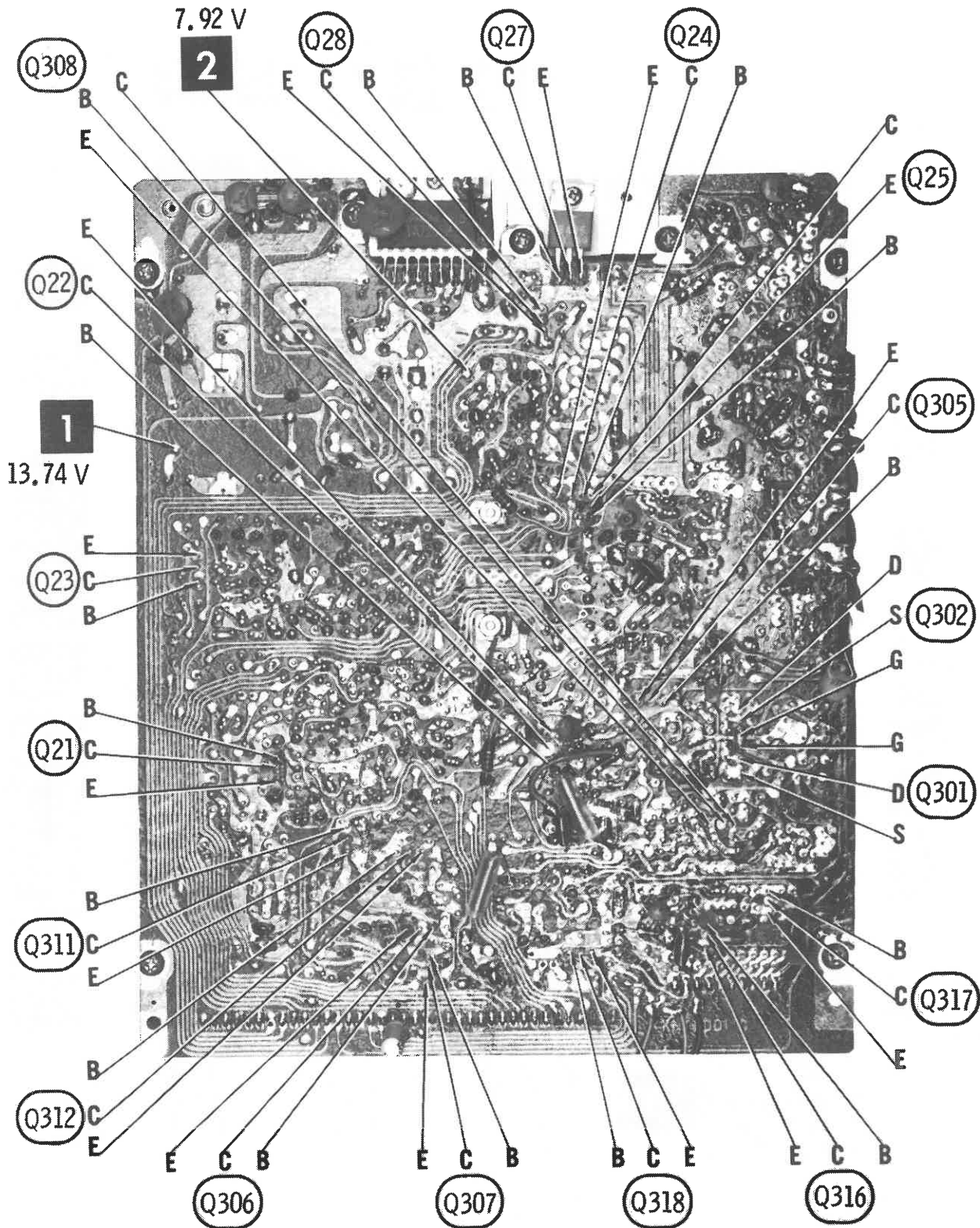


CHASSIS-BOTTOM

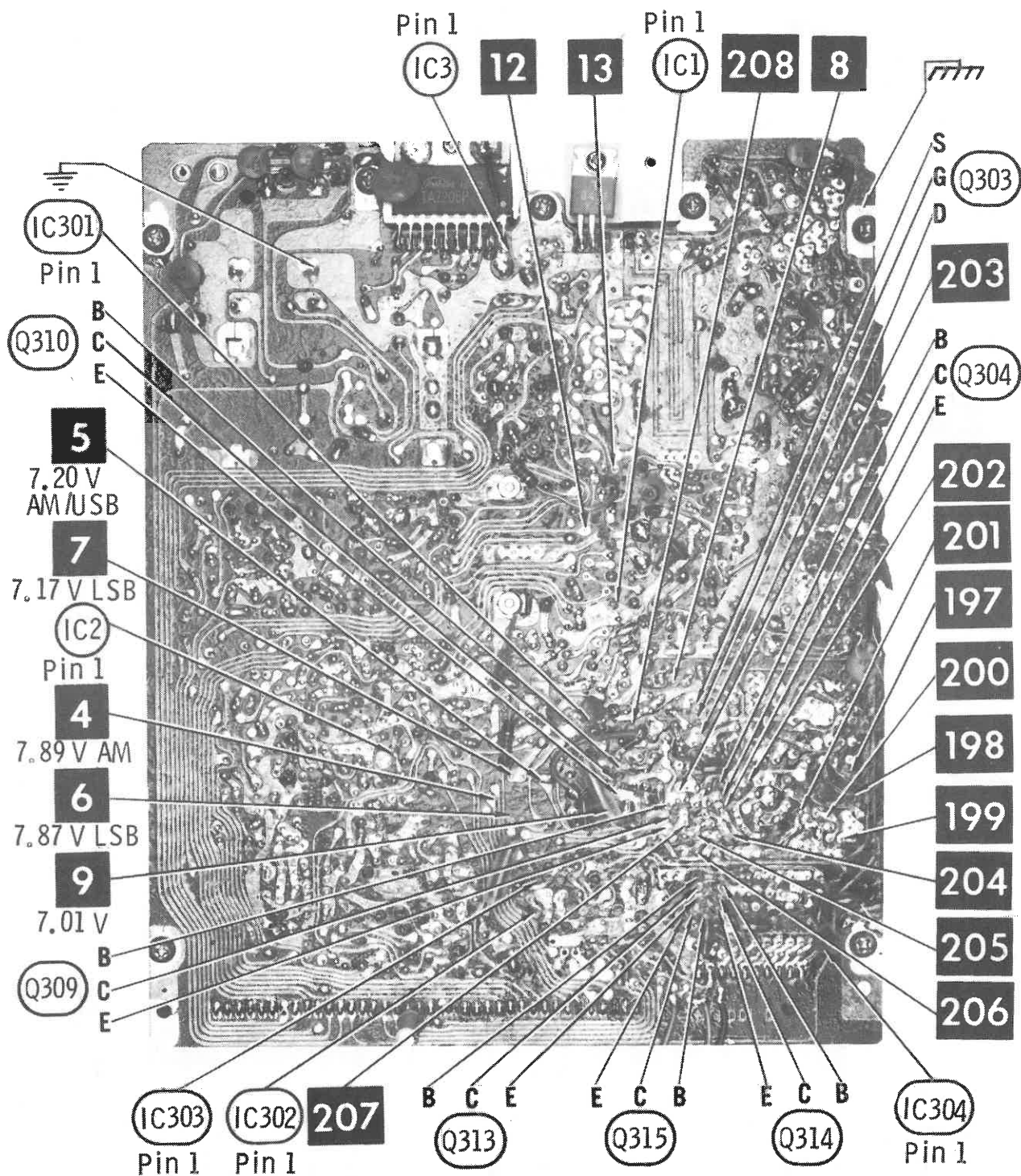


MAIN BOARD

BROWNING MODEL BARON



MAIN BOARD

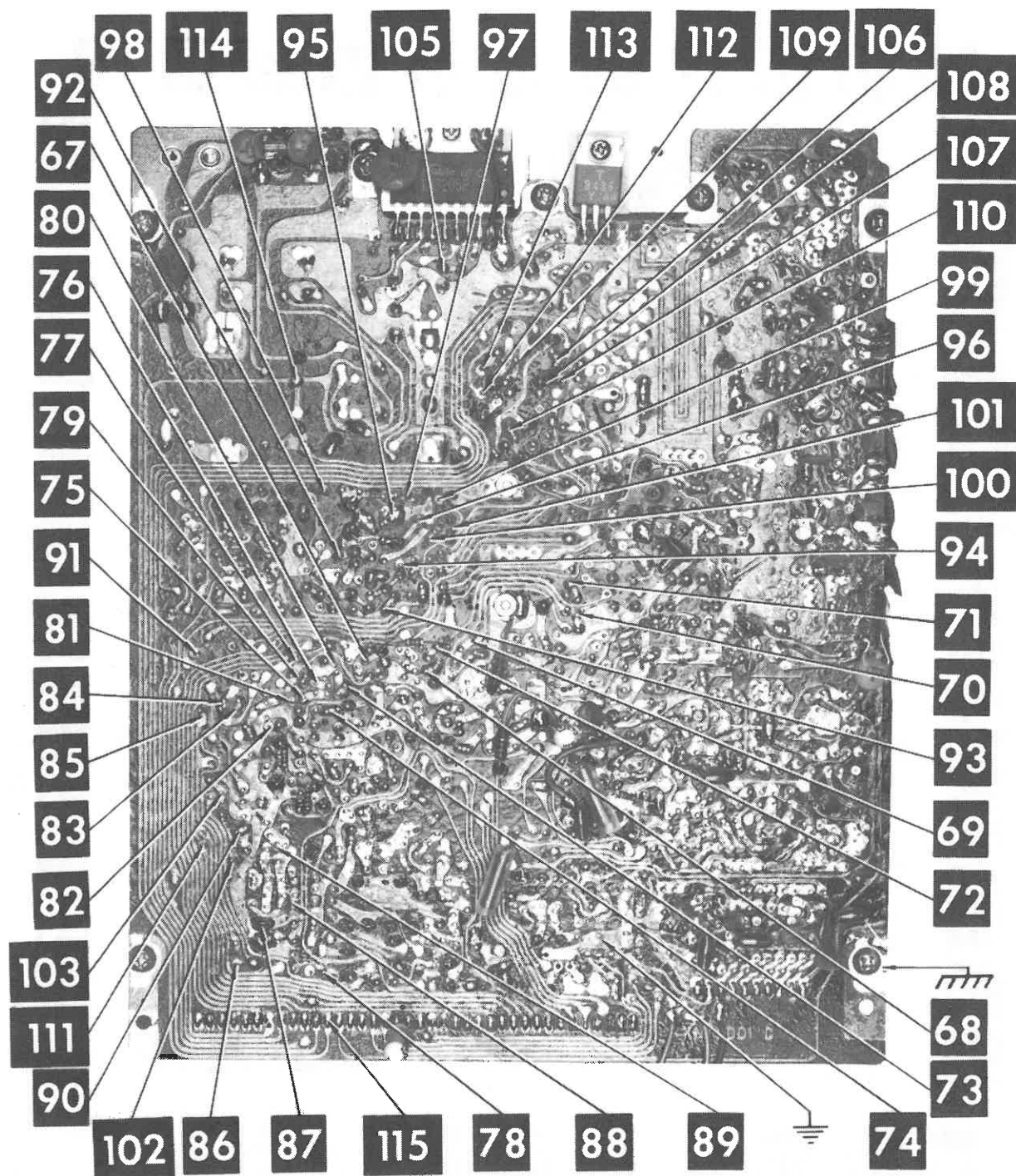


MAIN BOARD

BROWNING MODEL BARON

