

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 13-882B

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:	GC ELECTRONICS
L12 thru L16	5000, 8290
L7 thru L9	9300
L1 thru L6, L10, L11	9440

MIDLAND MODEL 13-882B

RECEIVER

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
Adjustments made with 14-volt DC input.
Adjust volume control to obtain suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01uF to base of Q21, low side to ground.	455kHz, 1000Hz @ 30% modulation.	Any	L14, L15, L16	Set generator output low enough to prevent AGC limiting. Adjust for maximum.
High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation.	CH13	L10, L11, L12, L13	Adjust for maximum.

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

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RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
These adjustments made with 14-volt DC input.
Adjust volume control to obtain a suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
SQUELCH RANGE High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 200uV.	13	RV1	Set squelch control fully clockwise. Adjust so that squelch just breaks.
S METER	27.115MHz 1000Hz @ 30% modulation, 100uV output.	13	RV3	Set for S9 meter reading.

TRANSMITTER

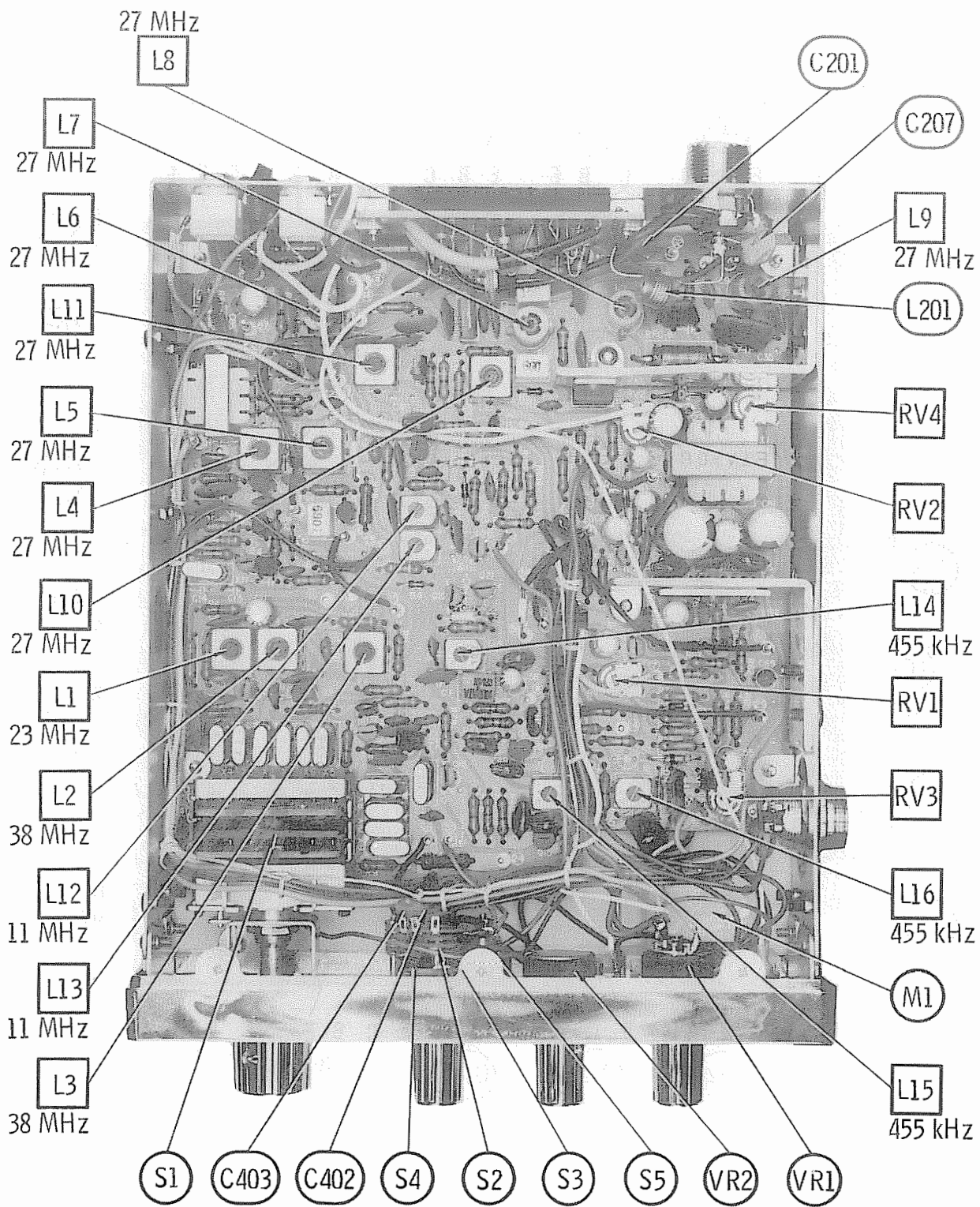
Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

