



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

NOTE

Repair or adjustment of transmitter circuits must be under supervision of a person with first-or second-class radiotelephone license.

(Refer to FCC Rules and Regulations Part 95, Subpart C & D.)

The frequency of the transmitter should be checked periodically with a secondary frequency standard to insure proper and legal operation.

Best results will be obtained when adjusting the final RF output circuit if the antenna normally used is connected and the chassis is as nearly in the cabinet as possible.

Connect either 50-ohm dummy load or the normally used antenna system.



MODEL 3-5810B

GENERAL ELECTRIC MODEL 3-5810B

MANUFACTURER'S SPECIFICATIONS

RECEIVER		TRANSMITTER	
Sensitivity:	0.5uv for 500mw	Frequency Response:	400Hz to 2.5kHz
Frequency Coverage:	26.965 to 27.255MHz	Frequency Coverage:	26.965 to 27.255MHz
Adjacent Channel Selectivity:	Better than 50db	Transmit Power Output:	4 watts max. @ 13.8V DC
Audio Output Power:	3 watts @ 10% Dist.	Modulation:	Capable of 100%
Spurious Rejection:	Better than 35db	Frequency Tolerance:	Better than .005%
IF Frequencies:	455kHz, 10.695MHz	Microphone:	Dynamic, 500Ω
Squelch Range (Sensitivity):	0.5 to 5,000uv		
Image Rejection Ratio:	Better than 35db		
Delta Tune Range	Approx. ± 1kHz		
Built-in Speaker:	8Ω Impedance		

Courtesy of the Manufacturer

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

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7CY622

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:
 L112, T106 thru T109 5009
 L106, L109, L110 9304
 L103, L104, T101 thru T105, T111 9440
 CT101 5000

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of frequency counter to TP1.	Ch. 13		Check for 10.2392MHz +0.13kHz.
Input of frequency counter to TP2.	Ch. 1 Delta Tune 0	CT101	Adjust for 37.65920MHz +0.38kHz.
Input of VTVM to TP8.	Ch. 1	T101	Adjust for 1.5V +.1 volt.
Input of RF VTVM to TP3.	Ch. 13	T111	Adjust for maximum.
Input of frequency counter to TP4.	Ch. 13, Xmit		Check for 10.6942MHz +0.12kHz.

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	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to TP5. 455kHz, 1000Hz @ 30% modulation.	Ch. 13	T109, T108, T107	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation.	Ch. 13 Delta Tune center	T106, L112, T105, T104	Adjust for maximum output. Repeat above step, 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	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation. Output 500uV.	Ch. 13 Delta Tune 0	RV101	SQUELCH RANGE Set squelch control VR2 fully clockwise. Adjust RV101 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 13	RV103	S METER Adjust 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.

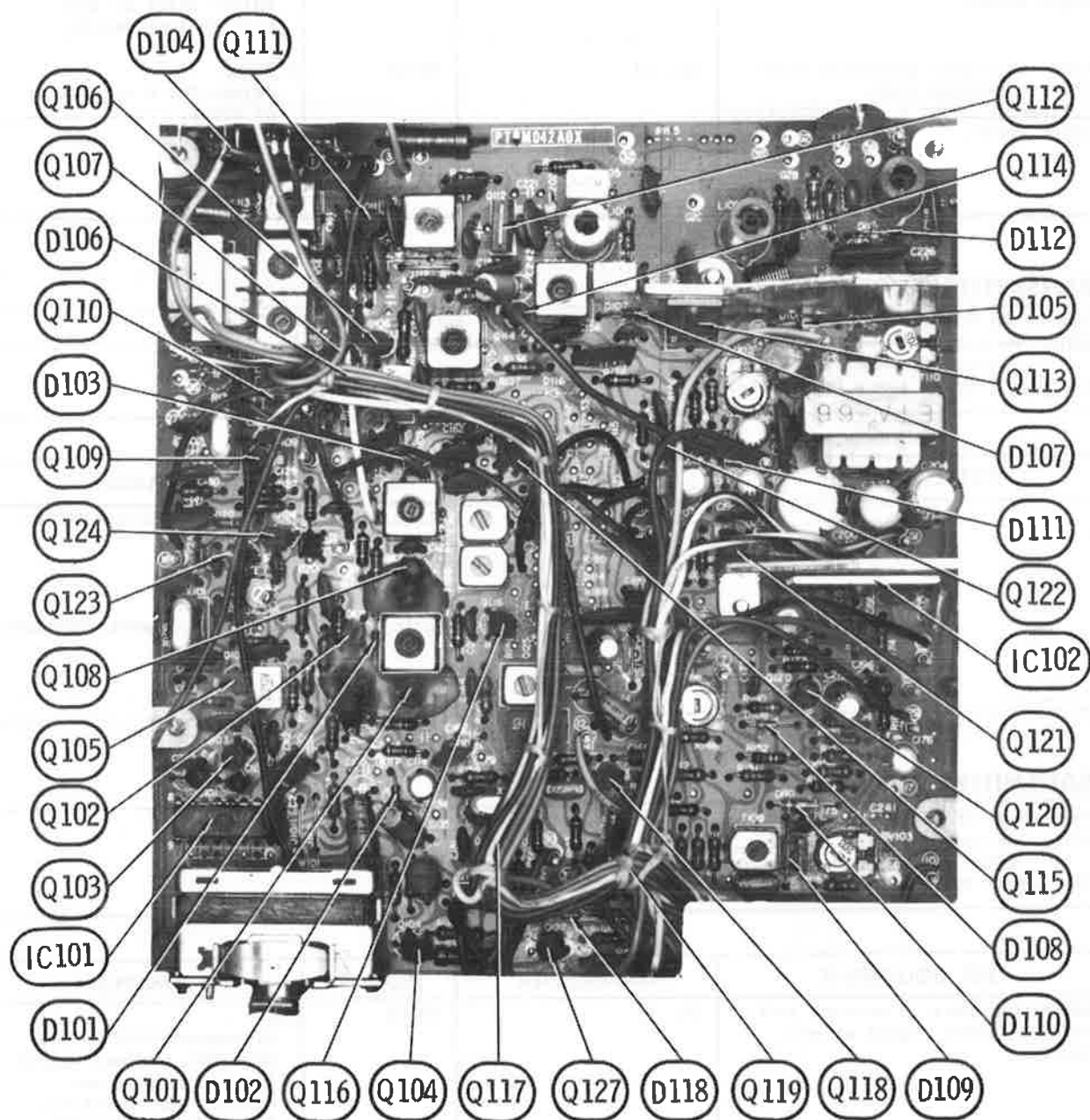
TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
	Ch. 13	L103,L104, T102,T103, L106,L109, L110	Adjust for maximum output.
	Ch. 13	L110,L109	Adjust for 4 watts maximum.

GENERAL ELECTRIC MODEL 3-5810B

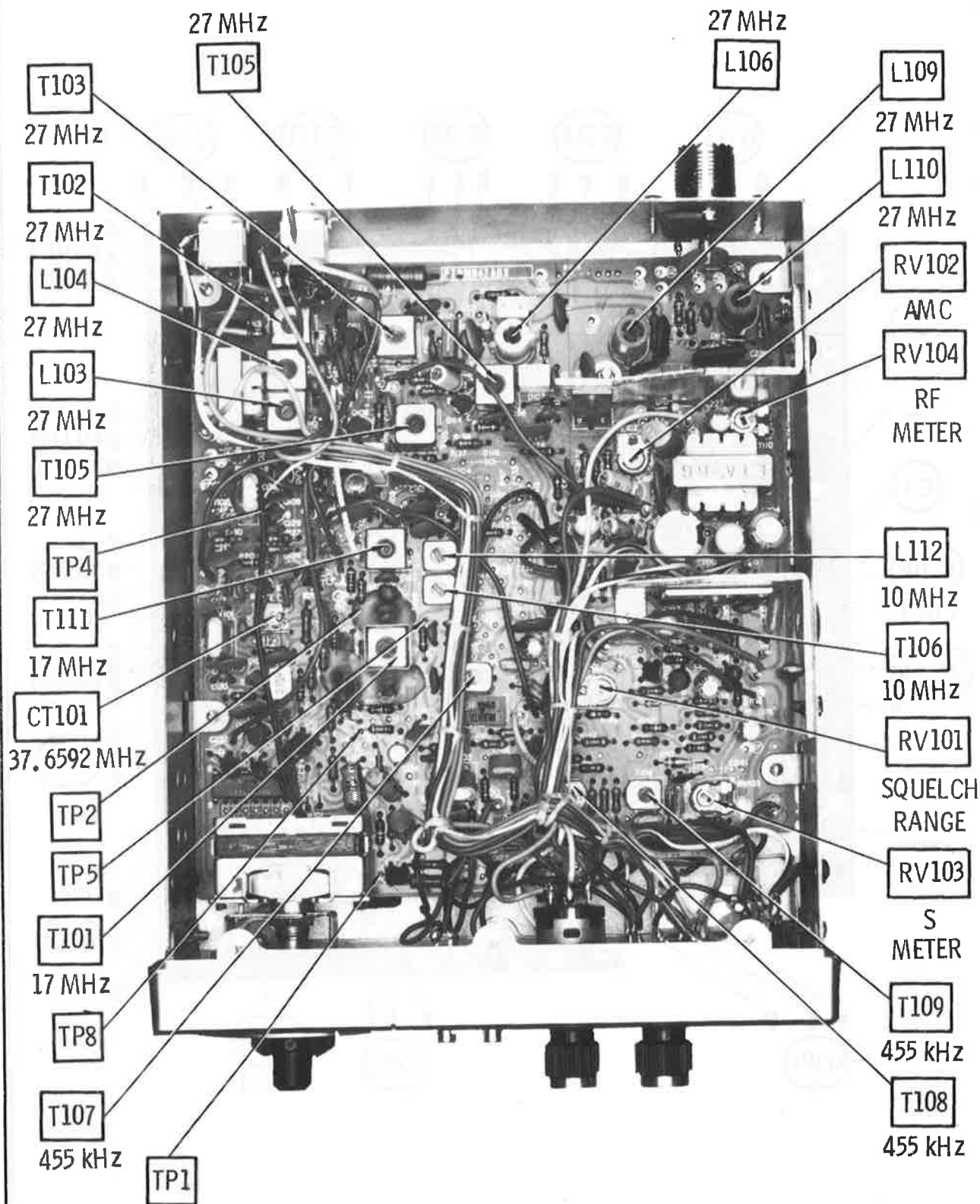
TRANSMITTER ADJUSTMENTS

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.