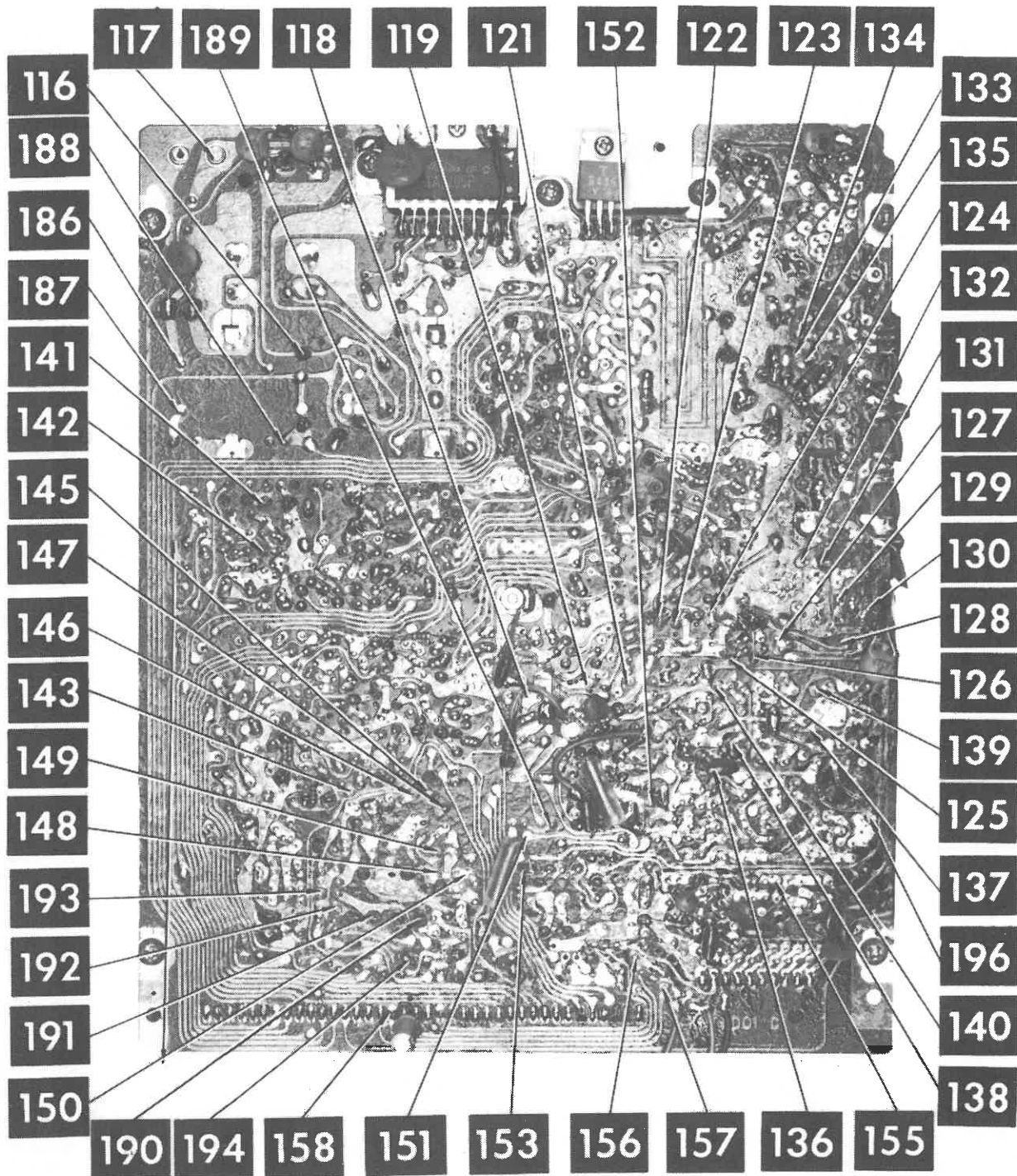


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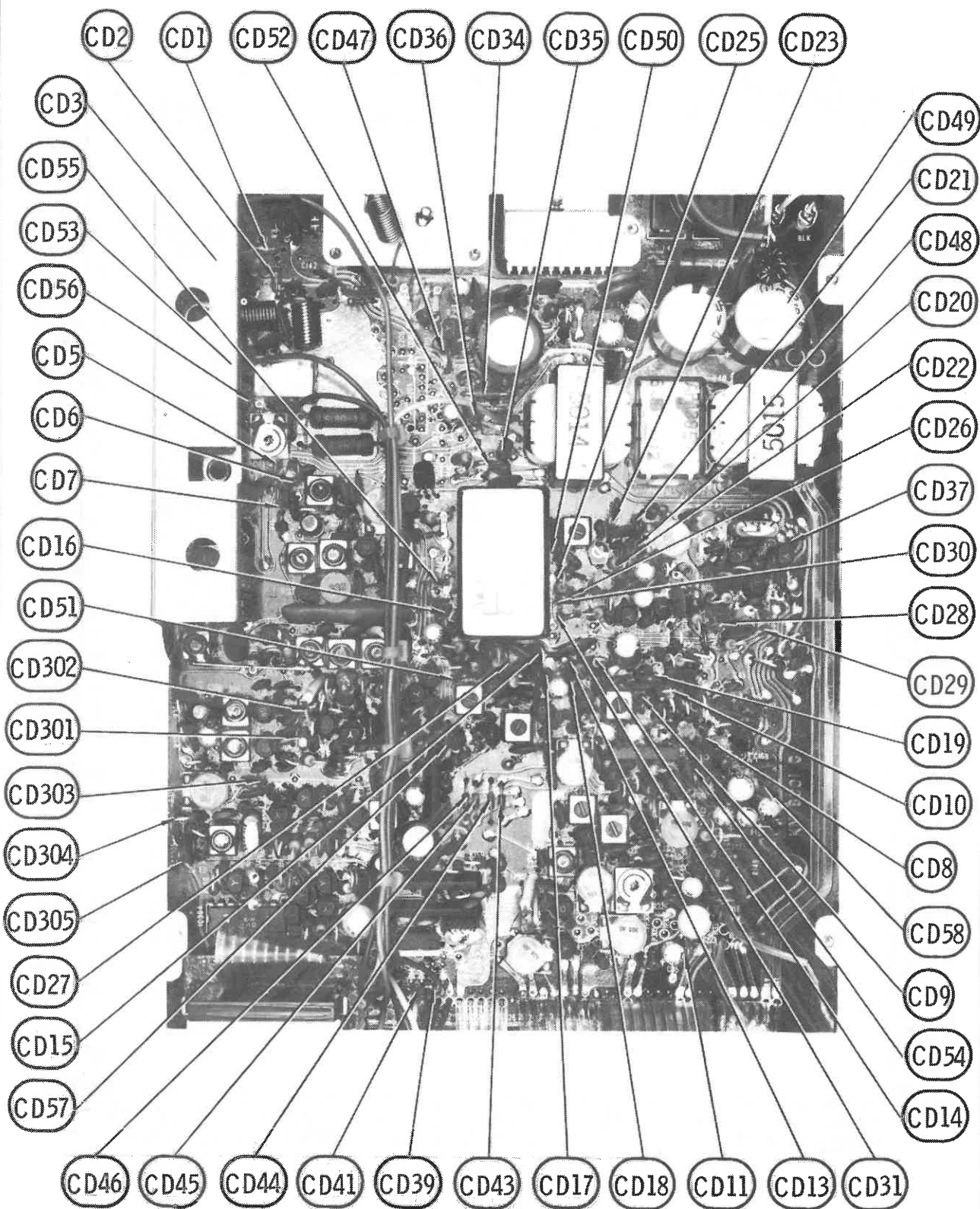


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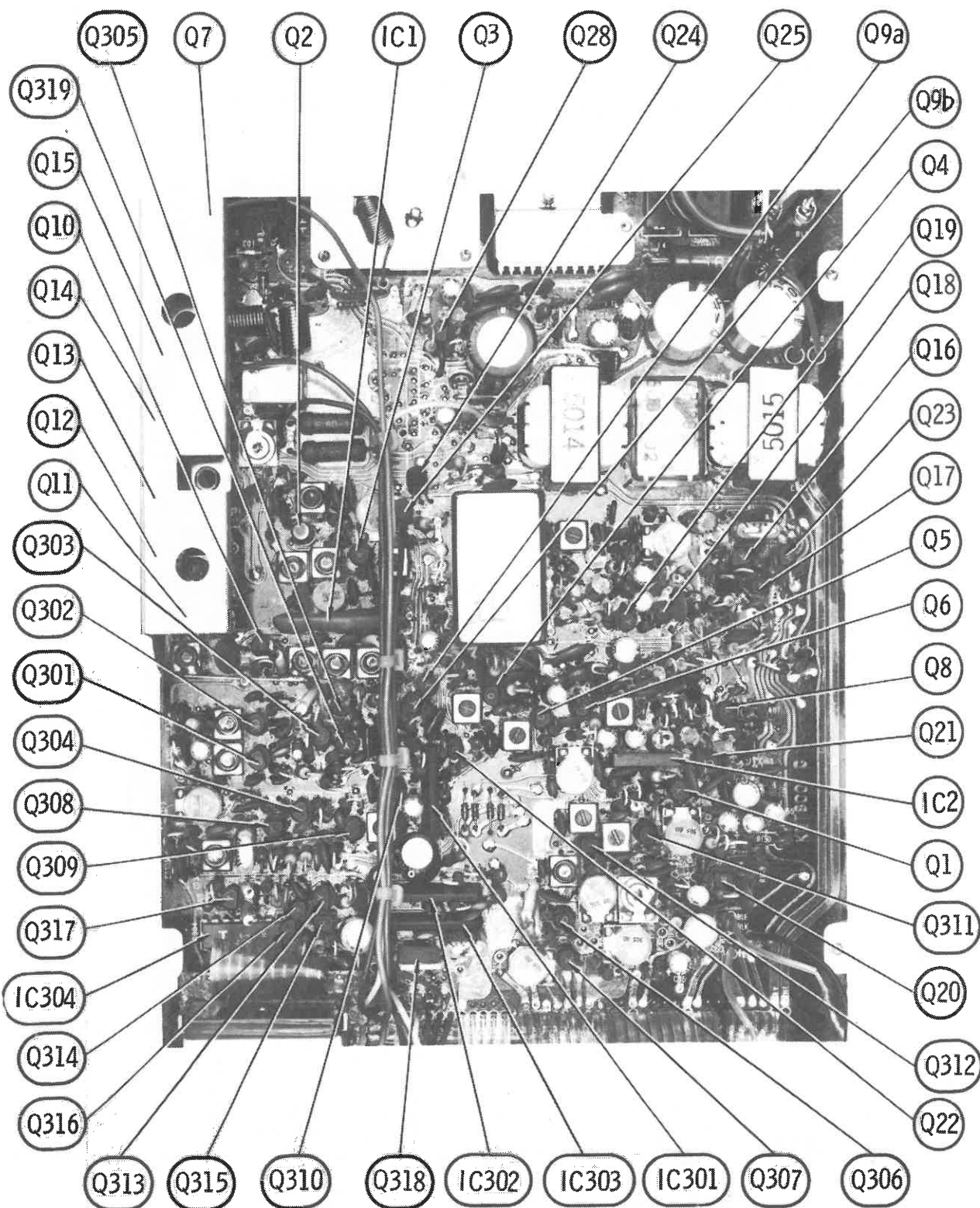
BROWNING MODEL BARON