INDICATOR	ADJUST	REMARKS
OSCILLATOR, MIXER, BUFFER, DRIVER, FINAL RF Wattmeter	L1,L2,L3, L4,L5,L6, L7,L8,L9	Channel selector to CH. 13. Key transmitter. Adjust for maximum.
FINAL INPUT POWER Remove jumper at TP1 and connect 0-1500 DC milliammeter.	L9	Adjust for 5 watts (max.). Current in final amp should not exceed 950 mA.

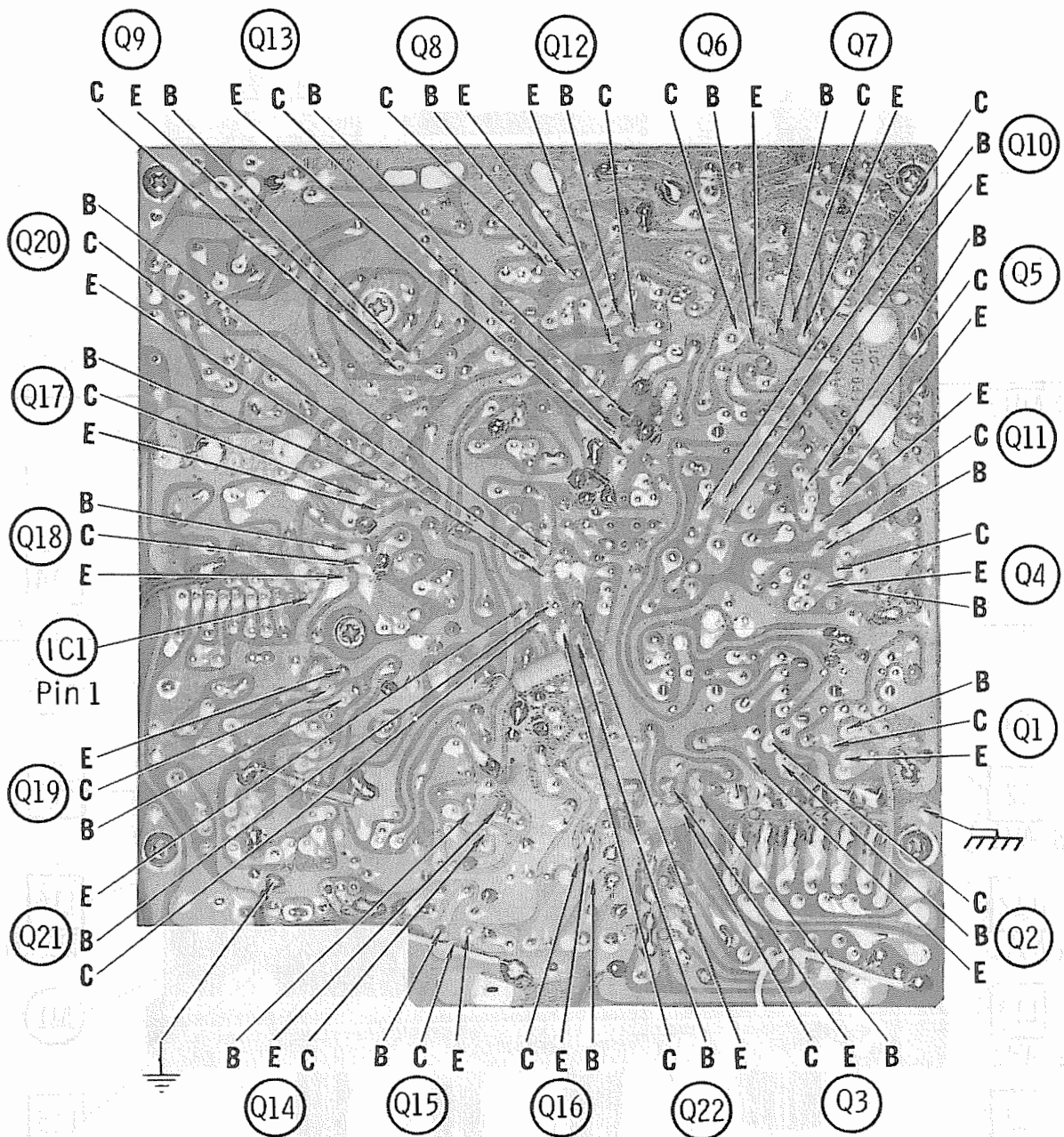
TRANSMITTER ADJUSTMENTS

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input.