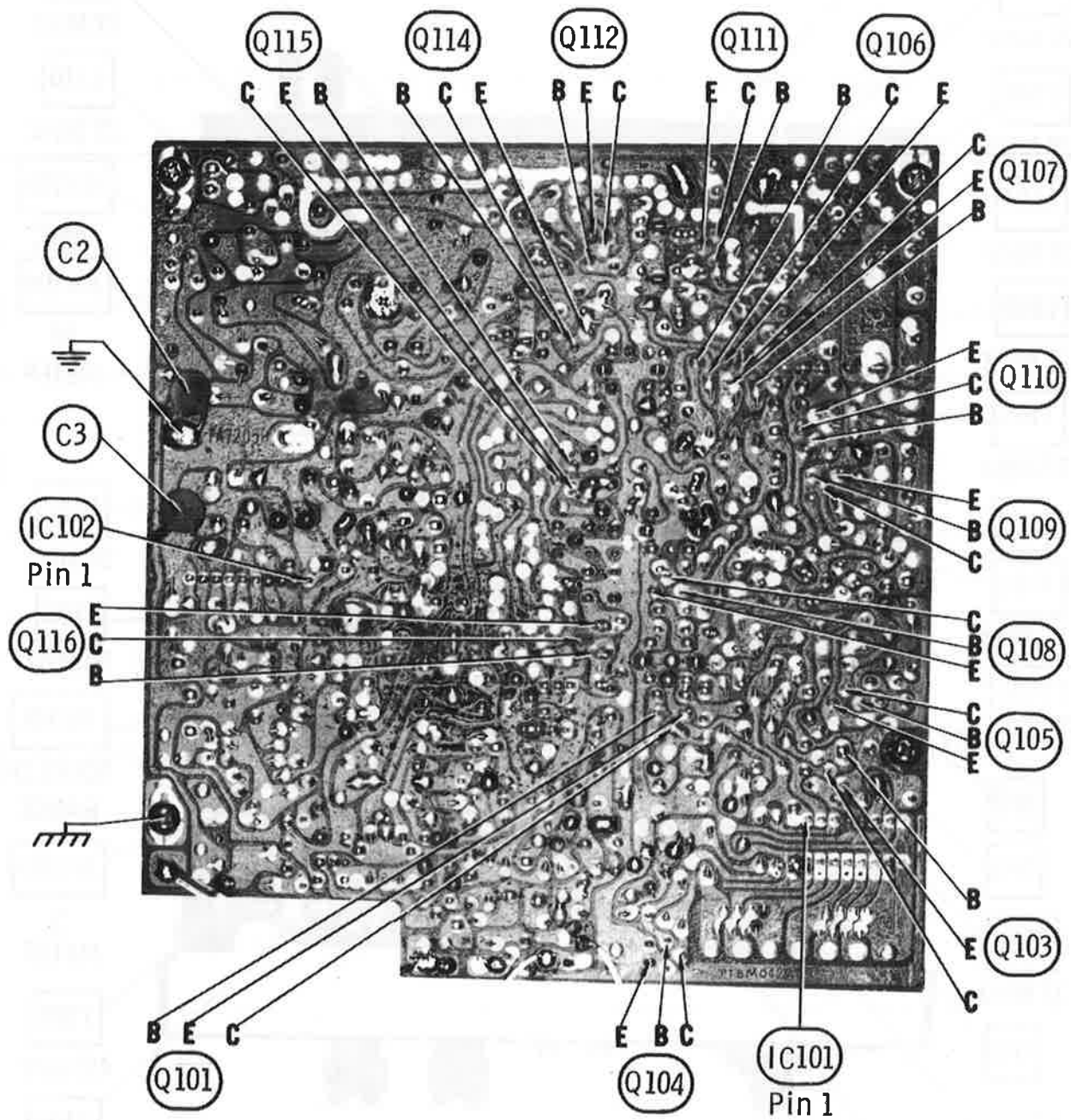
TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Modulation meter to antenna jack. Inject a 1000Hz signal at mic input.	Ch. 13	RV102	AMC Disconnect C209 to disable AMC. Adjust signal for overmodulation. Restore AMC operation. Adjust RV102 for 100% modulation maximum.
	Ch. 13	RV104	RF PANEL METER Adjust RV104 so that RF panel meter agrees with RF wattmeter.



