



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.



HY-GAIN MODEL 2679A

MODEL 2679A

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

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ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment. Maintain line voltage at 120V AC. Allow a 15-minute warm-up period. 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:
 L103, L104, T101 thru T105, T111.....9440
 L112, T106 thru T109.....5009, 8728-A, 8728
 L101, L109, L110.....9304, 9300, 9302
 CT101.....8276, 5000

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to TP1 (IC101, Pin 3).	Ch. 19		Check for 10.240MHz.
Input of frequency counter thru 5pF to TP2 (Q105, Emitter).	Ch. 19	CT101	Adjust for 11.8066MHz.
Input of DC meter to TP8.	Ch. 1	T101	Adjust for 1.5V+ .1 Volt.
Input of frequency counter thru 5pF to TP3 (Q108, Collector).	Ch. 1		Check for 37.660MHz. Check all channels. (Channel frequency + 10.695MHz = frequency on counter).
Input of oscilloscope to TP4 (Q115, Base).	Ch. 19	T111	Adjust for maximum RF.
Input of frequency counter to TP5 (Q109, Emitter).	Ch. 19, XMT		Disconnect C126. Check for 10.695MHz. Reconnect C126.
Input of frequency counter to antenna jack.	Ch. 19, XMT	CT101	Check for 27.185MHz. If necessary readjust CT101 for 27.185MHz.

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.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP6 (Q116, Emitter). 455kHz, 1000Hz @ 30% modulation.	Ch. 19, Squelch MINIMUM	T109, T108, T107	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.185MHz, 1000Hz @ 30% modulation.	Ch. 19, Squelch MINIMUM	T106, L112, T105, T104	Adjust for maximum output. If necessary readjust T107, T108 and T109.

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 500uV.	Ch. 19, Squelch Maximum	RV101	SQUELCH RANGE Adjust RV101 so that squelch just breaks.

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	TRANSCIVER	ADJUST	REMARKS
	Ch. 19	L103, L104, T102, T103, L106, L109, L110	Adjust for maximum.
	Ch. 19	L106	Adjust for 4 watts maximum.

TRANSMITTER ADJUSTMENTS

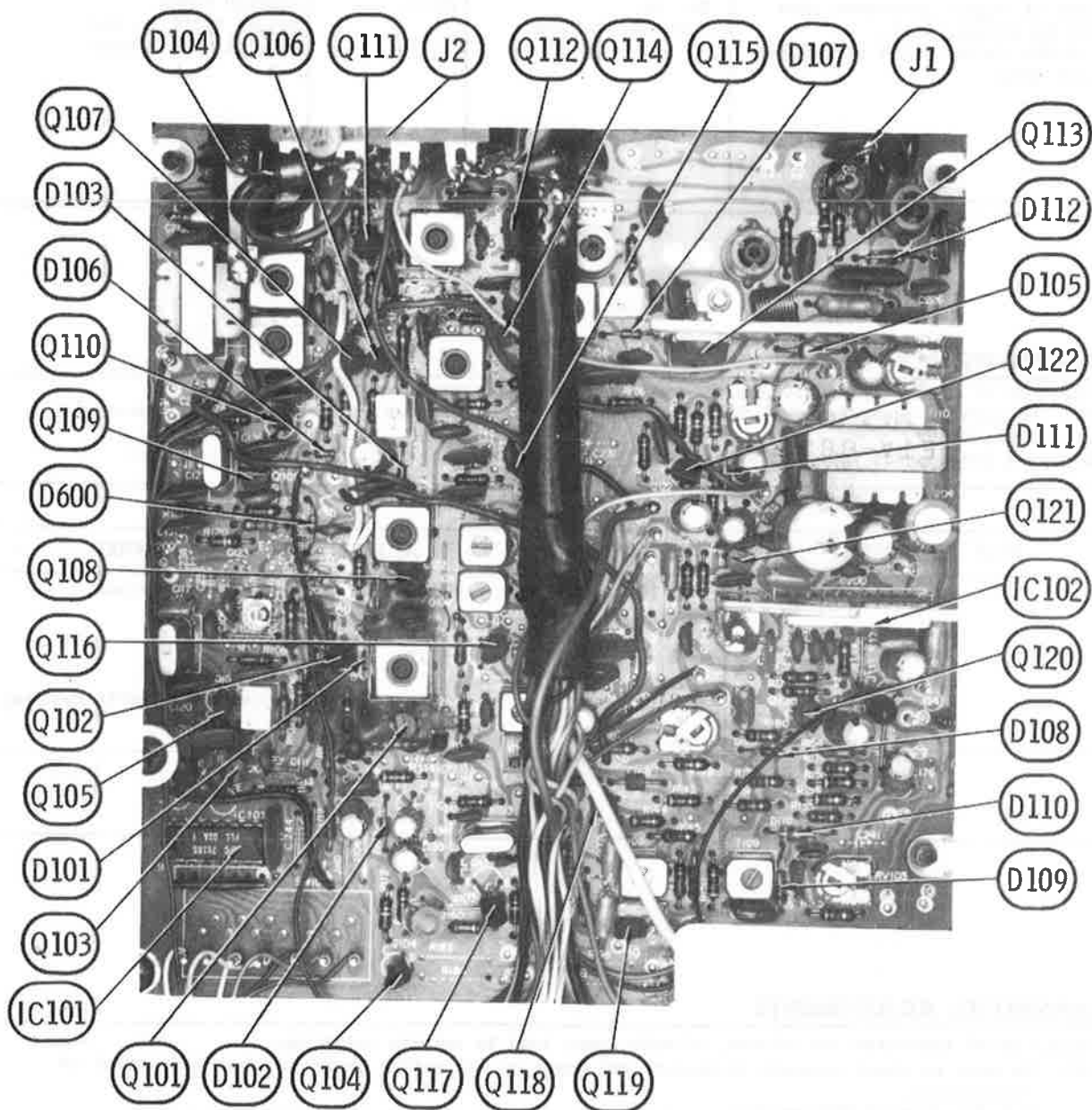
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.

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

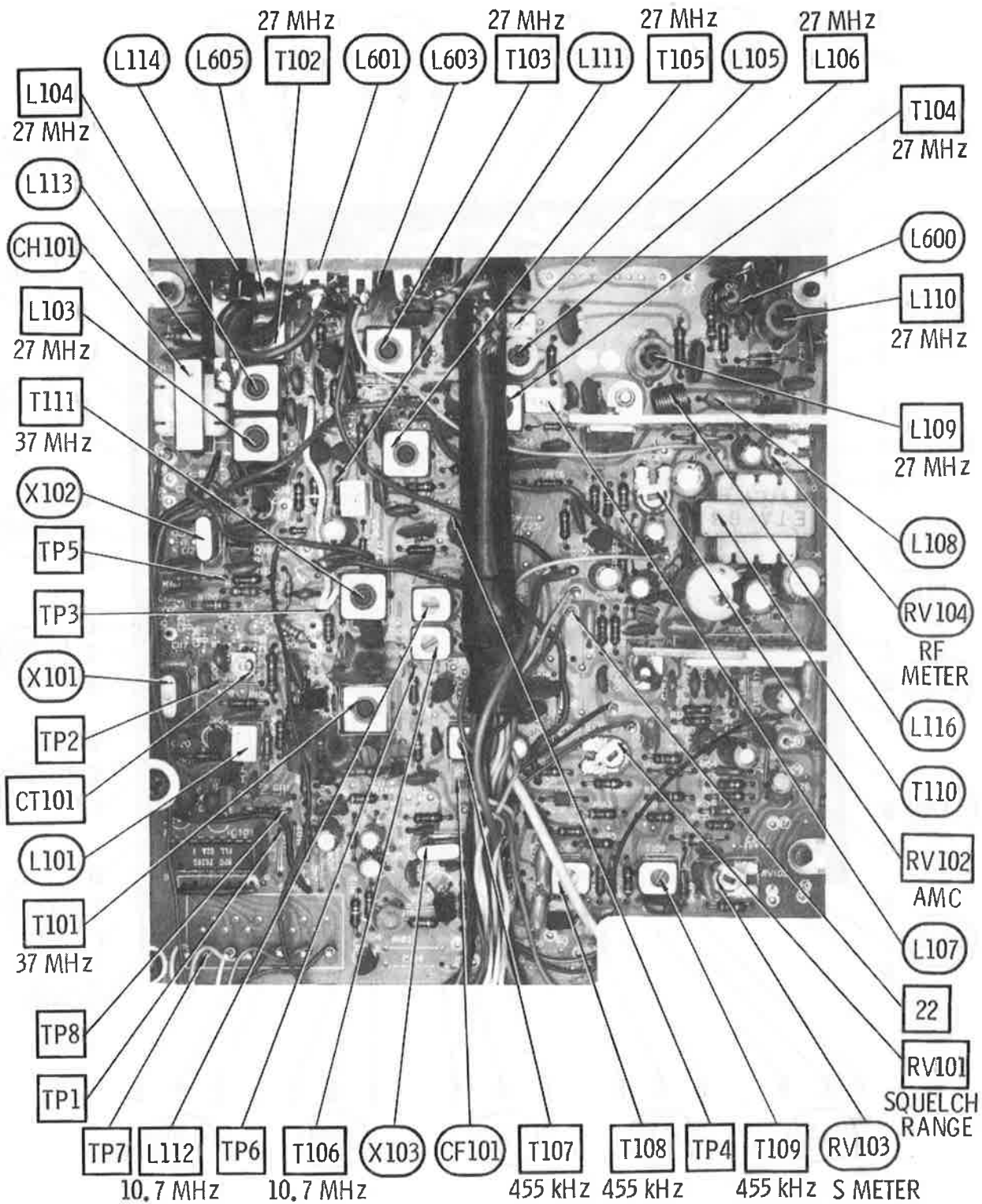
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Modulation meter to antenna jack. Inject a 1000Hz, 10mV signal at 22.	Ch. 19	RV102	AMC Adjust for 100% modulation maximum.