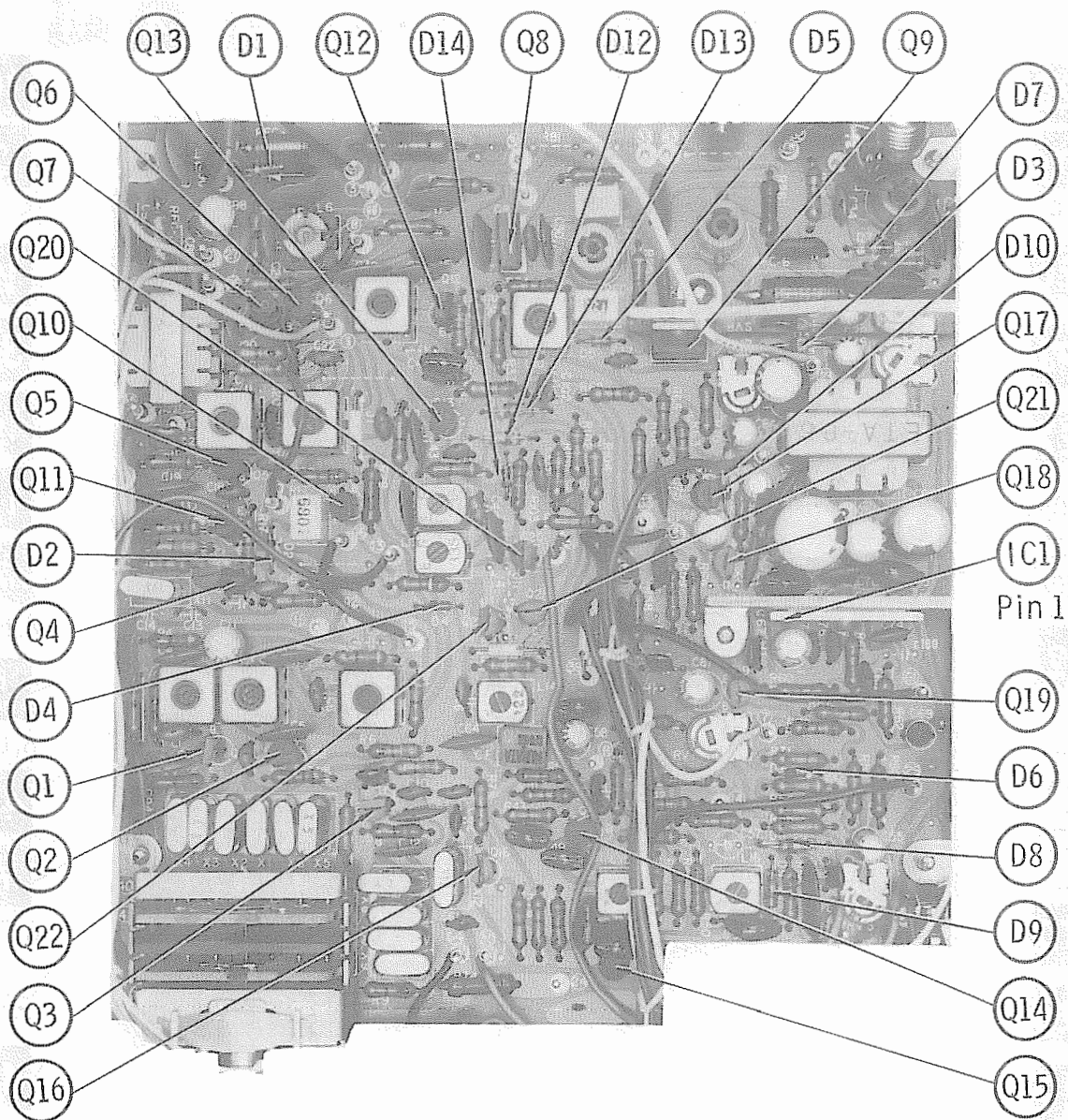
INDICATOR	ADJUST	REMARKS
AMC Modulation meter connected to antenna jack.	RV2	Inject a 1000Hz, 20mV audio signal at mic input. Key transmitter. Adjust for 90% modulation maximum.
RF PANEL METER RF Wattmeter	RV4	Key transmitter. Adjust so that panel RF meter agrees with RF wattmeter.
ANT WARNING 50-ohm Load	RV301	Reduce 14V DC input to 10V DC. Adjust for warning light to indicate when antenna jack is open or shorted.