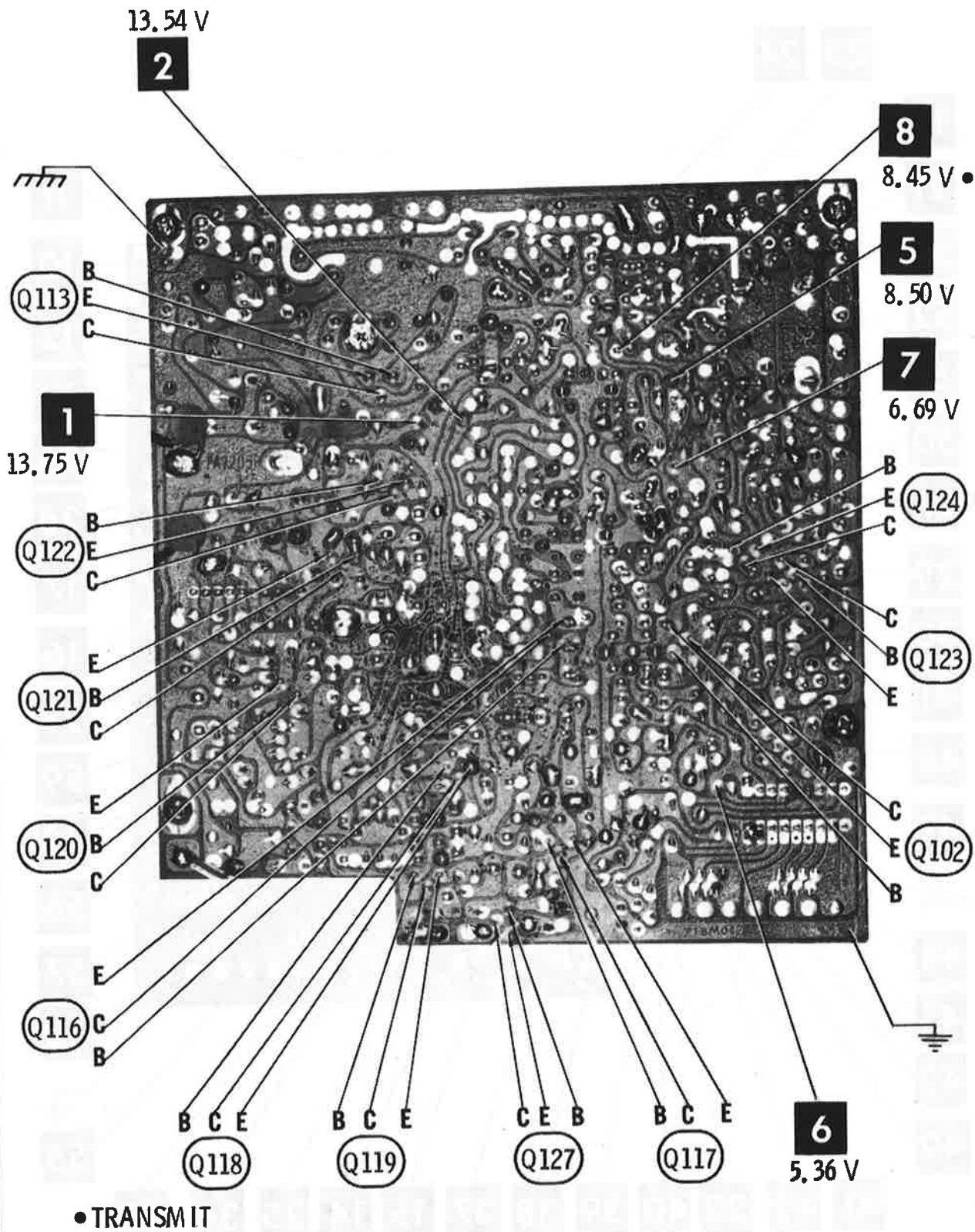
MAIN BOARD

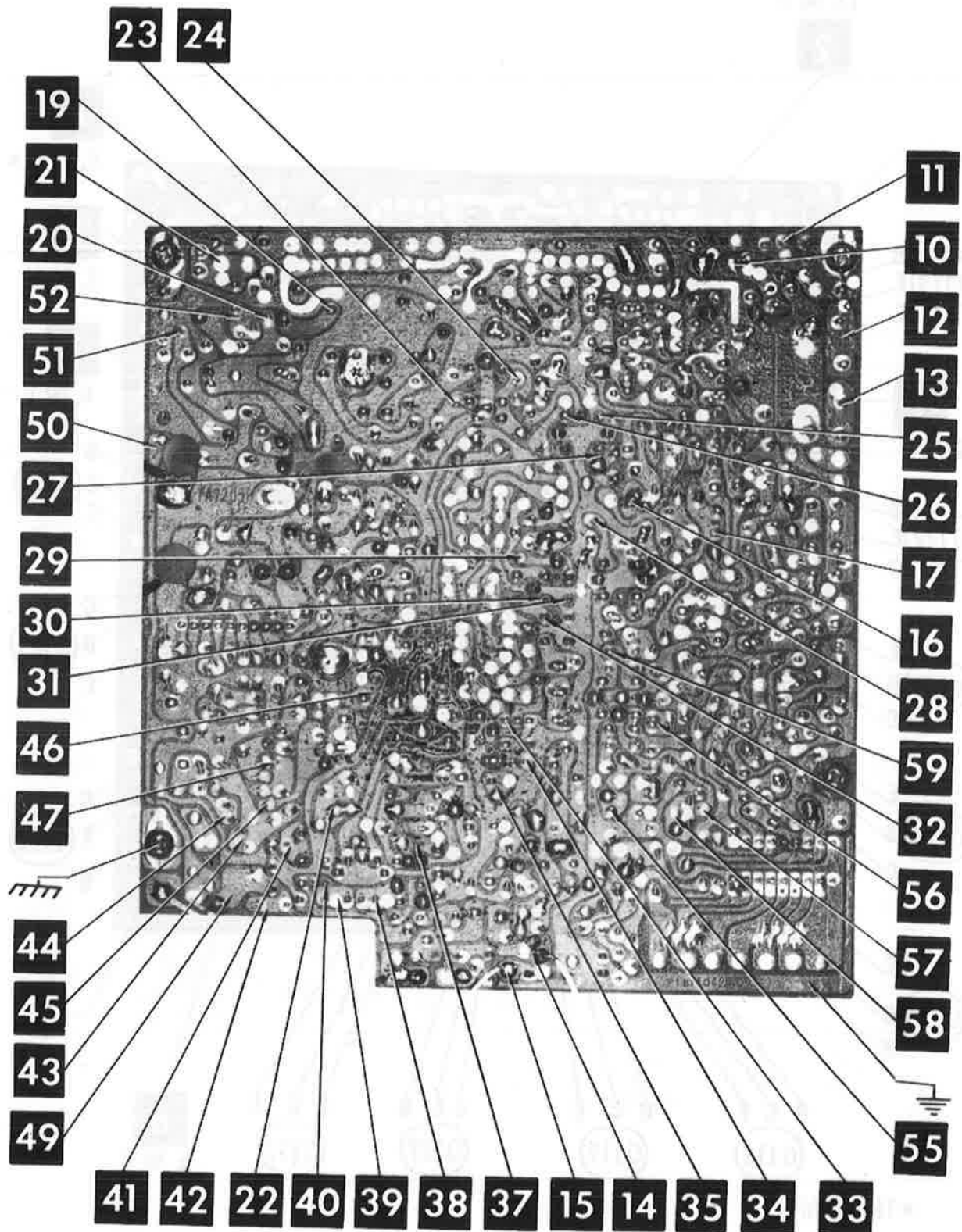


CHASSIS - BOTTOM

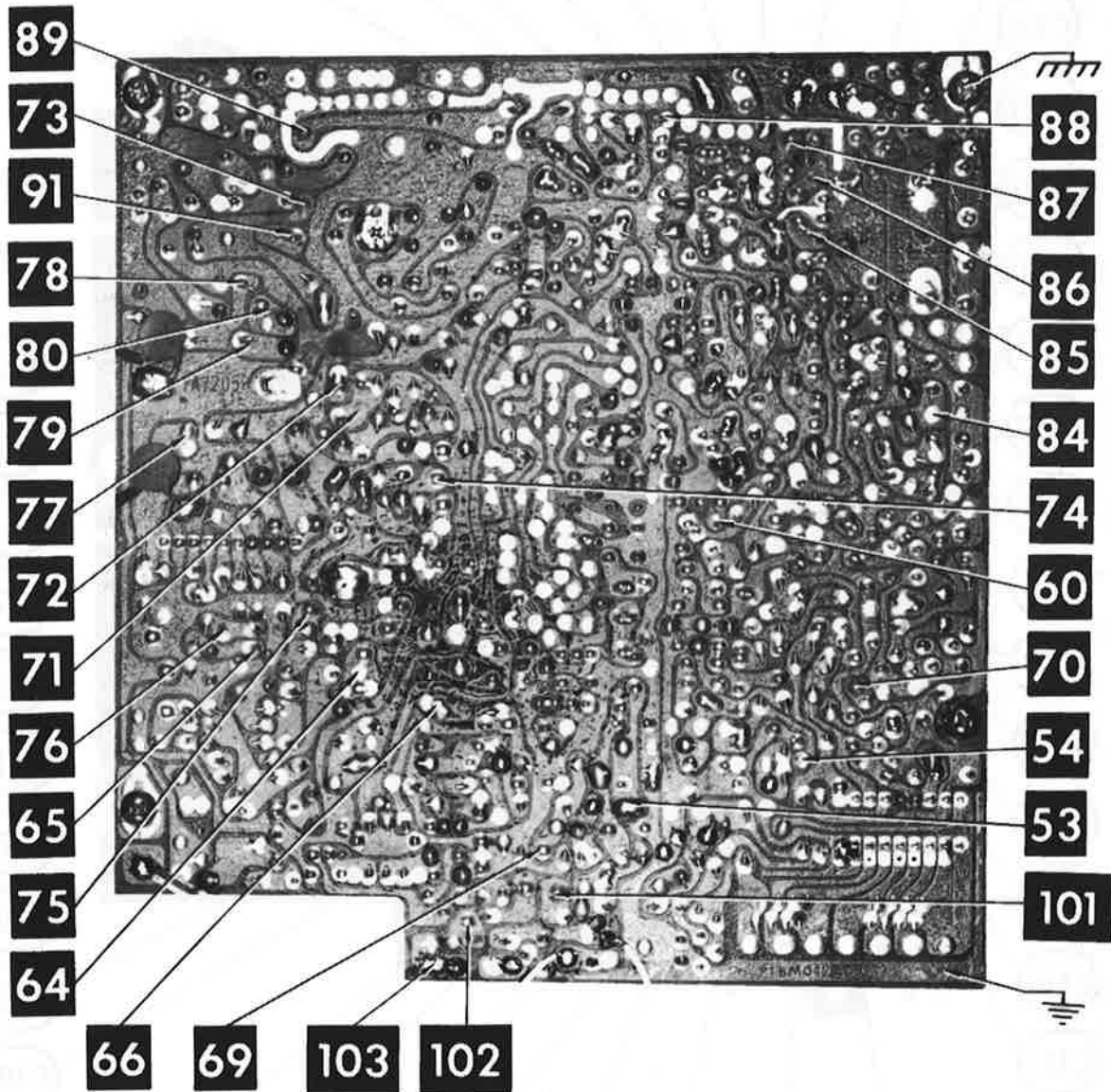


MAIN BOARD

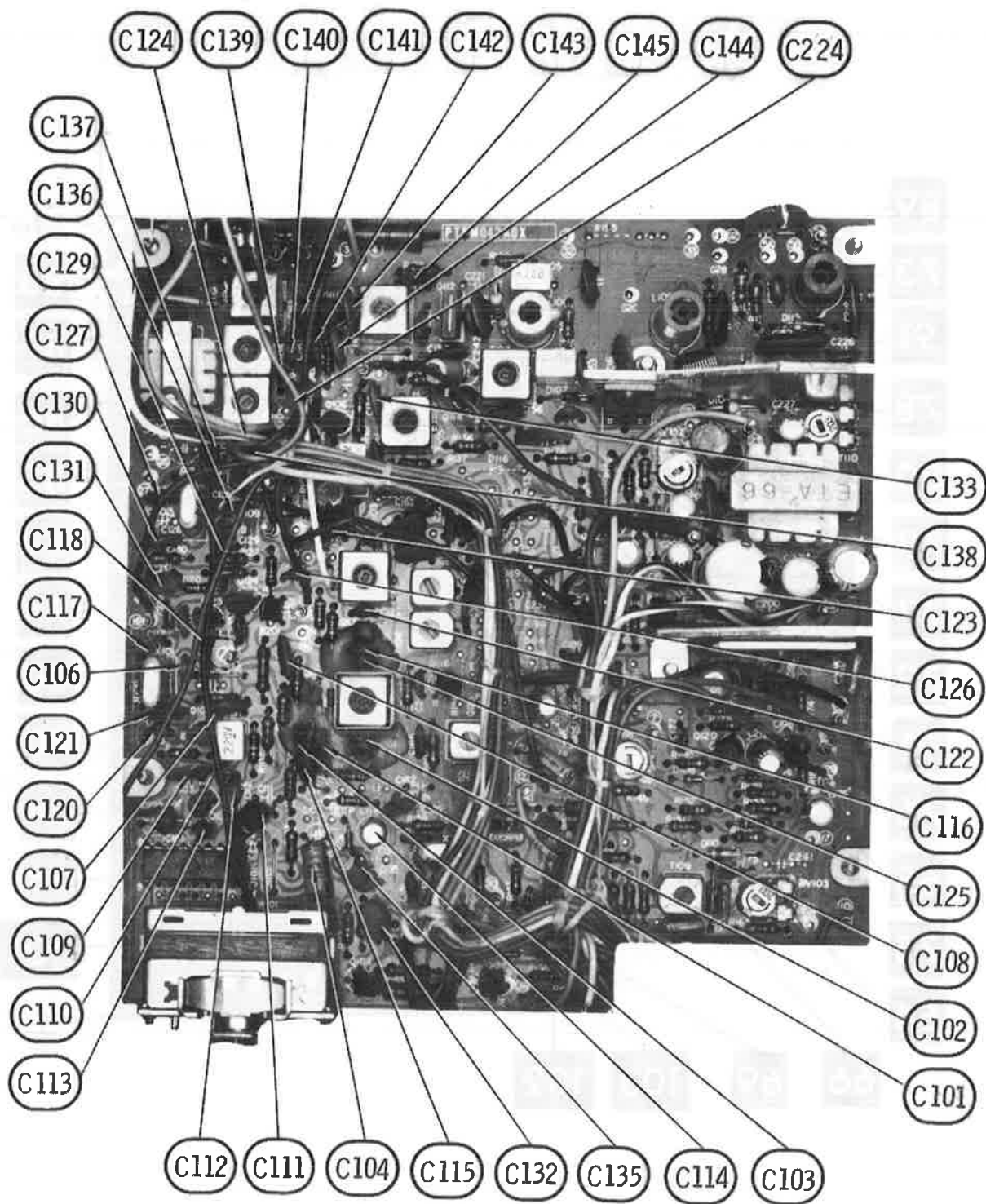




