



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 674B

MODEL 674B (Hy-Range V)

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

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Printed in U. S. of America

7CZ456

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;

L1, L10, L11, L13, L14, L20.....8728

L5, L6, L7.....9296, 9297, 9300

L2, L3, L4, L9, L12, L15 thru L19, L201 thru L204.9440

TC1, TC2, TC201 thru TC205.....5000

L301.....8606, 8606L, 8869

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of frequency counter to Q6 emitter.	Ch. 13 USB	TC1	Adjust for 11.275MHz +50Hz.
Input of frequency counter to Q205 emitter.	Ch. 1 USB	TC201	Adjust for 14.910MHz +50Hz.
	Ch. 2 USB	TC202	Adjust for 14.920MHz +50Hz.
	Ch. 3 USB	TC203	Adjust for 14.930MHz +50Hz.
	Ch. 4 USB	TC204	Adjust for 14.950MHz +50Hz.
Input of frequency counter to Q205 emitter.	Ch. 1 AM Fine Tune-Midrange	TC205	Adjust between 14.907MHz and 14.908MHz.
Input of frequency counter to L201 secondary.	Ch. 23 AM	L201	Turn L201 counterclockwise until oscillator stops. Turn L201 clockwise until oscillator starts, then turn L201 1/2 turn clockwise.
	Ch. 1		Check for 23.330MHz +0.2kHz.
	Ch. 5		Check for 23.380MHz +0.2kHz.
	Ch. 9		Check for 23.430MHz +0.2kHz.
	Ch. 13		Check for 23.480MHz +0.2kHz.
	Ch. 17		Check for 23.530MHz +0.2kHz.
	Ch. 21		Check for 23.580MHz +0.2kHz.
Input of RF VTVM to L204 secondary.	Ch. 13 AM	L202, L203, L204	Adjust for maximum.
Input of oscilloscope to L14 secondary.	Ch. 3 LSB	L12, L13, L14	Adjust for maximum.
Input of oscilloscope to L17 secondary.	Ch. 13 LSB	L15, L16, L17	Adjust for maximum.

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 Q17 base. 11.2735MHz, 1000Hz @30% modulation.	Ch. 13 AM Fine Tune-Midrange	L20, L10, L11	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @30% modulation.	Ch. 13	L19, L18	Adjust for maximum output. Repeat above steps, if necessary.

RECEIVER ADJUSTMENTS

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
No signal input. Input of VTVM to TP41.	Ch. 13 AM	RV10	AM AGC Adjust for 1.9 volts.
Output of signal generator thru .01uF to antenna jack. 27.115MHz,1000Hz @30% modulation. Output 500uV.	Ch. 13 AM	RV6	SQUELCH RANGE Set Squelch Control RV302 fully clockwise. Adjust RV6 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.115MHz,1000Hz @30% modulation. Output 100uV.	Ch. 13 AM	RV9	S METER Adjust RV9 for 9 on S scale of meter.

TRANSMITTER ALIGNMENT

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

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

See page 4 for channel frequencies.

SSB

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Inject a 2400Hz, 10mV signal at MIC input.	Ch. 13 USB Bias (RV1,RV2), SSB MOD (RV8)-MAX	L1,L2,L3,L4, L5,L6,L7	Adjust for maximum.
Inject a 2400Hz, 10mV signal at MIC input.	Ch. 13	L6,RV5	Adjust for 11 watts.
Inject a 2400Hz, 10mV signal at MIC input. Input of oscilloscope to antenna jack.	Ch. 13	L9	Adjust L9 for maximum.
No modulation. Input of oscilloscope to antenna jack.	Ch. 13	TC2,RV4	Adjust for MINIMUM.
Inject a 2400Hz,10mV signal at MIC input.	Ch. 13	L9	Adjust L9 for maximum.

TRANSMITTER ALIGNMENT

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

AM

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Input of Spectrum analyzer to antenna jack.	Ch. 13 AM	L301	Adjust for MINIMUM at 54MHz.

TRANSMITTER ADJUSTMENTS

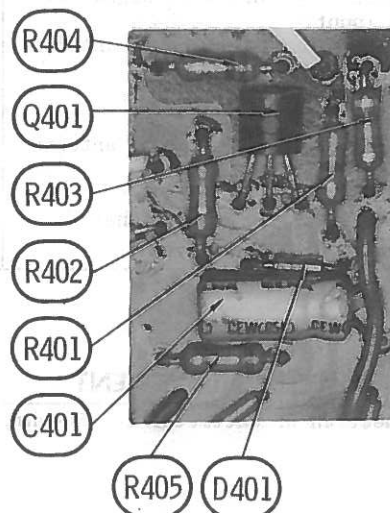
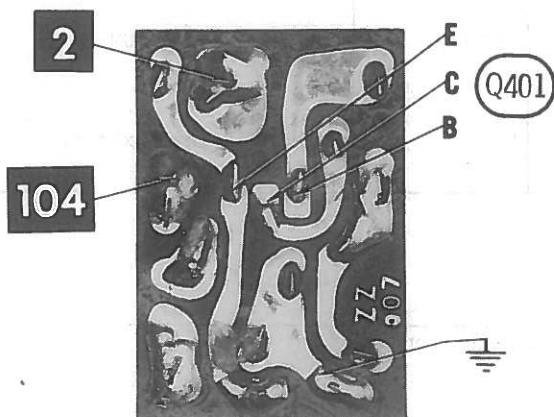
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.

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

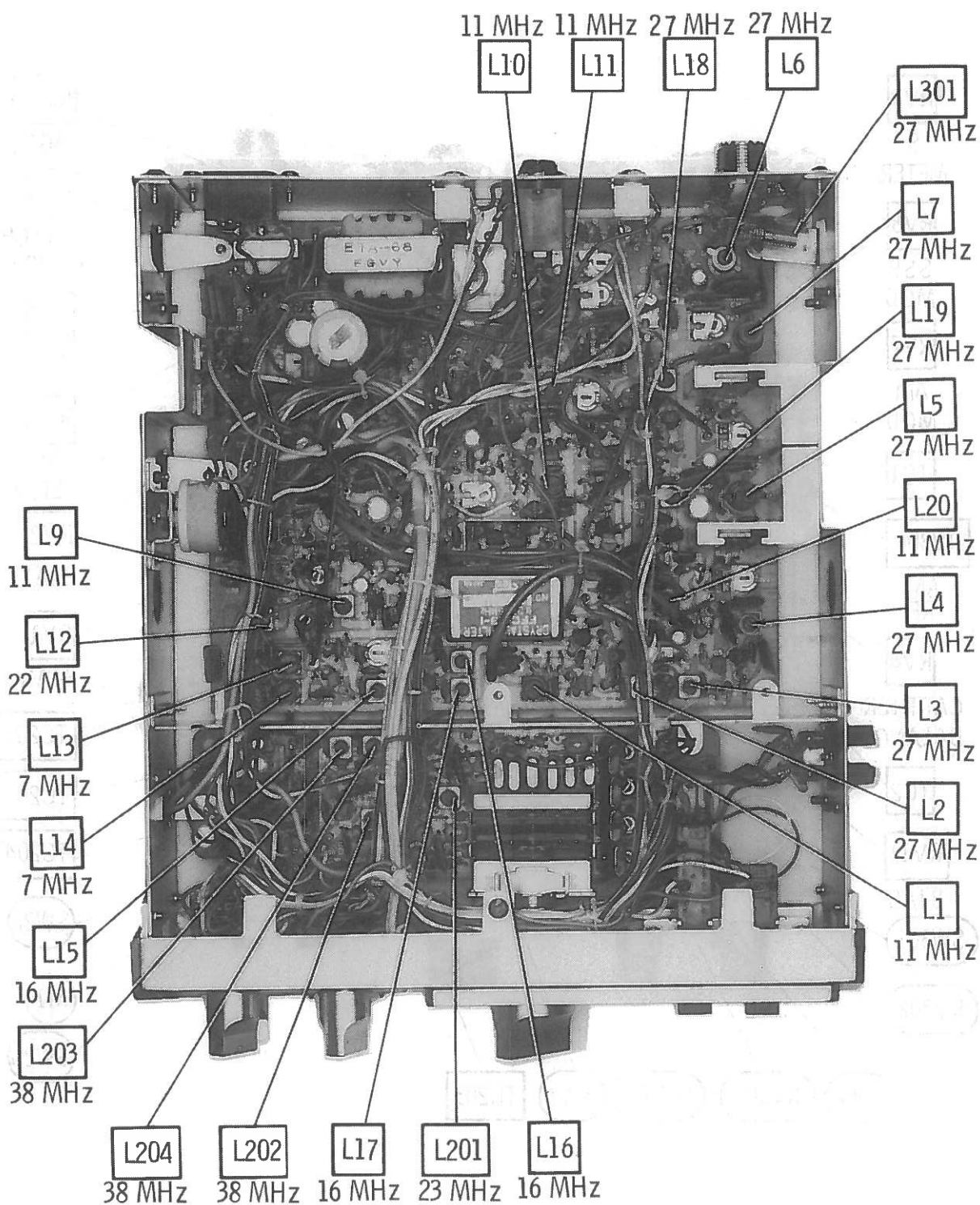
See page 4 for channel frequencies.

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of 2 tone generator to MIC input. 500Hz and 2400Hz. Output 5mV. Input of oscilloscope to antenna jack.	Ch. 13 USB	RV1,RV2	BIAS Adjust for 100% modulation.
Output of 2 tone generator to MIC input. 500Hz and 2400Hz. Output 5mV. Input of oscilloscope to antenna jack.	Ch. 13 USB	RV8	SSB MOD Adjust RV8 for 100% modulation.
Inject a 2400Hz, 10mV signal at MIC input.	Ch. 13 LSB	RV11	LSB GAIN Adjust RV11 so LSB output is equal to USB output.
No modulation	Ch. 13 AM	RV304	AM RF Adjust for 3.8 watts.
Inject a 2500Hz, 7mV signal at MIC input.	Ch. 13 AM	RV7	AMC Adjust for 90% modulation.
	Ch. 13 AM	RV3	RF PANEL METER Adjust RV3 so that RF Panel Meter agrees with RF wattmeter.