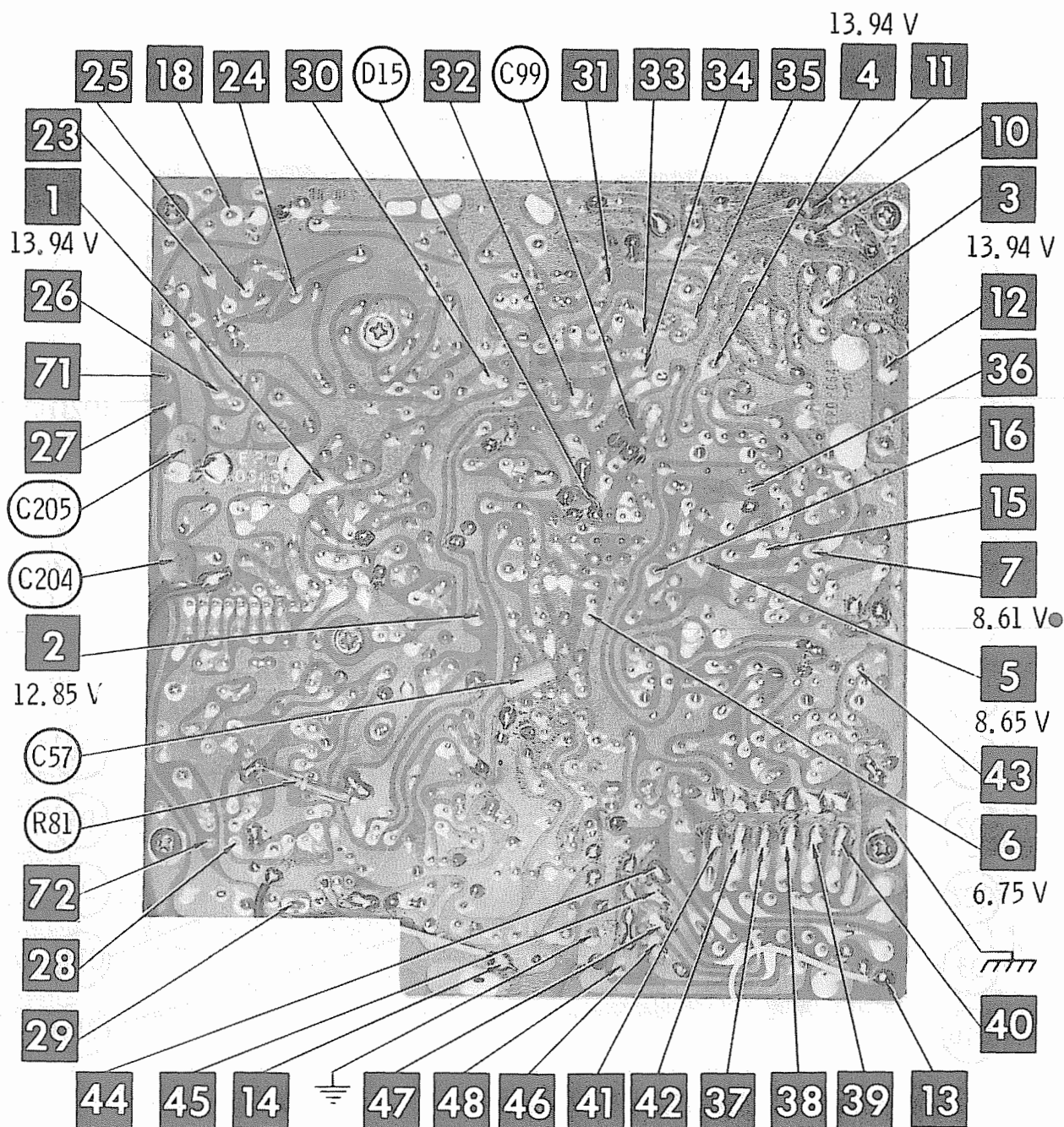
CHASSIS - BOTTOM