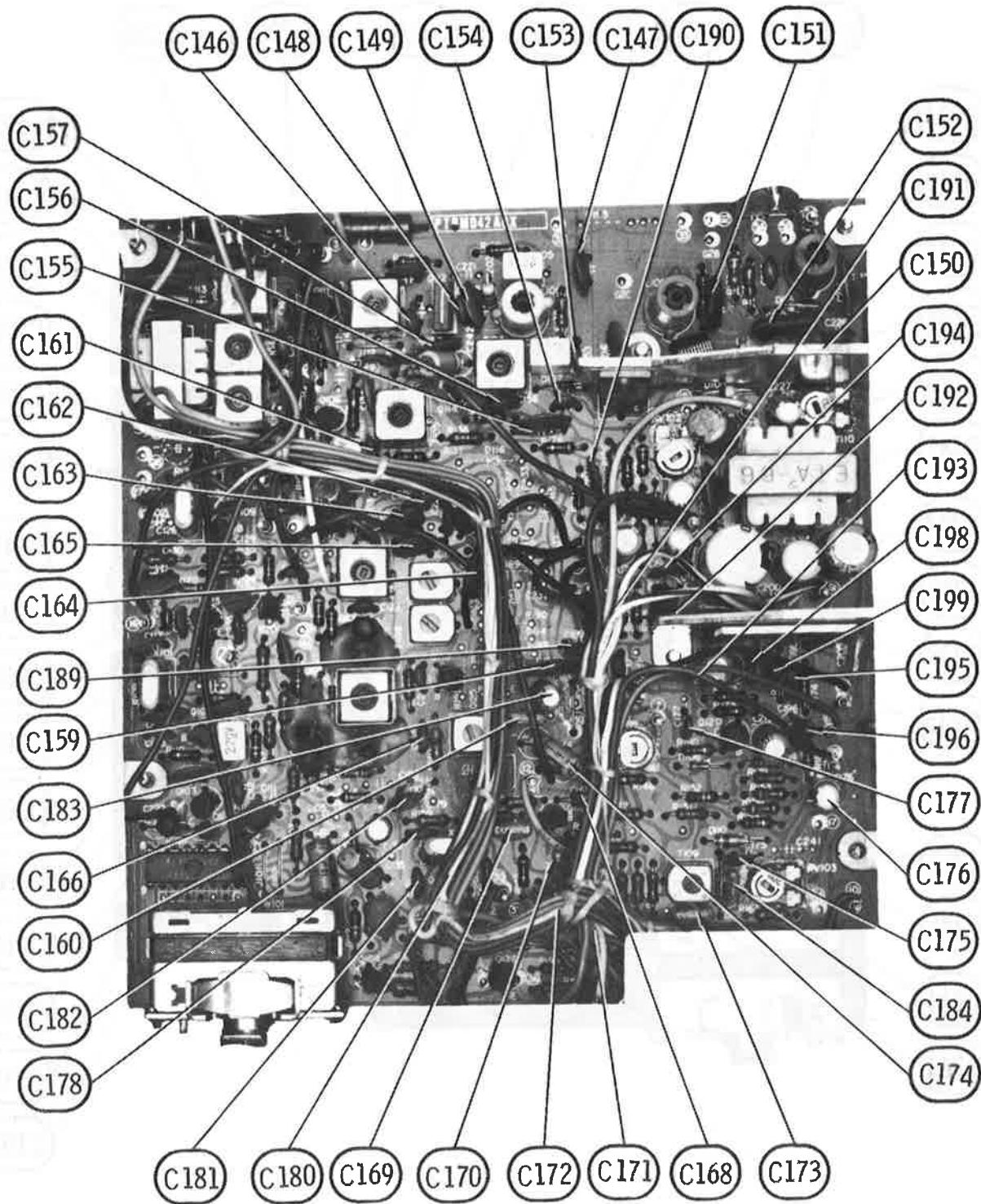
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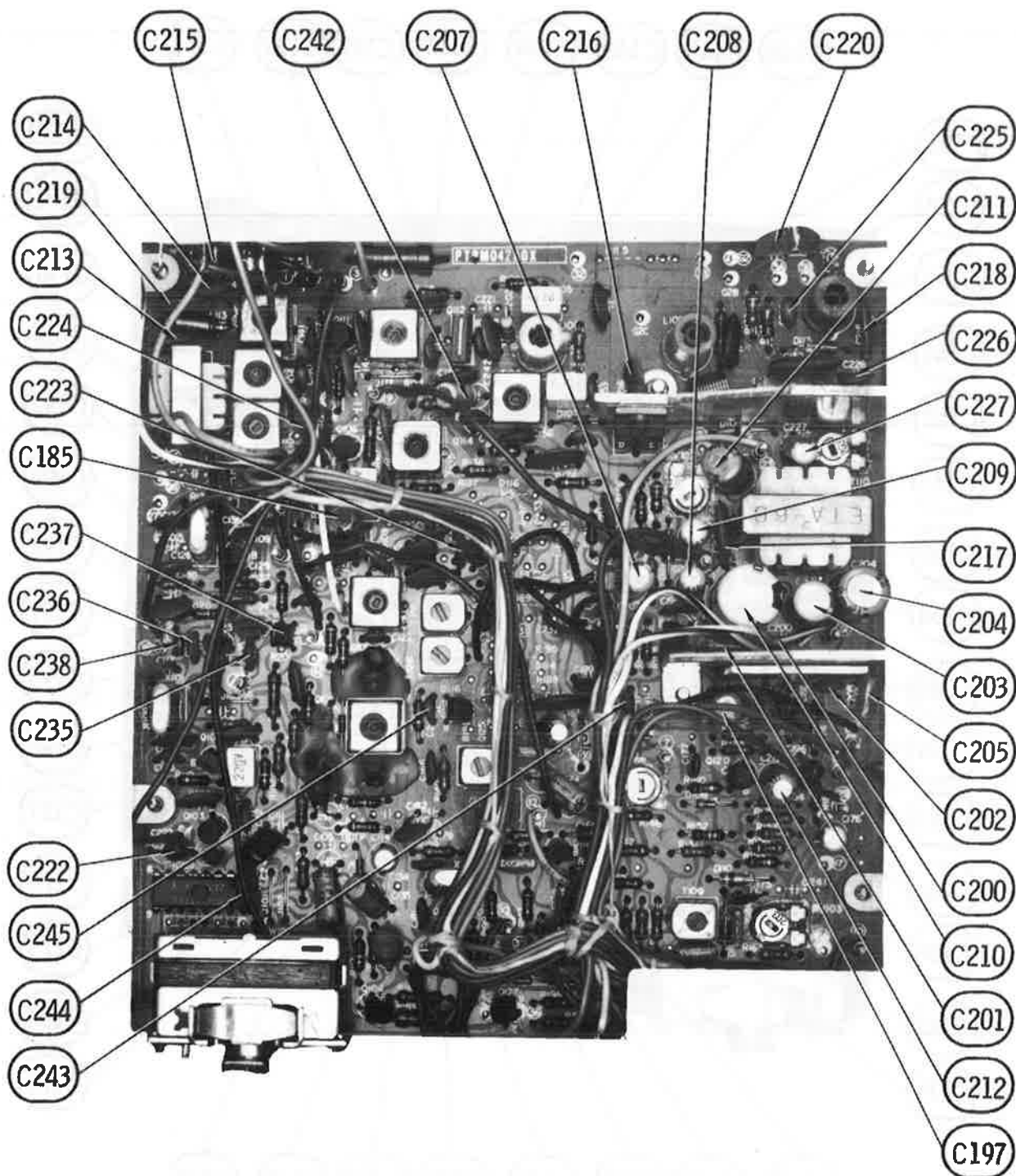
GENERAL ELECTRIC MODEL 3-5810B



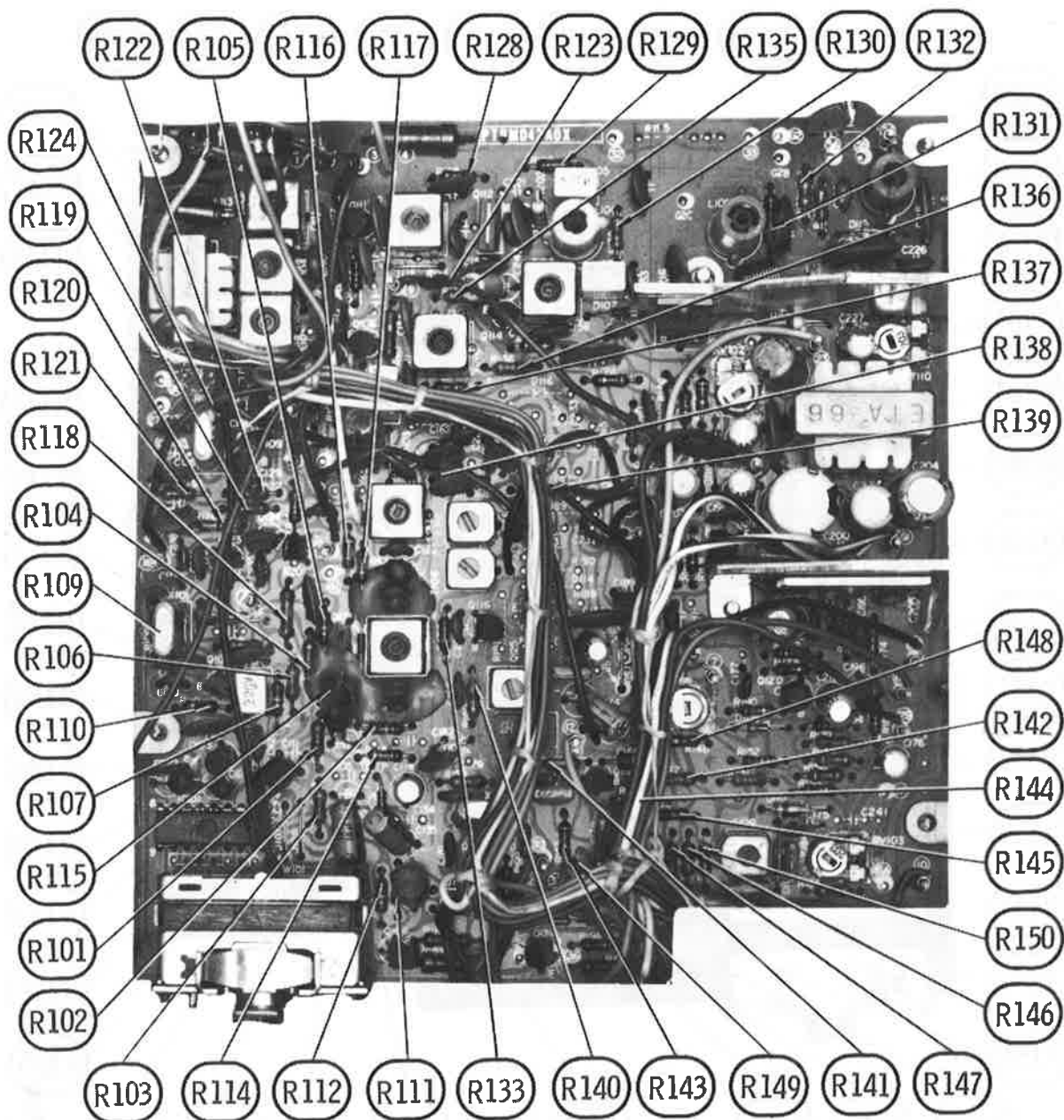