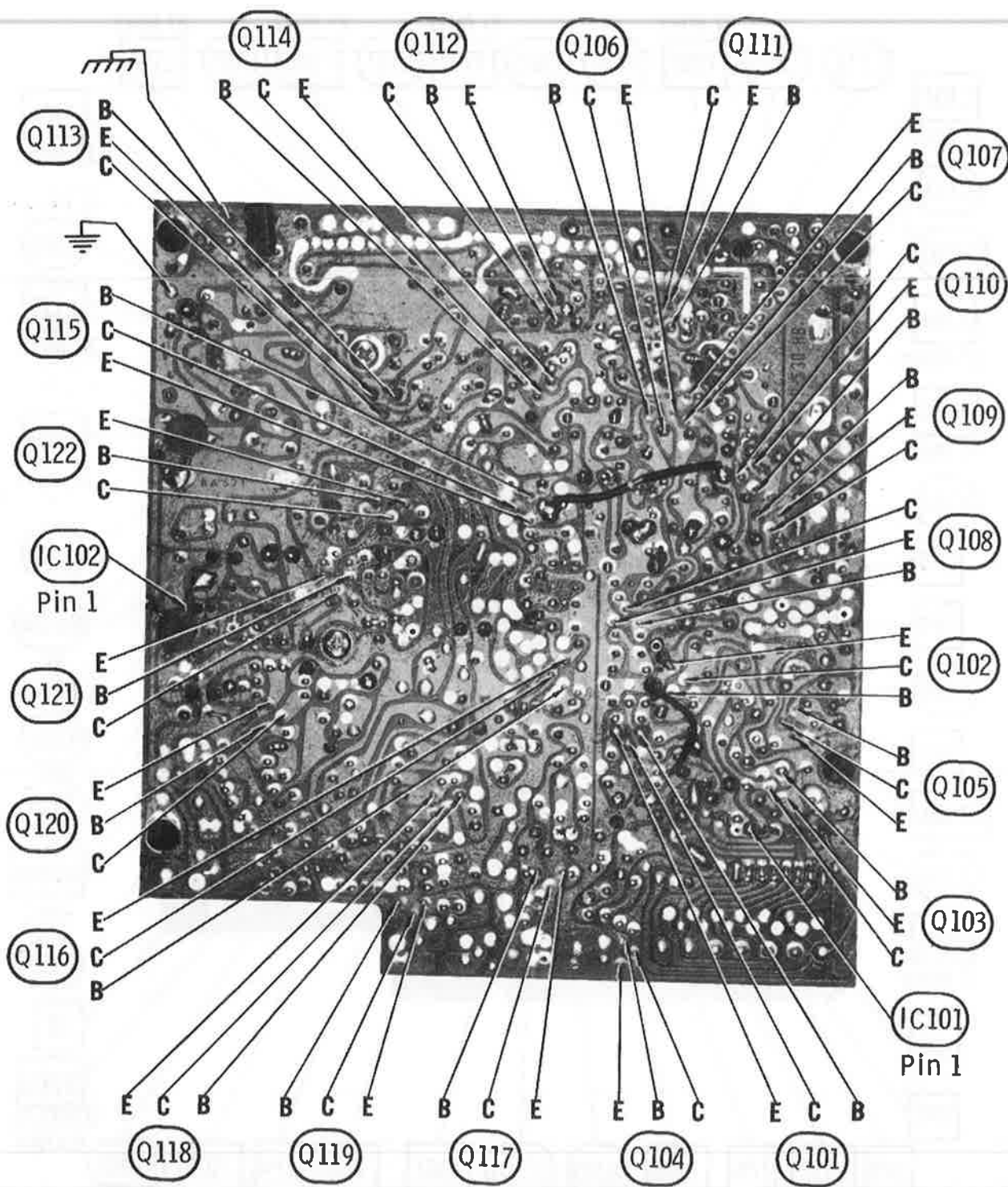
HY-GAIN MODEL 2679A



MAIN BOARD

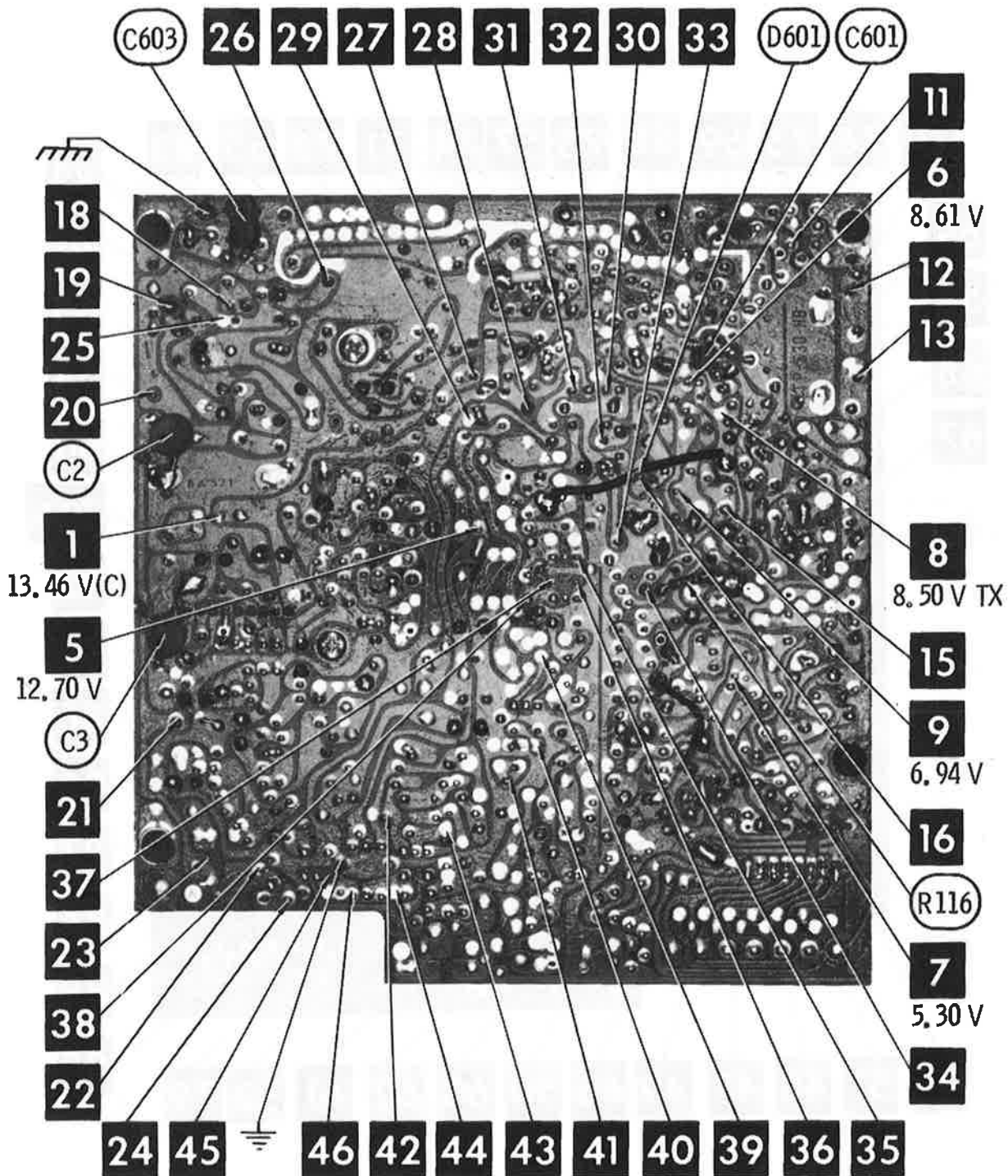


CHASSIS-BOTTOM

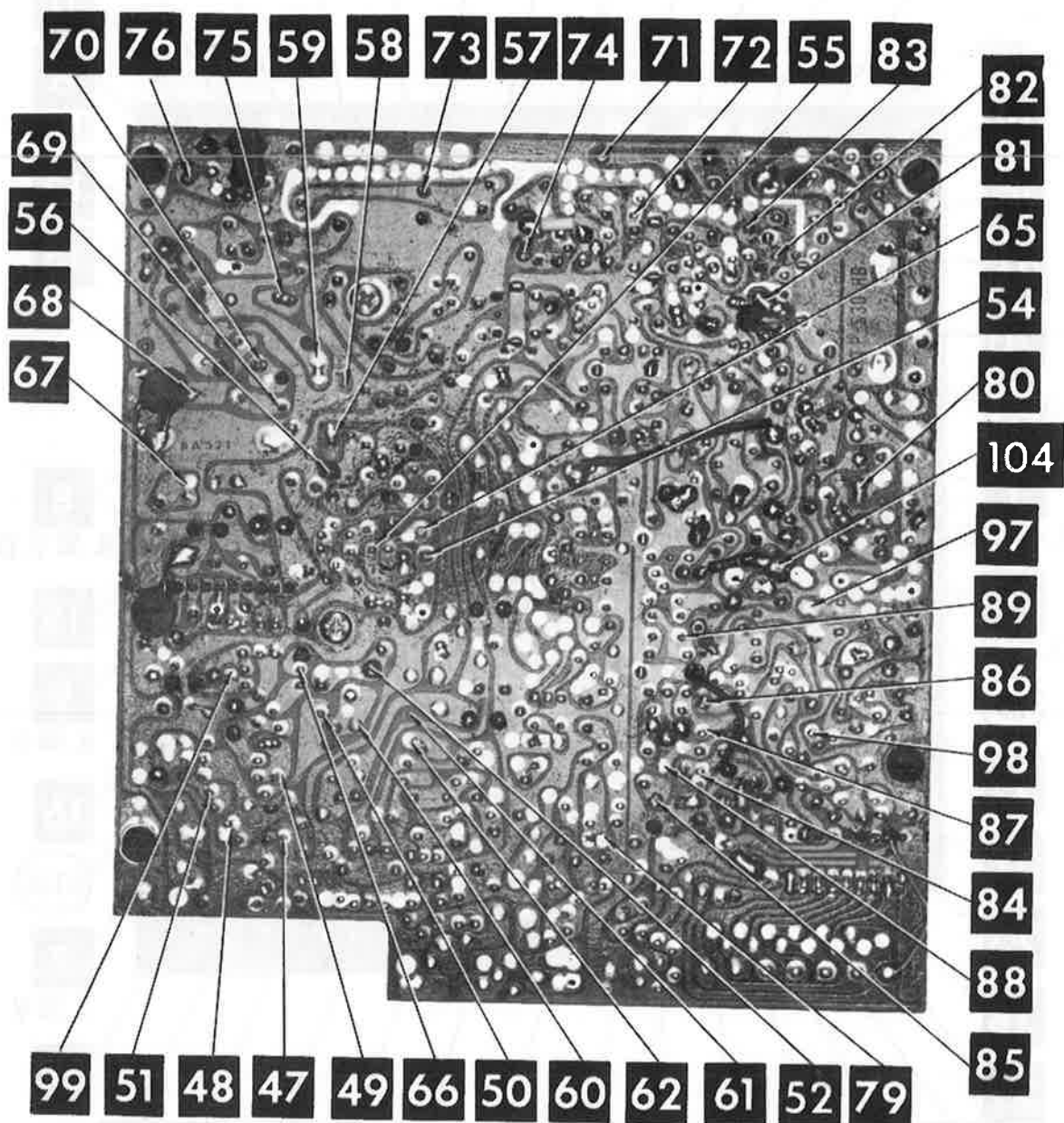


MAIN BOARD

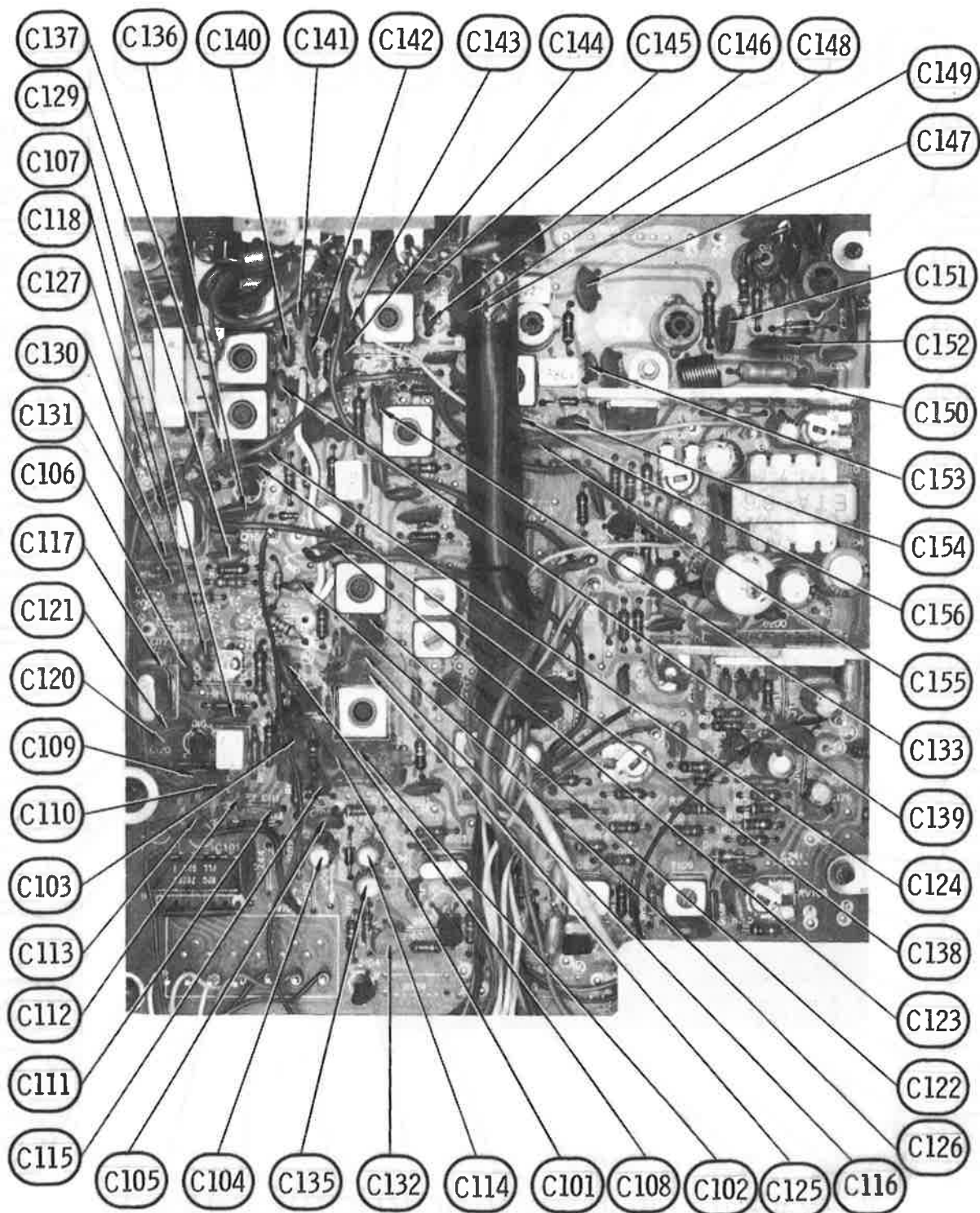
HY-GAIN MODEL 2679A



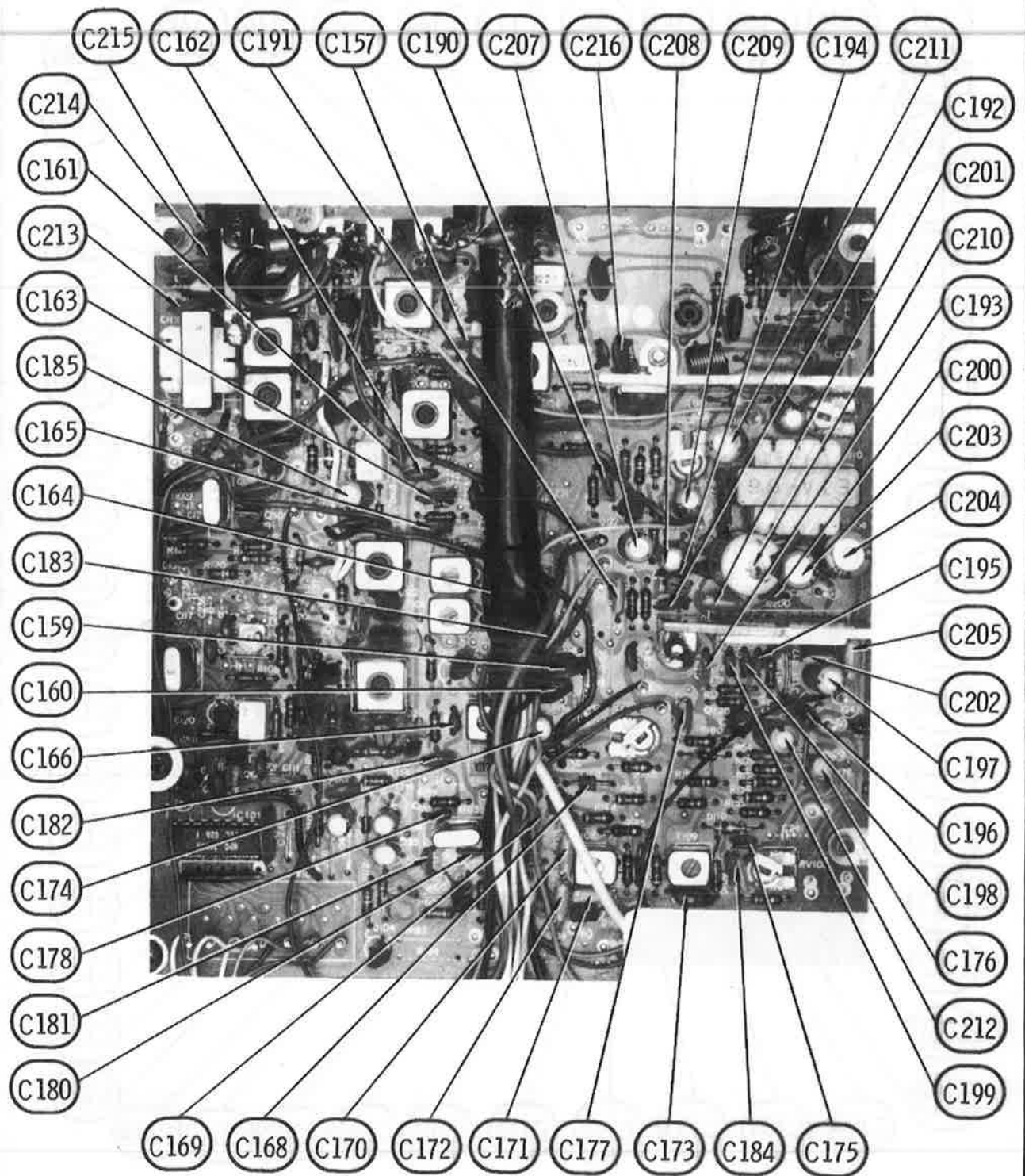
MAIN BOARD