MAIN BOARD

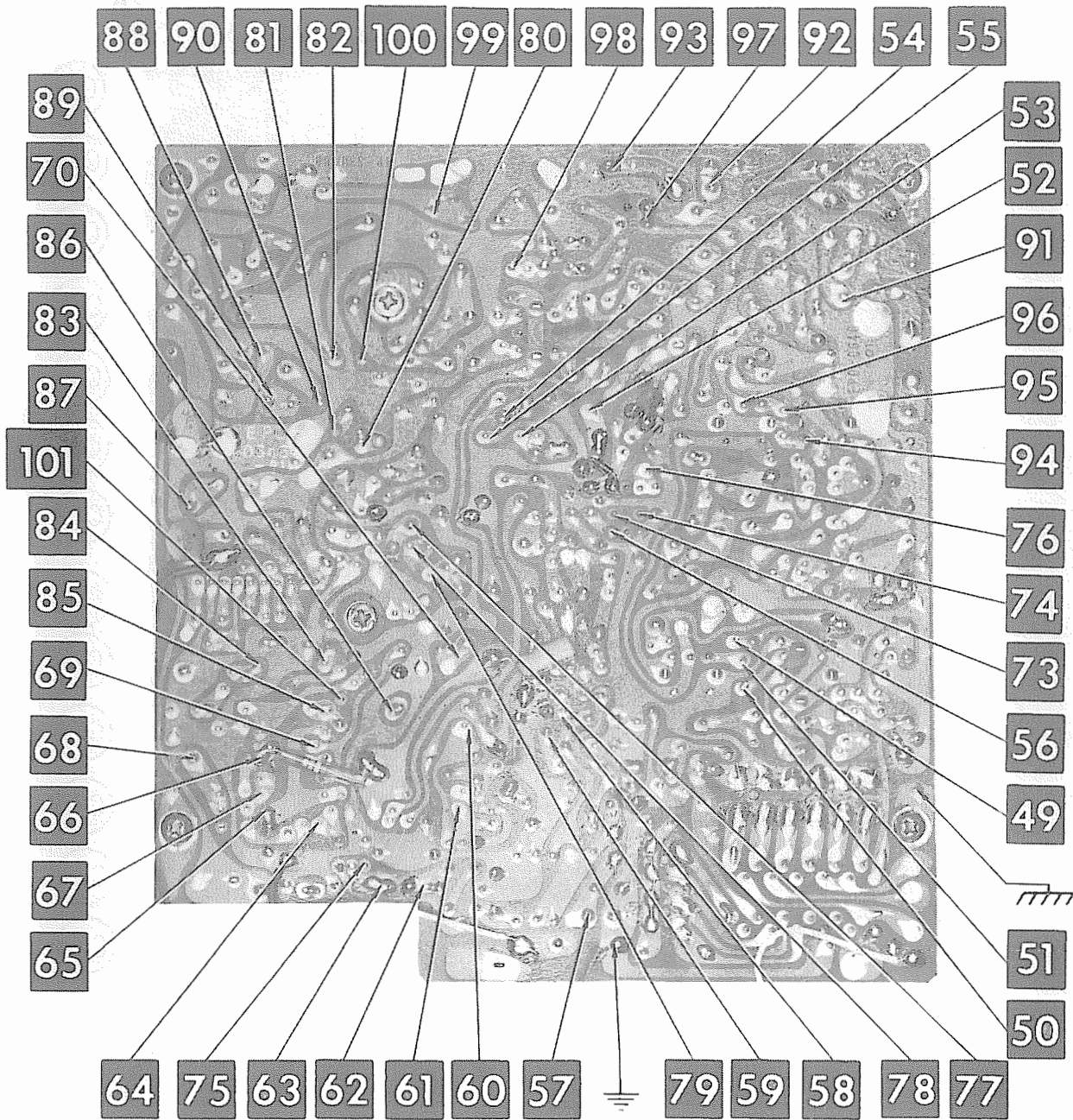