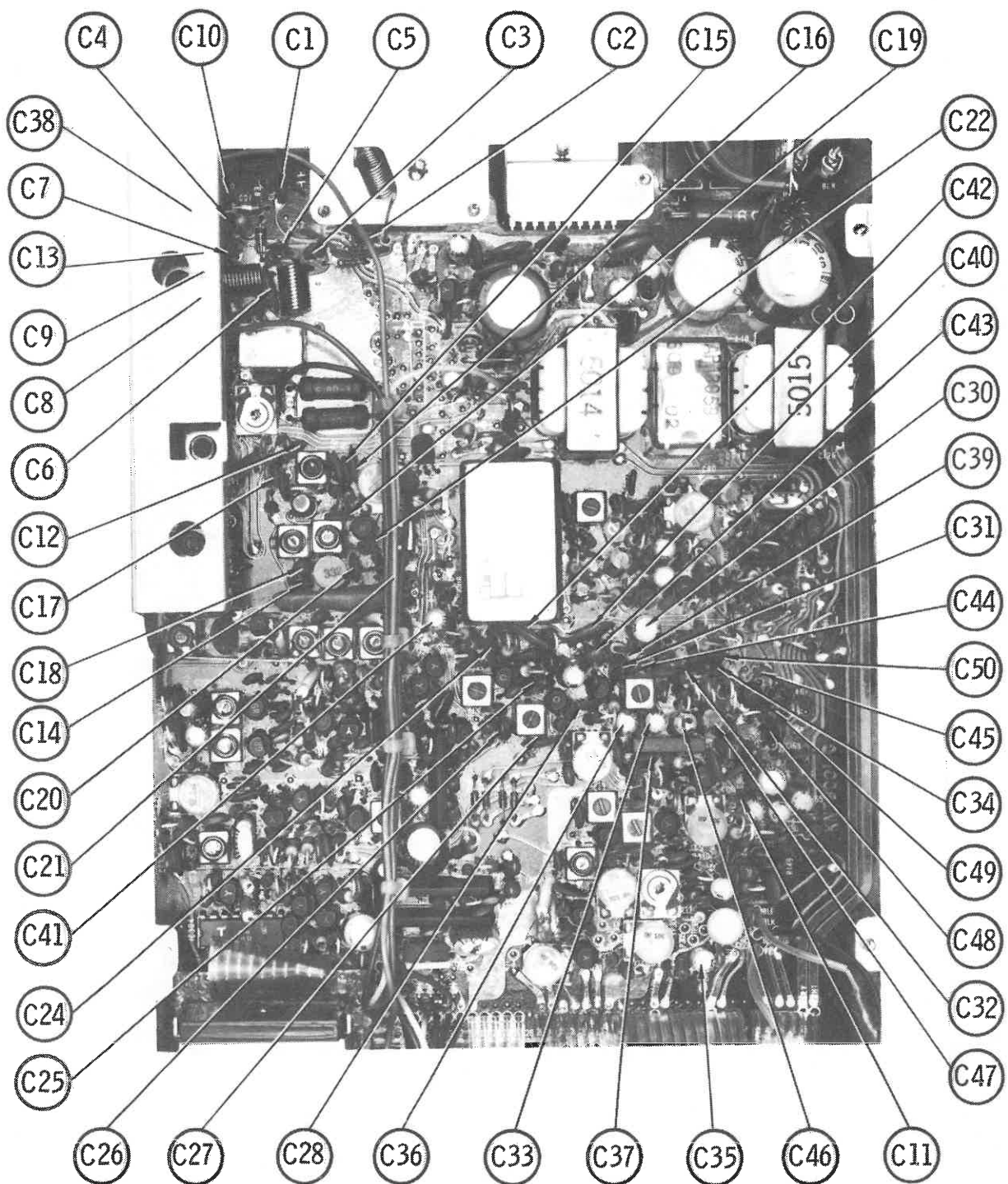
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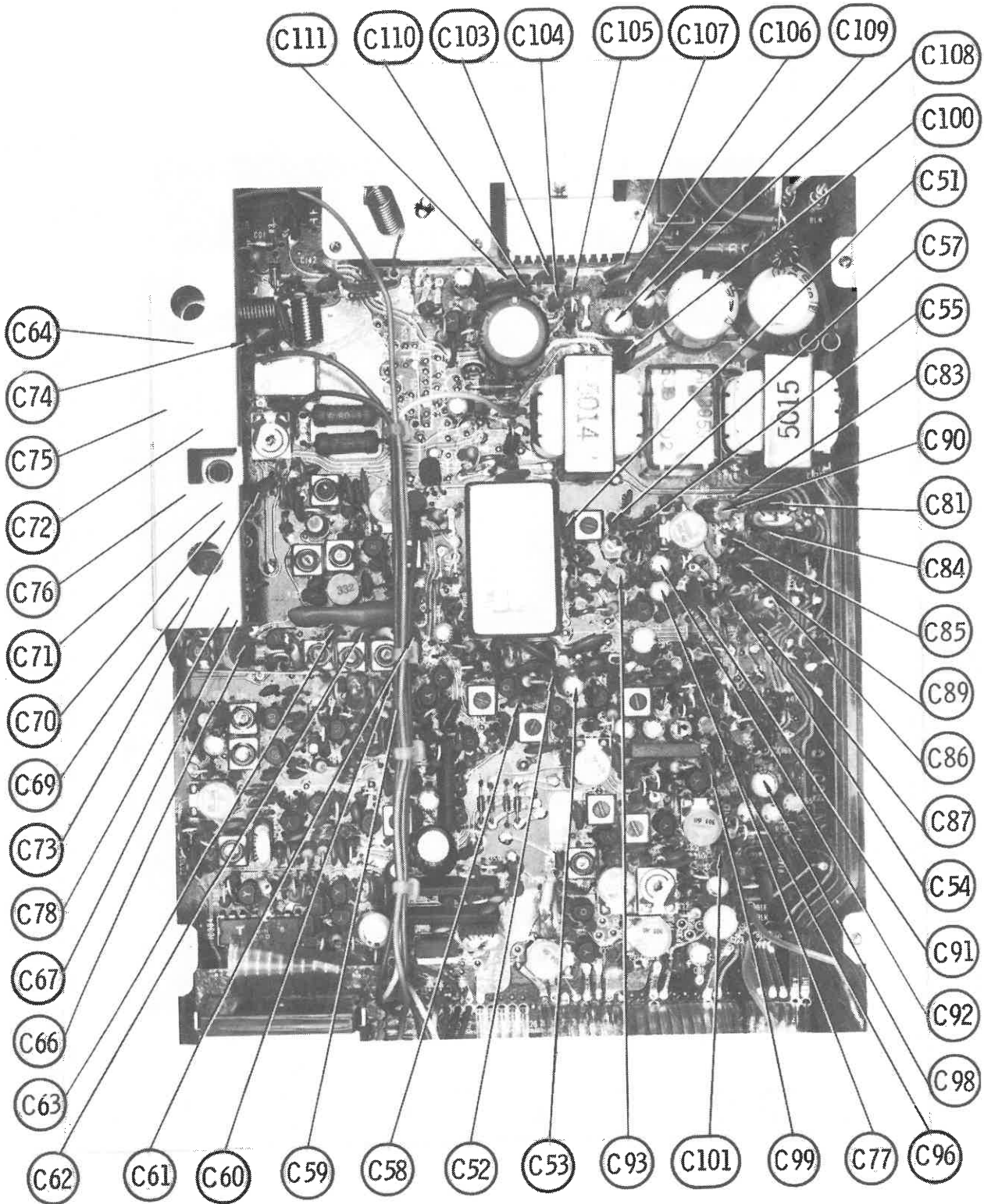
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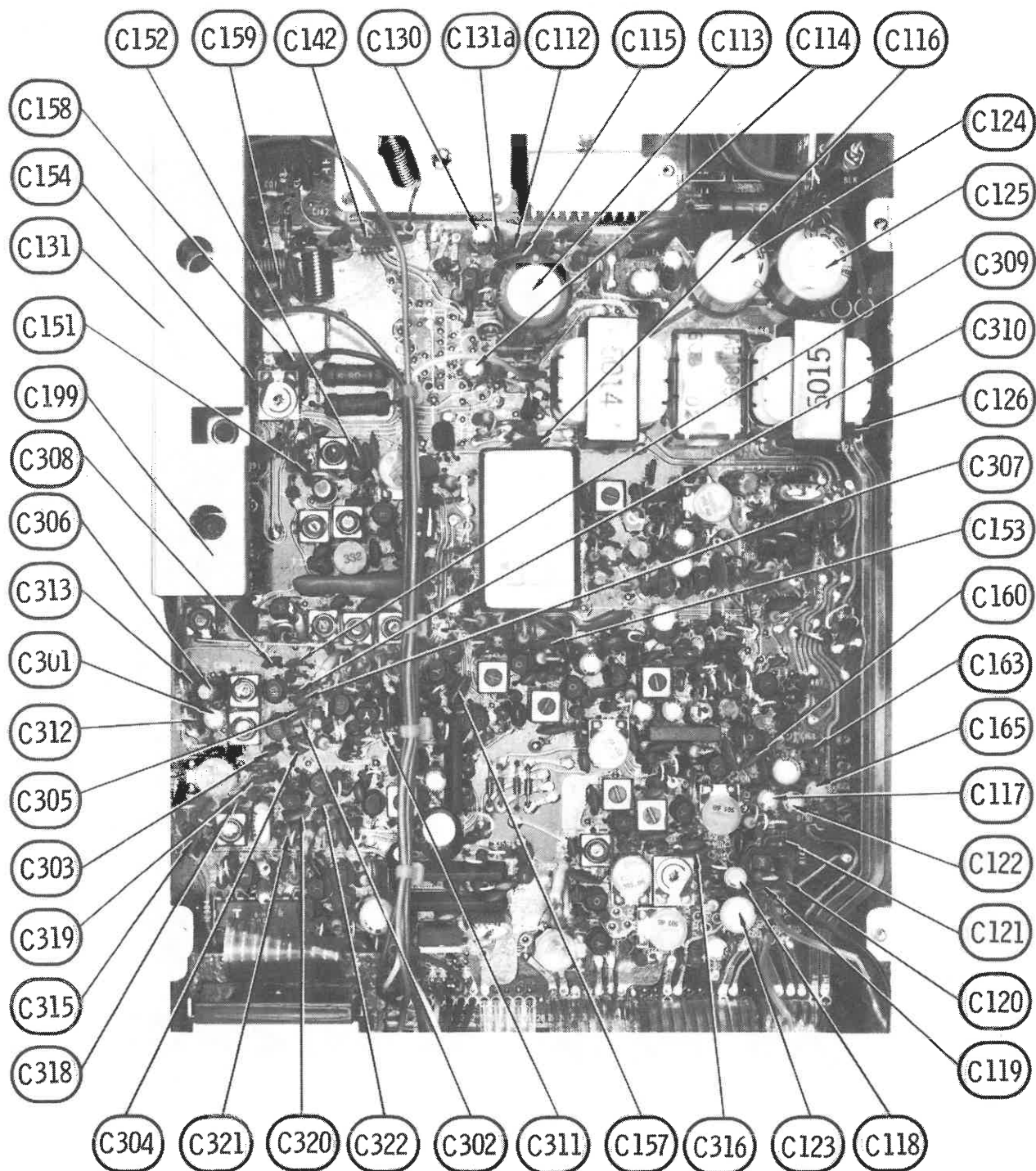
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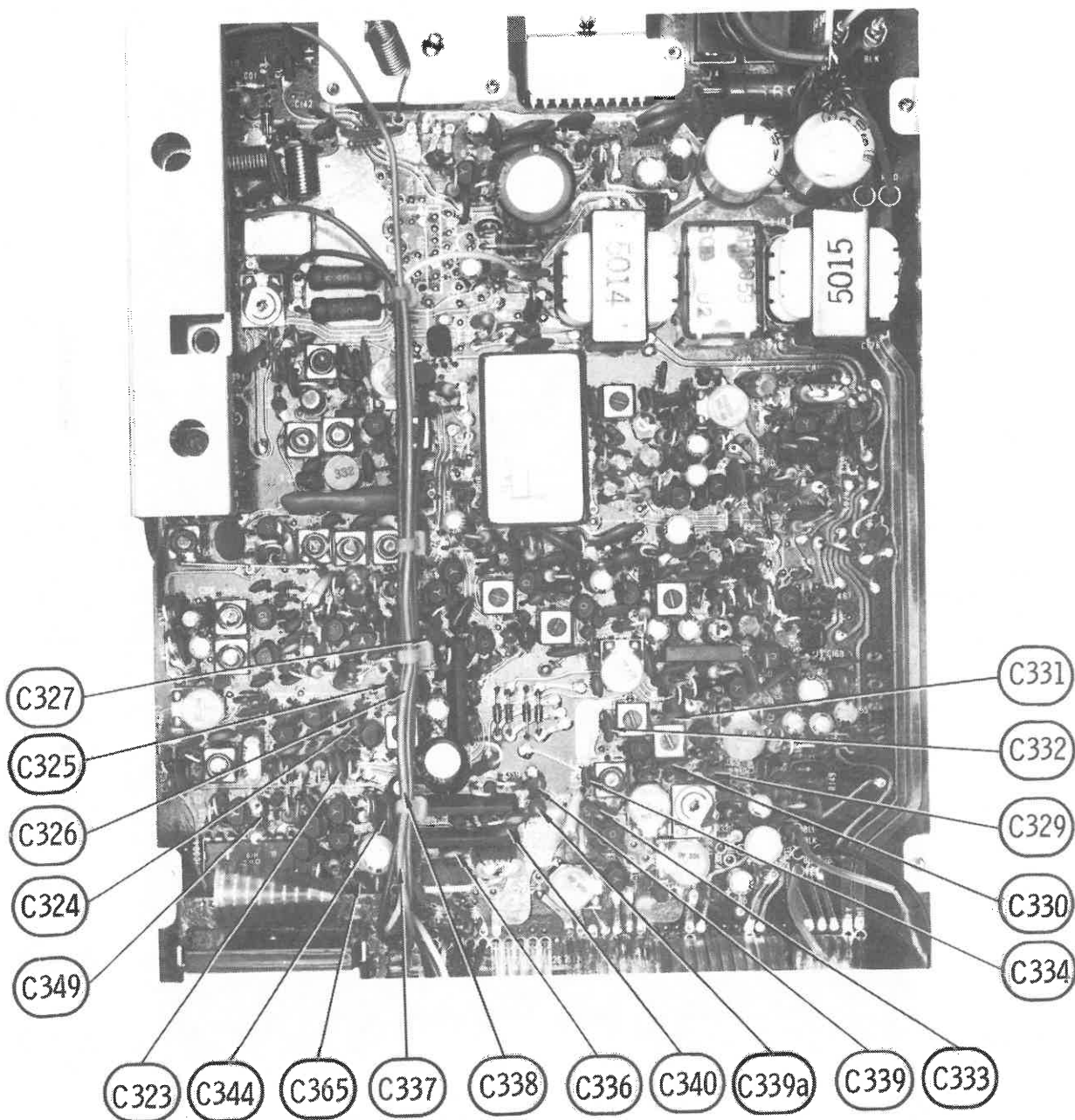
MAIN BOARD