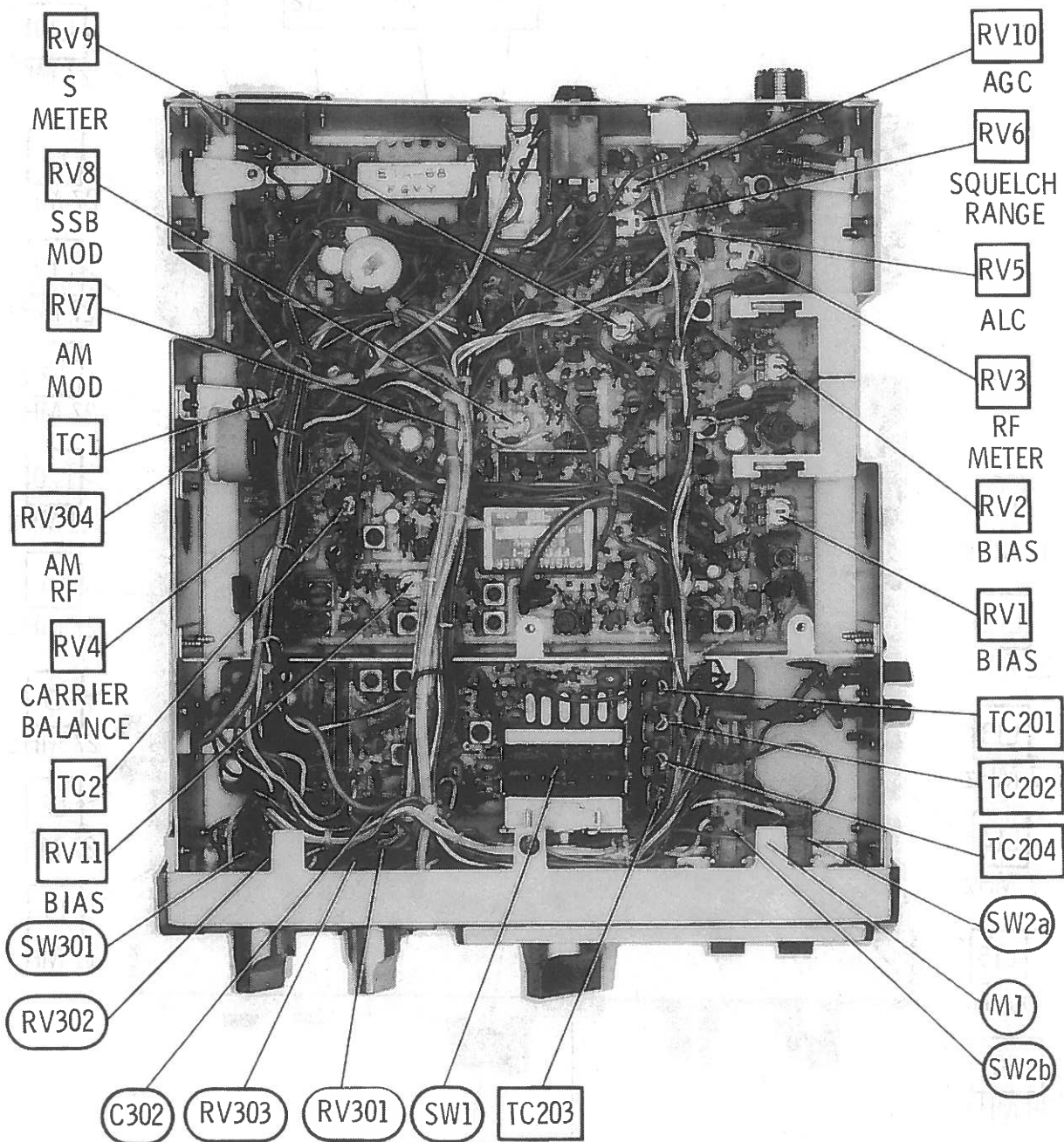
A Howard W. Sams CIRCUITRACE® Photo



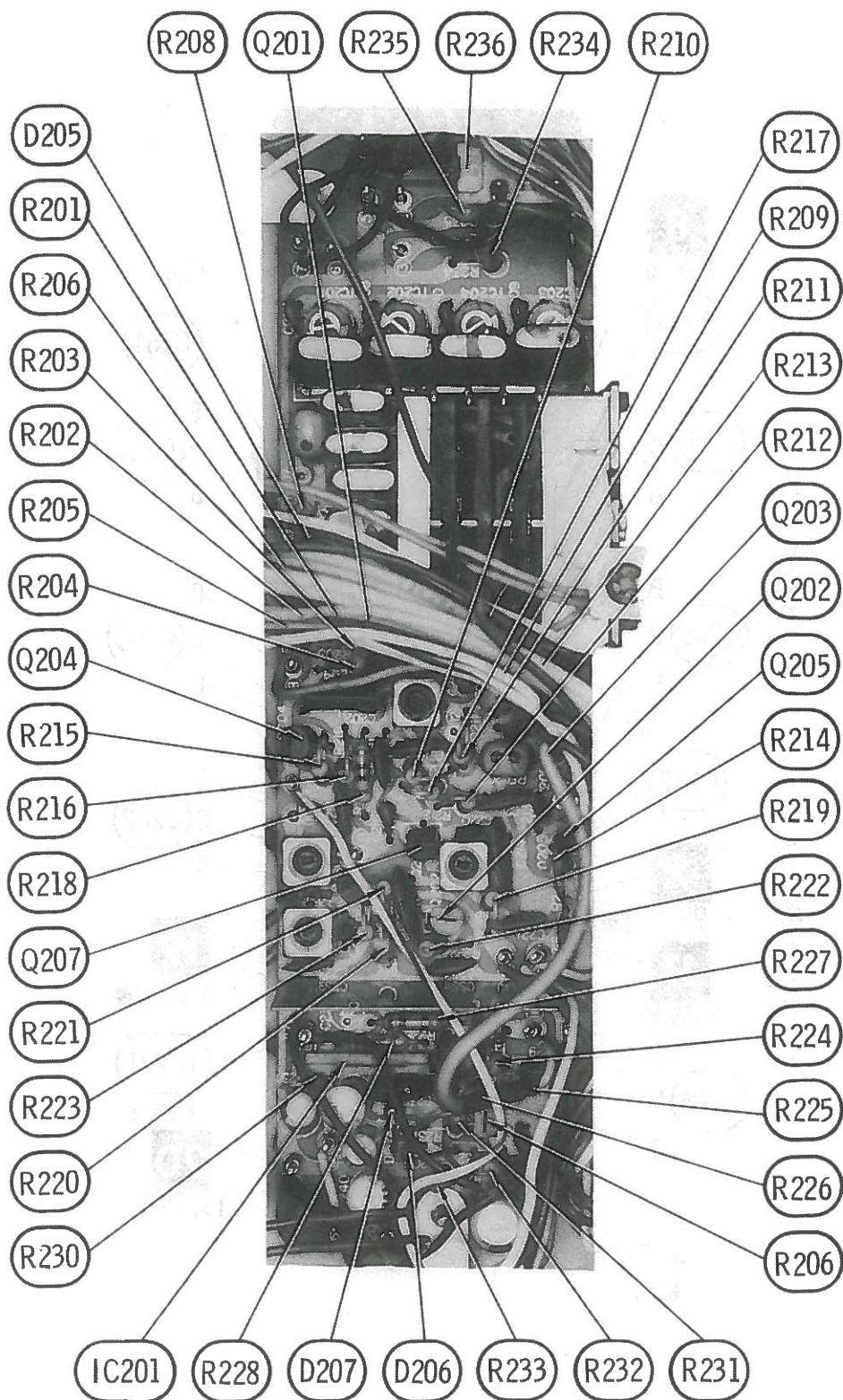
AGC BOARD



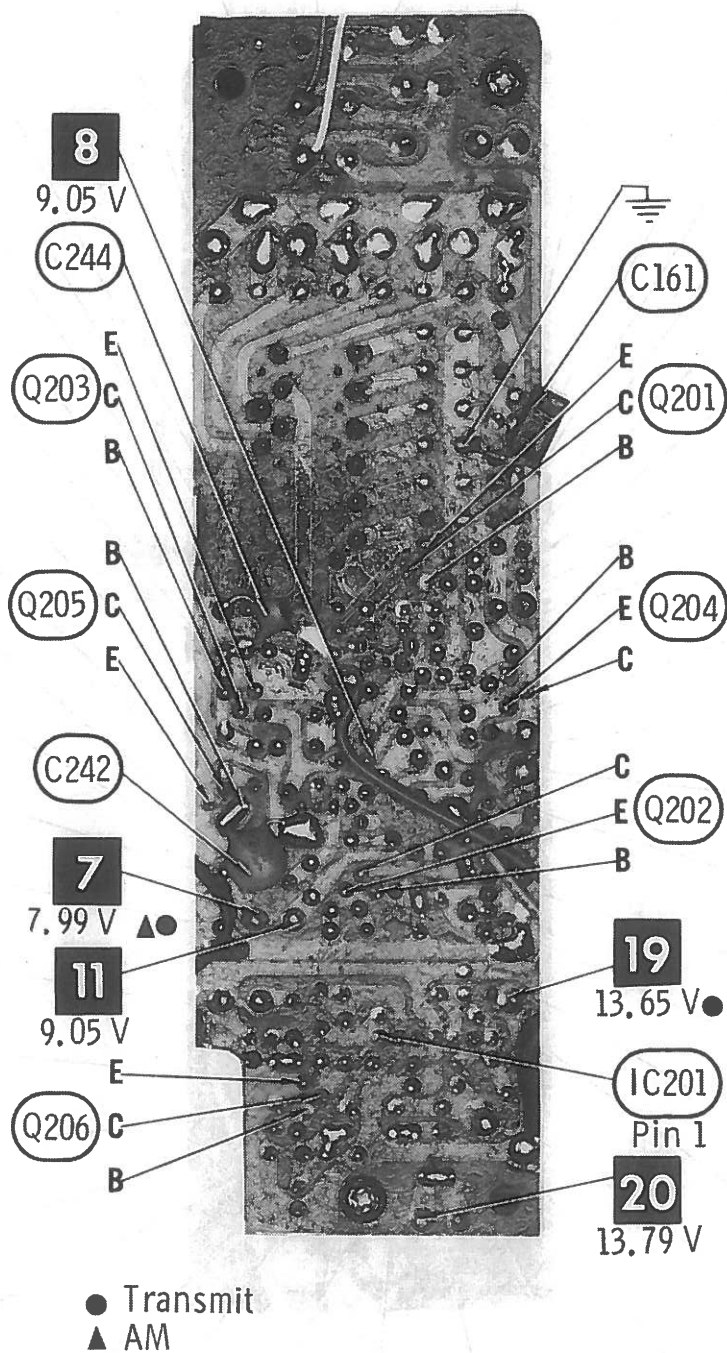
CHASSIS-BOTTOM



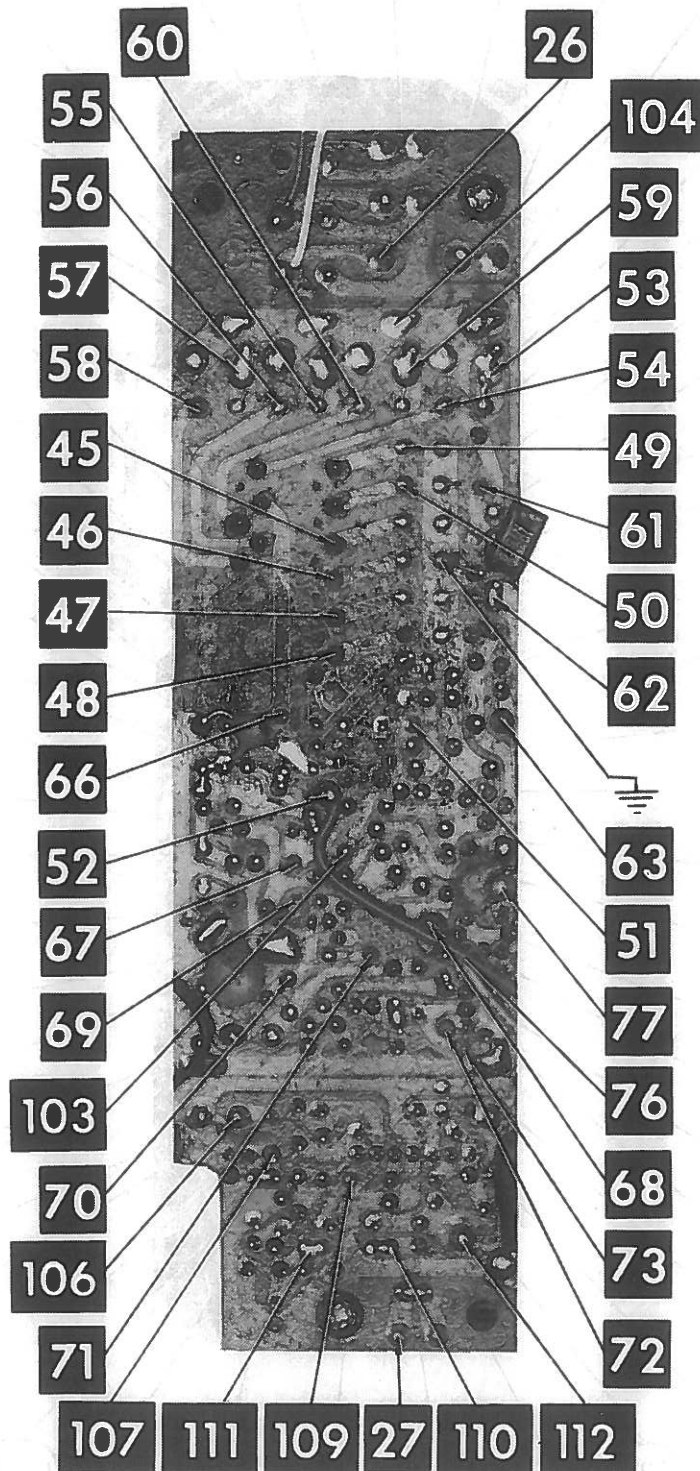
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SYNTH-MIC PREAMP BOARD