MAIN BOARD

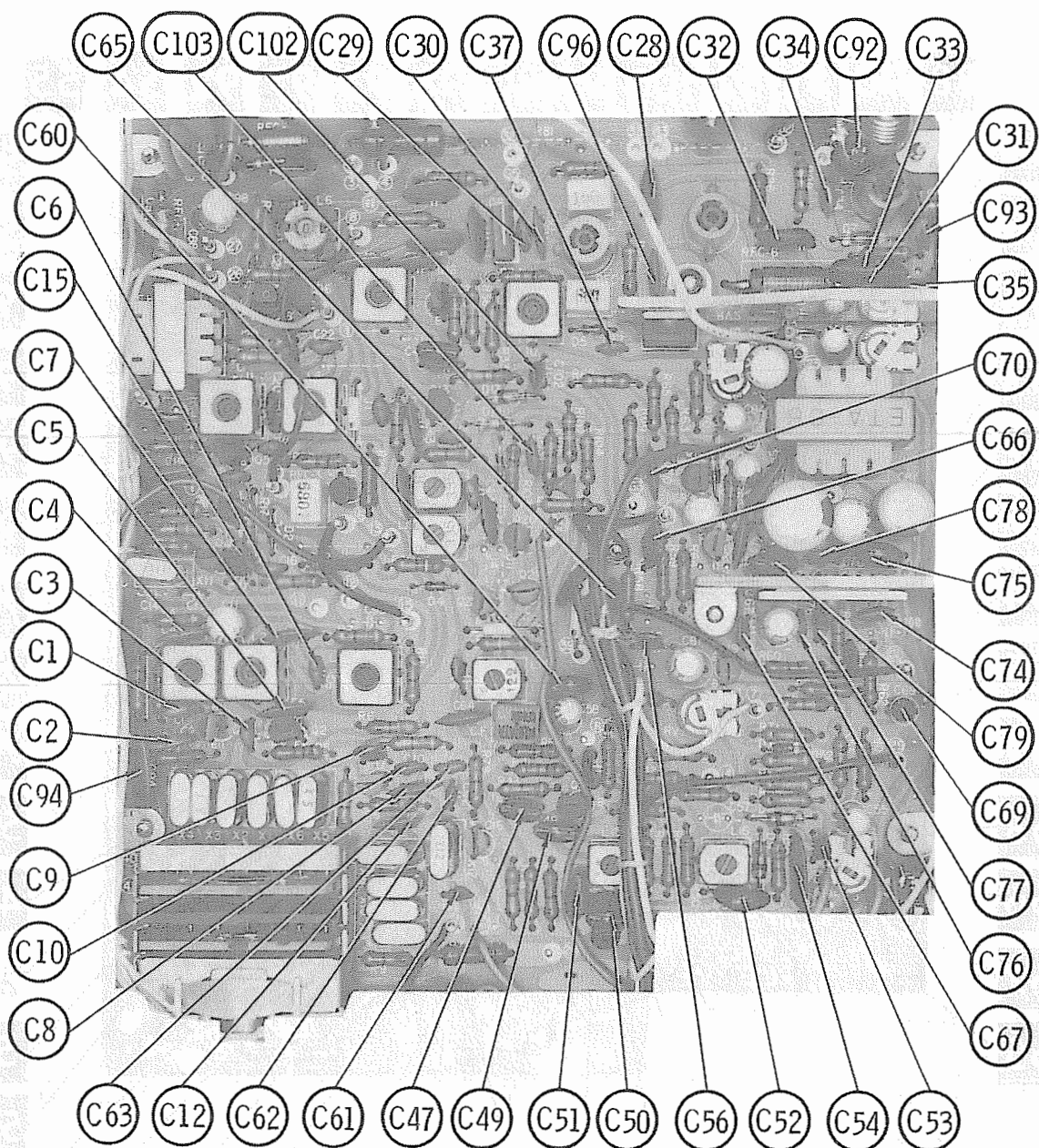