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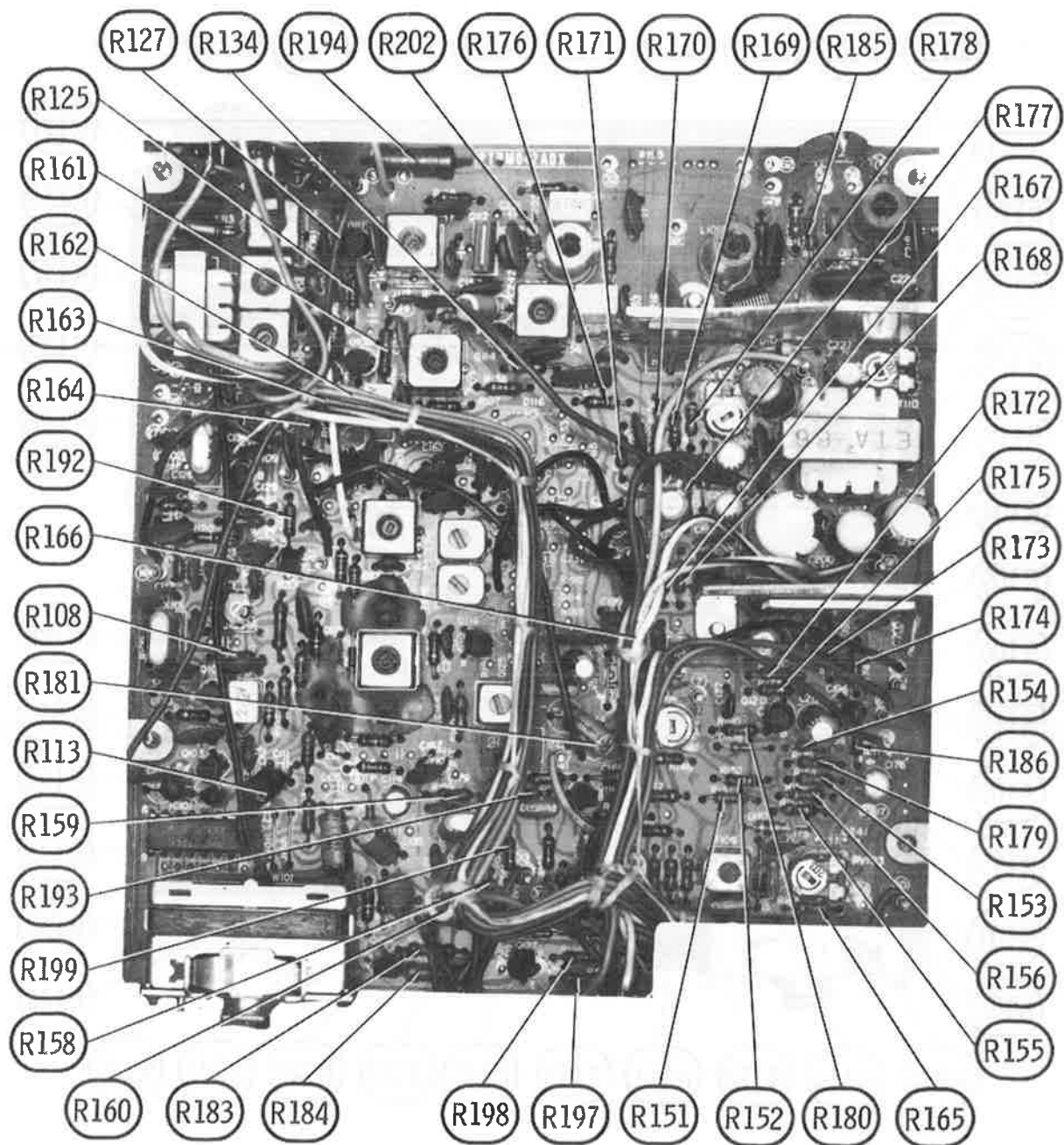
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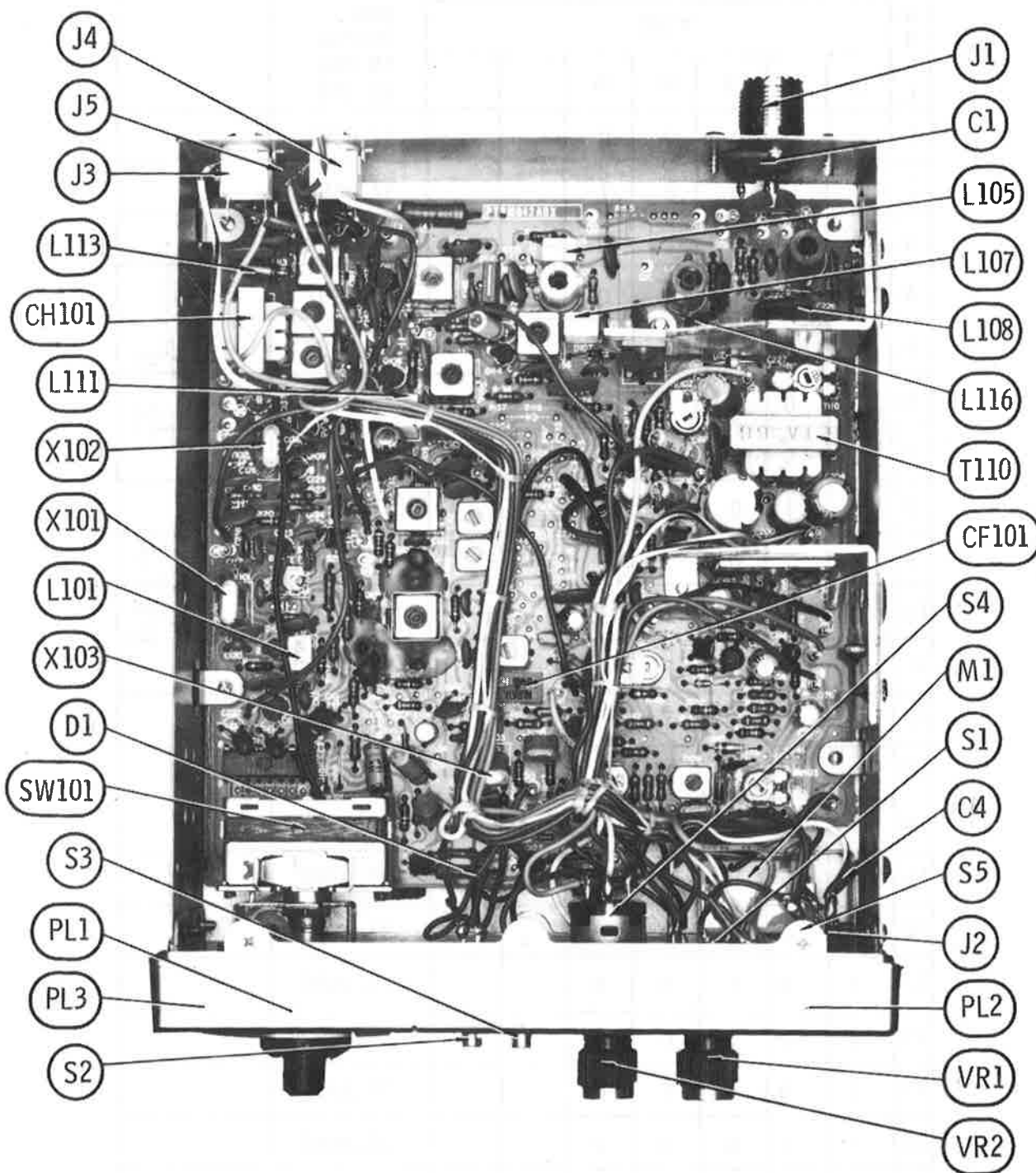
MAIN BOARD