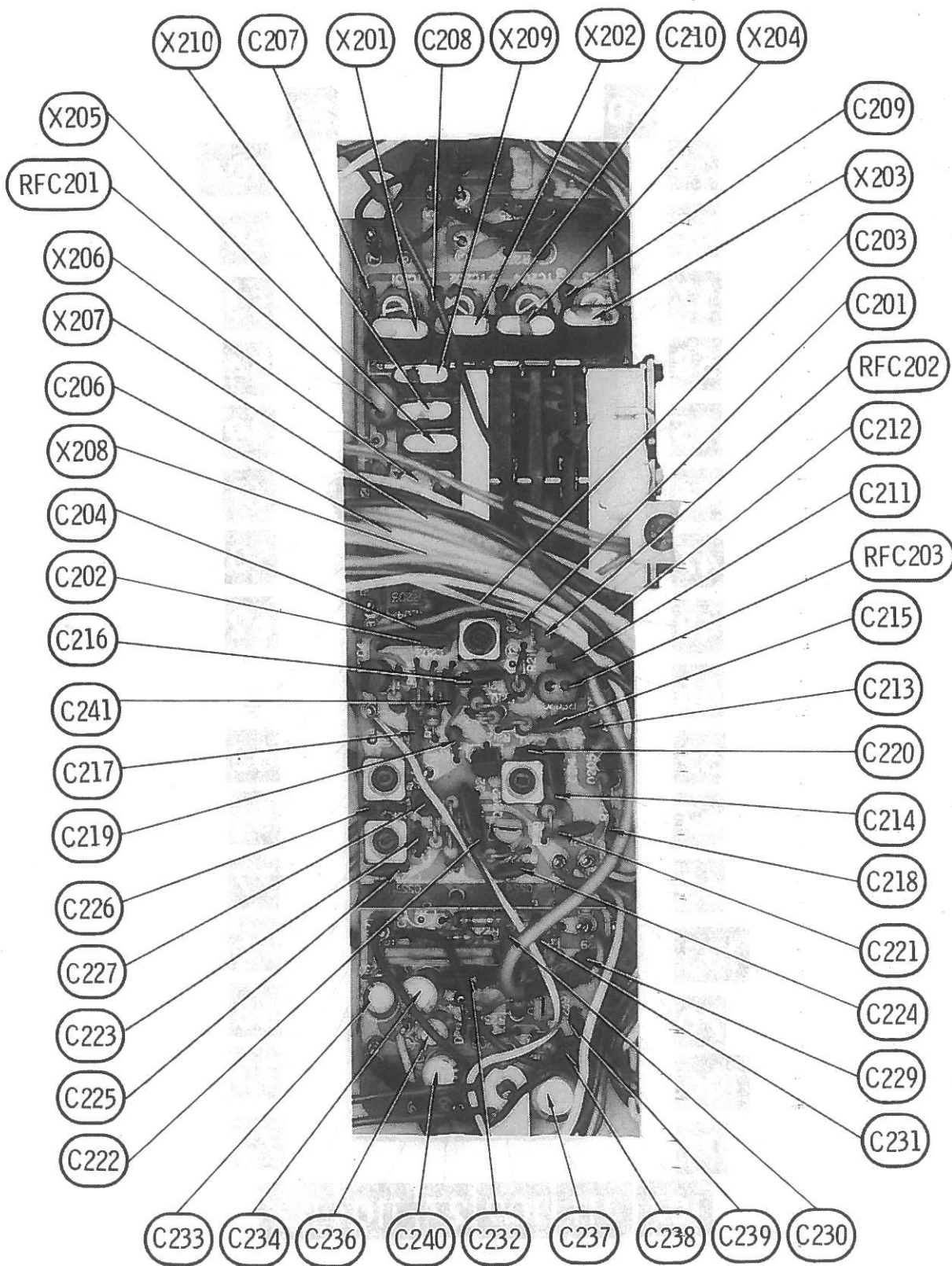


SYNTH-MIC PREAMP BOARD

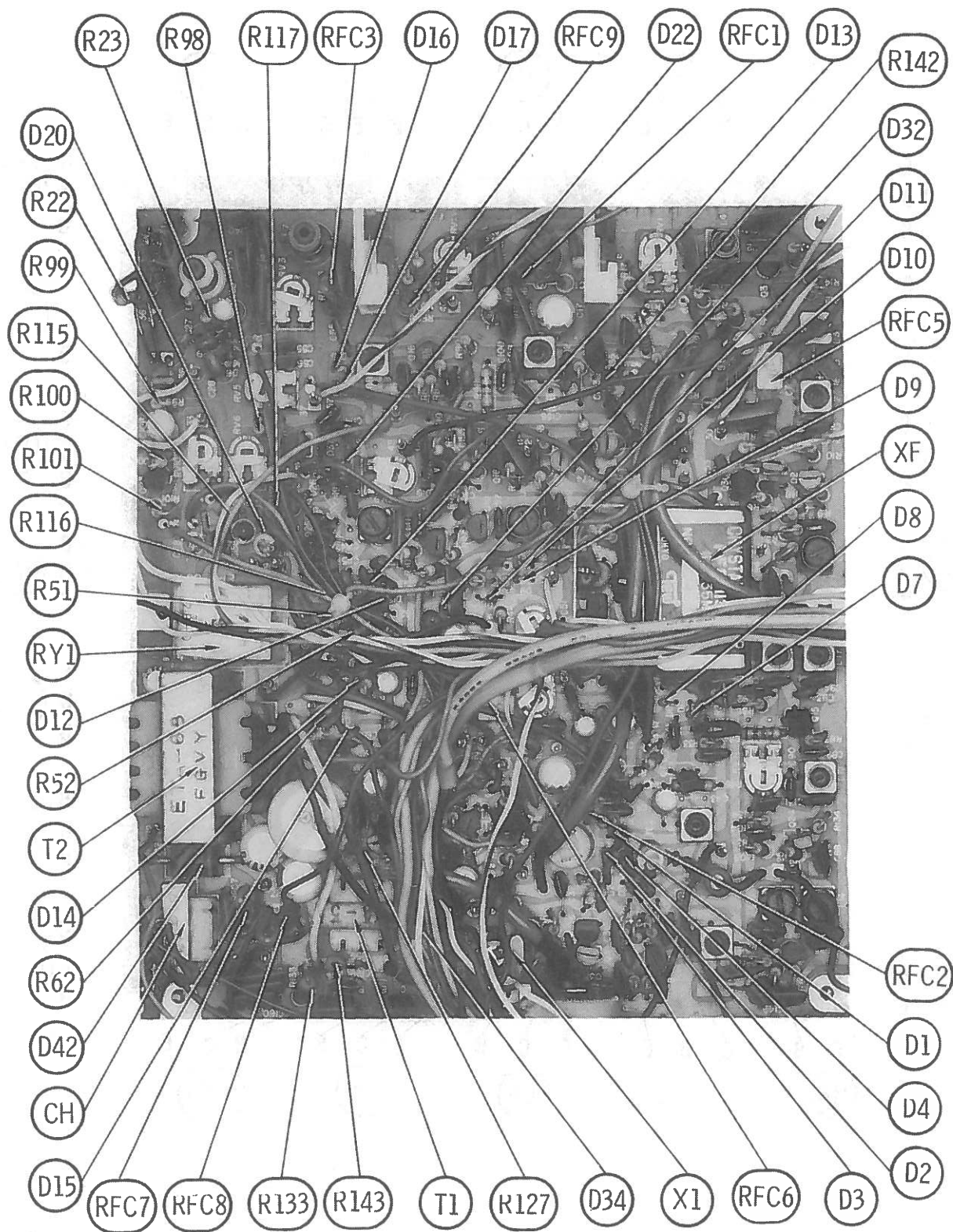


HY-GAIN MODEL 674B

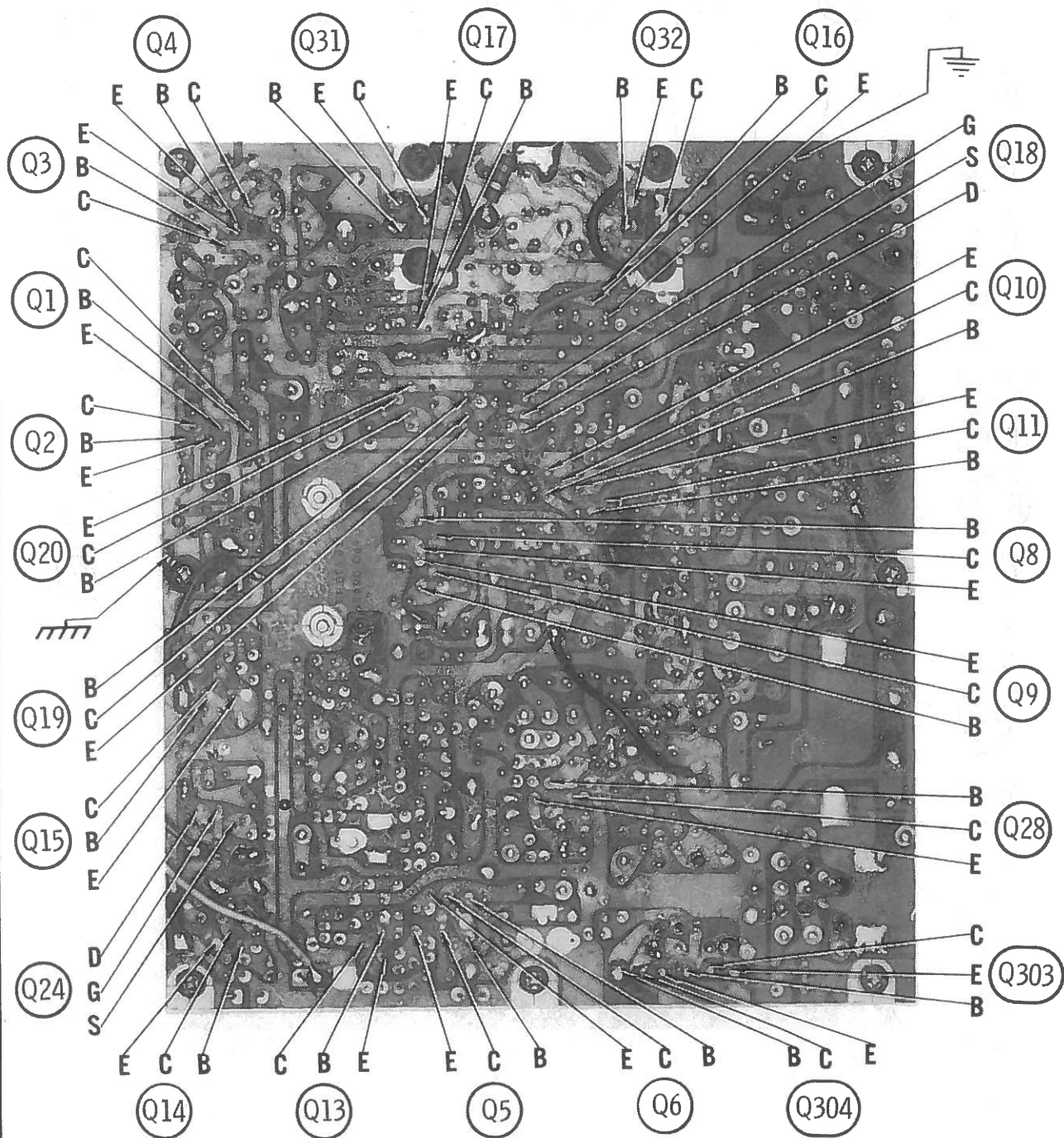
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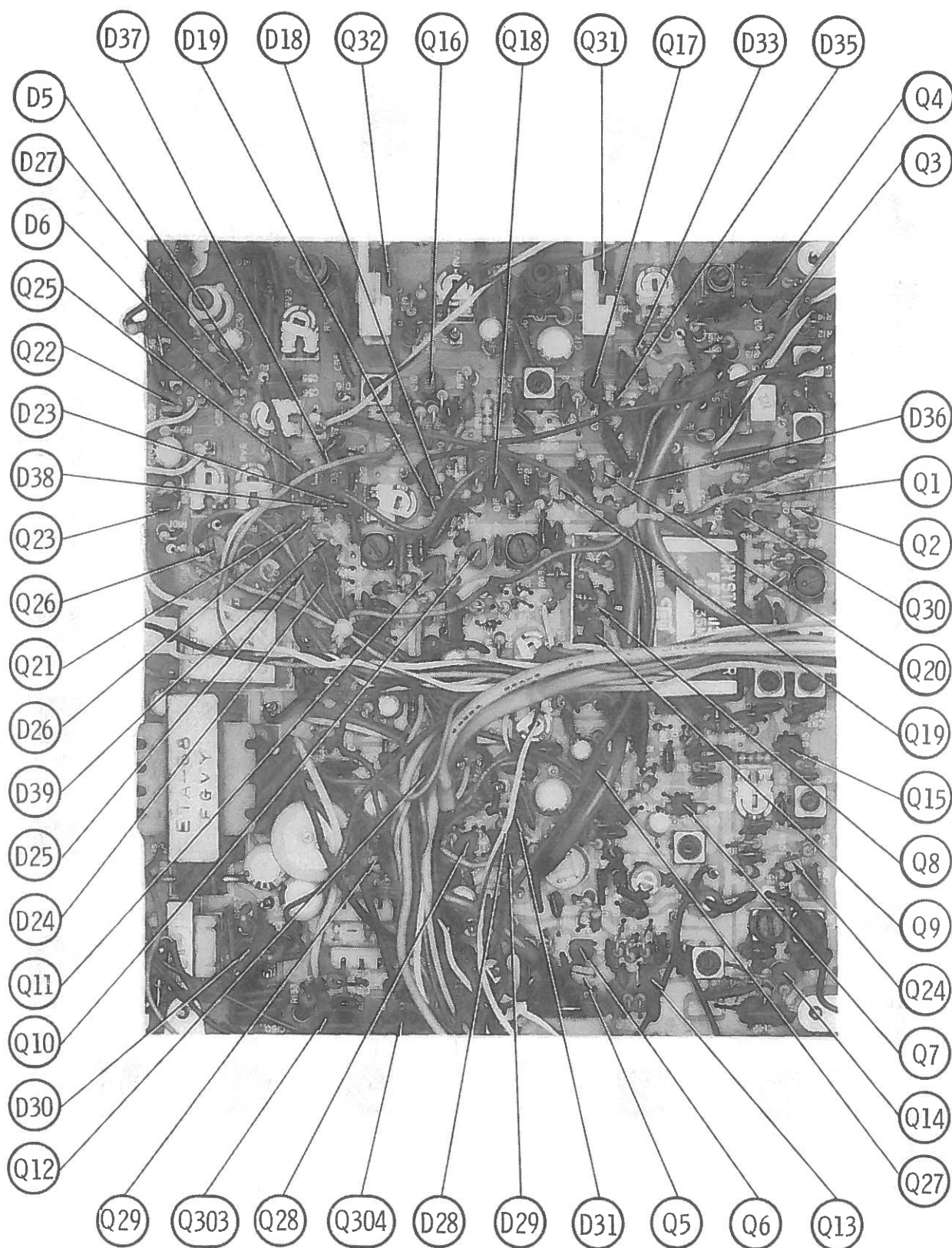
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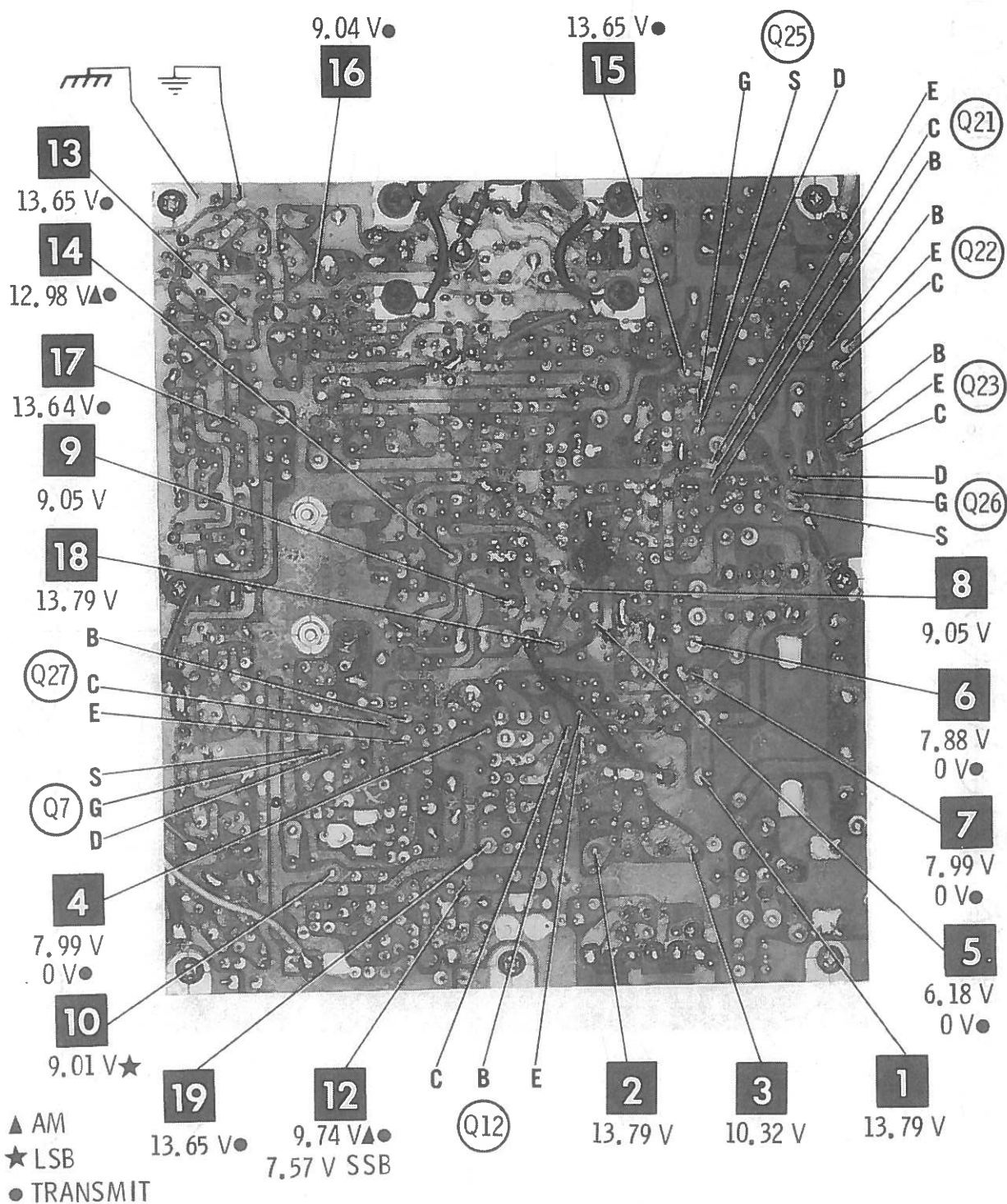
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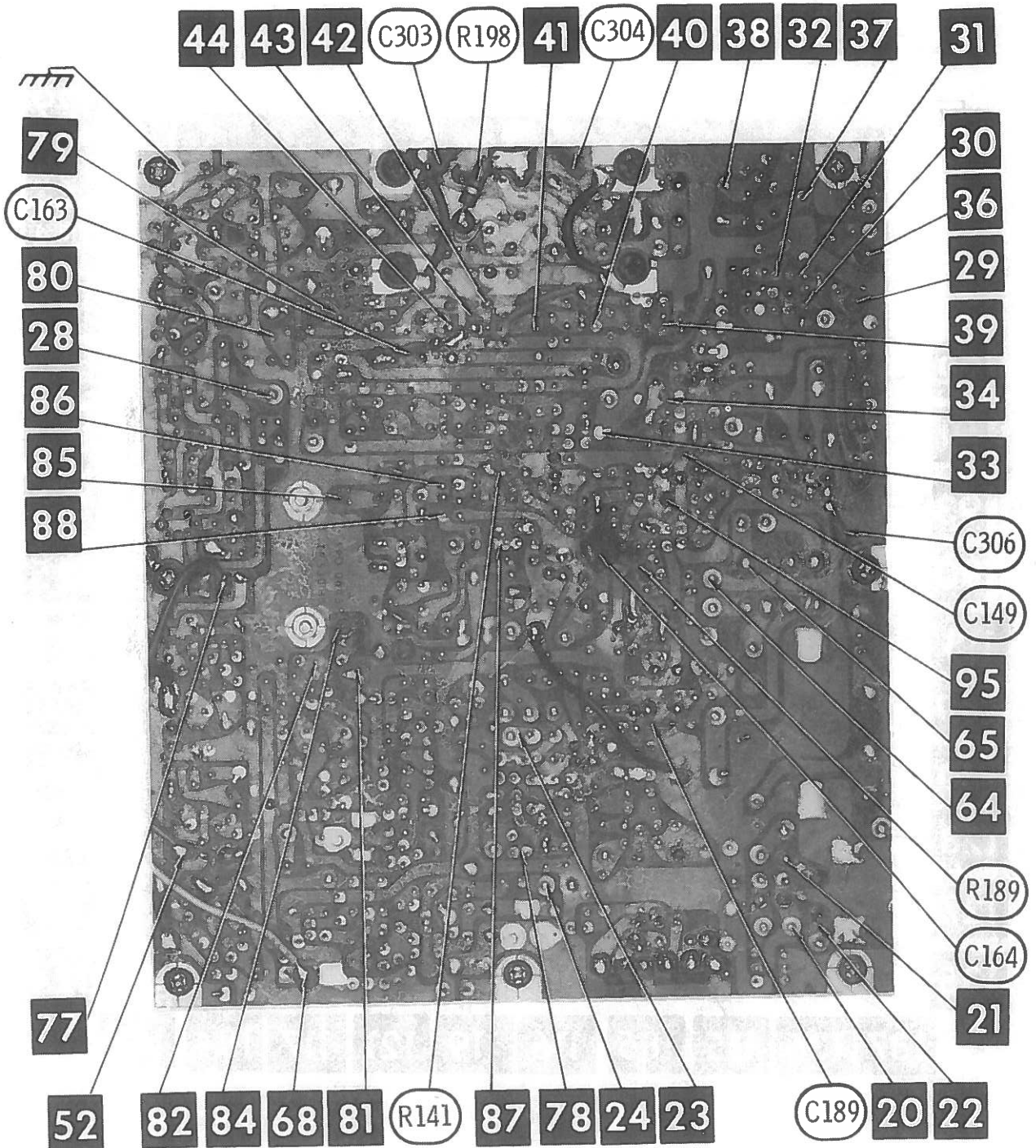
MAIN BOARD