● TRANSMIT

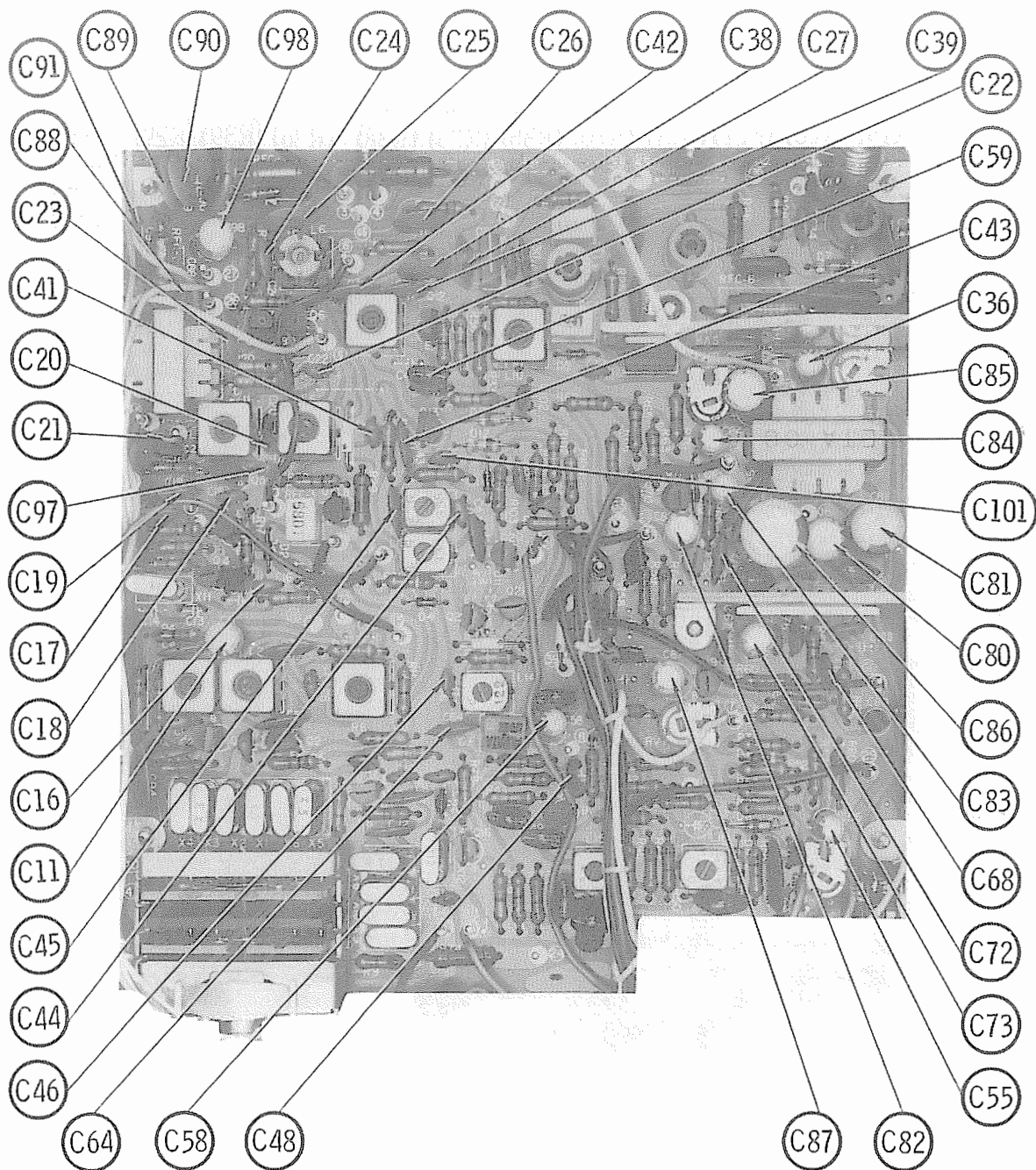
MAIN BOARD