MAIN BOARD



MAIN BOARD

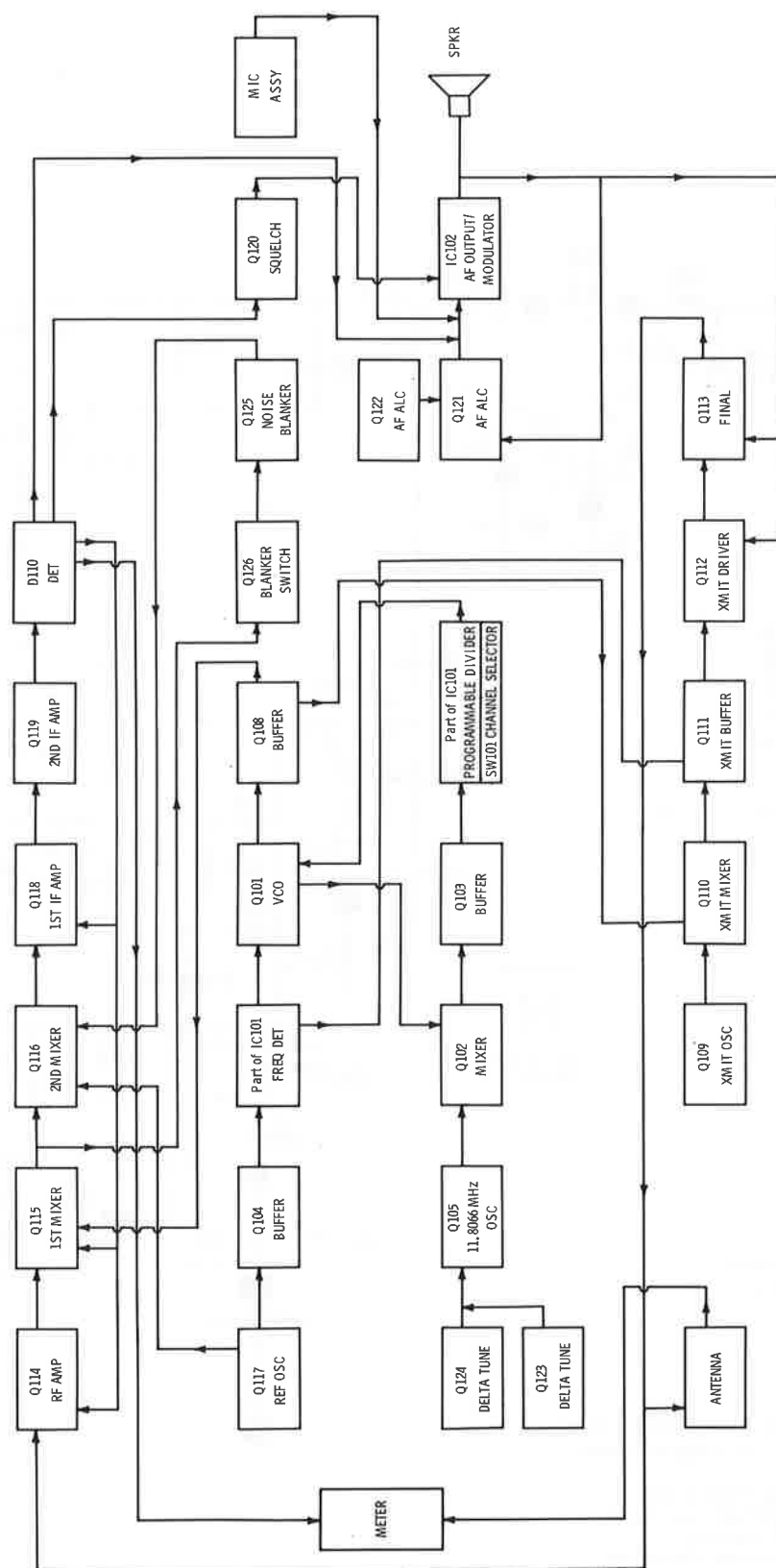


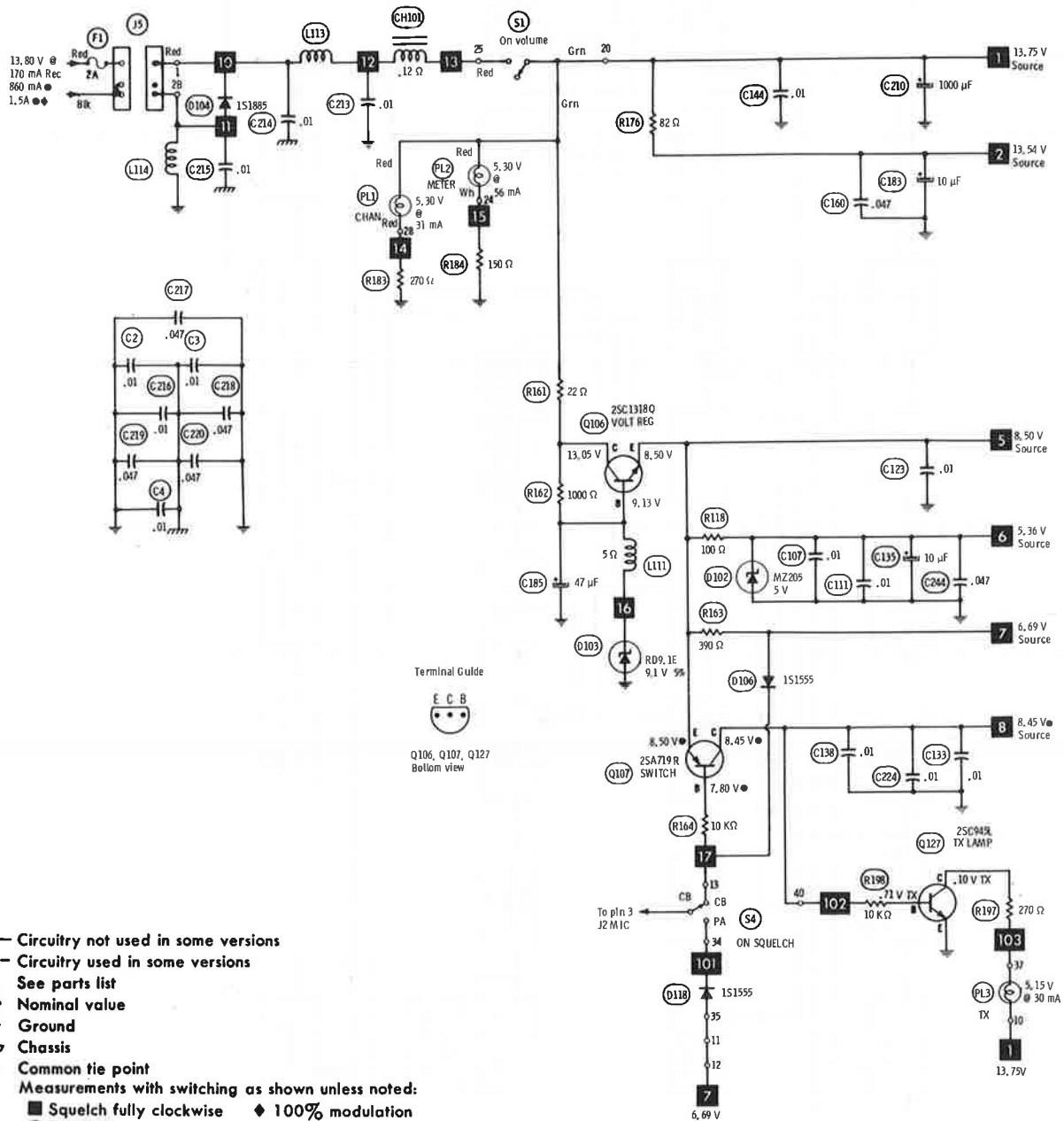
CHASSIS - BOTTOM

TRUTH CHART

1 = 5.50 Volts 0 = 0 Volts

C H A N N E L	IC101 PROGRAM DIVIDER							REC VCO OUTPUT IN MHz AT TP2	
	PINS								
	11	12	13	14	15				
1	0	0	0	0	0			37.6592	
2	0	0	0	0	1			37.6692	
3	0	0	0	1	0			37.6792	
4	0	0	1	0	0			37.6992	
5	0	0	1	0	1			37.7092	
6	0	0	1	1	0			37.7192	
7	0	0	1	1	1			37.7292	
8	0	1	0	0	1			37.7492	
9	0	1	0	1	0			37.7592	
10	0	1	0	1	1			37.7692	
11	0	1	1	0	0			37.7792	
12	0	1	1	1	0			37.7992	
13	0	1	1	1	1			37.8092	
14	1	0	0	0	0			37.8192	
15	1	0	0	0	1			37.8292	
16	1	0	0	1	1			37.8492	
17	1	0	1	0	0			37.8592	
18	1	0	1	0	1			37.8692	
19	1	0	1	1	0			37.8792	
20	1	1	0	0	0			37.8992	
21	1	1	0	0	1			37.9092	
22	1	1	0	1	0			37.9192	
23	1	1	1	0	1			37.9492	





PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	IR WORKMAN PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D101	ITT410	EA16X106				HEPR2502				ECG612
	BB142	(1)				HEPR2502				ECG612
D102	MZ205	EA16X136	GEZD-9.1	WEP602	ZB9.1B		RE 105		RT-240	ECG135
D103	RD9.1E	EA16X137	GE-504A	5A4D	PTC201	HEPR0052	RE 114	SK3030	RT-213	ECG139A
D104	1S1885	RV1189	GE-509	5A8D	PTC203	HEPR0055	RE 49	SK3032	RT-210	ECG116
D105	V06C	EA57X14	GE-300	D200	PTC214	HEPR0602	RE 51	SK3100	RT-218	ECG125
D106	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D107	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D108	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D109	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
	1S1555	RT5217(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D110	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D111	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
	1S1555	RT5217(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D112	1N60	EA16X48	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
	1S1555	RT5217(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D118	1S1555	RT5217	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
IC101	PLLO2A	EA33X8388					RE 360-IC			ECG1167
IC102	TA7205P	EA33X8389	GEIC-179	WEP949	PTC780		RE 357-IC		TVCM-81	ECG1155
Q101	25C710D	EA15X364	GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q102	25C710D	EA15X364	GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q103	25C829D	RV2134	GE-20 *	(IR)25C829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122 *	RT-308 *	ECG229 *
Q104	25C710D	EA15X364	GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q105	25C710D	EA15X364	GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q106	25C1318Q	EA15X378	GE-210 *	TR-21 *	PTC178	HEPS0015 *	RE 17 *	SK3122 *	RT-302	ECG128 *
Q107	25A719R		GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
	25A719Q	RV2335(1)	GE-269	TR-28 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-305	ECG290
Q108	25C1359B	EA15X251	GE-212	(IR)25C380A0	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
Q109	25C710D	EA15X364	GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q110	25C710E		GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
	25C710D	EA15X364(1)	GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q111	25C1687C		GE-20 *	TR-24 *	PTC121 *	HEPS0015 *	RE 13 *	SK3018 *	RT-107A *	ECG123A *
	25C1687	EA15X379(1)	GE-20 *	TR-24 *	PTC121 *	HEPS0015 *	RE 13 *	SK3018 *	RT-107A *	ECG123A *
Q112	25C1760HY		GE-276	WEP1014			RE 224		RT-310	ECG306
	25C1760	EA15X380	GE-276	WEP1014			RE 224		RT-310	ECG306
		(1)(12)								
Q113	25C1306	EA15X381(13)	GE-215	WEP1306	PTC186		RE 203	SK3197	RT-146	ECG235
Q114	25C1047C		GE-60 *	(IR)25C829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
	25C1047B	RT8527(1)	GE-60 *	(IR)25C829B	PTC132 *	HEPS0016 *	RE 28 *	SK3018 *	RT-107	ECG161 *
Q115	25C1359B	EA15X251	GE-212	(IR)25C380A0	PTC121 *	HEPS0014 *	RE 192	SK3038 *	RT-308	ECG199
Q116	25C829C	RT6733	GE-61 *	(IR)25C828A	PTC121 *	HEPS0015 *	RE 192	SK3122 *	RT-302	ECG199
Q117	25C710D	EA15X364	GE-211 *	(IR)25C710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q118	25C829C	RT6733	GE-20 *	(IR)25C829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122 *	RT-308	ECG229 *
Q119	25C829B		GE-20 *	(IR)25C829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122 *	RT-308	ECG229 *
	25C829C	RT6733(1)	GE-20 *	(IR)25C829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122 *	RT-308	ECG229 *
Q120	25C372Y	RT15X180	GE-61 *	(IR)25C372	PTC121 *	HEPS0015 *	RE 13 *	SK3122 *	RT-308	ECG123A *
Q121	25C828P	EA15X325	GE-61 *	(IR)25C828A	PTC121 *	HEPS0015 *	RE 192	SK3122 *	RT-302	ECG199
Q122	25C829P	EA15X325	GE-20 *	(IR)25C829B	PTC121 *	HEPS0015 *	RE 9 *	SK3122 *	RT-308	ECG229 *
Q123	25C839F	RT5901	GE-61 *	(IR)25C644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q124	25C839F	RT5901	GE-61 *	(IR)25C644	PTC132 *	HEPS0015 *	RE 13 *	SK3018 *	RT-308	ECG123A *
Q127	25C945L		GE-212	(IR)25C945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199
	25C945R	RT7557(1)	GE-212	(IR)25C945	PTC121 *	HEPS0015 *	RE 192	SK3124	RT-107A	ECG199

* Lead configuration may vary from original.

(1) Used in some versions.

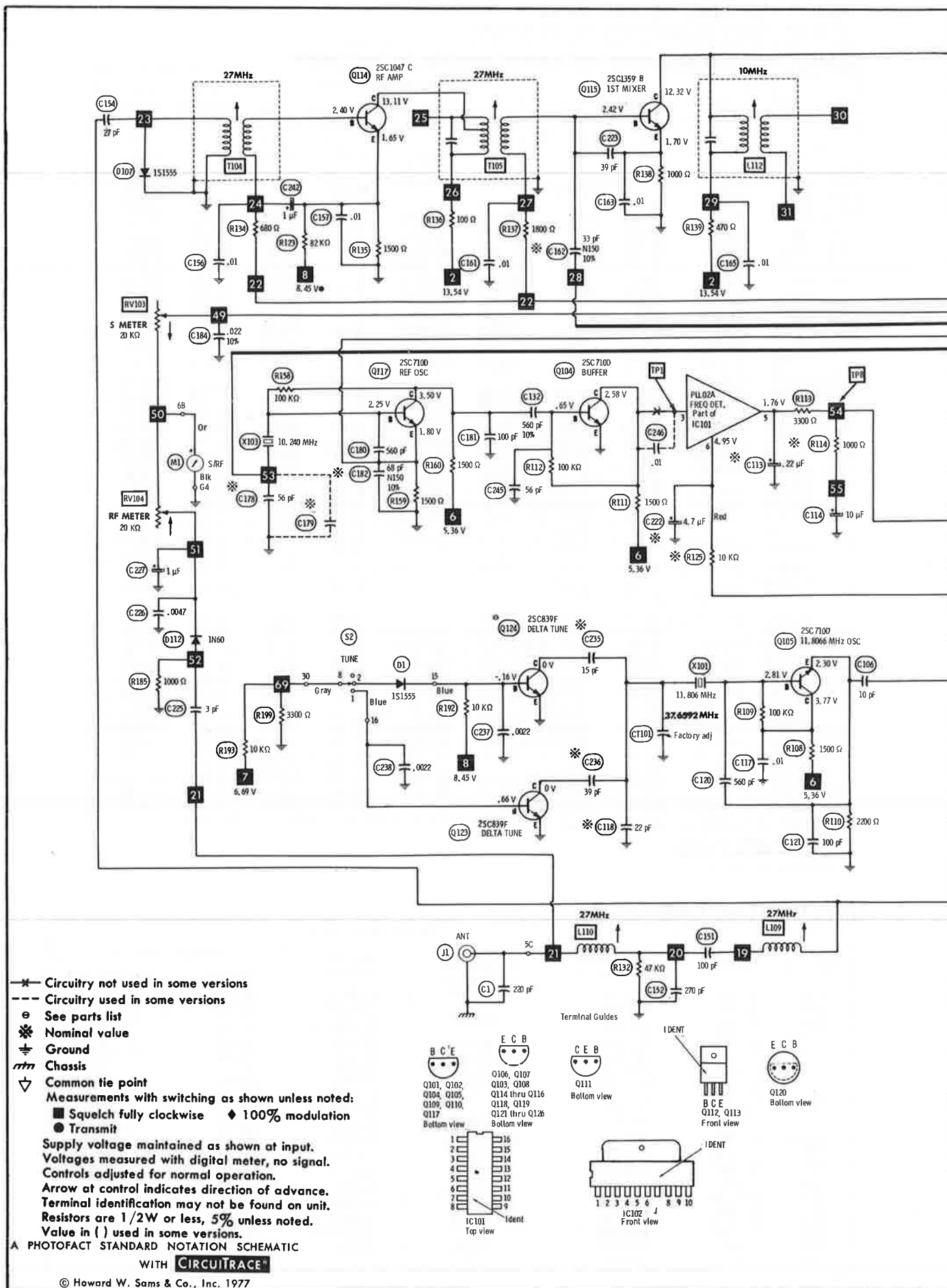
(12) Rating 950 MW @ 500 mA.