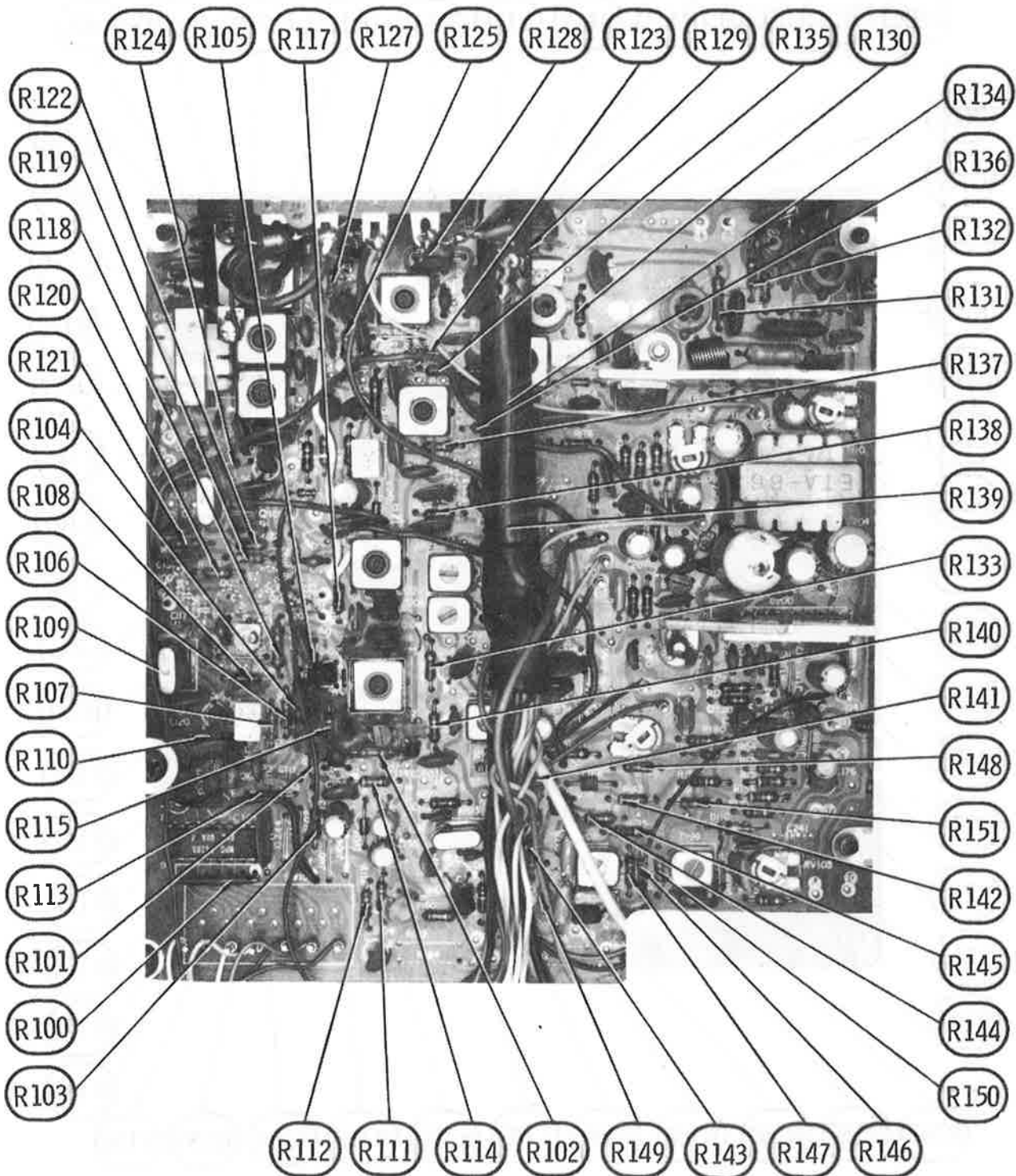
MAIN BOARD



MAIN BOARD

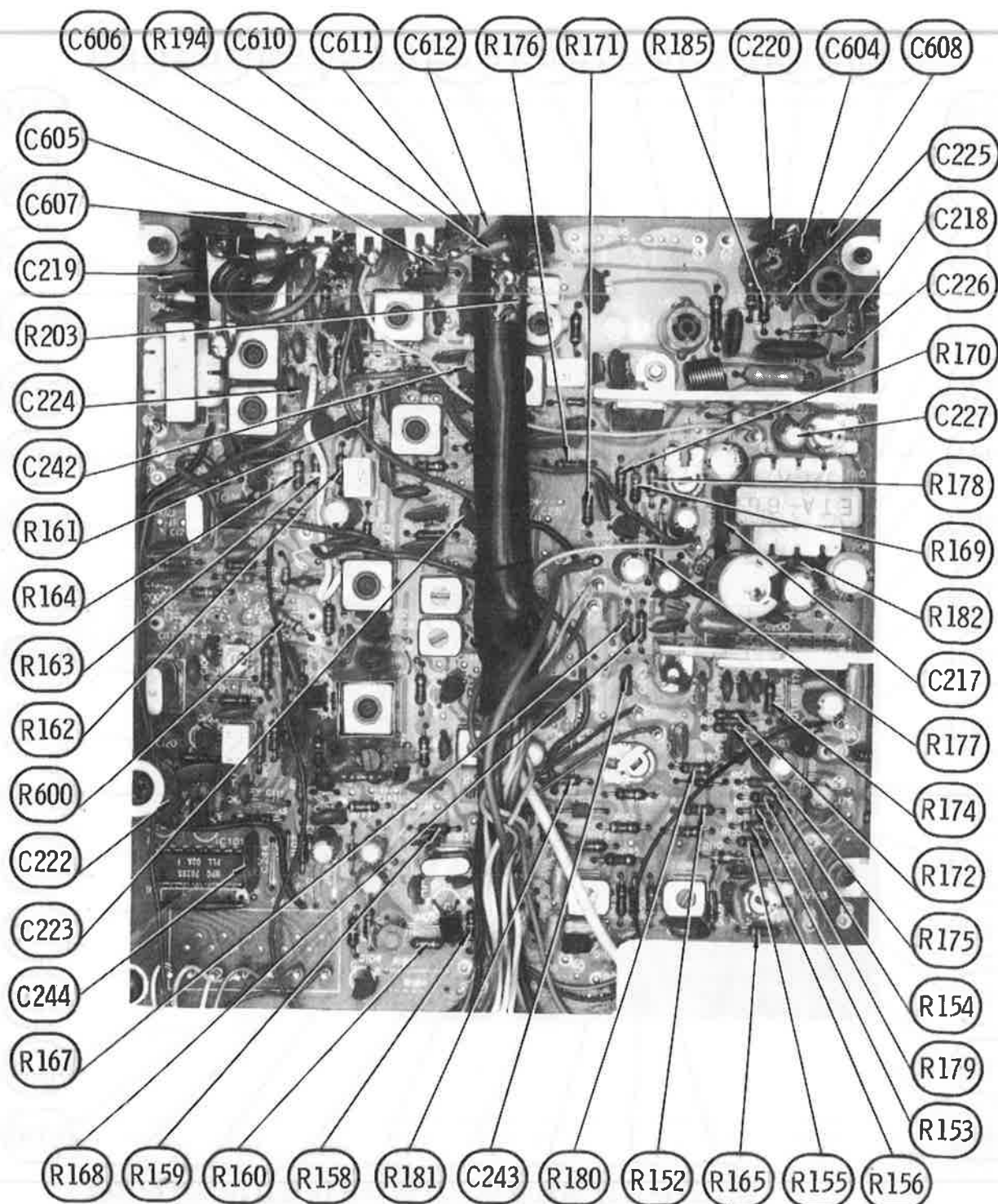


MAIN BOARD

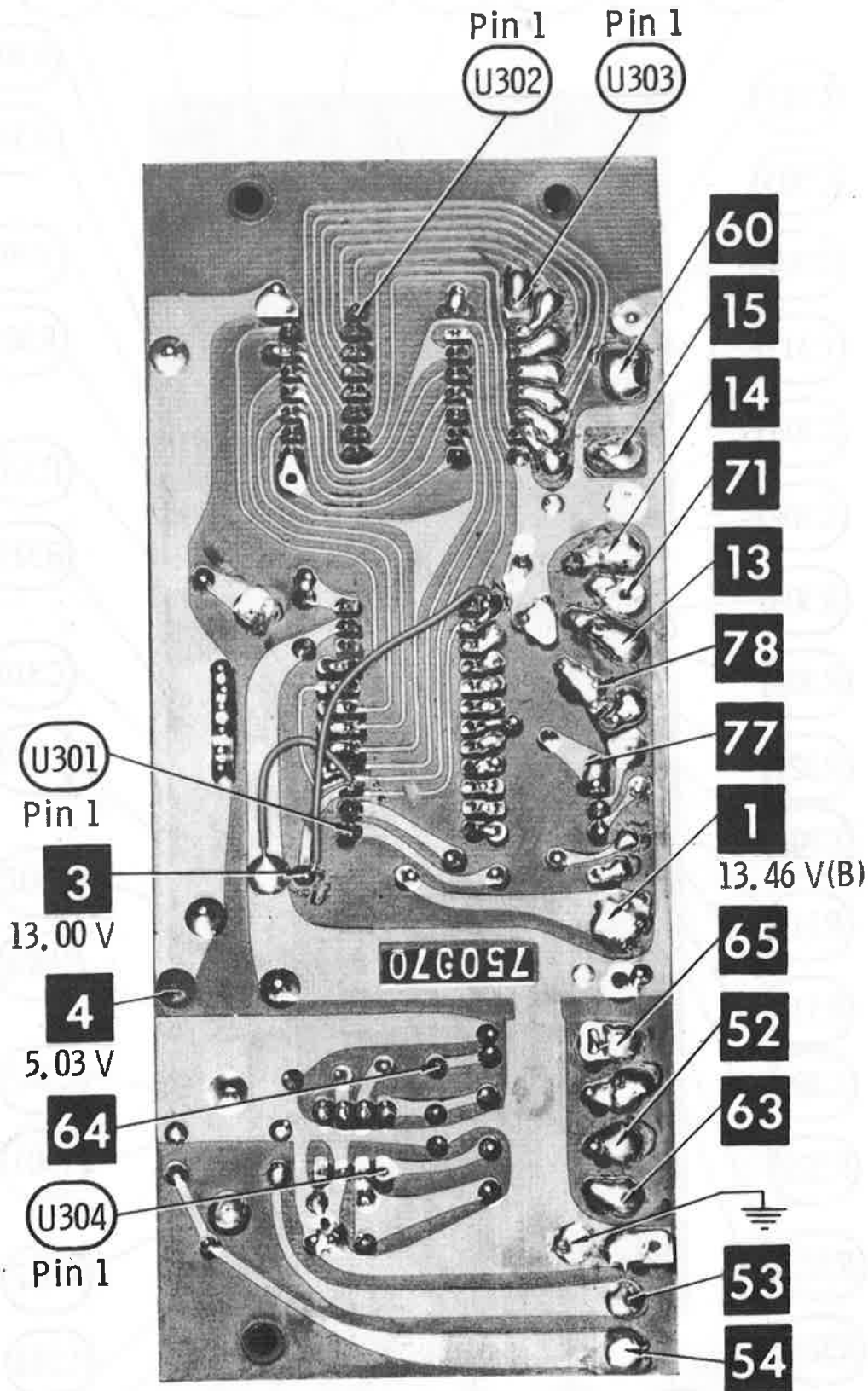


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MAIN BOARD

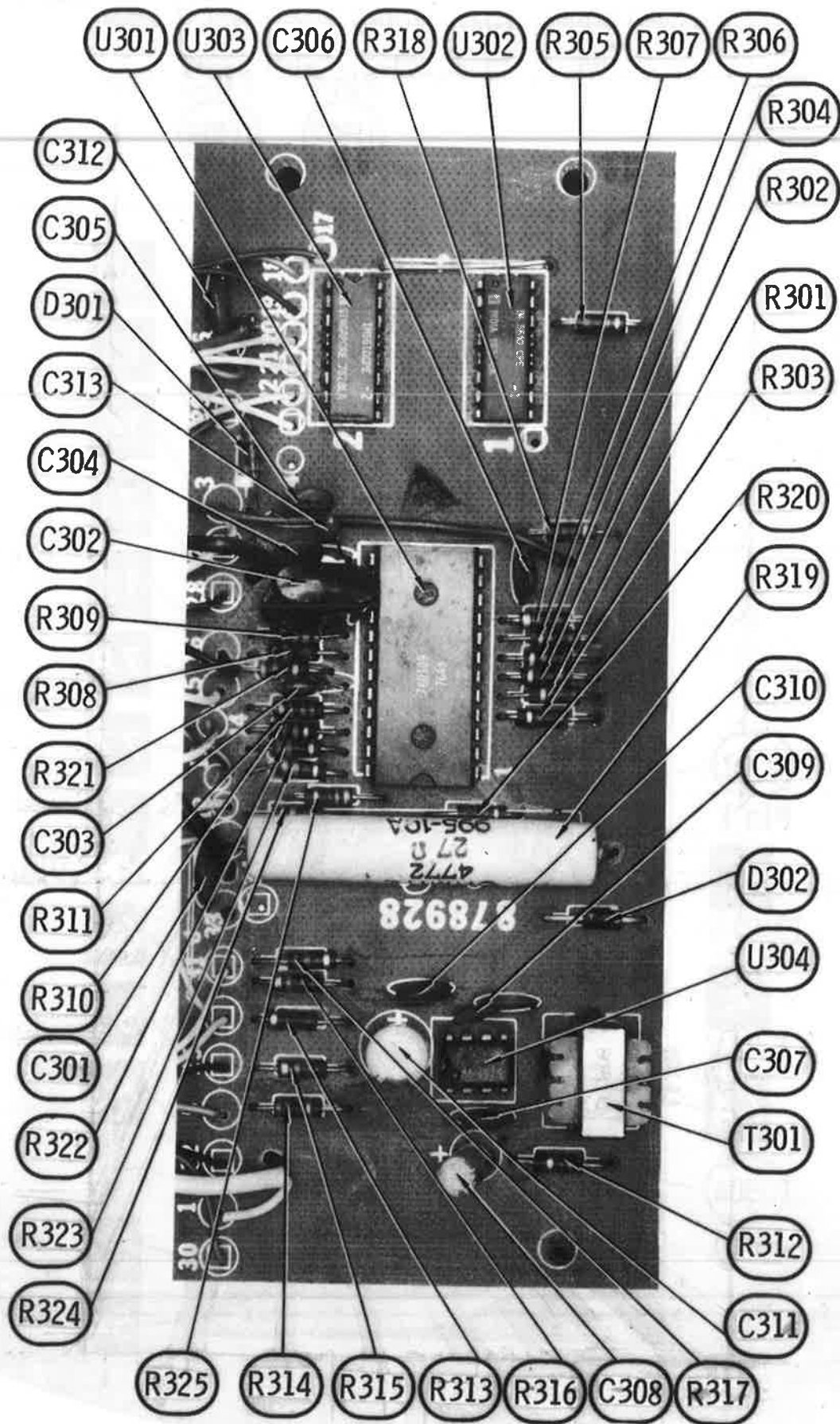


MAIN BOARD

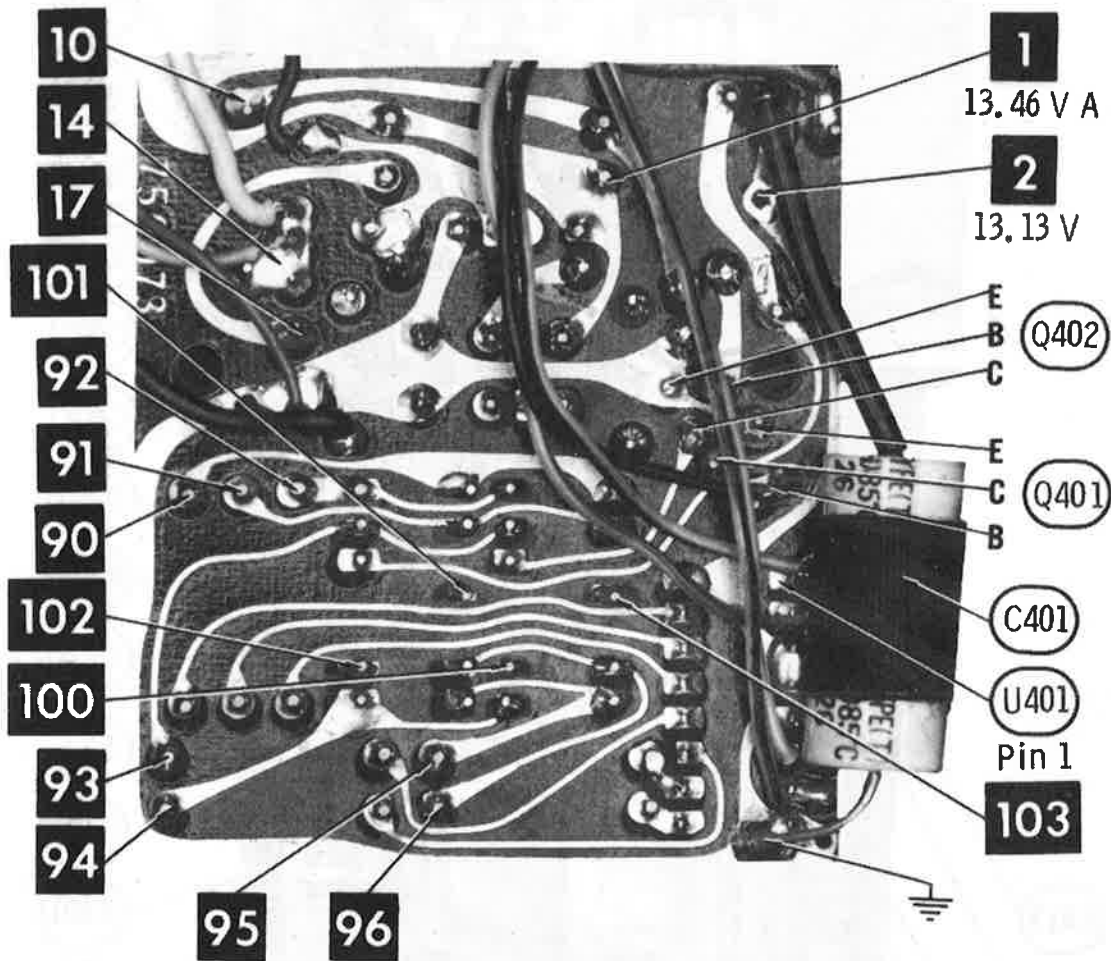