MAIN BOARD

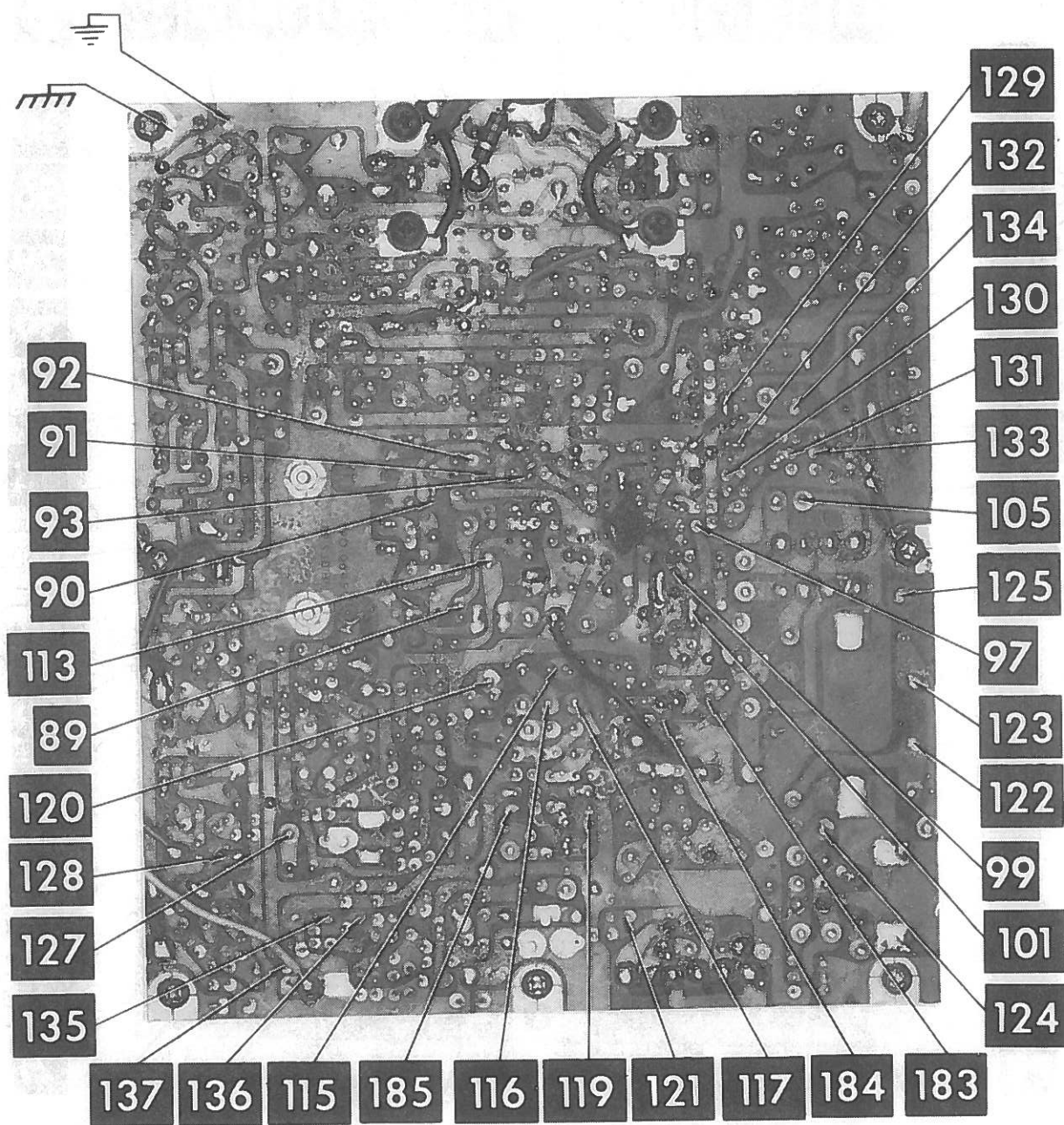


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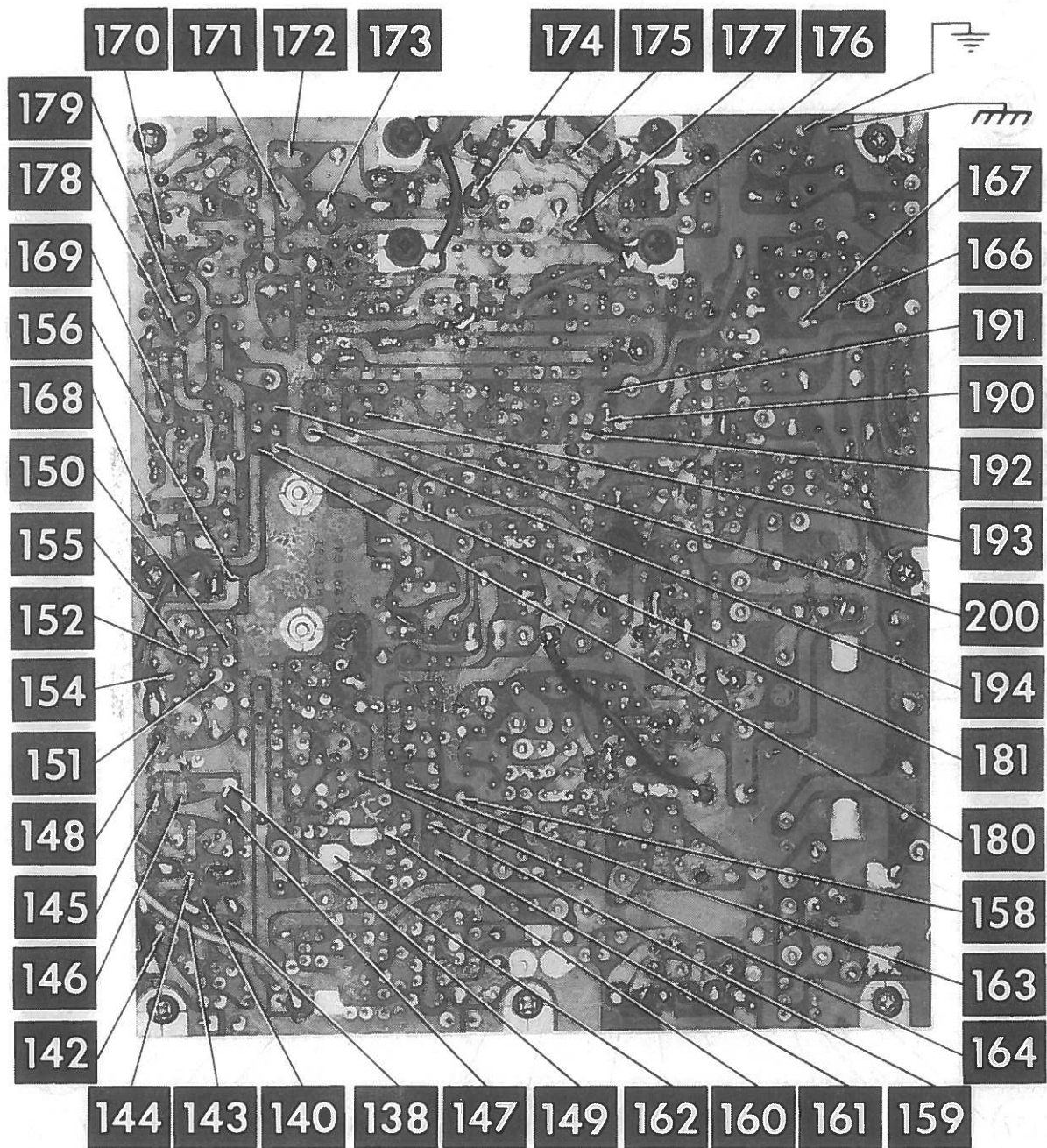