MAIN BOARD



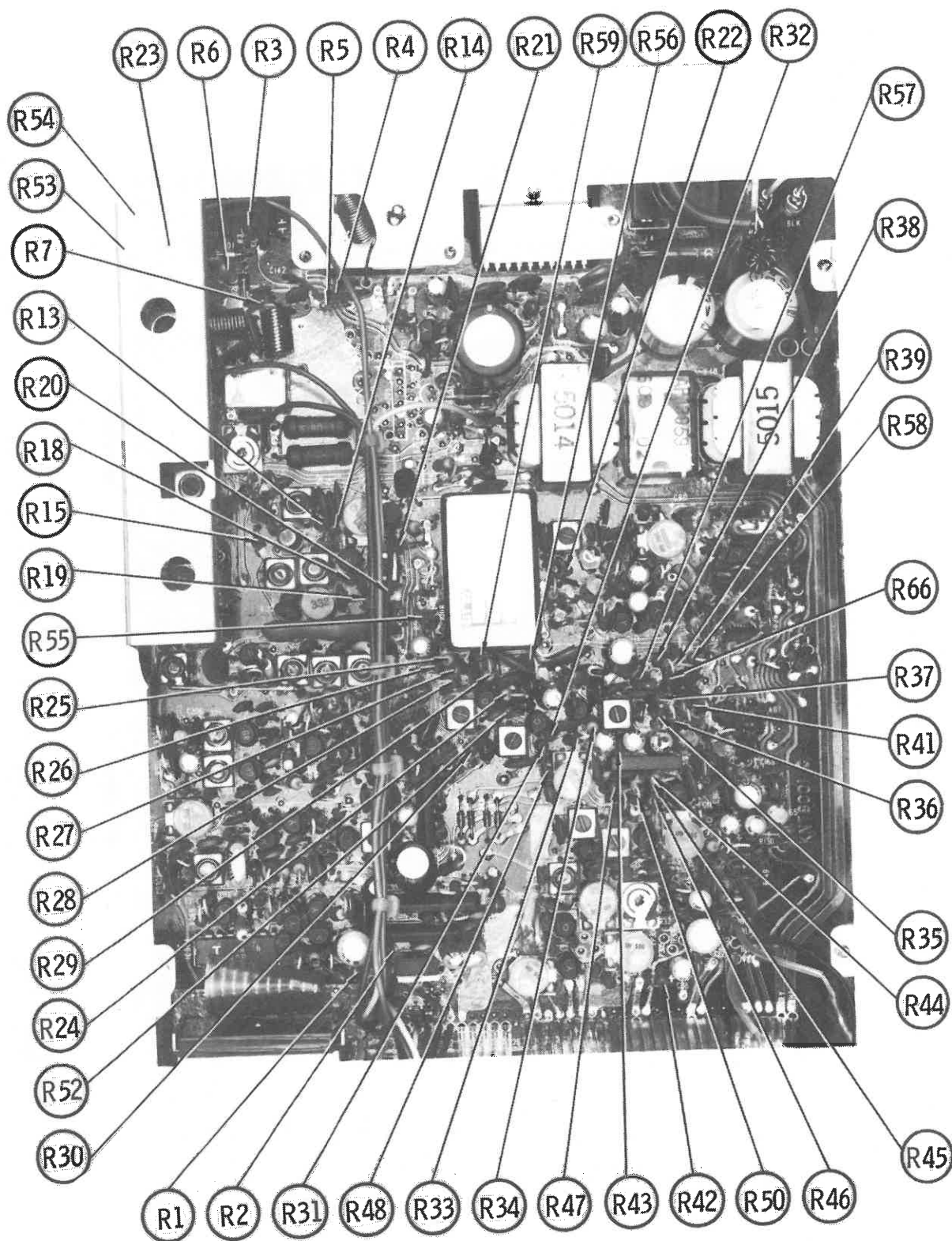
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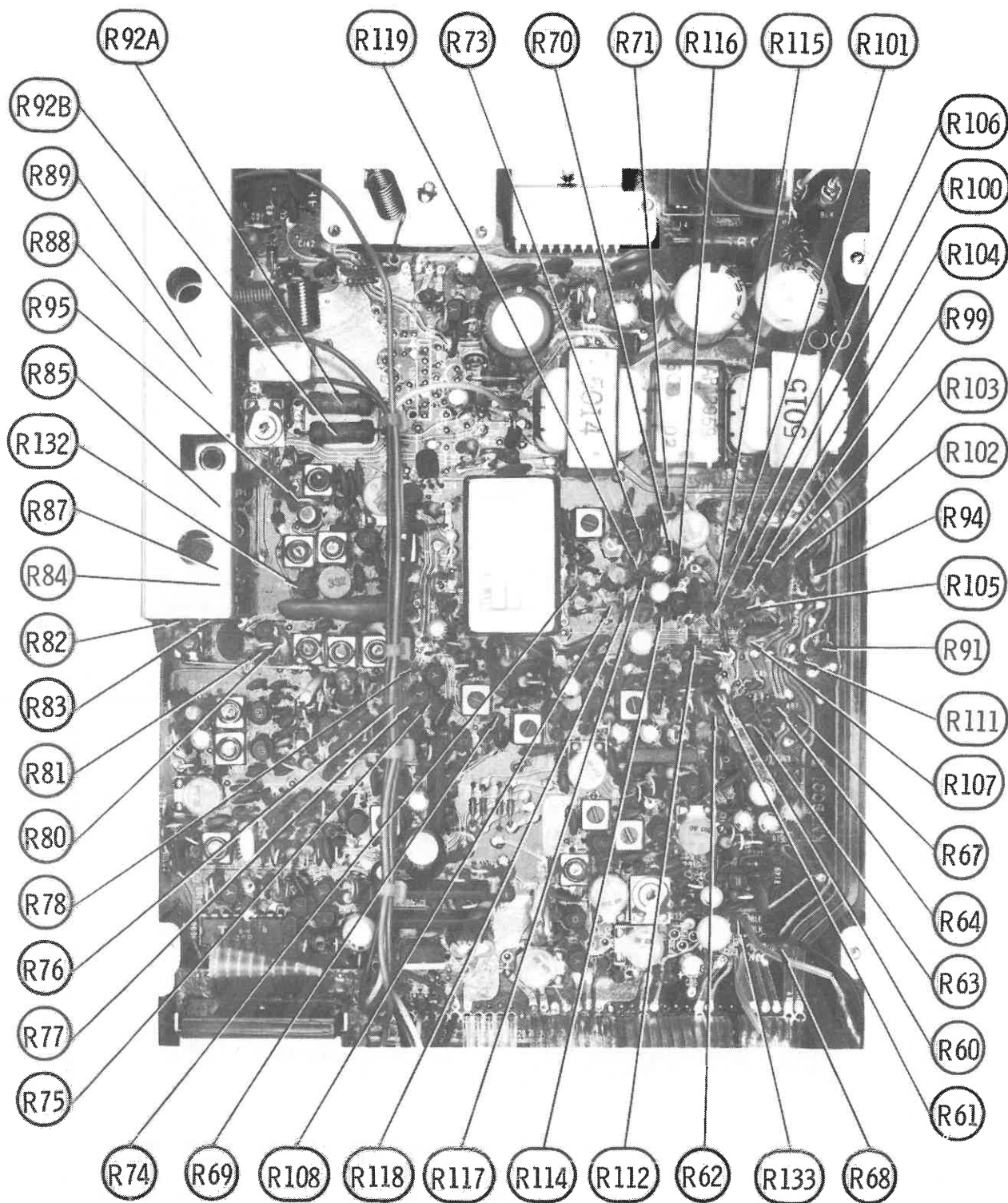
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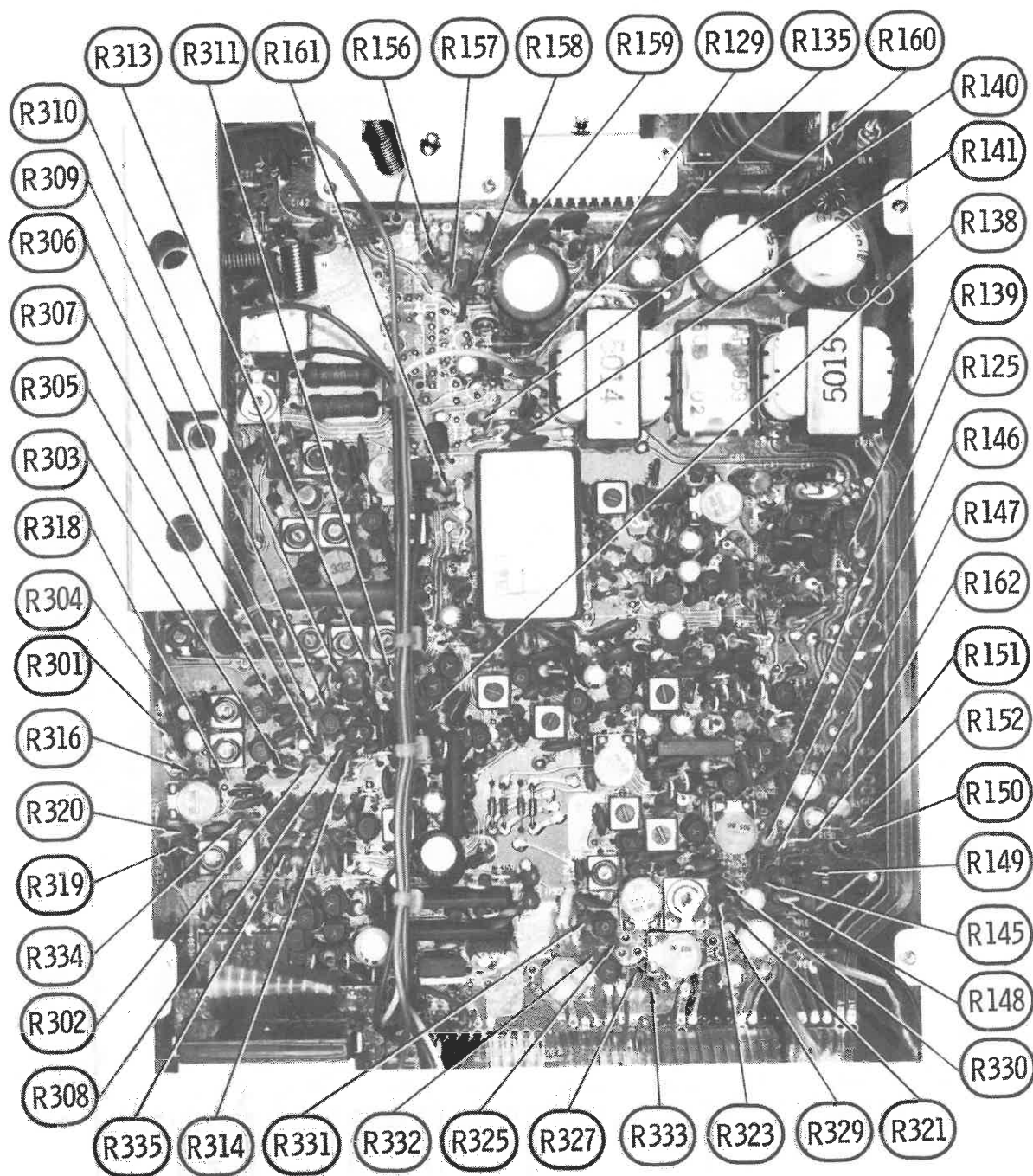
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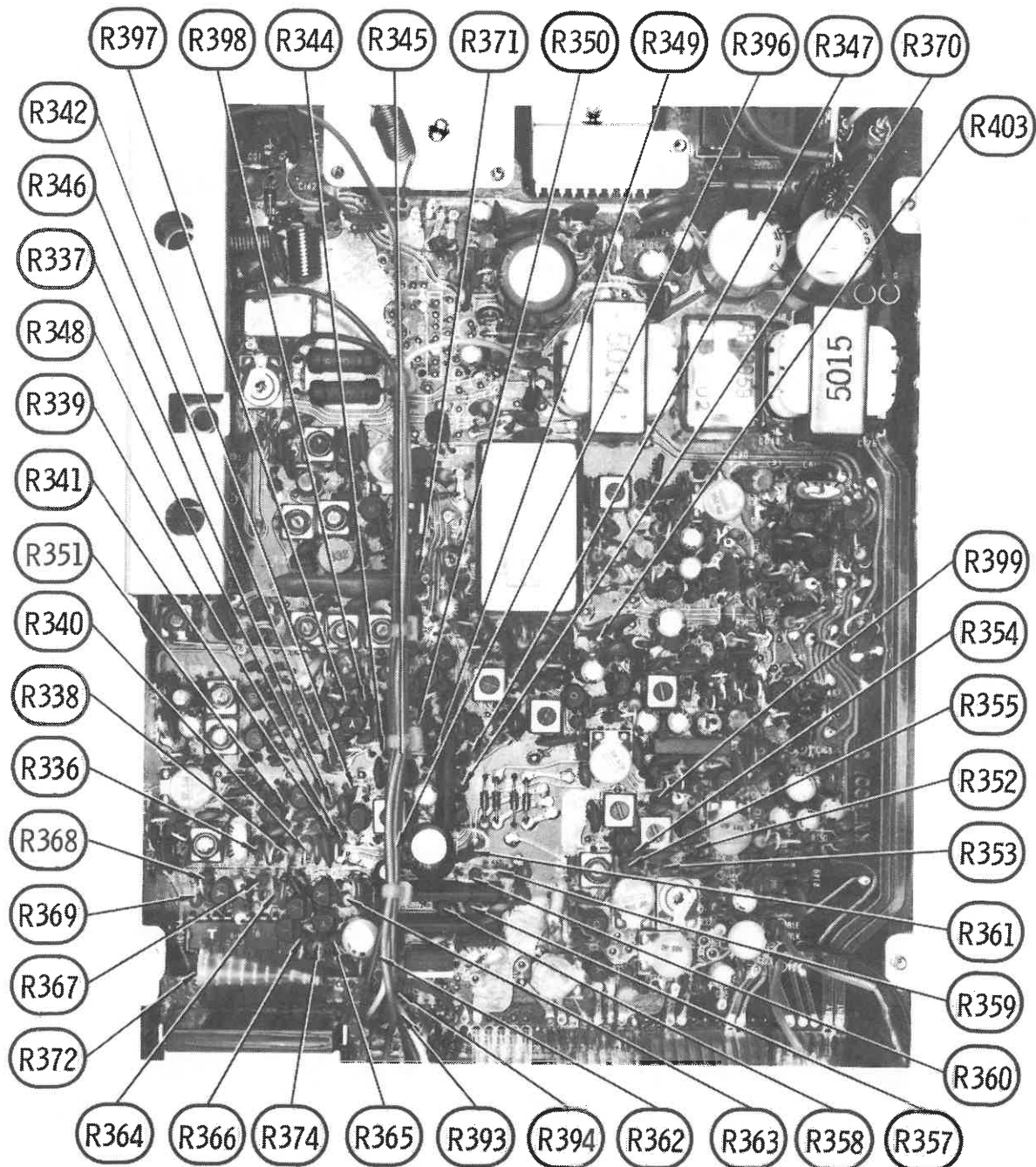
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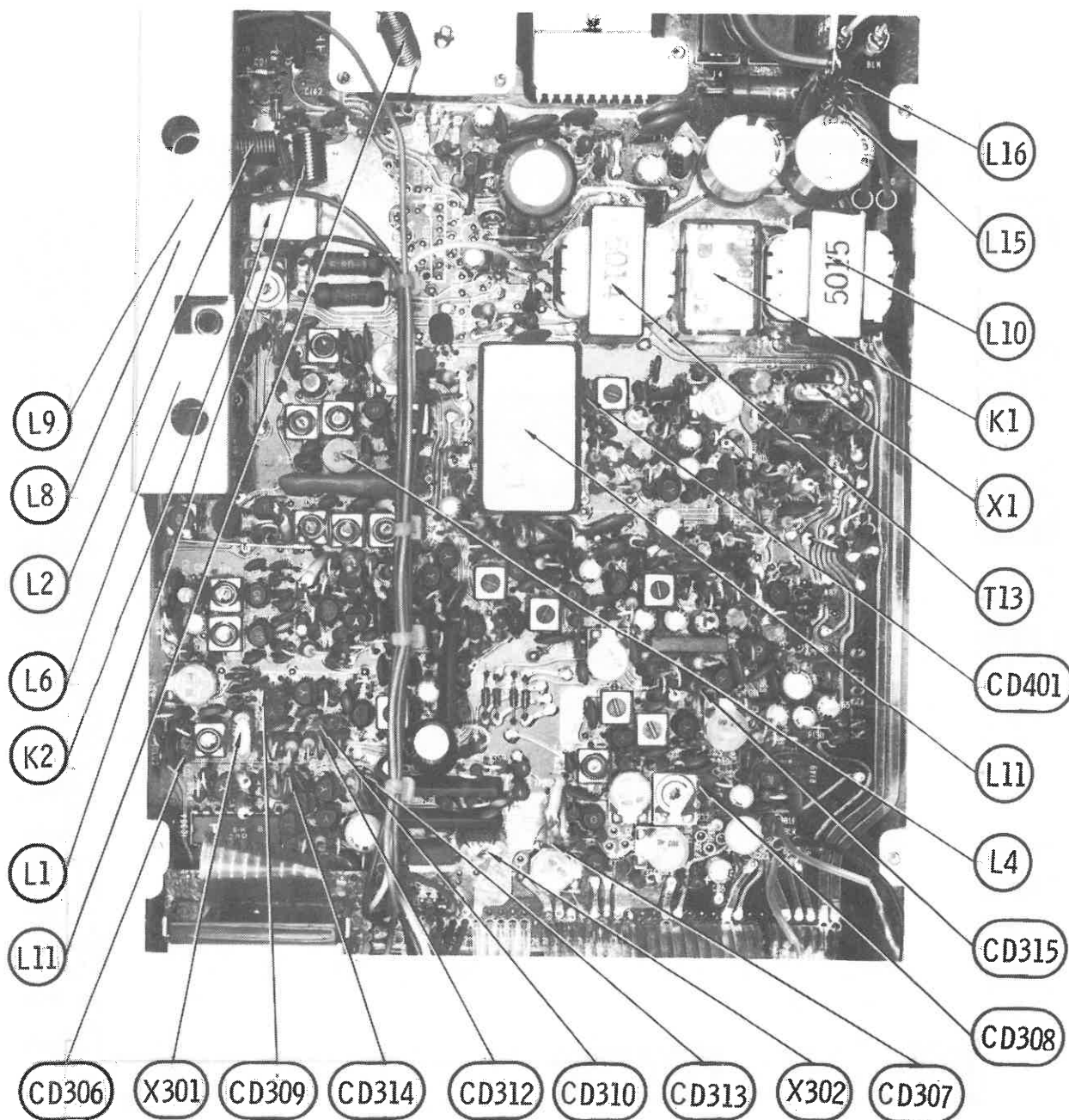