HY-GAIN MODEL 2679A

CH. SELECTOR BOARD

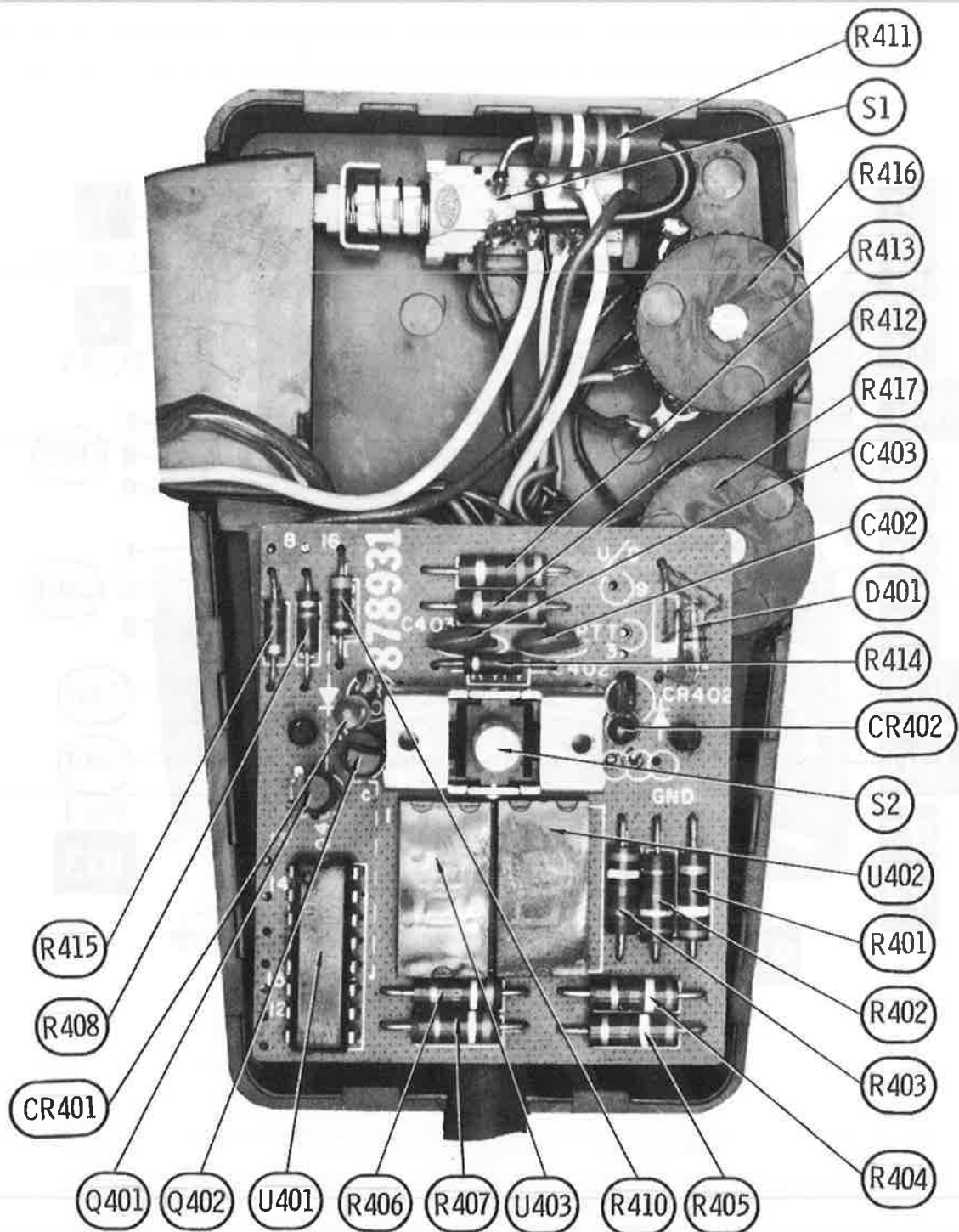


CH. SELECTOR BOARD

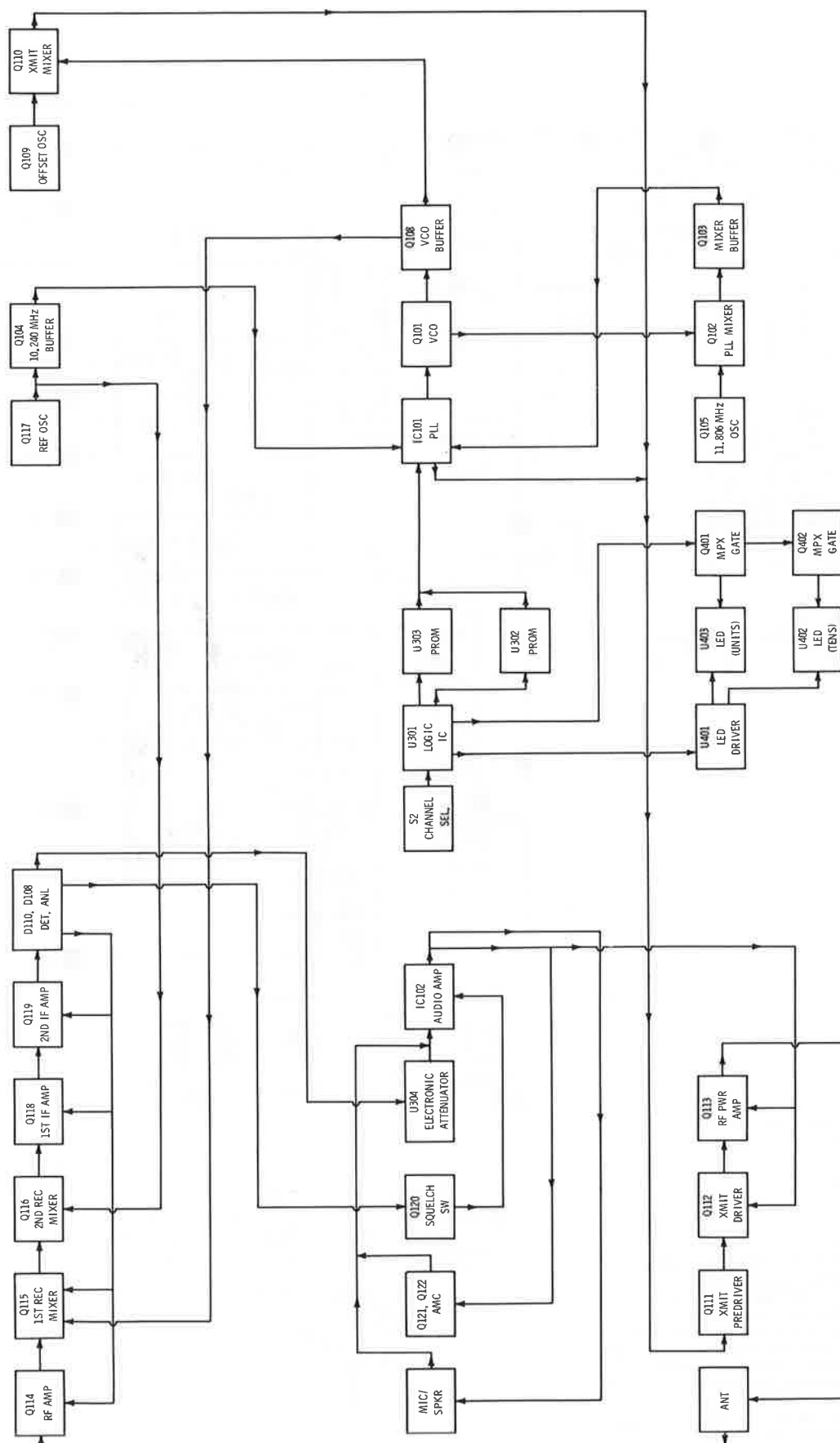


HY-GAIN MODEL 2679A

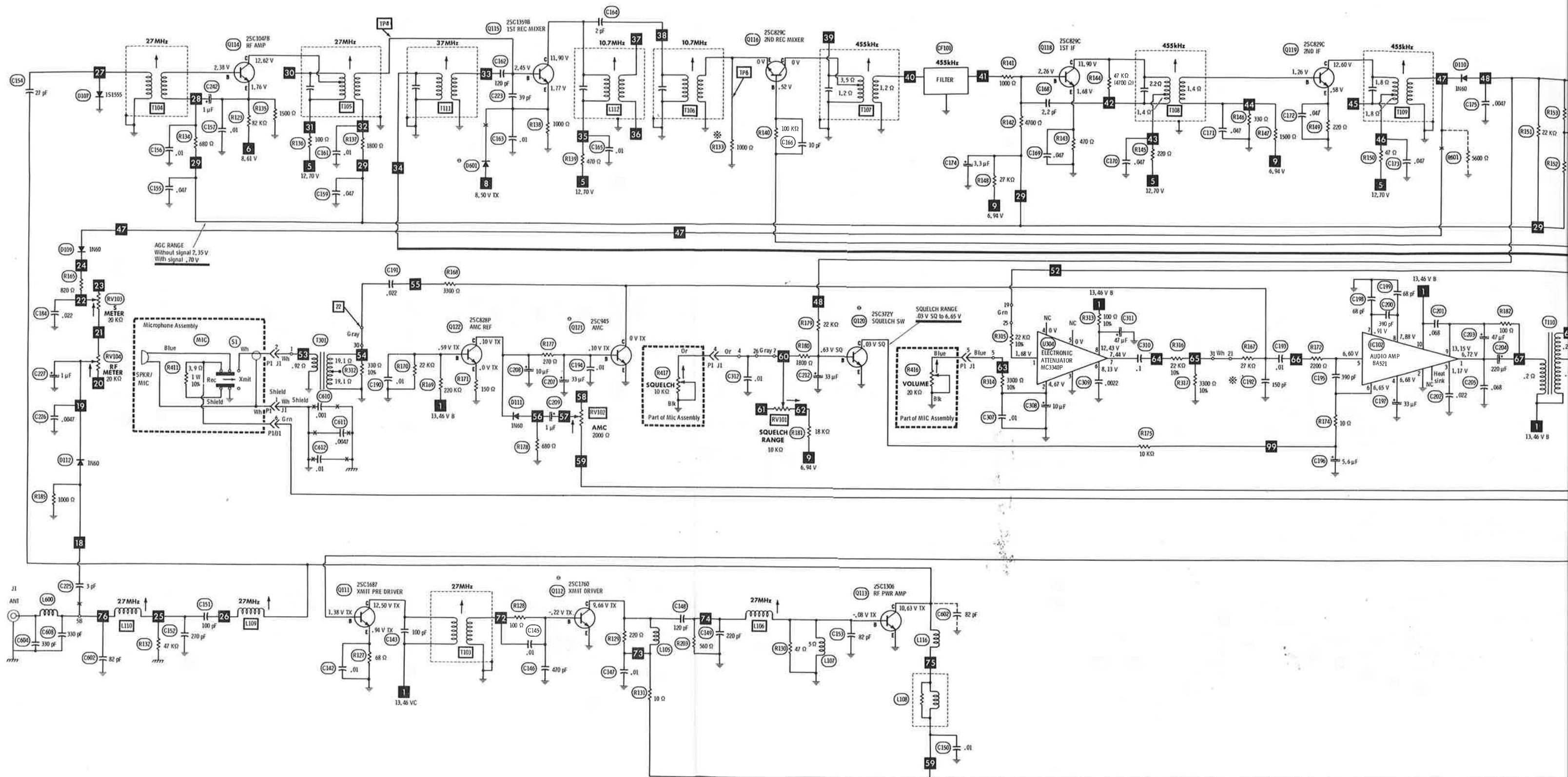
V MIC BOARD

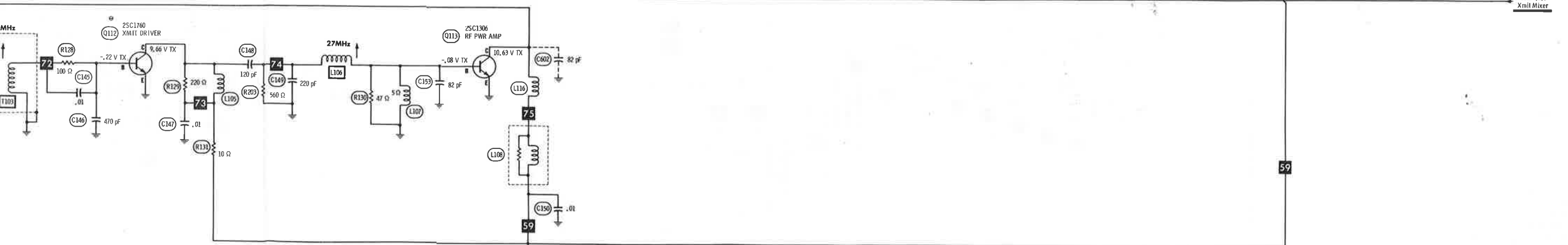


MIC ASSEMBLY



BLOCK DIAGRAM





TRUTH CHART

1 = <u>3.53</u> Volts 0 = <u>0</u> Volts								
C H A N N E L	IC101 PROGRAM DIVIDER							REC & XMT VCO OUTPUT IN MHz AT TP3
	PINS							
	7	11	12	13	14	15		
1	0	0	0	0	0	0		37.660
2	0	0	0	0	0	1		37.670
3	0	0	0	0	1	0		37.680
4	0	0	0	1	0	0		37.700
5	0	0	0	1	0	1		37.710
6	0	0	0	1	1	0		37.720
7	0	0	0	1	1	1		37.730
8	0	0	1	0	0	1		37.750
9	0	0	1	0	1	0		37.760
10	0	0	1	0	1	1		37.770
11	0	0	1	1	0	0		37.780
12	0	0	1	1	1	0		37.800
13	0	0	1	1	1	1		37.810
14	0	1	0	0	0	0		37.820
15	0	1	0	0	0	1		37.830
16	0	1	0	0	1	1		37.850
17	0	1	0	1	0	0		37.860
18	0	1	0	1	0	1		37.870
19	0	1	0	1	1	0		37.880
20	0	1	1	0	0	0		37.900