HY-GAIN MODEL 674B

MAIN BOARD

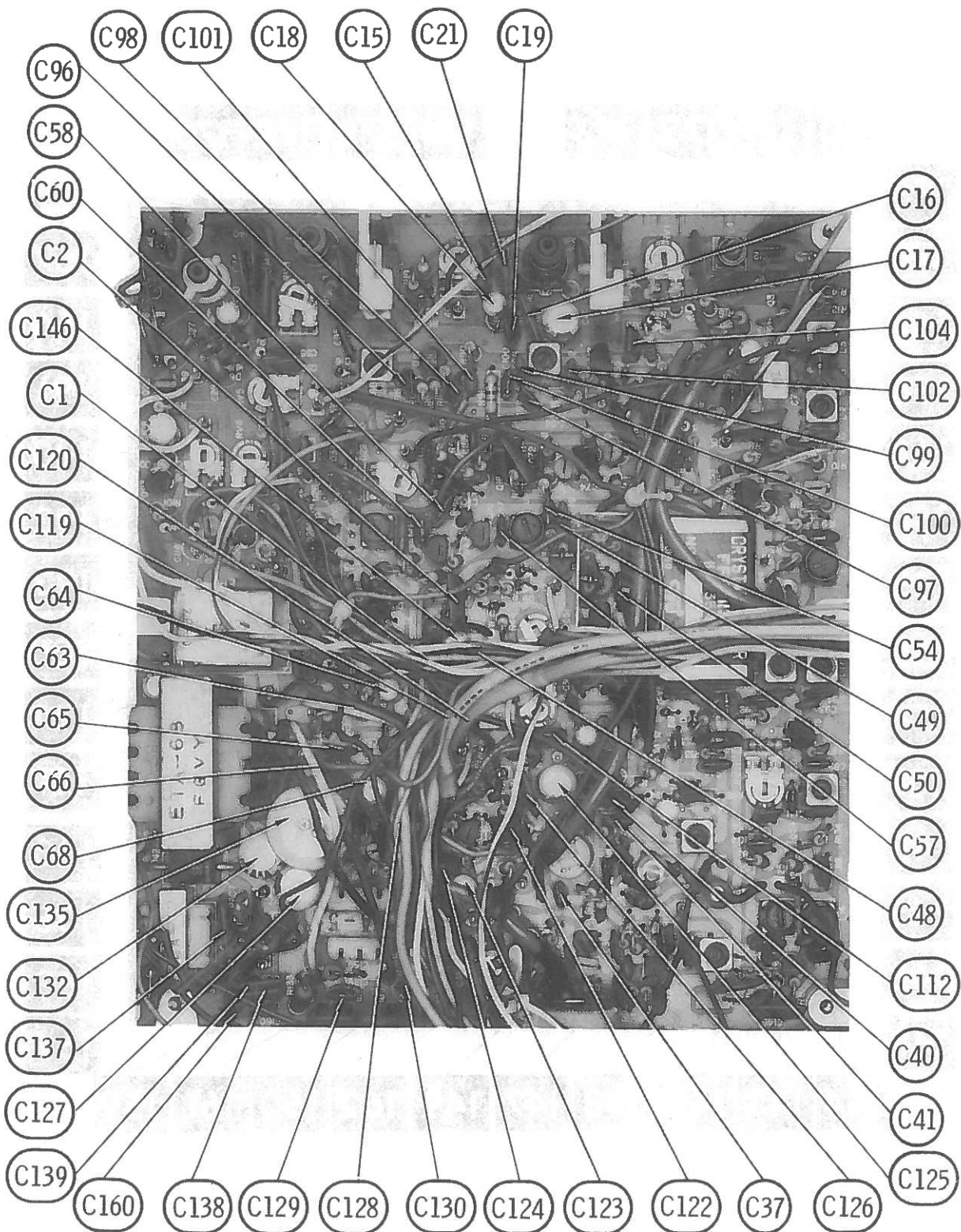


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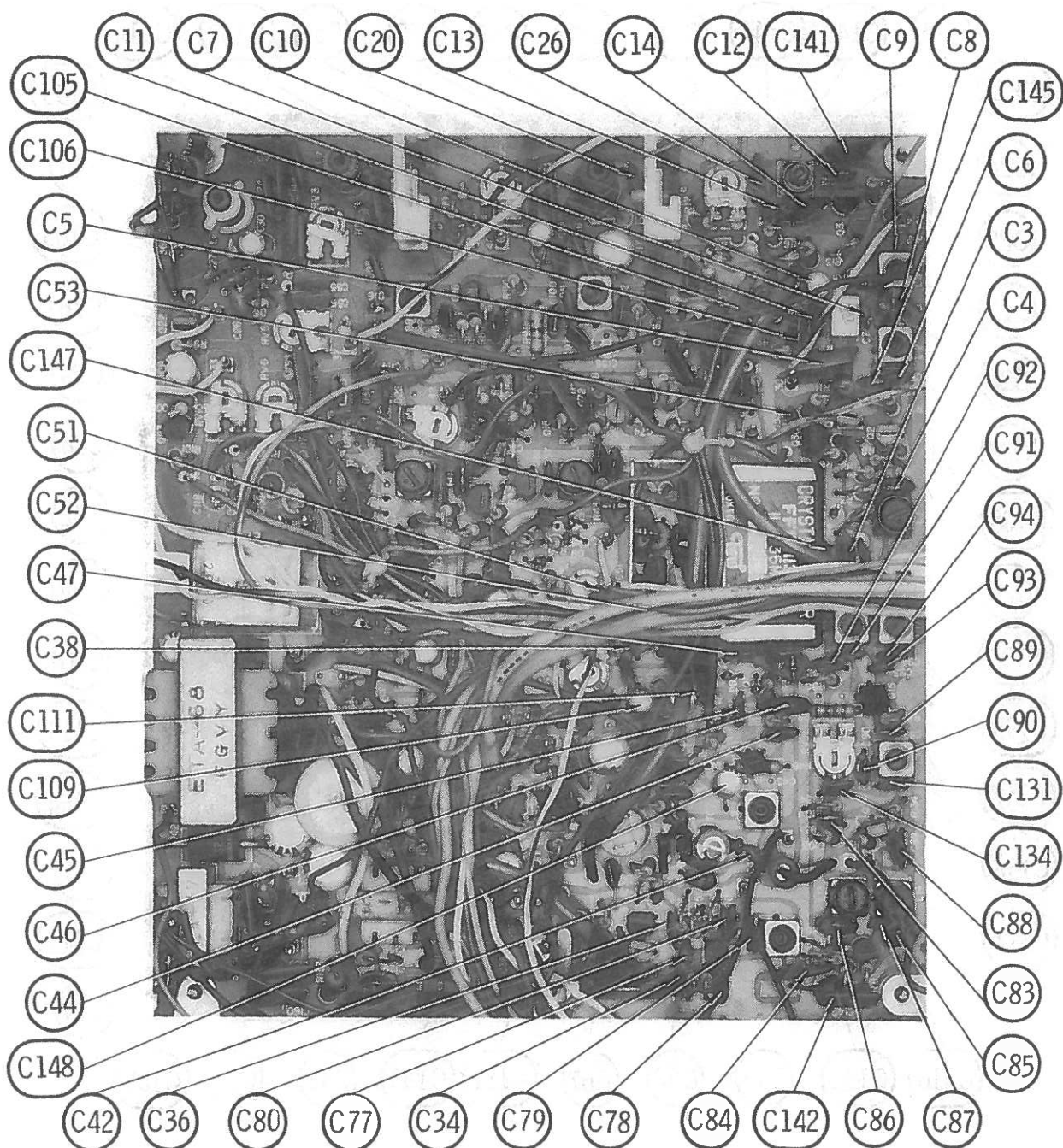