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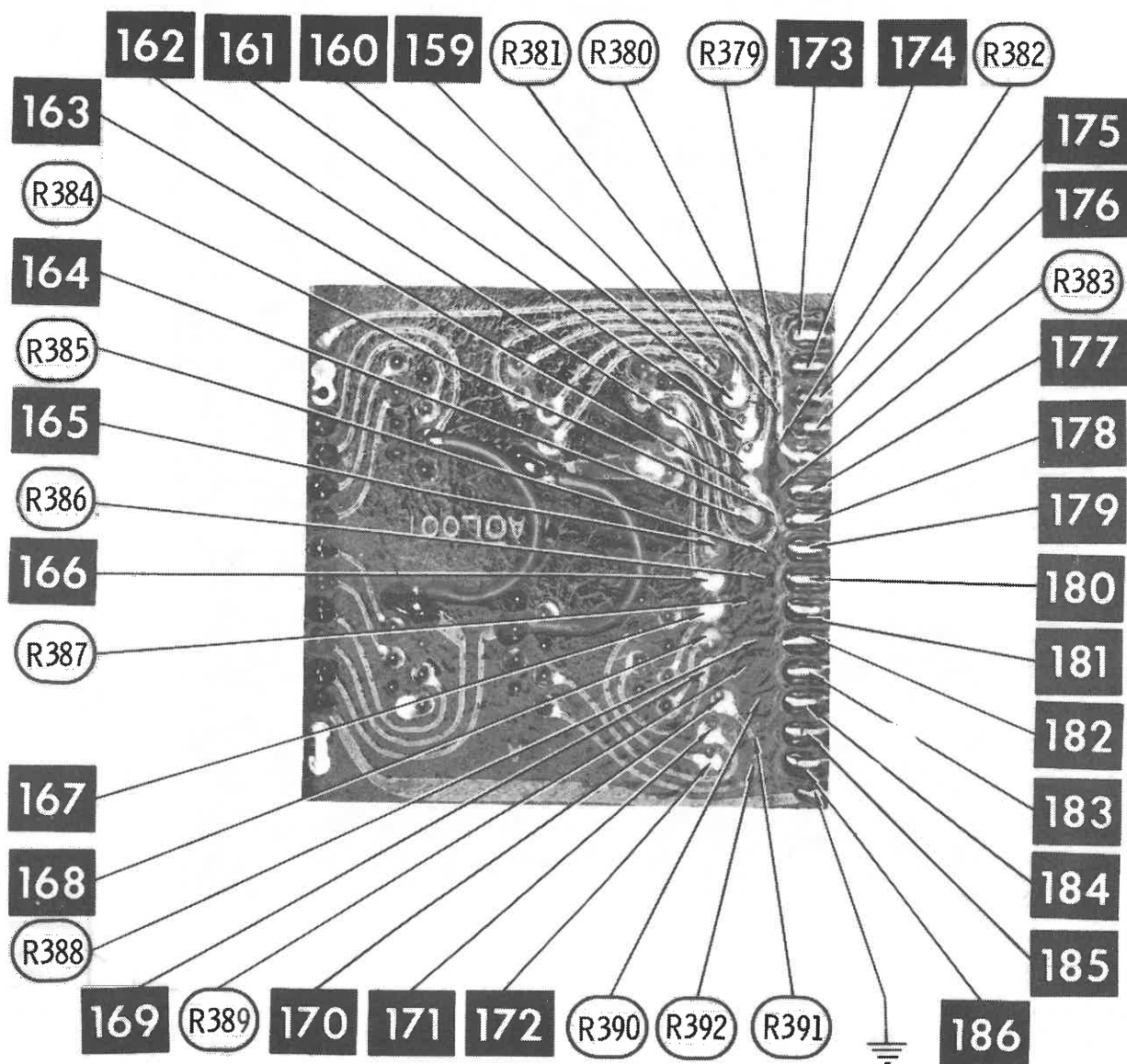
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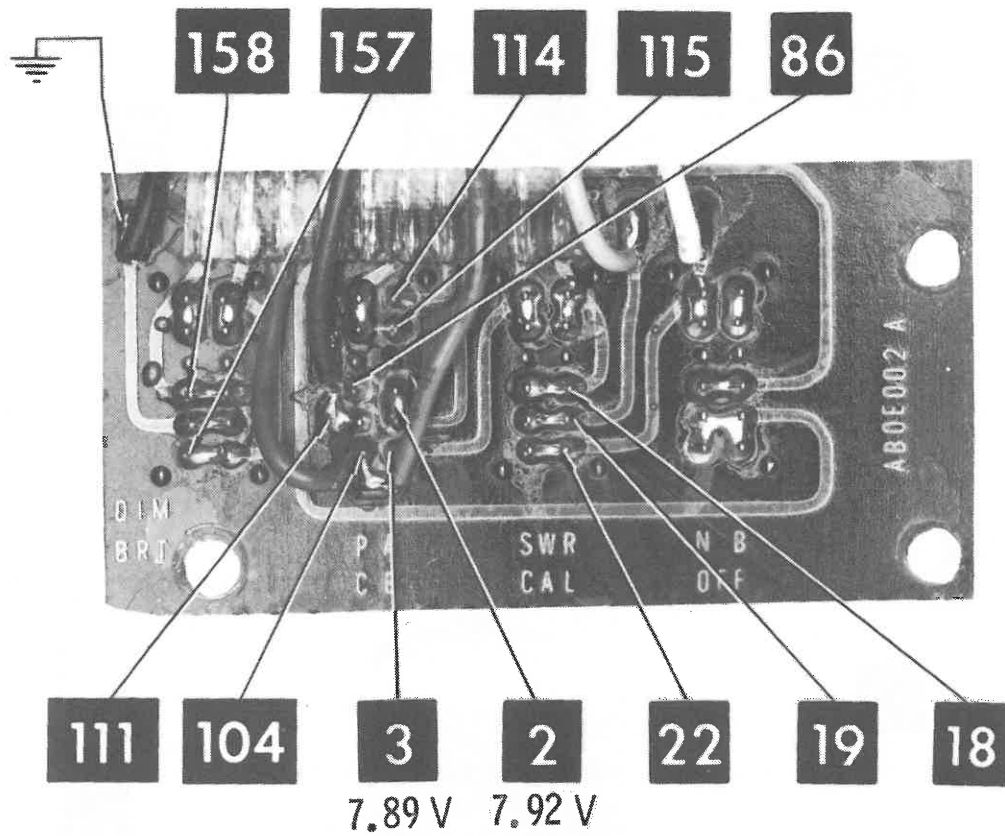
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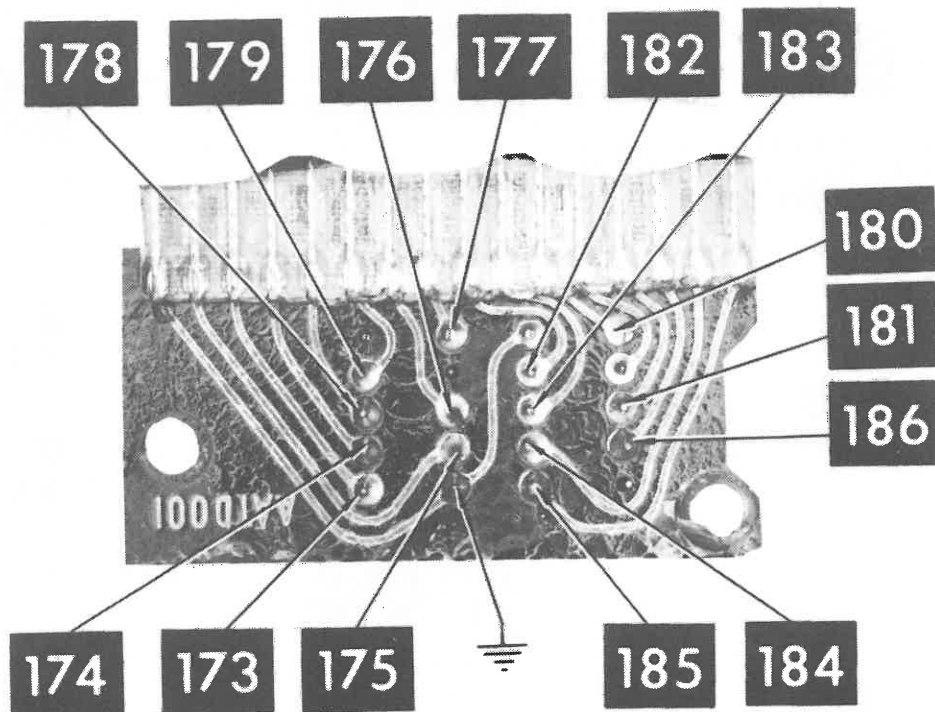
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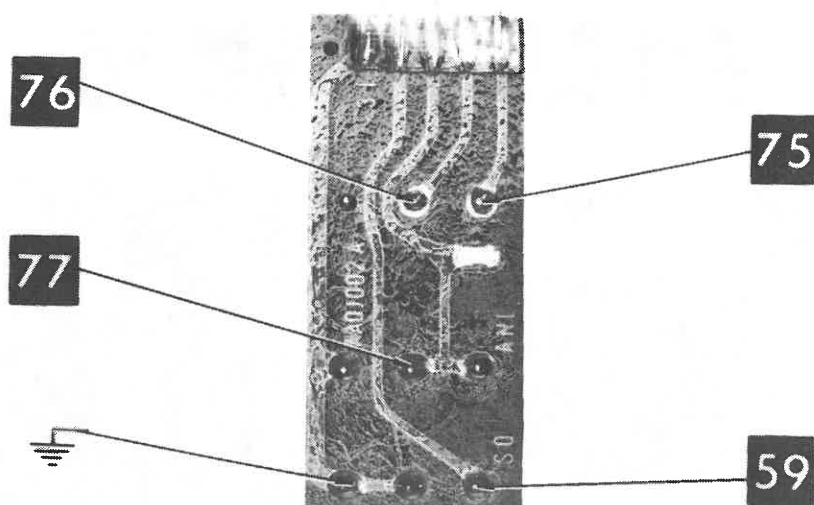
CH. SEL. SWITCH BOARD