1 = <u>3.53</u> Volts 0 = <u>0</u> Volts								
C H A N N E L	IC101 PROGRAM DIVIDER							REC & XMT VCO OUTPUT IN MHz AT TP3
	PINS							
	7	11	12	13	14	15		
21	0	1	1	0	0	1		37.910
22	0	1	1	0	1	0		37.920
23	0	1	1	1	0	1		37.950
24	0	1	1	0	1	1		37.930
25	0	1	1	1	0	0		37.940
26	0	1	1	1	1	0		37.960
27	0	1	1	1	1	1		37.970
28	1	0	0	0	0	0		37.980
29	1	0	0	0	0	1		37.990
30	1	0	0	0	1	0		38.000
31	1	0	0	0	1	1		38.010
32	1	0	0	1	0	0		38.020
33	1	0	0	1	0	1		38.030
34	1	0	0	1	1	0		38.040
35	1	0	0	1	1	1		38.050
36	1	0	1	0	0	0		38.060
37	1	0	1	0	0	1		38.070
38	1	0	1	0	1	0		38.080
39	1	0	1	0	1	1		38.090
40	1	0	1	1	0	0		38.100

HY-GAIN MODEL 2679A

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	BELDEN No. 17106	4-conductor (unshielded)	31AWG BELDEN No. 9468 (10')
	(6')	5-conductor (1 shielded)	28AWG BELDEN No. 9467 (6')
	(9')		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.
D101	1T1410	QD-CTT410XQ				HEPR2502				ECG612
D102	MZ205	QD-ZMZ205KE		WEP602			RE 105			ECG135
D103	RD9.1E	QD-ZRD9EXAA	GEZD-9.1		ZB9.1B		RE 114		RT-240	ECG139A
D104	1S1885	QD-SS1885XT	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D105	V06C	QD-SV06CXXB	GE-504A	5A6D	PTC202	HEPR0054	RE 49	SK3017A	RT-215	ECG116
D106	1S1555	QD-SS1555XT	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D107	1S1555	QD-SS1555XT	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D108	1S1555	QD-SS1555XT	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D109	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
		(1)								
D110	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D111	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D112	1N60	QD-G1N60XXT	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
		(1)								
D301	1N270	765722	1N34AS	1N34A	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109
D302	1N5338B	760309								ECG5116
D401	1N4148	760037	GE-514	1R914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
	1N270	765722(1)	1N34AS	1N34A	PTC207	HEPR9134A	RE 47	SK3087	RT-200	ECG109
D600	1N4148	760037	GE-514	1R914	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
D601			GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
IC101	PLL02A	QQ-OPLL02AO		WEP2007			RE 360-IC			ECG1167
IC102	BA521	QQ-MBA521AX	GEIC-282	WEP2003	PTC780		RE 359-IC		TVCM-81	ECG1166
Q101	MPS3704	760142	GE-20	TR-21	PTC123	HEPS0015	RE 10	SK3122	RT-113	ECG108
	2SC710D	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
		(1)								
Q102	2SC710	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710D	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
		(1)								
Q103	2SC710D	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC828D	QT-C0829XDN	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
		(1)								
Q104	2SC710	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710D	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
		(1)								
Q105	2SC710	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710D	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
		(1)								
Q106	2SC1318R	QT-C1318XAN	GE-210 *	TR-21 *	PTC178	HEPS0015 *	RE 17 *	SK3122	RT-302	ECG128 *
	2SC1318Q	QT-C1318XAN	GE-210 *	TR-21 *	PTC178	HEPS0015 *	RE 17 *	SK3122	RT-302	ECG128 *
		(1)								
Q107	2SA719Q	QT-A0719XAN	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
	2SA719R	QT-A0719XAN	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
Q108	2SC1359B	QT-C1359XAN	GE-212	(IR)2SC380AO	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
Q109	2SC710	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710D	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
		(1)								
Q110	2SC710	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
		(1)								
Q111	2SC1687	QT-C1687XAN	GE-20 *	TR-24 *	PTC121 *	HEPS0015 *	RE 13 *	SK3018 *	RT-107A *	ECG123A *
Q112	2SC1760	QT-C1760XAS	GE-276	WEP1014	PTC180		RE 224		RT-310	ECG306
	2SC1760-3	QT-C1760XAS	GE-276	WEP1014	PTC180		RE 224		RT-310	ECG306
		(1)								
Q113	2SC1306	QT-C1306XZA	GE-215	WEP1306	PTC186		RE 203	SK3197	RT-146	ECG235
		(13)								
Q114	2SC1047B	QT-C1047SAN	GE-60 *	(IR)2SC829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
Q115	2SC1359B	QT-C1359XAN	GE-212	(IR)2SC380AO	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
Q116	2SC829C	QT-C0829XBN	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
Q117	2SC710	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	2SC710D	QT-C0710XBE	GE-211 *	(IR)2SC710	PTC132	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
		(1)								
Q118	2SC829C	QT-C0829XBN	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
Q119	2SC829C	QT-C0829XBN	GE-20 *	(IR)2SC829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122	RT-308	ECG229 *
Q120	2SC372Y	QT-C0372XAT	GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q121	2SC945	QT-C0828XDN	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	2SC828PQ	QT-C0828XDN	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
		(1)								
Q122	2SC828P	QT-C0828XAN	GE-61 *	(IR)2SC828A	PTC121 *	HEPS0015 *	RE 192	SK3122	RT-302	ECG199
Q401	2N3414	760251	GE-20	TR-24	PTC123	HEPS0033	RE 13	SK3124	RT-102	ECG123A
Q402	2N3414	760251	GE-20	TR-24	PTC123	H33	RE 13	SK3124	RT-102	ECG123A
U301		760109	GE-20	TR-24	PTC123					

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.
U302	76361A	760104(1)								
U303	76281A									
U304	760077(1)									
U401	14511									

* Lead configuration may vary from original.

(1) Used in some versions.

(12) 950 MW @ 500 MA

(13) 12 WATT @ 3.0 AMP.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL- DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C104	10 16V	CE-ED100ALN	PC10-25	VTT10B25	QV1-41	EV-1222
C113	.22 50V	CE-ECR22ZMN		TDC224M050EL	QDT1-10	SD50-R229
C114	10 16V	CE-ED100ZMN	PC10-25	VTT10B25	QV1-41	EV-1222
C115	.1 50V	CE-EGR10SMN		TDC104M050EL	QDT1-2	SD50-R109
C135	10 16V	CE-ED100ALN	PC10-25	VTT10B25	QV1-41	EV-1222
C174	3.3 25V	CE-EE3R3ALN	PC5-50	VTT3R3A50	QV1-23	EV-1318
C176	1 50V	CE-EG010ALN	PC1-50	VTT1A50	QV1-11	EV-1615
C183	10 16V	CE-ED100ALN	PC10-25	VTT10B25	QV1-41	EV-1222
C185	47 10V	CE-EC470ALN	PC50-16	VTT47D16	QV1-73	EV-1226
C196	5.6 25V	CS-SE5R6MDN		TDC475M010EL	QDT1-48	SD10-4R79
C197	33 6.3V	CE-EB330ALN	PC30-25	VTT33B10	QV1-61	EV-1125
C203	47 16V	CE-ED470ALN	PC50-16	VTT47D16	QV1-73	EV-1226
C204	220 16V	CE-AA221ZLS	PC250-25	VTT220H16	QV1-117	EV-1240
C207	33 6.3V	CE-EB330ALN	PC30-25	VTT33B10	QV1-61	EV-1125
C208	10 16V	CE-ED100ALN	PC10-25	VTT10B25	QV1-41	EV-1222
C209	1 50V	CE-EG010ALN	PC1-50	VTT1A50	QV1-11	EV-1615
C210	1000 16V	CE-ED102ZUN	PC1000-16	VTT1000L16	QV1-183	EV-1260
C211	47 25V	CE-AE470ZLS	PC50-25	VTT47E25	QV1-75	EV-1326
C212	33 6.3V	CE-EB330ALN	PC30-25	VTT33B10	QV1-61	EV-1125
C222	4.7 25V	CE-EE4R7SMN		TDC475M010EL	QDT1-48	SD10-4R79
C227	1 50V	CE-EG010ALN(1)	PC1-50	VTT1A50	QV1-11	EV-1615
C242	1 50V	CE-EG010ALN	PC1-50	VTT1A50	QV1-11	EV-1615
C308	10 16V	720144	PC10-25	VTT10B25	QV1-41	EV-1222
C311	47 16V	722347	PC50-16	VTT47D16	QV1-73	EV-1226
C313	1 35V	722226		TDC105M035EL		SD35-19
C401	330 16V	722358	WBR300-35	VTT330H16	QV1-133	EV-1245

(1) Used in some versions.