HY-GAIN MODEL 674B

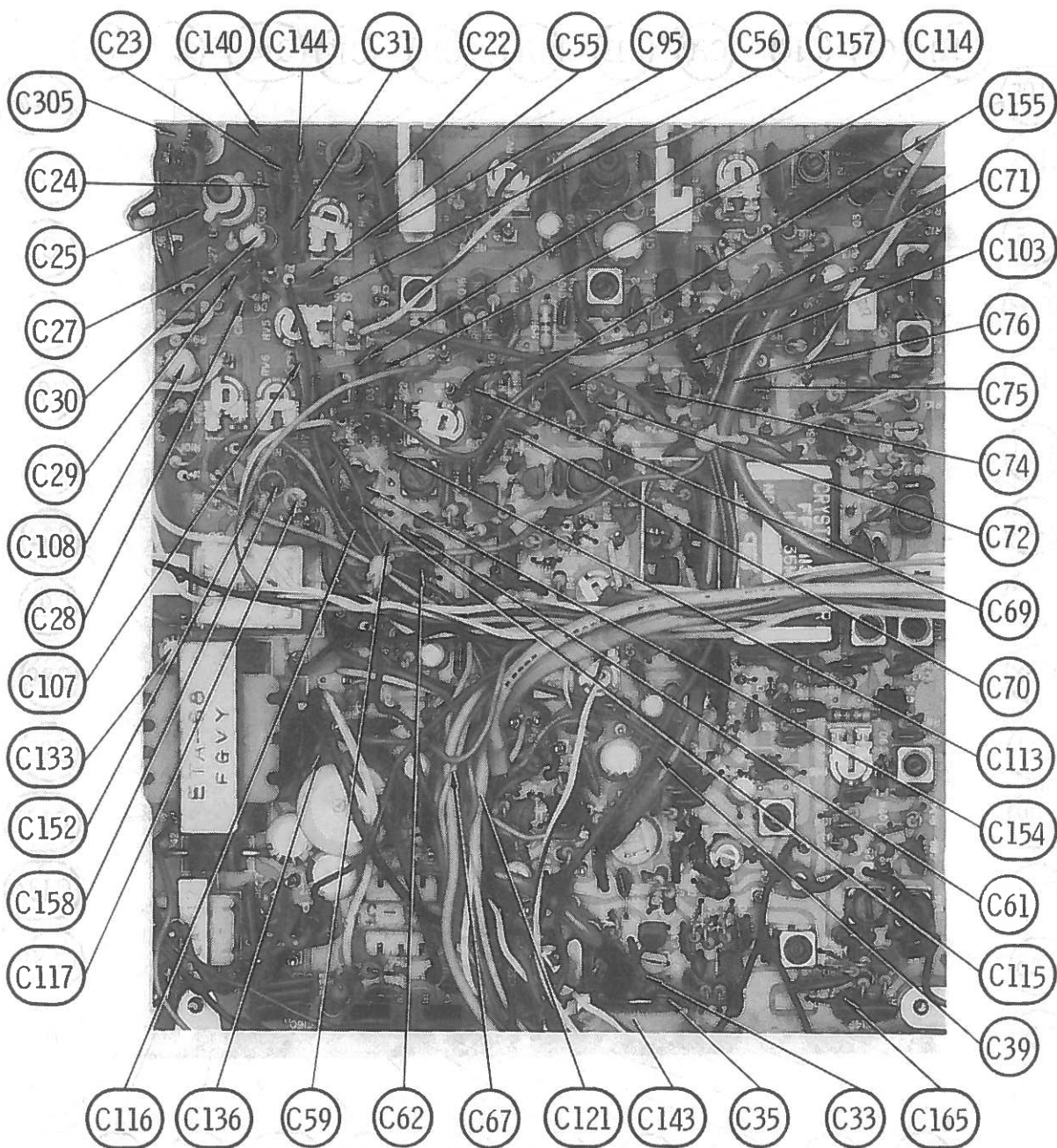
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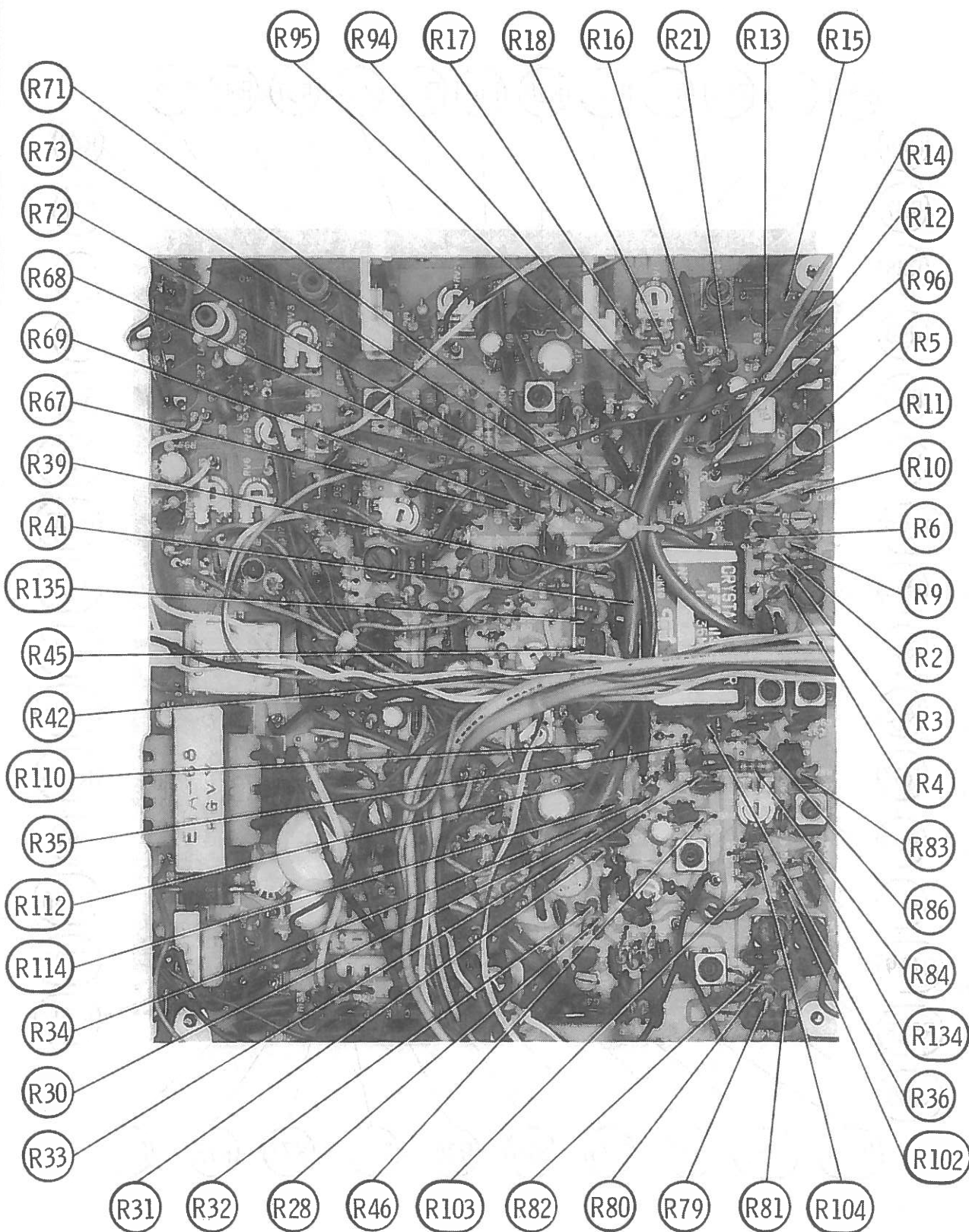
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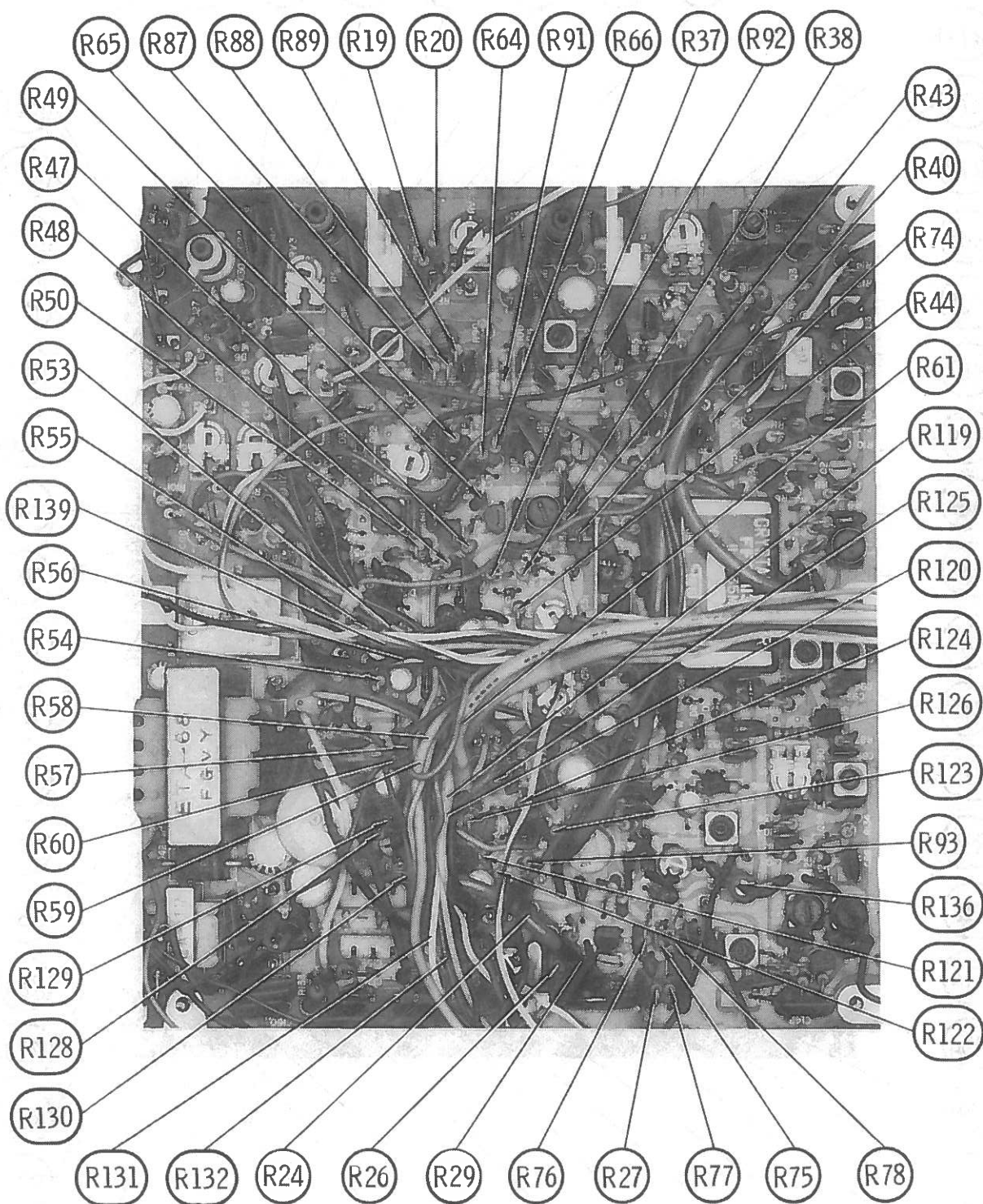
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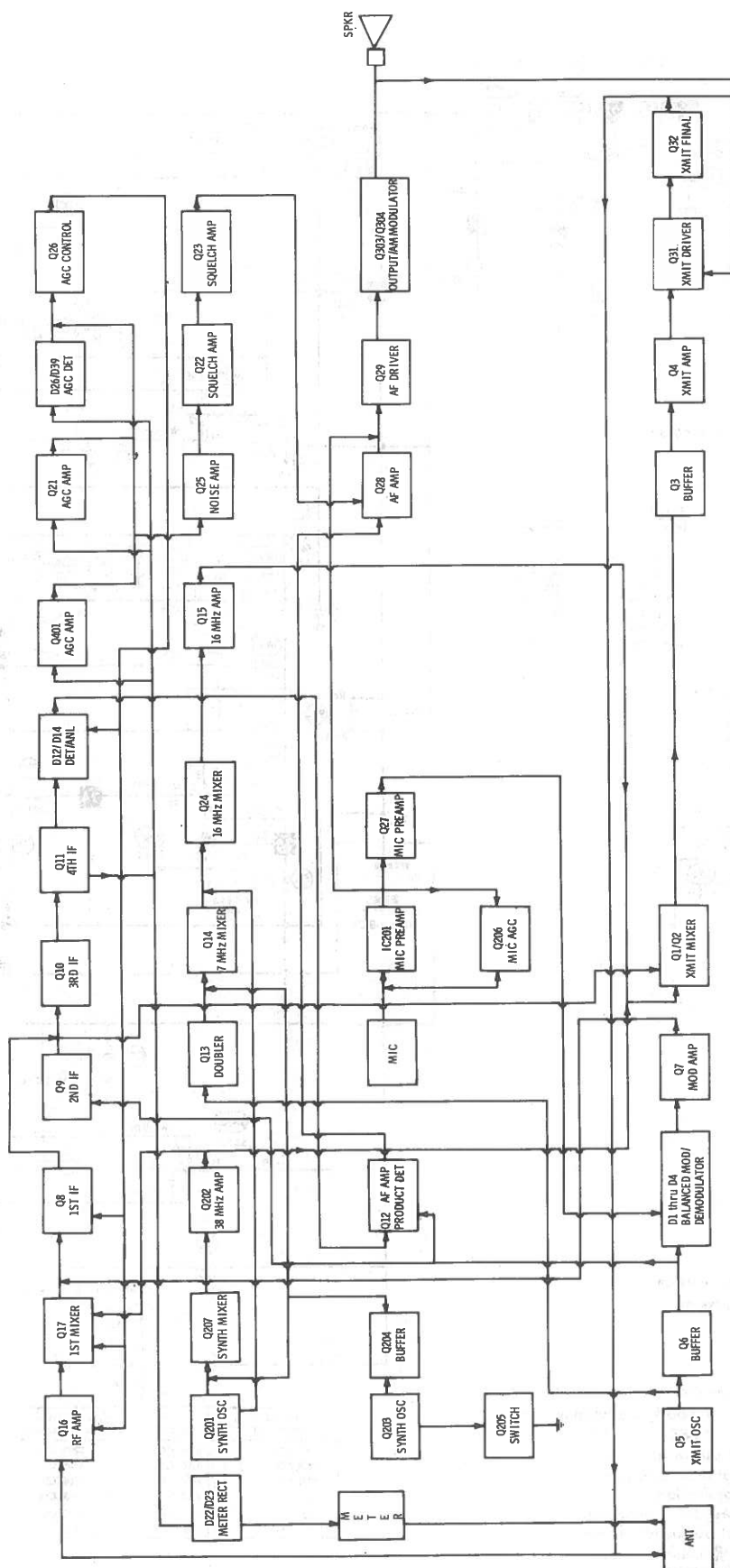
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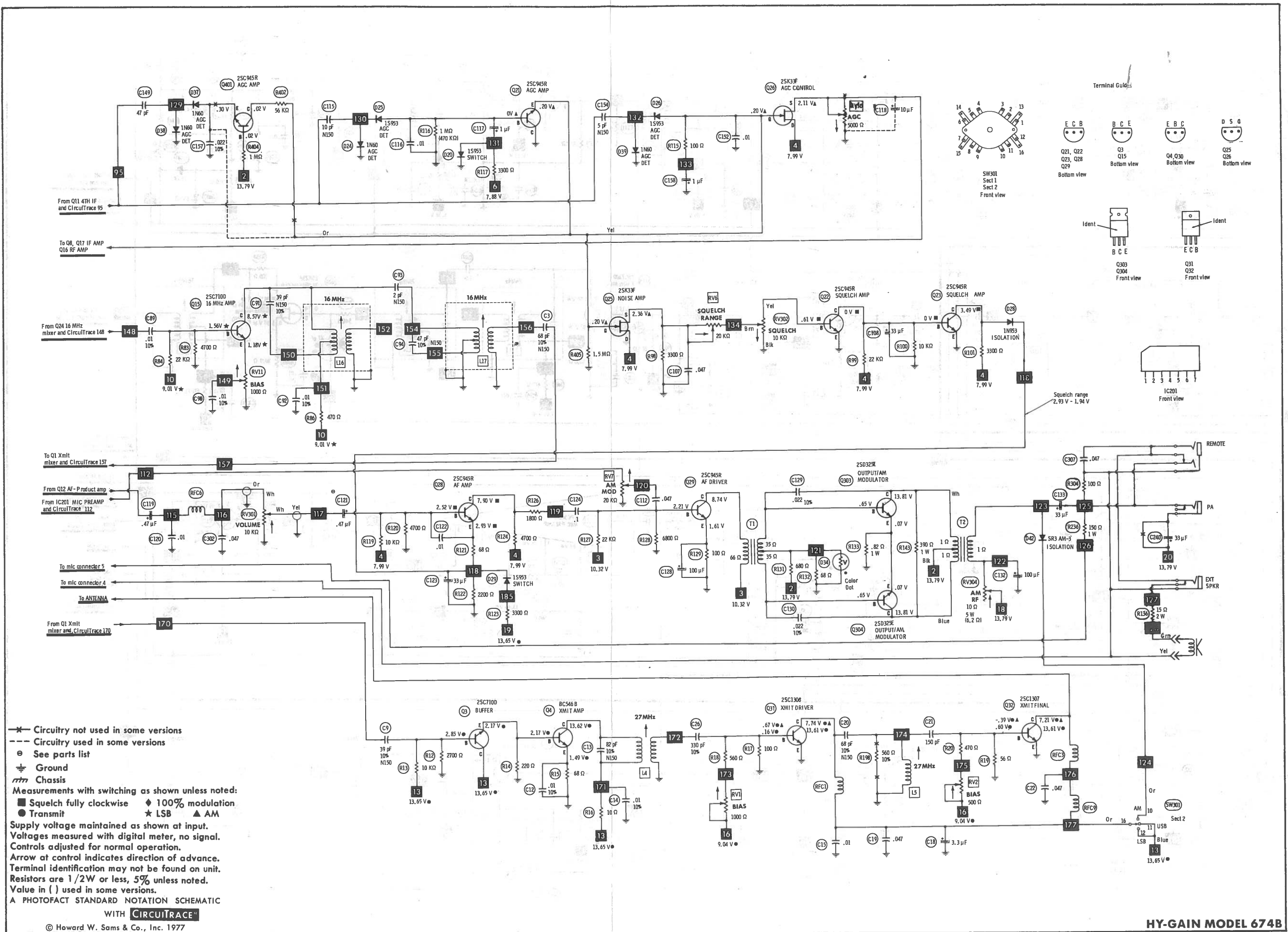