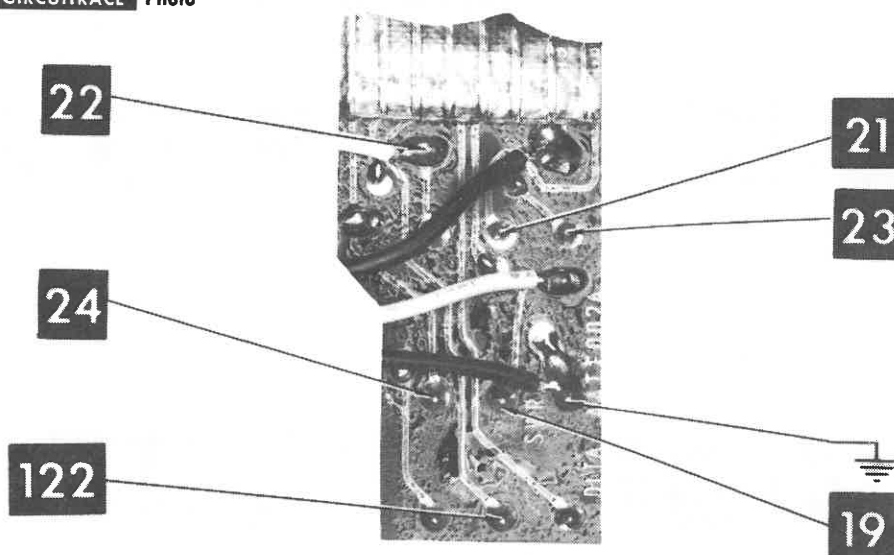
CH. SEL. SWITCH BOARD



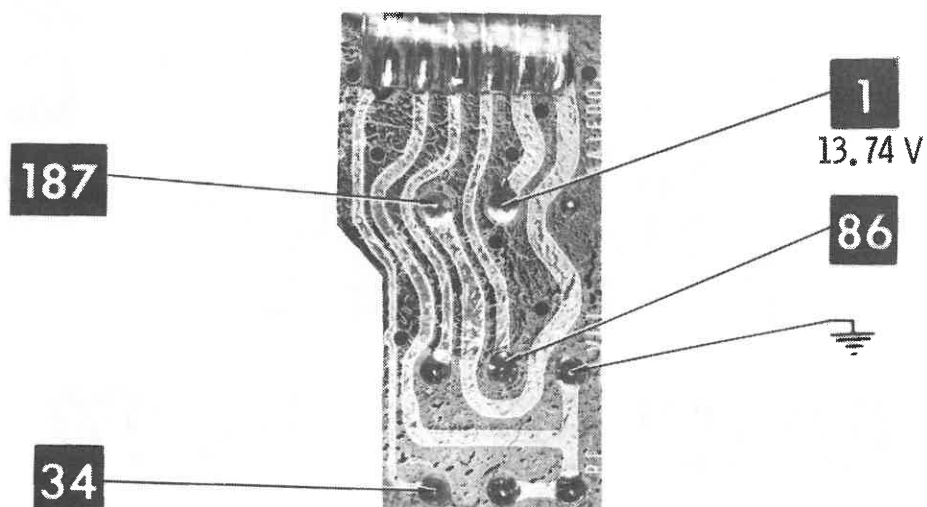
LED CH. READOUT BOARD



SQUELCH-ANL CONTROL BOARD



SWR-CLARITY CONTROL BOARD

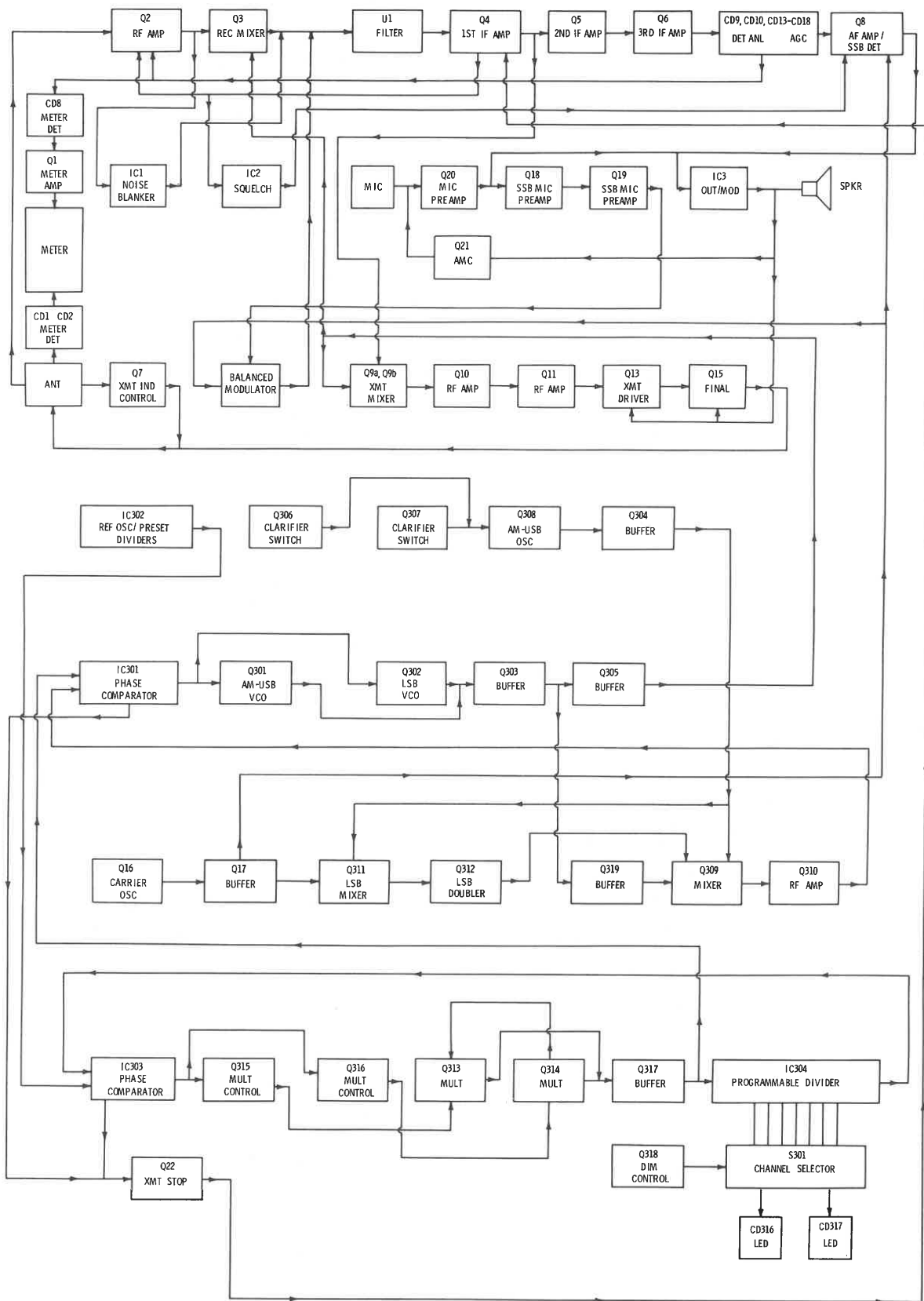


RF-VOLUME CONTROL BOARD

TRUTH CHART

1 = <u>6.92</u> Volts 0 = <u>0</u> Volts										
CHANNEL	IC304 PROGRAM DIVIDER							AM REC & XMT VCO OUTPUT IN MHz AT TP311	USB REC & XMT VCO OUTPUT IN MHz AT TP311	LSB REC & XMT VCO OUTPUT IN MHz AT TP311
	PINS									
	8	7	6	5	4	3	2			
1	1	0	0	0	0	0	1	34.765	34.7675	19.1625
2	1	0	0	0	0	1	0	34.775	34.7775	19.1725
3	1	0	0	0	0	1	1	34.785	34.7875	19.1825
4	1	0	0	0	1	0	1	34.805	34.8075	19.2025
5	1	0	0	0	1	1	0	34.815	34.8175	19.2125
6	1	0	0	0	1	1	1	34.825	34.8275	19.2225
7	1	0	0	1	0	0	0	34.835	34.8375	19.2325
8	1	0	0	1	0	1	0	34.855	34.8575	19.2525
9	1	0	0	1	0	1	1	34.865	34.8675	19.2625
10	1	0	0	1	1	0	0	34.875	34.8775	19.2725
11	1	0	0	1	1	0	1	34.885	34.8875	19.2825
12	1	0	0	1	1	1	1	34.905	34.9075	19.3025
13	1	0	1	0	0	0	0	34.915	34.9175	19.3125
14	1	0	1	0	0	0	1	34.925	34.9275	19.3225
15	1	0	1	0	0	1	0	34.935	34.9375	19.3325
16	1	0	1	0	1	0	0	34.955	34.9575	19.3525
17	1	0	1	0	1	0	1	34.965	34.9675	19.3625
18	1	0	1	0	1	1	0	34.975	34.9775	19.3725
19	1	0	1	0	1	1	1	34.985	34.9875	19.3825
20	1	0	1	1	0	0	1	35.005	35.0075	19.4025
21	1	0	1	1	0	1	0	35.015	35.0175	19.4125
22	1	0	1	1	0	1	1	35.025	35.0275	19.4225
23	1	0	1	1	1	1	0	35.055	35.0575	19.4525
24	1	0	1	1	1	0	0	35.035	35.0375	19.4325
25	1	0	1	1	1	0	1	35.045	35.0475	19.4425
26	1	0	1	1	1	1	1	35.065	35.0675	19.4625
27	1	1	0	0	0	0	0	35.075	35.0775	19.4725
28	1	1	0	0	0	0	1	35.085	35.0875	19.4825
29	1	1	0	0	0	1	0	35.095	35.0975	19.4925
30	1	1	0	0	0	1	1	35.105	35.1075	19.5025
31	1	1	0	0	1	0	0	35.115	35.1175	19.5125
32	1	1	0	0	1	0	1	35.125	35.1275	19.5225
33	1	1	0	0	1	1	0	35.135	35.1375	19.5325
34	1	1	0	0	1	1	1	35.145	35.1475	19.5425
35	1	1	0	1	0	0	0	35.155	35.1575	19.5525
36	1	1	0	1	0	0	1	35.165	35.1675	19.5625
37	1	1	0	1	0	1	0	35.175	35.1775	19.5725
38	1	1	0	1	0	1	1	35.185	35.1875	19.5825
39	1	1	0	1	0	0	0	35.195	35.1975	19.5925
40	1	1	0	1	1	0	1	35.205	35.2075	19.6025