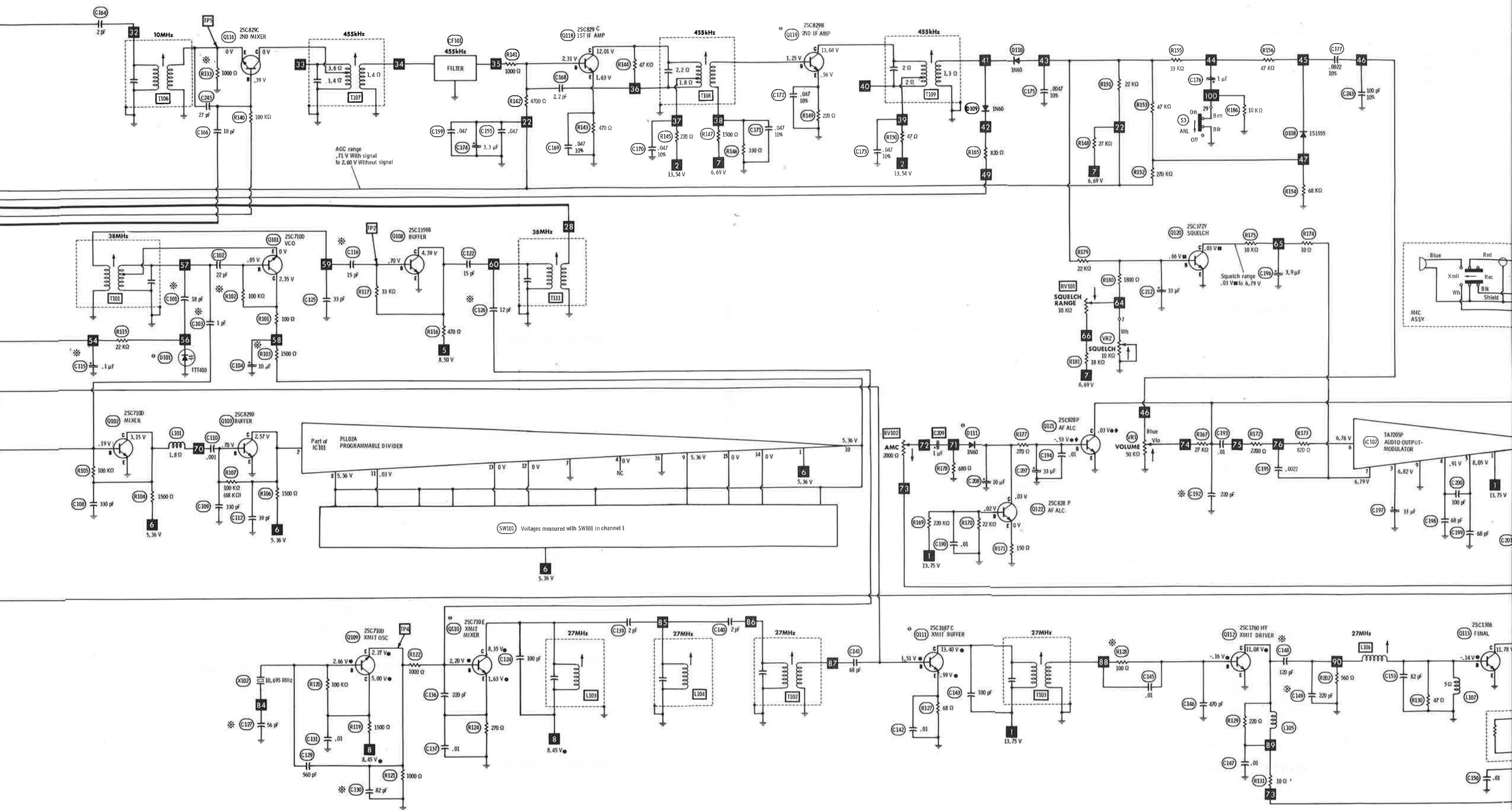
(13) Rating 12 W @ 3 A.

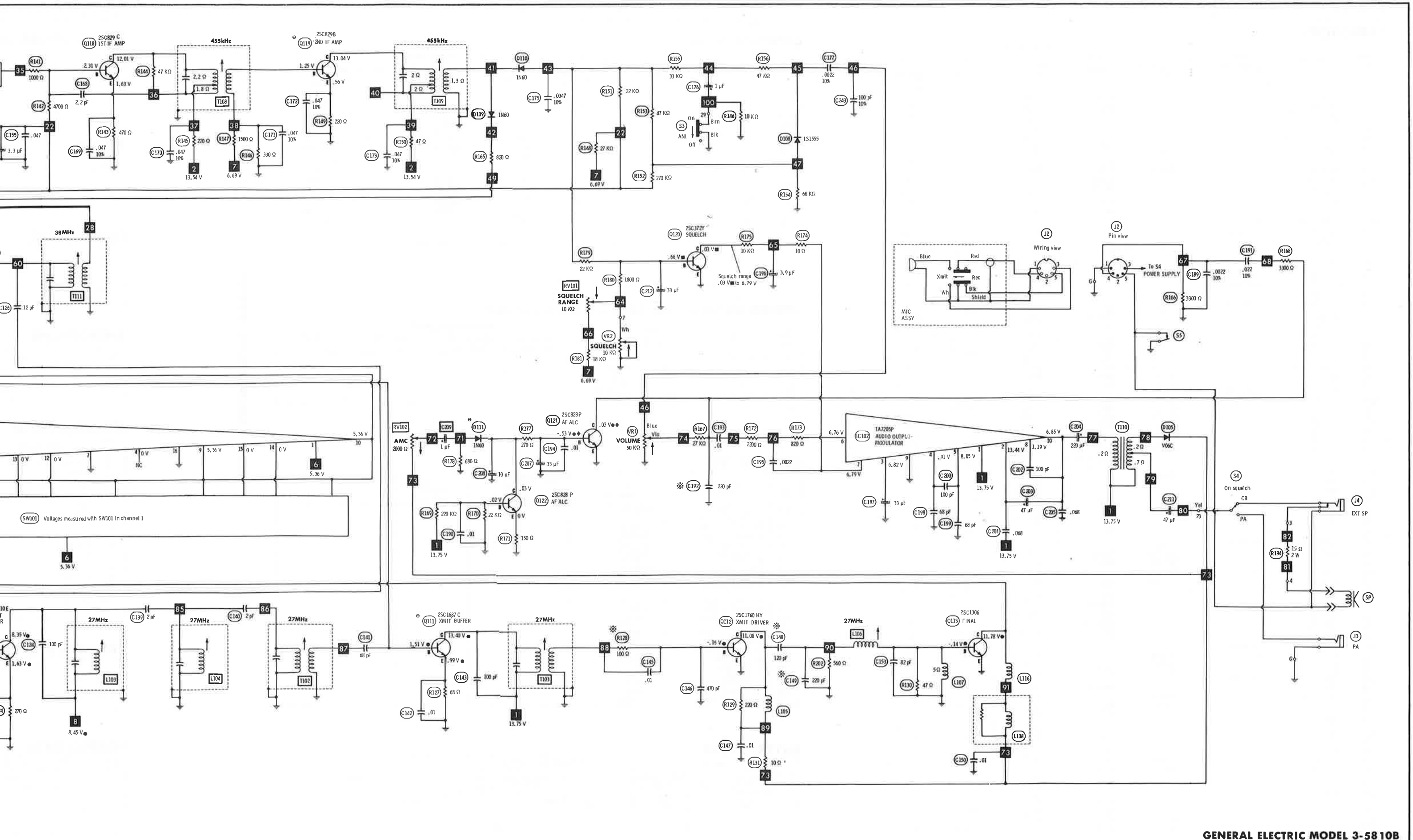
GENERAL ELECTRIC MODEL 3-5810B

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	EA31X221	PC10-25	VTT10B25	QV1-41	EV-1222
C113	.22 50V	EA31X240		TDC224M050EL	QDT1-10	SD50-R229
C114	10 16V	EA31X221	PC10-25	VTT10B25	QV1-41	EV-1222
C115	.1 50V	EA31X241		TDC104M050EL	QDT1-2	SD50-R109
C135	10 16V	EA31X221	PC10-25	VTT10B25	QV1-41	EV-1222
C174	3.3 25V	EA31X239	PC5-50	VTT3R3A50	QV1-23	EV-1318
C176	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C183	10 16V	EA31X213	PC10-25	VTT10B25	QV1-41	EV-1222
C185	47 10V	EA31X214	PC50-16	VTT47D16	QV1-73	EV-1226
C196	3.9 10V	EA31X242		TDC475M010EL	QDT1-48	SD10-4R79
C197	33 6.3V	EA31X176	PC30-25	VTT33B10	QV1-61	EV-1125
C203	47 16V	RT5477	PC50-16	VTT47D16	QV1-73	EV-1226
C204	220 16V	RT5047	PC250-25	VTT220H16	QV1-117	EV-1240
C207	33 6.3V	EA31X176	PC30-25	VTT33B10	QV1-61	EV-1125
C208	10 16V	EA31X221	PC10-25	VTT10B25	QV1-41	EV-1222
C209	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C210	1000 16V	EA31X222	PC1000-16	VTT1000L16	QV1-183	EV-1260
C211	47 25V	EA31X211	PC50-25	VTT47E25	QV1-75	EV-1326
C212	33 6.3V	EA31X176	PC30-25	VTT33B10	QV1-61	EV-1125
C222	4.7 25V	EA31X228		TDC475M010EL	QDT1-48	SD10-4R79
C227	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615
C242	1 50V	EA31X204	PC1-50	VTT1A50	QV1-11	EV-1615