MAIN BOARD



MAIN BOARD





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	4-conductor (unshielded)	31AWG BELDEN No. 9468 (10')
	(9') BELDEN No. 17109	5-conductor (1 shielded)	23AWG BELDEN No. 8415 (6')
			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.
D1	1N60P	EDG-0006	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D2	1N60P	EDG-0006	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D3	1N60P	EDG-0006	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D4	1N60P	EDG-0006	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D5	1N60	EDG-0003	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D6	1N60	EDG-0003	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D7	1S953	EDS-0014	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D8	1S953	EDS-0014	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D9	1S953	EDS-0014	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D10	1S953	EDS-0014	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D11	1S953	EDS-0014	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D12	1N60	EDG-0003	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D13	1N60	EDG-0003	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D14	1S953	EDS-0014	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D15	1S953	EDS-0014	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D16	1S953	EDS-0014	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D17	1S953	EDS-0014	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D18	1N60	EDG-0003	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D19	1N60	EDG-0003	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D20	1S953	EDS-0014	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D22	1N60	EDG-0003	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D23	1N60	EDG-0003	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D24	1N60	EDG-0003	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D25	1N953	EDS-0014	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D26	1N953	EDS-0014	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D27	1N60	EDG-0003	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D28	1S953	EDS-0014	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D29	1S953	EDS-0014	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D30	SR1K-4	EDS-0024	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D31	RD8-2FB	EDZ-0041	GEZD-8.2	Z1208	ZB8.2A	HEPZ0411	RE 112	SK3136	RT-257	ECG5072
D32	RD9-1FB	EDZ-0042	GEZD-9.1	Z1209	ZB9.1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D33	RD9-1FB	EDZ-0042	GEZD-9.1	Z1209	ZB9.1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D34	VD-1124	EDS-0038			PTC301					
D35	1N953	EDS-0014	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D36	1N60	EDG-0003	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D37	1N60	EDG-0003	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D38	1N60	EDG-0003	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D39	1N60	EDG-0003	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D42	SR3AM-2	QDSSR3AMBE	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D205	1S2688	EDS-0042	GE-90	D201	PTC201	HEPR2503	RE 195	SK3126	RT-262	
D206	1F14A	EDS-0017	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D207	1F14A	EDS-0017	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D401	1S953	EDS-0014	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
IC201	uPC566H	ETCM-0037	GEIC-135				RE 327IC	SK3249	TVMC-82	ECG1052
Q1	2SC839H	EQS-0100	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q2	2SC839H	EQS-0100	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q3	2SC710D	EQS-0196	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q4	BC456	EQS-0198	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q5	2SC839H	EQS-0100	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q6	2SC710D	EQS-0196	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q7	2SK23A		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
	2SD23A-540	EQF-0009	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q8	2SC710D	EQS-0196	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q9	2SC710D	EQS-0196	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q10	2SC710D	EQS-0196	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q11	2SC710D	EQS-0196	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q12	2SC945R	EQS-0061	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q13	2SC710D	EQS-0196	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q14	2SC710D	EQS-0196	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q15	2SC710D	EQS-0196	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q16	2SC7848N		GE-60 *	(IR)2SC380A0	PTC132 *	HEPS0008 *	RE 28 *	SK3018 *	RT-187	ECG229 *
	2SC784R	EQS-0073	GE-60 *	(IR)2SC380A0	PTC132 *	HEPS0008 *	RE 28 *	SK3018 *	RT-187	ECG229 *
Q17	2SC710D	EQS-0196	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q18	2SK33H	QKT0033XBE	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312

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.
Q19	2SA733Q	EQR-0016	GE-65	TR-31	PTC103	HEPS5022	RE 26	SK3025	RT-303	ECG159
Q20	2SC839H	EQS-0010	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q21	2SC945R	EQS-0061	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q22	2SC945R	EQS-0061	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q23	2SC945R	EQS-0061	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q24	2SK23A		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
	2SK23A540	EQF-0009	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q25	2SK33H	QTK0033XBE	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q26	2SK33	EQF-0020	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q27	2SC945R	EQS-0060	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q28	2SC945R	EQS-0061	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q29	2SC945R	EQS-0061	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
Q30	2SC710D	EQS-0196	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q31	2SC1306	EQS-0160(14)	GE-215	WEP1306	PTC186		RE 203	SK3197	RT-146	ECG235
Q32	2SC1307	EQS-0159(13)	GE-216	WEP1307	PTC186		RE 201	SK3197	RT-158	ECG236
Q201	2SC839H	EQS-0100	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q202	2SC839H	EQS-0100	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q203	2SC839H	EQS-0100	GE-61 *	(IR)2SC644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q204	2SC710D	EQS-0196	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q205	2SC710D	EQS-0196	GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q206	2SC900F	EQS-0078	GE-62	(IR)2SC644	PTC139 *	HEPS0015 *	RE 192	SK3124	RT-302	ECG199
Q207	2SK23A		GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
	2SK23A540	EQF-0009	GE-FET-2	FE-100	PTC161	HEPF0021	RE 45	SK3116	RT-175	ECG312
Q303	2SD325	EQS-0140(12)	GE-28	WEP1096	PTC110	HEPS5027	RE 42	SK3197	RT-197	ECG197
Q304	2SD325	EQS-0140(12)	GE-28	WEP1096	PTC110	HEPS5027	RE 42	SK3197	RT-197	ECG197
Q401	2SC945P	EQS-0061(11)	GE-212	(IR)2SC945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199

* Lead configuration may vary from original.

(11) Used in stage 2.

(12) 10 Watts @ 1.5A

(13) 25 Watts @ 8A

(14) 12 Watts @ 3A

HY-GAIN MODEL 674B

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA			
			CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C10	10 16V	ECE-A16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C17	100 10V	ECE-A10V100L	PC100-10	VTT100E10	QV1-93	EV-1130
C18	3.3 16V	ECE-A16V3R3L	PC5-50	VTT3R3A50	QV1-23	EV-1318
C30	1 50V	ECE-A50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C39	1 25V	CS-15E1V010M		TDC105M050EL	QDT1-25	SD50-19
C64	4.7 25V	ECE-A25V4R7L	PC5-50	VTT4R7B50	QV1-27	EV-1319
C68	33 10V	ECE-A10V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C108	22 16V	ECE-A16V22L	PC25-25	VTT22B16	QV1-55	EV-1224
C109	1 50V	ECE-A50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C111	33 16V	ECE-A16V33L	PC30-25	VTT33D25	QV1-63	EV-1325
C117	1 50V	ECE-A50V1L	PC1-50	VTT1A50	QV1-11	EV-1615
C118	10 16V	ECE-A16V10L (1)	PC10-25	VTT10B25	QV1-41	EV-1222
C119	.47 50V	ECE-A50VR47L	PC1-50	VTT4R7A63	QV1-3	EV-1610
C121	.47 50V			TDC474M050EL	QDT1-19	SD50-R479
C123	33 10V	ECE-A10V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C125	100 10V	ECE-A10V100L	PC100-10	VTT100E10	QV1-93	EV-1130
C127	100 16V	ECE-A16V100L	PC100-16	VTT100F16	QV1-95	EV-1230
C128	100 10V	ECE-A10V100L	PC100-10	VTT100E10	QV1-93	EV-1130
C132	100 16V	ECE-A16V100L	PC100-16	VTT100F16	QV1-95	EV-1230
C133	33 16V	ECE-A16V33L	PC30-25	VTT33D25	QV1-63	EV-1325
C135	2200 16V	ECE-A16V2200L	WBR2000-16	TC1530A	QE1-643	TVA-1175.3
C146	47 10V		PC50-50	VTT47D16	QV1-73	EV-1226
C148	3.3 25V	ECE-A25V3R3L	PC5-50	VTT3R3A50	QV1-23	EV-1318
C156	10 16V	ECE-A16V10L (1)	PC10-25	VTT10B25	QV1-41	EV-1222
C158	1 25V	CS-15E1V010M (2)		TDC105M050EL	QDT1-25	SD50-19
C233	10 16V	ECE-A16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C234	33 10V	ECE-A10V33L	PC30-25	VTT33B10	QV1-61	EV-1125
C236	10 16V	ECE-A16V10L	PC10-25	VTT10B25	QV1-41	EV-1222
C237	100 10V	ECE-A10V100L	PC100-10	VTT100E10	QV1-93	EV-1130
C240	33 16V	ECE-A16V33L	PC30-25	VTT33D25	QV1-63	EV-1325
C401	10 16V	ECE-A16V10L	PC10-25	VTT10B25	QV1-41	EV-1222

(1) Used in Stage 1.

(2) Used in Stage 2.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C1	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C2	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C3	68 N033				*		
C4	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C5	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C6	39 N150	DD380PH390K50			*		10TCP-Q39
C7	15 N150	DD340PH150K50			*		10TCP-Q15
C8	39 N150	DD380PH390K50			*		10TCP-Q39
C9	39 N150	DD300PH390K50			*		10TCP-Q39
C11	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C12	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C13	82 N033	DD312PH101K50			*		
C14	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C15	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C16	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C19	.047			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C20	68 N150	DD380PH680K50			*		10TCP-Q68
C21	150 N150	DD312PH151K50			*		10TCP-T15
C22	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C23	220 N150	DD314PH221K50			*		10TCP-T22
C24	100 N150	DD312PH101K50			*		10TCP-T10
C25	330		DD-331	GP330	GP333		10TS-T33
C26	330		DD-331	GP330	GP333	*	10TS-T33
C27	15 N150	DD340PH150K50			*		10TCP-Q15
C28	.5	DD340SL0R5C50					
C29	1				CN0510		10TCC-V10
C31	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
C33	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C34	47 N033	DD380PH470K50			*		
C35	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C36	150		DD-151	GP315	GP315		10TS-T15
C37	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C38	22 N150	DD350PH220K50			*		10TCP-Q22
C40	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C41	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C42	10 N150	DD340PH100F50			*		10TCP-Q10
C44	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C45	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C46	.047			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C47	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C48	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C49	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C50	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C51	22 N150	DD350PH220K50			*		10TCP-Q22
C52	.022		DTZ-3R3	DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C53	3 NP0			NP03P3	CN0533		10TCC-V33
C54	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C55	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C56	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C57	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C58	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C59	5 N150	DD340PH050C50			*		10TCP-V50
C60	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C61	20 N150	DD340PH200K50			*		10TCP-Q20
C62	.001			DPMS6D1	EWFA1A210	QF1-1	1PB-D10
C63	.047	(1)		DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C63	.0047	(2)		WMF1D47	EWFA1A247	QF1-57	1PB-D47
C65	.022	(1)		DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C65	.001	(2)		DPMS6D1	EWFA1A210	QF1-1	1PB-D10
C66	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C67	10 N150	DD340PH100K50 (1)			*		10TCP-Q10
C67	22 N150	(2)			*		10TCP-Q22
C69	.0047			WMF1D47	EWFA1A247	QF1-57	1PB-D47
C70	.001		DC-503	DPMS6D1	EWFA1A210	QF1-1	1PB-D10
C71	.047			MGP05	TA150	QC2-207	TG-S50
C72	.0047			WMF1D47	EWFA1A247	QF1-57	1PB-D47
C74	.0047			WMF1D47	EWFA1A247	QF1-57	1PB-D47
C75	.047			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C76	.001			DPMS6D1	EWFA1A210	QF1-1	1PB-D10
C77	2 N150	DD340PH020C50			*		10TCP-V22
C78	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C79	56 N150	DD380PH560K50			*		10TCP-Q56
C80	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C83	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C84	100 N150	DD312PH101K50			*		10TCP-T10
C85	.047			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C86	.047			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C87	4 N150	DD340PH040D50			*		10TCP-V39
C88	47 N033	DD380PH470K50			*		
C89	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C90	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C91	39 N150	DD360PH390K50			*		10TCP-Q39
C92	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10
C93	2 N150	DD340PH020C50			*		10TCP-V22
C94	47 N033	DD380PH470K50			*		
C95	33 N150	DD360PH330K50			*		10TCP-Q33