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
C2	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C3	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C101	18 NPO 50V				CN0418		10TCC-Q18
C102	22 50V		DTZ-22	NP022	CN0422		10TCC-Q22
C103	1 NPO 50V				CN0510		10TCC-V10
C105	.001 50V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C106	10 50V		DTZ-10	NP010	CN0410		10TCC-Q10
C107	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C108	330 50V		DD-331	GP330	GP333		10TS-T33
C109	330 50V		DD-331	GP330	GP333		10TS-T33
C110	.001 50V			DPMS6D1	EWFI1A210	QF1-1	1PB-D10
C111	.01 50V			WMF1S1	EWFI1A110	QF1-91	1PB-S10
C112	39 50V				CN0439		10TCC-Q39
C116	15 50V				CN0415		10TCC-Q15
C117	.01 50V		DTZ-15	NP015	EWFI1A110	QF1-91	1PB-S10
C118	39 N150 50V	CC-CB390KOM			*		10TCP-Q39
C119	12 50V	(1)			CN0412		10TCC-Q12
C120	560 50V		DD-561		GP356		10TS-T56
C121	100 N150 50V	CC-CB101KPM			*		10TCP-T10
C122	15 50V		DTZ-15	NP015	CN0415		10TCC-Q15
C123	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C124	100 500V			CD15FD101J03	SX310	QW1-27	MNA-101
C125	33 50V		DTZ-33	NP033	CN0433		10TCC-Q33
C126	12 N150 50V	CC-CB120KPM			*		10TCP-Q12
C127	56 N150 50V	CC-CB560KPM			*		10TCP-Q56
C129	.001 50V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C130	82 N150 50V	CC-CB820KPM					
C131	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C132	560 50V			CD19FD561J03	SX356		MWC-561
C133	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10

HY-GAIN MODEL 2679A

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
C136	220 50V	CC-CB101KPM	DD-221		GP322		10TS-T22
C137	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C138	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C139	2 50V		DTZ-2R2	NPO2P2	CN0522		10TCC-V22
C140	2 50V		DTZ-2R2	NPO2P2	CN0522		10TCC-V22
C141	68 50V		DD-680	GP68	GP468		10TS-Q68
C142	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C143	100 N150 50V				*		10TCP-T10
C144	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C145	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C146	470 50V		DD-471	GP470	GP347		10TS-T47
C147	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C148	120 50V		DTZ-120		CN0312		10TCC-T12
C149	220 50V		DD-221		GP322		10TS-T22
C150	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C151	100 500V	CC-CB560KPM	CD15FD101J03		SX310	QW1-27	MWA-101
C152	270 500V		CD15FD271J03		SX327	QW1-37	MWB-271
C153	82 50V						
C154	27 50V				CN0427		10TCC-Q27
C155	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C156	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C157	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C159	.047 50V		UK50-503		MAG5015		
C160	.047 50V			DPMS2S47	EW1A147	QF1-171	1PB-S47
C161	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C162	C120 50V		DTZ-120		CN0312		10TCC-T12
C163	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C164	2 50V		DTZ-2R2	NPO2P2	CN0522		10TCC-V22
C165	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C166	10 50V		DTZ-10	NPO10	CN0410		10TCC-Q10
C168	2.2 500V		DTZ-2R2	NPO2P2	CN0522		10TCC-V22
C169	.047 50V	CC-CB560KPM		DPMS2S47	EW1A147	QF1-171	1PB-S47
C170	.047 50V			DPMS2S47	EW1A147	QF1-171	1PB-S47
C171	.047 50V			DPMS2S47	EW1A147	QF1-171	1PB-S47
C172	.047 50V			DPMS2S47	EW1A147	QF1-171	1PB-S47
C173	.047 50V			DPMS2S47	EW1A147	QF1-171	1PB-S47
C175	.0047 50V			WMF1D47	EW1A247	QF1-57	1PB-D47
C177	.033 50V			DPMS6S33	EW1F6133		6PS-S33
C178	56 N150 50V				*		10TCP-Q56
C180	560 50V		DD-561		GP356		10TS-T56
C181	100 50V		DD-101	GP100	GP310		10TS-T10
C182	68 N150 50V				*		10TCP-Q68
C184	.022 50V	CC-CB680KPM (1)		DPMS2S22	EW1A122	QF1-127	1PB-S22
C190	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C191	.022 50V			DPMS2S22	EW1A122	QF1-127	1PB-S22
C192	150 50V		DD-151		GP315		10TS-T15
C193	.01 50V			WMF1S1	EW1A110	QF1-91	1PB-S10
C194	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C195	390 50V		DD-391	GP390	GP339		10TS-T39
C198	68 50V		DD-680	GP68	GP468		10TS-Q68
C199	68 50V		DD-680	GP68	GP468		10TS-Q68
C200	390 50V		DD-391	GP390	GP339		10TS-T39
C201	.068 50V			WMF1S68	EW1A168	QF1-195	1PB-S68
C202	.022 50V			DPMS2S22	EW1A122	QF1-127	1PB-S22
C205	.068 50V			WMF1S68	EW1A168	QF1-195	1PB-S68
C213	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C214	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C215	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C216	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C217	.047 50V	(1)	UK50-503		MAG5015		
C218	.047 50V		UK50-503		MAG5015		
C219	.047 50V		UK50-503		MAG5015		
C220	.047 50V		UK50-503		MAG5015		
C223	39 50V				CN0439		10TCC-Q39
C224	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C225	3 50V		DTZ-3R3	NPO3P3	CN0533		10TCC-V33
C226	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C243	82 50V		DD-820		GP482		10TS-Q82
C244	.047 50V		UK50-503		MAG5015		
C301	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C302	.22 50V		UK25-204		MAG25022		HY-770
C303	.01 50V			WMF1S1	EW1A110	QF1-91	1PB-S10
C304	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C305	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C306	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C307	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C309	.0022 50V		DD-222		GP222	QC2-97	5GA-D22
C310	.1 50V		DC-104	MGP1	TA010	QC2-233	TG-P10
C312	.01 50V	(1)	DC-103	MGP01	TA110	QC2-141	TG-S10
C402	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C403	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C601	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C602	82 NPO 50V		DTZ-82	NPO82	CN0482		10TCC-Q82
C603	220 50V			CD15FD221J03	SX322	QW1-35	MWA-221
C604	330 50V			CD15FD331J03	SX333	QW1-39	MWA-331
C605	.001 50V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C606	.001 50V		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C607	.001 50V		DD-102G	GP1000	GP210	QC2-81	5GA-D10

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
C608	330 50V	(1)	DD-102G	CD15FD331J03 GP1000 GP1000 WMF1D47	SX333 GP210 GP210 EWF1A247 CNO439	QW1-39	MWA-331
C610	.001 50V					QC2-81	5GA-D10
C611	.001 50V					QC2-81	5GA-D10
C612	.0047 50V					QF1-57	1PB-D47
C614	3.9 50V						10TCC-Q39
CT101							

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

(1) Used in some versions.

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R416	Volume/Switch	20K	722340				
R417	Squelch	10K	722339				
RV101	Squelch Range	10K	RP-GNB10301				U260R103B
RV102	AMC	2000	RP-GNB20201				U260R252B
RV103	S Meter	20K					U260R253B
RV104	RF Meter	20K					U260R253B

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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.
R100	Resistor Network		RA-B103K06D (1)	R319	30 10W	10-SQ30	722348

(1) Consists of six 10K ohm resistors.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L101	RF Choke	LF-220KD01N			
L103	Xmit Mixer (27MHz)	TR-10CD004S			
L104	Xmit Mixer (27MHz)	TR-10CD005S			
L105	RF Choke	LF-2R2KD01N			
L106	Xmit Driver (27MHz)	TR-A5CZ001M			
L107	RF Choke	LF-680KD01N			
L108	RF Choke	LD-ADX3825M			
L109	Final	TR-A5CZ002M			
L110	Pi Filter	TR-A5CZ003M			
L111	RF Choke	LF-680KD01N			
L112	IF (10.7MHz)	TR-07MB008N			
L113	RF Choke	LD-ADB4024B			
L114	RF Choke	LD-ADB4024B			
L116	RF Choke	LA-1KE1011A			
L600	RF Choke (.18uH)	722B71			
L601	RF Choke (.6uH)	722B57			

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.	
L602	RF Choke (6.8uH)	722857			
L603	RF Choke (6.8uH)	722857			
L605	RF Choke (1.5uH)	722488			
L606	RF Choke (6.8uH)	722857			
T101	VCO (37MHz)	TR-10DA002T			
T102	Xmit Mixer (27MHz)	TR-10CB001S			
T103	Xmit Driver (27MHz)	TR-10CP005S			
T104	Rec Antenna (27MHz)	TR-10MP003T			
T105	Rec RF (27MHz)	TR-10CA005S			
T106	IF (10.7MHz)	TR-07MB008N			
T107	IF (455kHz)	TR-07LA004H			
T108	IF (455kHz)	TR-07LA005N			
T109	IF (455kHz)	TR-07LA023N			
T111	VCO Buffer (37MHz)	TR-10MB003T			

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.	
CH101	2.15A	.116	.48mH	LF-119H001Y ELA-16 (1)	TR523		(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T110	2.88	1 8 2 13.52	TR-G25B001W ETA-66 (1)	TR723	MCB-16	(1) Number on unit.

TRANSFORMER

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T301	.15	1		730036 80TL001 (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
		MFGR. PART No.	QUAM PART No.	
SPK/MIC	2" PM 8 Ohms	730035 (1)		(1) Part number is for transducer only.

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA							
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	
F1	3 Amp	710029	710027	AGC3	HKP	312003	342001L	FG3-2	

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MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF101	Ceramic Filter	FB-R455A08M	455kHz
CR401	LED	760310	Rec (2.24V @ 2.1mA)
CR402	LED	760079	TX (1.57V @ 2mA)
J1	Jack	650065	Antenna
J2	Jack	650076	External Speaker
S1	Switch	700326	Rec/ mit
S2	Switch	700325	Up/Down
S3	Switch		Power (Part of Volume Control)
U402	LED	760107	Channel Readout
U403	LED	760107	Channel Readout
X101	Crystal	XA-S1B4001N	11.8066MHz
X102	Crystal	XA-S1B3002N	10.695MHz
X103	Crystal	XA-S1B3001N	10.240MHz

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

ITEM	PART No.	ITEM	PART No.
Cabinet Top	460092	Knob, Push-To-Talk	460153
Cabinet Bottom	460093	Microphone Hanger	350629
Knob, Control	460098	Mounting Bracket	380279