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	220 500V			CD15FD221J03	SX322	QW1-35	MMA-221
C2	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C3	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C4	.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
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	EWFA1210	QF1-1	1PB-D10
C111	.01 50V			WMF1S1	EWFA1110	QF1-91	1PB-S10
C112	39 50V				CN0439		10TCC-Q39
C116	15 50V		DTZ-15	NP015	CN0415		10TCC-Q15
C117	.01 50V			WMF1S1	EWFA1110	QF1-91	1PB-S10
C118	22 N150 50V	EA18X155			*		10TCP-Q22
C120	560 50V		DD-561		GP356		10TS-T56
C121	100 N150 50V	EA18X186			*		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	MMA-101
C125	33 50V		DTZ-33	NP033	CN0433		10TCC-Q33
C126	12 N150 50V	EA18X156			*		10TCP-Q56
C127	56 N150 50V	EA18X207			GP356		10TS-T56
C129	560 50V		DD-561		*		10TCP-Q82
C130	82 N150 50V	EA18X234			*		TG-S10
C131	.01 50V		DC-103	MGP01	TA110	QC2-141	MWC-561
C132	560 50V			CD19FD561J03	SX356		TG-S10
C133	.01 50V		DC-103	MGP01	TA110	QC2-141	10TS-T22
C136	220 50V		DD-221	GP322	GP322		TG-S10
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	NP02P2	CN0522		10TCC-V22
C140	2 50V		DTZ-2R2	NP02P2	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	EA18X186			*		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	GP322		10TS-T22
C150	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C151	100 500V			CD15FD101J03	SX310	QW1-27	MMA-101
C152	270 500V			CD15FD271J03	SX327	QW1-37	MWB-271
C153	82 50V		DD-820		GP482		10TS-Q82
C154	27 50V				CN0427		10TCC-Q27
C155	.047 50V		UK50-503		MAG5015		
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	EWFA1A147	QF1-171	1PB-S47
C161	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C162	33 N150 50V	EA18X232			*		10TCP-Q33
C163	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C164	2 50V		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C165	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C166	47 N150 50V	EA18X246			*		10TCP-Q47
C168	2.2 500V		DTZ-2R2	NP02P2	CN0522		10TCC-V22
C169	.047 50V			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C170	.047 50V			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C171	.047 50V			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C172	.047 50V			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C173	.047 50V			DPMS2S47	EWFA1A147	QF1-171	1PB-S47
C175	.0047 50V			WMF1D47	EWFA247	QF1-57	1PB-D47
C177	.0022 50V			DPMS6D22	EWFA247		6PS-D22
C178	39 N150 50V	EA18X141 (1)			*		10TCP-Q39
	56 50V		DD-560		GP456		10TS-Q56
C180	560 50V		DD-561		GP356		10TS-T56
C181	100 50V		DD-101	GP100	GP310		10TS-T10
C182	68 N150 50V	EA18X173			*		10TCP-Q68
C184	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C189	.0022 50V		DD-222	GP222	GP222		5GA-D22
C190	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C191	.022 50V			DPMS2S22	EWFA1A122	QF1-127	1PB-S22
C192	220 50V		DD-221	GP322	GP322		10TS-T22
C193	.01 50V			WMF1S1	EWFA1110	QF1-91	1PB-S10
C194	.01 50V		DC-103	MGP01	TA110	QC2-141	TG-S10
C195	.0022 50V		DD-222		GP222		5GA-D22
C198	68 50V		DD-680	GP68	GP468		10TS-Q68
C199	68 50V		DD-680	GP68	GP468		10TS-Q68
C200	100 50V		DD-101	GP100	GP310		10TS-T10
C201	.068 50V			WMF1S68	EWFA1A168	QF1-195	1PB-S68
C202	100 50V		DD-101	GP100	GP310		10TS-T10
C205	.068 50V			WMF1S68	EWFA1A168	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

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
C217	.047 50V		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	NP03P3	CN0533		10TCC-V33
C226	.0047 50V		DD-472	GP4700	GP247		5GA-D47
C235	15 N150 50V	EA18X200			*		10TCP-Q15
C236	39 N150 50V	EA18X141			*		10TCP-Q39
C237	.0022 50V			DPMS6D22	EWFA222		6PS-D22
C238	.0022 50V			DPMS6D22	GP310		6PS-D22
C243	100 50V		DD-101	GP100	GP310		10TS-T10
C244	.047 50V		UK50-503		MAG5015		
C245	.27 50V				CN0427		10TCC-Q27
C246	.01 50V	(1)	DC-103	MGP01	TA110	QC2-141	TG-S10
CT101	.50V	EA30X52					

* 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.
RV101	Squelch Range	10K	EA49X330				
RV102	AMC	2000	EA49X331				
RV103	S Meter	20K	EA49X332				
RV104	RF Meter	20K	EA49X332				
VR1	Volume/Power Switch	50K	EA49X328				
VR2	Squelch/PA Switch	10K	EA49X329				

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L101	RF Choke (22uH)	EA36X234			
L103	Xmit Mixer (27MHz)	EA36X235			
L104	Xmit Mixer (27MHz)	EA36X236			
L105	RF Choke (2.2uH)	EA36X237			
L106	Xmit Driver (27MHz)	EA36X238			
L107	RF Choke (68uH)	EA36X239			
L108	RF Choke (1uH)	EA36X240			
L109	Final (27MHz)	EA36X241			
L110	Pi Filter (27MHz)	EA36X242			
L111	RF Choke (68uH)	EA36X239			
L112	IF (10.7MHz)	EA36X243			
L113	RF Choke (.75uH)	EA36X244			
L114	RF Choke (.75uH)	EA36X244			
L116	RF Choke (.55uH)	EA36X245			
T101	VCO (38MHz)	EA36X246			
T102	Xmit Mixer (27MHz)	EA36X247			
T103	Xmit Buffer (27MHz)	EA36X248			
T104	Rec Antenna (27MHz)	EA36X249			
T105	Rec RF (27MHz)	EA36X250			
T106	IF (10.7MHz)	EA61X187			
T107	IF (455kHz)	EA61X188			
T108	IF (455kHz)	EA61X189			
T109	IF (455kHz)	EA61X190			
T111	VCO Buffer (38MHz)	EA61X191			

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.	
CH101	1.35A	.12	.48mH	EA36X233 ELA-16(1)	TR523		(1) Number on unit.

PARTS LIST AND

(When ordering parts, state M

TRANSFORMER (A

ITEM No.	IMPEDANCE		
	PRI.	1	2
T110	2.88	8	13.5

SPEAKER

ITEM No.	TYPE
SP1	3" PM, 8 Ohms

FUSE DEVICES

ITEM No.	DESCRIPTION
F1	2 Amp

MICROPHONE

ITEM No.	RE	
	MFR. PART No.	PA
MIC	EA68X63	16

MISCELLANEOUS

ITEM No.	PART NAME
CF101	Ceramic Filter
J1	Jack
J2	Jack
J3	Jack
J4	Jack
J5	Jack
M1	Meter
PL1	Lamp
PL2	Lamp
PL3	Lamp
S1	Switch
S2	Switch
S3	Switch
S4	Switch
SW101	Switch
X101	Crystal
X102	Crystal
X103	Printed Circuit Board

CABINETS & CAB

ITEM
Cabinet Top
Cabinet Bottom
Escutcheon

WIRING DATA

General-use Hook-up Wire (a
Shielded Hook-up Wire (spir
Speaker Cable (available in
Bonding Strap
AC Power Cord

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	
C217	.047 50V	EA18X200 EA18X141	UK50-503	MGP01 NP03P3 GP4700	MAG5015	QC2-141	10TCC-Q39 TG-S10 10TCC-V33 5GA-D47 10TCP-Q15 10TCP-Q39 6PS-D22 6PS-D22 10TS-T10	
C218	.047 50V		UK50-503		MAG5015			
C219	.047 50V		UK50-503		MAG5015			
C220	.047 50V		UK50-503		MAG5015			
C223	39 50V		DC-103 DTZ-3R3 DD-472		CN0439			
C224	.01 50V				TA110			
C225	3 50V				CN0533			
C226	.0047 50V				GP247			
C235	15 N150 50V		DPMS6D22 DPMS6D22 GP100	*				
C236	39 N150 50V			*				
C237	.0022 50V			EWf6222				
C238	.0022 50V			EWf6222				
C243	100 50V			DD-101	GP310			
C244	.047 50V		UK50-503	MGP01	MAG5015			10TCC-Q27 TG-S10
C245	27 50V		DC-103		CN0427			
C246	.01 50V				TA110			
CT101	50V							

* 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	RESIST-ANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
RV101	Squelch Range	10K	EA49X330				
RV102	AMC	2000	EA49X331				
RV103	S Meter	20K	EA49X332				
RV104	RF Meter	20K	EA49X332				
VR1	Volume/Power Switch	50K	EA49X328				
VR2	Squelch/PA Switch	10K	EA49X329				

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L101	RF Choke (22uH)	EA36X234			
L103	Xmit Mixer (27MHz)	EA36X235			
L104	Xmit Mixer (27MHz)	EA36X236			
L105	RF Choke (2.2uH)	EA36X237			
L106	Xmit Driver (27MHz)	EA36X238			
L107	RF Choke (68uH)	EA36X239			
L108	RF Choke (1uH)	EA36X240			
L109	Final (27MHz)	EA36X241			
L110	Pi Filter (27MHz)	EA36X242			
L111	RF Choke (68uH)	EA36X239			
L112	IF (10.7MHz)	EA36X243			
L113	RF Choke (.75uH)	EA36X244			
L114	RF Choke (.75uH)	EA36X244			
L116	RF Choke (.55uH)	EA36X245			
T101	VCO (38MHz)	EA36X246			
T102	Xmit Mixer (27MHz)	EA36X247			
T103	Xmit Buffer (27MHz)	EA36X248			
T104	Rec Antenna (27MHz)	EA36X249			
T105	Rec RF (27MHz)	EA36X250			
T106	IF (10.7MHz)	EA61X187			
T107	IF (455kHz)	EA61X188			
T108	IF (455kHz)	EA61X189			
T109	IF (455kHz)	EA61X190			
T111	VCO Buffer (38MHz)	EA61X191			

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.	
CH101	1.35A	.12	.48mH	EA36X233 ELA-16(1)	TR523		(1) Number on unit.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T110	2.88	1 8 2 13.5	EA64X30 ETA-66(1)	TR723	MCB-16	(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP1	3" PM, 8 Ohms	EA95X115	30A05Z8R	

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 Amp	EA68X64	EA68X58	AGC2	HDJ	312002	150145	FG2-2

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA						
	MFR. PART No.	GC PART No.	GC NOISE CANCEL	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black
MIC	EA68X63	18-032	18-034	18-010	18-105	5	1	3	4	NC	1

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF101	Ceramic Filter	EA36X232	455kHz
J1	Jack	EA38X24	Antenna
J2	Jack	EA41X134	Microphone
J3	Jack	EA41X135	PA
J4	Jack	EA41X135	External Speaker
J5	Jack	EA41X136	Power
M1	Meter	EA62X145	S/Rf
PL1	Lamp	EA41X137	Channel (31mA @ 5.30V)
PL2	Lamp	EA41X137	Meter (56mA @ 5.30V)
PL3	Lamp	EA41X138	Xmit (30mA @ 5.15V)
S1	Switch		Power (Part of Volume Control)
S2	Switch	EA39X209	Delta Tune
S3	Switch	EA39X210	ANL
S4	Switch		PA (Part of Squelch Control)
SW101	Switch	EA55X131	Channel Selector
X101	Crystal	EA75X3	11.8066MHz
X102	Crystal	EA75X4	10.695MHz
X103	Crystal	EA75X5	10.240MHz
	Printed Circuit Board	EA93X276	Main (PTBM042A0X)

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

ITEM	PART No.	ITEM	PART No.
Cabinet Top	EA98X459	Knob, Control	EA43X638
Cabinet Bottom	EA98X460	Knob, Channel	EA43X637
Escutcheon	EA89X251	Mounting Bracket	EA68X56
		Microphone Hanger	EA68X65

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')

GENERAL ELECTRIC MODEL 3-5810B