BROWNING MODEL BARON



BLOCK DIAGRAM

BLOCK DIAGRAM

PARTS LIST AND DESCRIPTION

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

WIRING DATA

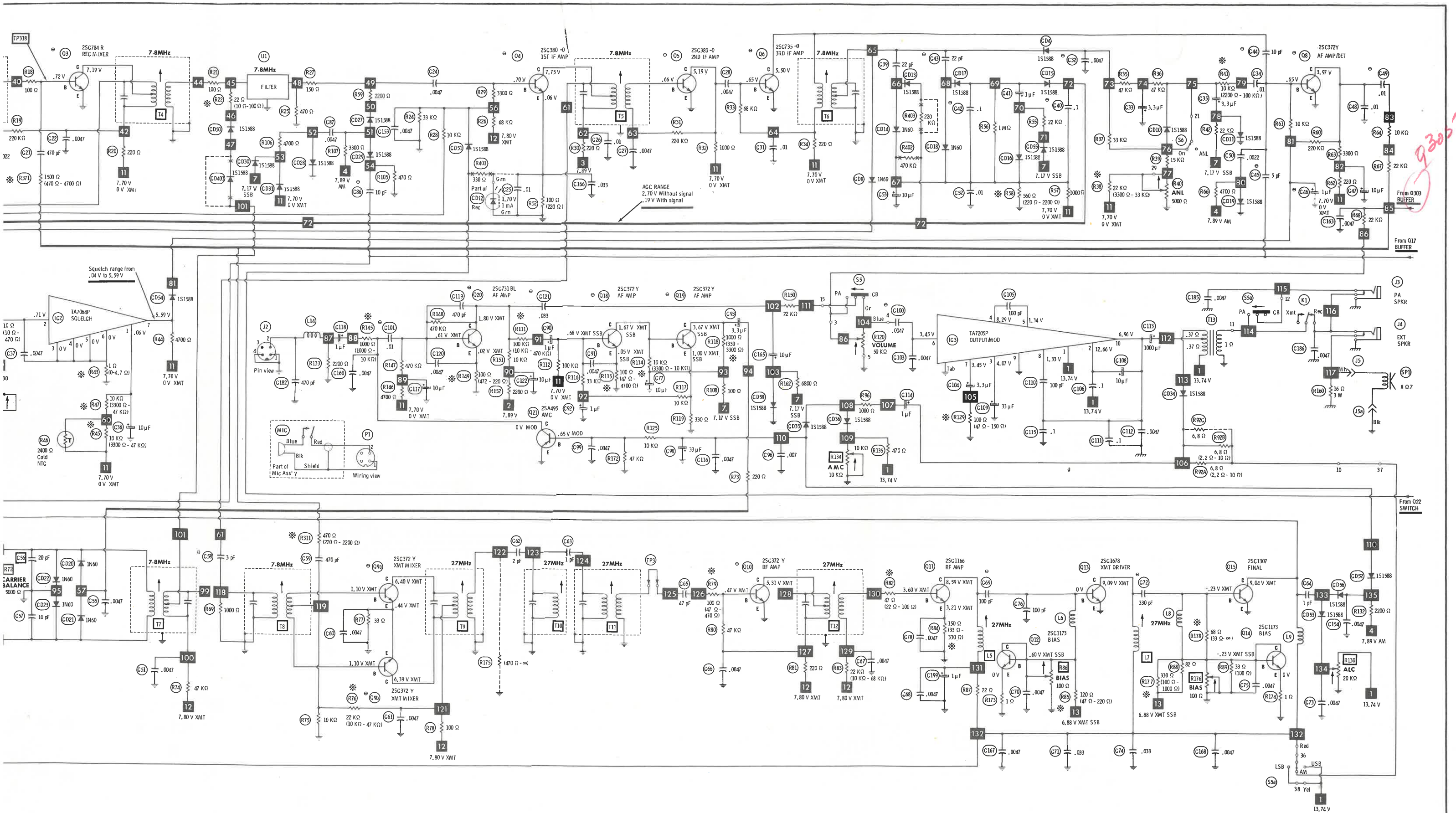
General-use Hook-up Wire (available in 5 colors)	BELDEN No. 8523	Coiled Microphone Cable	
Shielded Hook-up Wire (spiral wrapped)	BELDEN No. 8421	3-conductor (1 shielded)	23AWG BELDEN No. 9471 (5')
(braided)	BELDEN No. 8401		BELDEN No. 8497 (6')
Speaker Cable (available in 4 colors)	BELDEN No. 8782		BELDEN 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.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
CD1	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CD2	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CD3	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD5	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD6	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD7	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD8	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CD9	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD10	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD11	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD13	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD14	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CD15	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD16	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD17	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD18	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CD19	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD20	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CD21	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CD22	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CD23	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
CD25	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD26	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD27	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD28	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD29	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD30	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD31	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD34	1S1885		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CD35	1S1885		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CD36	1S1885		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CD37	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD39	1S1885		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CD41	1S1885		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CD43	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD44	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD45	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD46	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD47	02Z6, 2A									
CD48	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD49	1S1885		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CD50	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD51	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD52	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD53	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD54	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD55	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD56	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD57	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD58	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD301	1S2789		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CD302	1S2789		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
CD303	02Z6, 2A									
CD304	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD305	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD306	1S1658		GE-90	D201		HEPR2503	RE 195	SK3126	RT-262	ECG614
CD307	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD308	02Z6, 2A									
CD309	02Z6, 2A									
CD310	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD312	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD313	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD314	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD315	1S1588		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
CD401	1S1588	(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
IC1	10060									
IC2	TA7064P									
IC3	TA7205P									
IC301	TC5081P		GEIC-179	WEP949	PTC780		RE 357-IC	SK3231	TVCM-81	ECG1155
IC302	TC5082P-L									
IC303	TC5081P									
IC304	TC5080P									
Q1	2SC372Y		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
	2SC372	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q2	3SK40		GE-FET-4	WEP905	PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222
	3SK44	(1)	GE-FET-4	WEP905	PTC181	HEPF2004	RE 199	SK3050	RT-181	ECG222

BROWNING MODEL BARON





PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
Q3	2SC784R	(1)	GE-60 *	(IR)2SC380A0	PTC132 *	HEPS0008 *	RE 28 *	SK3018	RT-187	ECG229 *
Q4	2SC784		GE-60 *	(IR)2SC380A0	PTC132 *	HEPS0008 *	RE 28 *	SK3018	RT-187	ECG229 *
Q5	2SC380-0	(1)	GE-61 *	(IR)2SC380A0	PTC136 *	HEPS0016 *	RE 9 *	SK3018 *	RT-107A	ECG107
Q6	2SC380		GE-61 *	(IR)2SC380A0	PTC136 *	HEPS0016 *	RE 9 *	SK3018 *	RT-107A	ECG107
Q7	2SC735-0	(1)	GE-61 *	(IR)2SC380A0	PTC136 *	HEPS0016 *	RE 9 *	SK3018 *	RT-107A	ECG107
Q8	2SC735		GE-210 *	WEP735	PTC123 *	HEPS0014 *	RE 13 *	SK3122	RT-308 *	ECG289
Q9a	2SC372Y	(1)	GE-210 *	WEP735	PTC123 *	HEPS0014 *	RE 13 *	SK3122	RT-308 *	ECG289
Q9b	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q10	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q11	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q12	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q13	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q14	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q15	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q16	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q17	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q18	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q19	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q20	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q21	2SC732BL		GE-62	(IR)2SC373	PTC139 *	HEPS0024 *	RE 192	SK3122	RT-302	ECG199
Q22	2SC732	(1)	GE-62	(IR)2SC373	PTC139 *	HEPS0024 *	RE 192	SK3122	RT-302	ECG199
Q23	2SA495-0		GE-221 *	(IR)2SA495	PTC103 *	HEPS0013 *	RE 26 *	SK3114	RT-303	ECG159 *
Q24	2SA495(1)	(1)	GE-221 *	(IR)2SA495	PTC103 *	HEPS0013 *	RE 26 *	SK3114	RT-303	ECG159 *
Q25	2SA495-0		GE-221 *	(IR)2SA495	PTC103 *	HEPS0013 *	RE 26 *	SK3114	RT-303	ECG159 *
Q26	2SA495(1)	(1)	GE-221 *	(IR)2SA495	PTC103 *	HEPS0013 *	RE 26 *	SK3114	RT-303	ECG159 *
Q27	2SC372Y		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q28	2SC372	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q29	2SA950		GE-244	WEP242	PTC141	HEPS3032	RE 18	SK3025	RT-115	ECG159
Q30	2SA509	(1)	GE-269	TR-31	PTC127	HEPS0026	RE 63	SK3138	RT-115	ECG290
Q31	2SA950		GE-244	WEP242	PTC141	HEPS3032	RE 18	SK3025	RT-115	ECG129
Q32	2SC509	(1)	GE-81 *	TR-21 *	PTC123 *	HEPS0014 *	RE 17 *	SK3024 *	RT-141 *	ECG128 *
Q33	2SC2120(1)		GE-18	WEP243	PTC149	HEPS3021	RE 17	SK3024	RT-114	ECG128
Q34	2SB435	(1)	GE-69	TR-77	PTC162		RE 22	SK3083	RT-155	ECG153
Q35	2SC372Y		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q36	2SC372	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q37	2SK196R		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q38	2SK19(1)	(1)	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q39	2SK196R		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q40	2SK19(1)	(1)	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q41	2SC372Y		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q42	2SC372	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q43	2SC387A		GE-214	TR-80 *	PTC132 *	HEPS0020 *	RE 10 *	SK3039 *	RT-134	ECG108 *
Q44	2SA495-0	(1)	GE-270	WEP913	PTC180		RE 209		RT-162	ECG295
Q45	2SA495		GE-270	WEP913	PTC180		RE 209		RT-162	ECG295
Q46	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q47	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q48	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q49	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q50	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q51	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q52	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q53	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q54	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q55	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q56	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q57	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q58	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q59	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q60	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q61	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q62	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q63	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q64	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q65	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q66	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q67	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q68	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q69	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q70	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q71	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q72	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q73	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q74	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q75	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q76	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q77	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q78	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q79	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q80	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q81	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q82	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q83	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q84	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q85	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q86	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q87	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q88	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q89	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q90	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q91	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q92	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q93	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q94	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q95	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q96	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q97	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q98	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q99	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q100	2SC372Y	(1)	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q101	2SC372		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *

BROWNING MODEL BARON

- (11) 10W @ 3A
 (12) Zener, 6.2V @ 2% Tol.
 (13) 10W @ 3.0V.
 (14) No Info.

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
C30	33 16V		PC30-25	VTT33D25	QV1-63	EV-1325
C33	3.3 50V		PC5-50	VTT3R3A50	QV1-25	EV-1618
C35	3.3 50V		PC5-50	VTT3R3A50	QV1-25	EV-1618
C36	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C38	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C41	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C46	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
	1-10					
C47	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C53	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C77	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C90	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C92	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C93	3.3 50V		PC5-50	VTT3R3A50	QV1-25	EV-1618
C98	33 16V		PC30-25	VTT33D25	QV1-63	EV-1325
C104	3.3 16V			TDC335M015FL	QDT1-41	SD15-3R39
C108	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C109	33 16V		PC30-25	VTT33D25	QV1-63	EV-1325
C113	1000 25V		WBR1000-25	VTT1000M25	QV1-185	EV-1360
C114	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C117	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C118	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C122	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C123	100 10V		PC100-10	VTT100E10	QV1-93	EV-1130
C124	1000 16V		PC1000-16	VTT1000L16	QV1-183	EV-1260
C125	1000 16V		PC1000-16	VTT1000L16	QV1-183	EV-1260
C127	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C130	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C165	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C199	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615
C301	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C306	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C338	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C339a	3.3 16V			TDC335M015FL	QDT1-41	SD15-3R39
C339	3.3 16V			TDC335M015FL	QDT1-41	SD15-3R39
C341	220 10V		PC250-10	VTT220F10	QV1-115	EV-1140
C343	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C361	10 16V		PC10-25	VTT10B25	QV1-41	EV-1222
C365	.22 35V			TDC224M050EL	QDT1-10	SD50-R229
C401	1 50V		PC1-50	VTT1A50	QV1-11	EV-1615

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C1	.0022				GP222		10TS-D22
C2	470		DD-471	GP470	GP347		10TS-T47
C3	470		DD-471	GP470	GP347		10TS-T47
C4	.0022				GP222		10TS-D22
C5	100		DTZ-100	NP0100	CN0310		10TCC-T10
	47-220						
C6	220		DTZ-220				10TCC-T22
	100-330						
C7	330		DD-331	GP330	GP333		10TS-T33
C8	220		DTZ-220				10TCC-T22
C9	10		DTZ-10	NP010	CN0410		10TCC-Q10
C10	.0022				GP222		10TS-D22
C11	.033		UK16-333		MAG16133		HY-630
C12	22		DTZ-22	NP022	CN0422		10TCC-Q22
	10-47						
C13	22		DTZ-22	NP022	CN0422		10TCC-Q22
C14	33		DTZ-33	NP033	CN0433		10TCC-Q33
C15	.0022				GP222		10TS-D22
C16	.0022				GP222		10TS-D22
C17	.0022				GP222		10TS-D22
C18	1				CN0510		10TCC-V10
	.05-3						
C19	.0022				GP222		10TS-D22
C20	.0022				GP222		10TS-D22
C21	470		DD-471	GP470	GP347		10TS-T47
C22	.0047		DD-472	GP4700	GP247		5GA-D47
C24	.0047		DD-472	GP4700	GP247		5GA-D47
C25	.01			WMF1S1	EWF1A110	QF1-91	1PB-S10
C26	.01			WMF1S1	EWF1A110	QF1-91	1PB-S10
C27	.0047		DD-472	GP4700	GP247		5GA-D47
C28	.0047		DD-472	GP4700	GP247		5GA-D47
C29	.0047		DD-472	GP4700	GP247		5GA-D47
C31	.01			WMF1S1	EWF1A110	QF1-91	1PB-S10
C32	.0047		DD-472	GP4700	GP247		5GA-D47
	.001-.01						