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA								
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.					
						Q-LINE	GENERAL LINE				
C96	.01	DD360PH330K50	DC-503	WMF1S1	EWFA1A110	QF1-91	1PB-S10				
C97	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10				
C98	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10				
C99	33 N150				*		10TCP-Q33				
C100	.01			DD340PH080C50	DD-101	WMF1S1	EWFA1A110	QF1-91	1PB-S10		
C101	8 N150						*		10TCP-V82		
C102	.022					DPMS2S22	EWFA1A122	QF1-127	1PB-S22		
C103	.022					DPMS2S22	EWFA1A122	QF1-127	1PB-S22		
C104	.022					DPMS2S22	EWFA1A122	QF1-127	1PB-S22		
C105	.022					DPMS2S22	EWFA1A122	QF1-127	1PB-S22		
C106	.022	DPMS2S22	EWFA1A122			QF1-127	1PB-S22				
C107	.047	MGP05	TA150			QC2-207	TG-S50				
C112	.047	DPMS2S47	EWFA1A147			QF1-171	1PB-S47				
C113	100	DTZ-10	DD-101			GP100	GP310		10TS-T10		
C114	.022			DPMS2S22	EWFA1A122	QF1-127	1PB-S22				
C115	10 NPO			NPO10	CNO410		10TCC-Q10				
C116	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10				
C120	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10				
C121	.022			(3)	DPMS2S22	EWFA1A122	QF1-127	1PB-S22			
C122	.01			(1)	DC-503	WMF1S1	EWFA1A110	QF1-91	1PB-S10		
C124	.015					WMF1S15	EWFA1A115	QF1-105	1PB-S15		
C124	.1					(2)	DPMS2P1	EWFA0A10	QF1-215	1PB-P10	
C126	.047					MGP05	TA150	QC2-207	TG-S50		
C129	.022	DPMS2S22	EWFA1A122			QF1-127	1PB-S22				
C130	.022	DPMS2S22	EWFA1A122			QF1-127	1PB-S22				
C131	39 N150	DD380PH390K50	DC-503			*		10TCP-Q39			
C134	.01					WMF1S1	EWFA1A110	QF1-91	1PB-S10		
C136	.047					MGP05	TA150	QC2-207	TG-S50		
C137	.047					MGP05	TA150	QC2-207	TG-S50		
C138	.047			MGP05	TA150	QC2-207	TG-S50				
C139	.047			MGP05	TA150	QC2-207	TG-S50				
C140	.047			MGP05	TA150	QC2-207	TG-S50				
C141	.047			MGP05	TA150	QC2-207	TG-S50				
C142	.047			MGP05	TA150	QC2-207	TG-S50				
C143	.047			MGP05	TA150	QC2-207	TG-S50				
C144	220 N150	DD312PH181K50	DC-503	*		10TCP-T15					
C145	.01			WMF1S1	EWFA1A110	QF1-91	1PB-S10				
C147	68 N150			DD380PH680K50	DC-503	*		10TCP-Q68			
C149	1					CNO510		10TCC-V10			
C149	47 N150					(1)		*	10TCP-Q47		
C152	.01					(2)	WMF1S1	EWFA1A110	QF1-91	1PB-S10	
C154	5 N150					DD360-SL101K50	DD-101	*		10TCP-V50	
C155	100							GP100	GP310		10TS-T10
C157	.022							DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C160	.047							MGP05	TA150	QC2-207	TG-S50
C161	.01	WMF1S1	EWFA1A110					QF1-91	1PB-S10		
C162	27 N150		*						10TCP-Q27		
C163	47 N150	DD340-PH050C50	DC-503	*				10TCP-Q47			
C164	.047			MGP05	TA150			QC2-207	TG-S50		
C165	10 NPO			DTZ-10	DTZ-10			CNO410		10TCC-Q10	
C189	27 N150							*		10TCP-Q27	
C201	2 N150					*		10TCP-V22			
C202	220 N150					*		10TCP-T22			
C203	82 N033					DD310PH820K50	DC-503				
C204	.047							MGP05	TA150	QC2-207	TG-S50
C206	.01							MGP01	TA110	QC2-141	TG-S10
C207	20 N150								*		10TCP-Q20
C208	20 N150		*						10TCP-Q20		
C209	20 N150		*						10TCP-Q20		
C210	20 N150		*		10TCP-Q20						
C211	220 N150		*		10TCP-T22						
C212	22 N150	DD350PH220K50	DTZ-15	*				10TCP-Q22			
C213	15 NPO			NPO15	CNO415				10TCC-Q15		
C214	120 N150				*		10TCP-T12				
C215	68 N150				*		10TCP-Q68				
C216	68 N150				*		10TCP-Q68				
C217	.01			DD340PH100F50	DC-103	MGP01	TA110	QC2-141	TG-S10		
C218	.01					MGP01	TA110	QC2-141	TG-S10		
C219	10 N150						*		10TCP-Q10		
C220	15 NPO					DTZ-15	DC-103	NPO15	CNO415		10TCC-Q15
C221	.01							MGP01	TA110	QC2-141	TG-S10
C222	100 N150		*						10TCP-T10		
C223	.01	DD313PH101K50	DC-103					MGP01	TA110	QC2-141	TG-S10
C224	.01							MGP01	TA110	QC2-141	TG-S10
C225	15 NPO							NP015	CNO415		10TCC-Q15
C226	15 NPO							NP015	CNO415		10TCC-Q15
C227	1 NPO				CNO510				10TCC-V10		
C229	.0022			DD-222	UK16-204			GP222	QC2-97	5GA-D22	
C230	.2										HY-470
C231	150					DD-151				10TS-T15	
C232	.047							DPMS2S47	GP315		1PB-S47
C238	.0033							GP3300	EWFA1A147	QF1-171	1PB-S47
C239	.0022	DD-222	DD-222					GP233	QC2-107	5GA-D33	
C241	.01							GP222	QC2-97	5GA-D22	
C242	.01							MGP01	TA110	QC2-141	TG-S10
C244	3 NPO							MGP01	TA110	QC2-141	TG-S10
C301	.0047							DTZ-3R3	DD-472	NPO3P3	CNO533
C302	.047			GP4700	GP247						5GA-D47
C303	.047			DC-503	DC-503					MGP05	TA150
						MGP05	TA150			QC2-207	TG-S50

HY-GAIN MODEL 674B

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
C304	.047	ECV-0023	DC-503	MGP05	TA150	QC2-207	TG-S50
C305	150		DD-151		GP315		10TS-T15
C306	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C307	.047		DC-503	MGP05	TA150	QC2-207	TG-S50
TC1	20						
TC2	20						
TC201	20						
TC202	20						
TC203	20						
TC204	20						
TC205	20						

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

- (1) Used in Stage 1.
- (2) Used in Stage 2.
- (3) Used in some versions.

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
RV1	Xmit Bias	1000	RPGNB-10202				
RV2	Xmit Bias	500	RPGNB-50101				
RV3	RF Meter	20K	RPGNB-20302				
RV4	Carrier Balance	330	ERP-0076				
RV5	ALC	10K	RPGNB-10302				
RV6	Squelch Range	20K	RPGNB-20302				
RV7	AM Mod	20K	RPGNB-20302				
RV8	SSB Mod	20K	RPGNB-20302				
RV9	S Meter	10K	RPGNB-10302				
RV10	AM AGC	5000	RPGNB-50202				
RV11	LSB Gain	1000	RPGNB-10202				
RV301a	Volume	10K	ERV-0115B (18)				
RV301b	RF Gain	50K					
RV302	Squelch/Switch	10K	ERV-0182				
RV303	Fine Tune	10K tap @ 2500	ERV-0145				
RV304	AM RF	10K	RMVA-100B01				

(18) Includes RV301a and RV301b.

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Mod Amp (11MHz)	ETI-0107			
L2	Xmit Mixer (27MHz)	ETR-0293			
L3	Harmonic Suppressor (27MHz)	ETR-0345			
L4	Xmit Amp (27MHz)	ETR-0354			
L5	Xmit Driver (27MHz)	ETR-0346			
L6	Pi Filter (27MHz)	ETR-0346			
L7	Pi Filter (27MHz)	ETR-0347			
L9	Balance Mod (11MHz)	ETR-0350			
L10	IF (11MHz)	ETI-0107			
L11	IF (11MHz)	ETI-0126			
L12	Rec Doubler (22MHz)	ETR-0290			
L13	Rec Mixer (7MHz)	ETR-0127			
L14	Rec Mixer (7MHz)	ETI-0127			
L15	Rec Mixer (16MHz)	ETR-0353			
L16	Rec Mixer (16MHz)	ETR-0353			
L17	Rec Mixer (16MHz)	ETR-0353			
L18	Rec Antenna (27MHz)	ETR-0328			
L19	Rec RF (27MHz)	ETR-0261			
L20	IF (11MHz)	ETR-0255			
L201	Synth Osc (23MHz)	ETR-0351			
L202	Synth Mixer (38MHz)	ETR-0291			

PARTS LIST AND DESCRIPTION (CONTINUED)

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

COILS (RF-IF) (cont)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L203	Synth Mixer (38MHz)	ETR-0291			
L204	Harmonic Suppressor (38MHz)	ETR-0291			
L301	Final (27MHz)	ETR-0349			
RFC1	RF Choke	ELR-0004			
RFC2	RF Choke (100uH)	ELR-0080			
RFC3	RF Choke	ELR-0011			
RFC5	RF Choke (2.2uH)	ELR-0128			
RFC6	RF Choke (68uH)	ELR-0125			
RFC7	RF Choke	ELR-0011			
RFC8	RF Choke	ELR-0011			
RFC9	RF Choke	ELR-0011			
RFC201	RF Choke (4.7uH)	ELR-0132			
RFC202	RF Choke (2.7uH)	ELR-0133			
RFC203	RF Choke (2uH)	ELR-0134			

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
CH	2A	.03	.16mH	ELA-17 (1)			(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.	
T1	1.5	1		ETA-55 (1)	TR667		(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	18	8	ETA-68 (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP	3" PM 8 Ohms	EAS-0029	30A05Z8R	

HY-GAIN MODEL 674B

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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	2.5A			AGC2-1/2	HDJ	31202.5	150145	

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA						
	MFGR. PART No.	GC PART No.	GC NOISE CANCEL	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black
MIC	EAM-0032	18-032	18-034	18-010	18-105	1	3	2	5	NC	3

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL	ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR. PART No.	CTS KNIGHTS PART No.	CHANNEL
X1	11.275	*029Z011275	ATD90M11275	Xmit Osc	X206	23.380	*030S023380	ATA25W23380	5,6,7,8
X201	14.907	*029S014907	ATC36W14907	1,5,9,13,17,21	X207	23.430	*030S023430	ATA25W23430	9,10,11,12
X202	14.917	*029S014917	ATC36W14917	2,6,10,14,18,22	X208	23.480	*030S023480	ATA25W23480	13,14,15,16
X203	14.927	*029S014927	ATC36W14927	3,7,11,15,19	X209	23.530	*030S023530	ATA25W23530	17,18,19,20
X204	14.947	*029S014947	ATC36W14947	4,8,12,16,20,23	X210	23.580	*030S023580	ATA25W23580	21,22,23
X205	23.330	*030S023330	ATA25W23330	1,2,3,4					

* EXT Series

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CR1	IF Network	ECR-0014	S/Rf CB/PA (On Squelch Control) Rec/Xmit Channel Selector Power/ANL LSB/USB/AM 11.275MHz DC (Includes 2.5A Fuse) Main (TP-530HB) Synth (TP-530-HB)
M1	Meter	EMM-0069	
RV302B	Switch		
RY1	Relay	EZR-0012	
SW1	Switch	ESR-0171	
SW2A	Switch	ESP-0102	
SW301	Switch	ESR-0151	
XF1	Ceramic Filter	ECF-0041	
	Power Cord	ENO-0055	
	Printed Circuit Board	EPO-0645	
	Printed Circuit Board	EPO-0654	

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

ITEM	PART No.	ITEM	PART No.
Escutcheon	MC094P001	Knob, Volume	MNO-0131
Cabinet, Top	MC094P003	Knob, RF Gain	MNO-0132
Cabinet, Bottom	MC094P004	Knob, Power-ANL	MNO-0099
Channel Plate	MC094P010	Microphone Hanger	MYO-0025
Knob, Channel	MNO-0128A	Mobile Mounting Bracket	MCO-50P006
Knob, Control	MNO-0129		