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFG. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C34	.01			WMF1S1	EWF1A110	QF1-91	1PB-S10
C37	.0047			GP4700	GP247		5GA-D47
C39	22		DD-472	NP022	CN0422		10TCC-Q22
C40	.1		UK16-104		MAG1601		HY-650
C42	.1		UK16-104		MAG1601		HY-650
C43	22		DTZ-22	NP022	CN0422		10TCC-Q22
	5-33						
C44	10		DTZ-10	NP010	CN0410		10TCC-Q10
	5-33						
C45	5		DTZ-4R7	NP04P7	CN0547		10TCC-V47
	5-47						
C48	.01			WMF1S1	EWF1A110	QF1-91	1PB-S10
	0-.01						
C49	.01		UK16-103		MAG1611		HY-420
	.0047-.047						
C50	.0022				GP222		10TS-D22
C51	.0047		DD-472	GP4700	GP247		5GA-D47
C52	.01		UK16-103		MAG1611		HY-420
C54	.0022				GP222		10TS-D22
C55	.0047		DD-472	GP4700	GP247		5GA-D47
C56	20						
C57	10 N470				*		10TCT-Q10
C58	3		DTZ-3R3	NP03P3	CN0533		10TCC-V33
	1-10						
C59	470		DD-471	GP470	GP347		10TS-T47
C60	.0047		DD-472	GP4700	GP247		5GA-D47
C61	.0047		DD-472	GP4700	GP247		5GA-D47
C62	2		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C63	1				CN0510		10TCC-V10
C64	1				CN0510		10TCC-V10
C65	470		DD-471	GP470	GP347		10TS-T47
C66	.0047		DD-472	GP4700	GP247		5GA-D47
C67	.0047		DD-472	GP4700	GP247		5GA-D47
C68	.0047		DD-472	GP4700	GP247		5GA-D47
C69	100		DTZ-100	NP0100	CN0310		10TCC-T10
C70	.0047		DD-472	GP4700	GP247		5GA-D47
C71	.033 50V				M192P3339R8		192P3339R8
C72	330		DD-331	GP330	GP333		10TS-T33
	220-470						
C73	.0047		DD-472	GP4700	GP247		5GA-D47
C74	.033 50V				M192P3339R8		192P3339R8
C75	.0047		DD-472	GP4700	GP247		5GA-D47
C76	100		DTZ-100	NP0100	CN0310		10TCC-T10
C78	.0047		DD-472	GP4700	GP247		5GA-D47
C81	.0047		DD-472	GP4700	GP247		5GA-D47
C82	20		DTZ-20	NP020	CN0420		10TCC-Q20
C83	22 N220				*		10TCR-Q22
	10-47						
C84	150		DTZ-150		CN0315		10TCC-T15
C85	100		DTZ-100	NP0100	CN0310		10TCC-T10
C86	10		DTZ-10	NP010	CN0410		10TCC-Q10
	5-33						
C87	.0047		DD-472	GP4700	GP247		5GA-D47
C89	.033 50V				M192P3339R8		192P3339R8
C91	.0047		DD-472	GP4700	GP247		5GA-D47
C96	.0047		DD-472	GP4700	GP247		5GA-D47
C99	.0047		DD-472	GP4700	GP247		5GA-D47
C100	.0047			WMF1D47	EWF1A247	QF1-57	1PB-D47
	.01-.047						
C101	.01			WMF1S1	EWF1A110	QF1-91	1PB-S10
	.0033-.022						
C103	.0047		DD-472	GP4700	GP247		5GA-D47
C105	100		DTZ-100	NP0100	CN0310		10TCC-T10
C106	.1		UK16-104		MAG1601		HY-650
C107	.1		UK16-104		MAG1601		HY-650
C110	100		DTZ-100	NP0100	CN0310		10TCC-T10
C111	.1		UK16-104		MAG1601		HY-650
C112	.0047		DD-472	GP4700	GP247		5GA-D47
C115	.1		UK16-104		MAG1601		HY-650
C116	.0047		DD-472	GP4700	GP247		5GA-D47
C119	470		DD-471	GP470	GP347		10TS-T47
C120	.0047		DD-472	GP4700	GP247		5GA-D47
C121	.033 50V				M192P3339R8		192P3339R8
C126	.0047		DD-472	GP4700	GP247		5GA-D47
C131	.0047		DD-472	GP4700	GP247		5GA-D47
C131a	.0047		DD-472	GP4700	GP247		5GA-D47
C141	100		DTZ-100	NP0100	CN0310		10TCC-T10
C142	100		DTZ-100	NP0100	CN0310		10TCC-T10
C151	.0022				GP222		10TS-D22
C152	.0047		DD-472	GP4700	GP247		5GA-D47
C153	.0047		DD-472	GP4700	GP247		5GA-D47
C154	.0047		DD-472	GP4700	GP247		5GA-D47
C155	.1		UK16-104		MAG1601		HY-650
C157	.033 50V				M192P3339R8		192P3339R8
C158	.0047 10%		DD-472	GP4700	GP247		5GA-D47
C159	.0047		DD-472	GP4700	GP247		5GA-D47
C160	.0047		DD-472	GP4700	GP247		5GA-D47
C161	.0047 10%		DD-472	GP4700	GP247		5GA-D47

BROWNING MODEL BARON

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
C163	.0047		DD-472	GP4700	GP247		5GA-D47
C164	.033 50V				M192P3339R8		192P3339R8
C166	.033 50V				M192P3339R8		192P3339R8
C167	.0047 10%		DD-472	GP4700	GP247		5GA-D47
C168	.0047 10%		DD-472	GP4700	GP247		5GA-D47
C169	.0047		DD-472	GP4700	GP247		5GA-D47
C180	.0047 10%		DD-472	GP4700	GP247		5GA-D47
C181	.0047 10%		DD-472	GP4700	GP247		5GA-D47
C184	.0047		DD-472	GP4700	GP247		5GA-D47
C185	.0047		DD-472	GP4700	GP247		5GA-D47
C186	.0047 10%		DD-472	GP4700	GP247		5GA-D47
C187	.0047		DD-472	GP4700	GP247		5GA-D47
C189	.0047		DD-472	GP4700	GP247		5GA-D47
C195	.033 50V				M192P3339R8		192P3339R8
C196	.0047		DD-472	GP4700	GP247		5GA-D47
C197	.0047		DD-472	GP4700	GP247		5GA-D47
C302	15 N220				*		10TCR-Q15
	4.7-22						
C303	10		DTZ-10	NP010	CN0410		10TCC-Q10
	10-47						
C304	22 N750		DTN-22	N22	CN7422		10TCU-Q22
	5-22						
C305	2		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C307	1				CN0510		10TCC-V10
C308	10		DTZ-10	NP010	CN0410		10TCC-Q10
	5-22						
C309	47		DTZ-47	NP047	CN0447		10TCC-Q47
	22-100						
C310	47		DTZ-47	NP047	CN0447		10TCC-Q47
	33-68						
C311	10		DTZ-10	NP010	CN0410		10TCC-Q10
	5-22						
C312	.0047		DD-472	GP4700	GP247		5GA-D47
C313	.0047		DD-472	GP4700	GP247		5GA-D47
C314	.033 50V				M192P3339R8		192P3339R8
C315	.0047		DD-472	GP4700	GP247		5GA-D47
C316	.0047		DD-472	GP4700	GP247		5GA-D47
C318	47 N220				*		10TCR-Q47
	22-100						
C319	.0047		DD-472	GP4700	GP247		5GA-D47
C320	47 N220				*		10TCR-Q47
C321	47 N220				*		10TCR-Q47
C322	10		DTZ-10	NP010	CN0410		10TCC-Q10
C323	.0047		DD-472	GP4700	GP247		5GA-D47
C324	47		DTZ-47	NP047	CN0447		10TCC-Q47
C325	.0022				GP222		10TS-D22
C326	220		DTZ-220				10TCC-T22
C327	.1 50V			WMF05P1	EWFO5010		431P1049R5
C328	22		DTZ-22	NP022	CN0422		10TCC-Q22
	5-33						
C329	10		DTZ-10	NP010	CN0410		10TCC-Q10
	5-33						
C330	.0047		DD-472	GP4700	GP247		5GA-D47
C331	2		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C332	.0022				GP222		10TS-D22
C333	.0047		DD-472	GP4700	GP247		5GA-D47
C334	220		DTZ-270				10TCC-T27
C335	47		DTZ-47	NP047	CN0447		10TCC-Q47
C336	47 N220				*		10TCR-Q47
C337	.033 50V				M192P3339R8		192P3339R8
C340	10		DTZ-10	NP010	CN0410		10TCC-Q10
C344	.033 50V				M192P3339R8		192P3339R8
C345A	.047 50V			DPMS2S47	EWFI1A147	QF1-171	1PB-S47
	0-.01						
C345B	.047 50V			DPMS2S47	EWFI1A147	QF1-171	1PB-S47
	0.01			WMF1S1	EWFI1A110	QF1-91	1PB-S10
C346	.033 50V				M192P3339R8		192P3339R8
C349	470		DD-471	GP470	GP347		10TS-T47
C350	22		DTZ-22	NP022	CN0422		10TCC-Q22
C353	.1		UK16-104		MAG1601		HY-650
C354	0-100						
C357a	.033 50V				M192P3339R8		192P3339R8
C357	.033 50V				M192P3339R8		192P3339R8
C359	.0047		DD-472	GP4700	GP247		5GA-D47
C360	.0047		DD-472	GP4700	GP247		5GA-D47
C363	.0022				GP222		10TS-D22
C366	470		DD-471	GP470	GP347		10TS-T47
C367	470		DD-471	GP470	GP347		10TS-T47
C403	.047 50V			DPMS2S47	EWFI1A147	QF1-171	1PB-S47

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R8	SWR	20K	(18)				
R326	Clarifier/RF Power Switch	20K					
R9	RF Meter	10K					
R10	S Meter	10K					
R12	RF Gain	10K					
R40	ANL	5000	(19)				
R51	Squelch/ANL Switch	20K					
R49	Squelch Range	10K					
R72	Carrier Balance	5000					
R86	Bias	100					
R90	RF	5000	(20)				
R120	Volume/Power Switch	50K					
R130	SSB ALC	20K					
R134	AMC	10K					
R176	Bias	100					
R317	26.965MHz	10K					
R322	Clarifier Range	1000					
R324	34.987MHz	30K					
R328	34.985MHz	30K					

(18) Includes R8 and R326.

(19) Includes R40 and R51.

(20) Includes R90 and R120.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
R46	2400 NTC Cold						

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Pi Filter				
L2	Pi Filter				
L3	Final Amp (27MHz)				
L4	RF Choke				
L5	RF Amp (27MHz)				
L6	RF Choke				
L7	XMT Driver (27MHz)				
L8	RF Choke				
L9	RF Choke				
L11	Pi Filter				
L13	Pi Filter				
L14	RF Choke				
L15	Pi Filter				
L16	RF Choke				
L301	LSB VCO				
L302	AM USB VCO				
L303	USB (17.0555MHz)				
L304	RF Choke				
T1	Rec Antenna (27MHz)				
T2	Rec RF (27MHz)				
T3	Rec RF (27MHz)				
T4	Rec Mic (27MHz)				
T5	IF (7.8MHz)				
T6	IF (7.8MHz)				
T7	IF (7.8MHz)				
T8	IF (7.8MHz)				
T9	Harmonic Suppressor (27MHz)				
T10	Harmonic Suppressor (27MHz)				
T11	XMT Mix (27MHz)				
T12	XMT RF (27MHz)				
T301	Harmonic Suppressor (18.507MHz)				
T302	LSB Mixer (18.507MHz)				
T303	LSB Doubler (18.507MHz)				

BROWNING MODEL BARON

PARTS LIST AND DESCRIPTION (CONTINUED)

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

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
L10	2.2A	.16	1.26mH	5015 (1)	TR573		(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T13	31.3	16	5014 (1)	TR833	MCB-18	(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP1	6" PM, 16 Ohms		26A07UZ16	

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFR. PART No.	CTS KNIGHTS PART No.	CHANNEL	ITEM No.	CRYSTAL FREQUENCY IN MHz	MFR. PART No.	CTS KNIGHTS PART No.	CHANNEL
X1 X301	18.025 17.056		CA80W78025 CB20W17056	Carrier Osc AM USB	X302	5.120			Rec Osc

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			AGC3	HDJ	312003	150145	F63-2	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CD12 CD316 CD317 J1 J2 J3 J4 K1 K2 M1 PL1 S1 S3 S4 S5 S6 S7 S8 S301 S302	LED LED LED Jack Jack Jack Jack Relay Relay Meter Lamp Switch Switch Switch Switch Switch Switch Switch Switch Switch		REC/XMT (1mA @ 1.70V) Channel Indicator Channel Indicator Antenna Microphone PA Speaker Ext Speaker XMT XMT S/Rf/SWR Meter (30mA @ 6.36V) SWR/CAL NB/Off LSB/USB PA/CB ANL (On ANL Control) RF Power (On SWR Control) Power (On Volume Control) Channel Select BRT/DIM