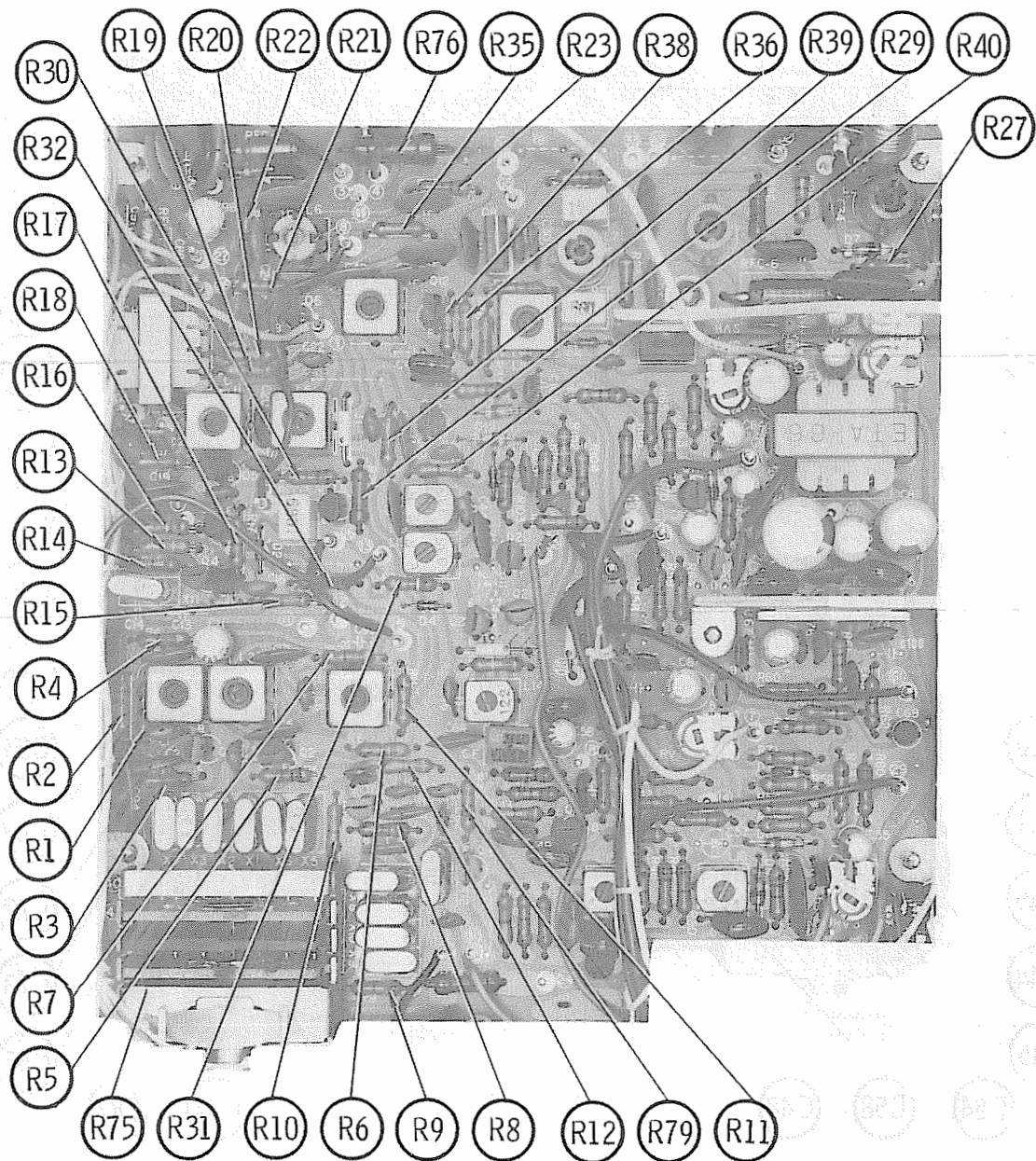
MAIN BOARD



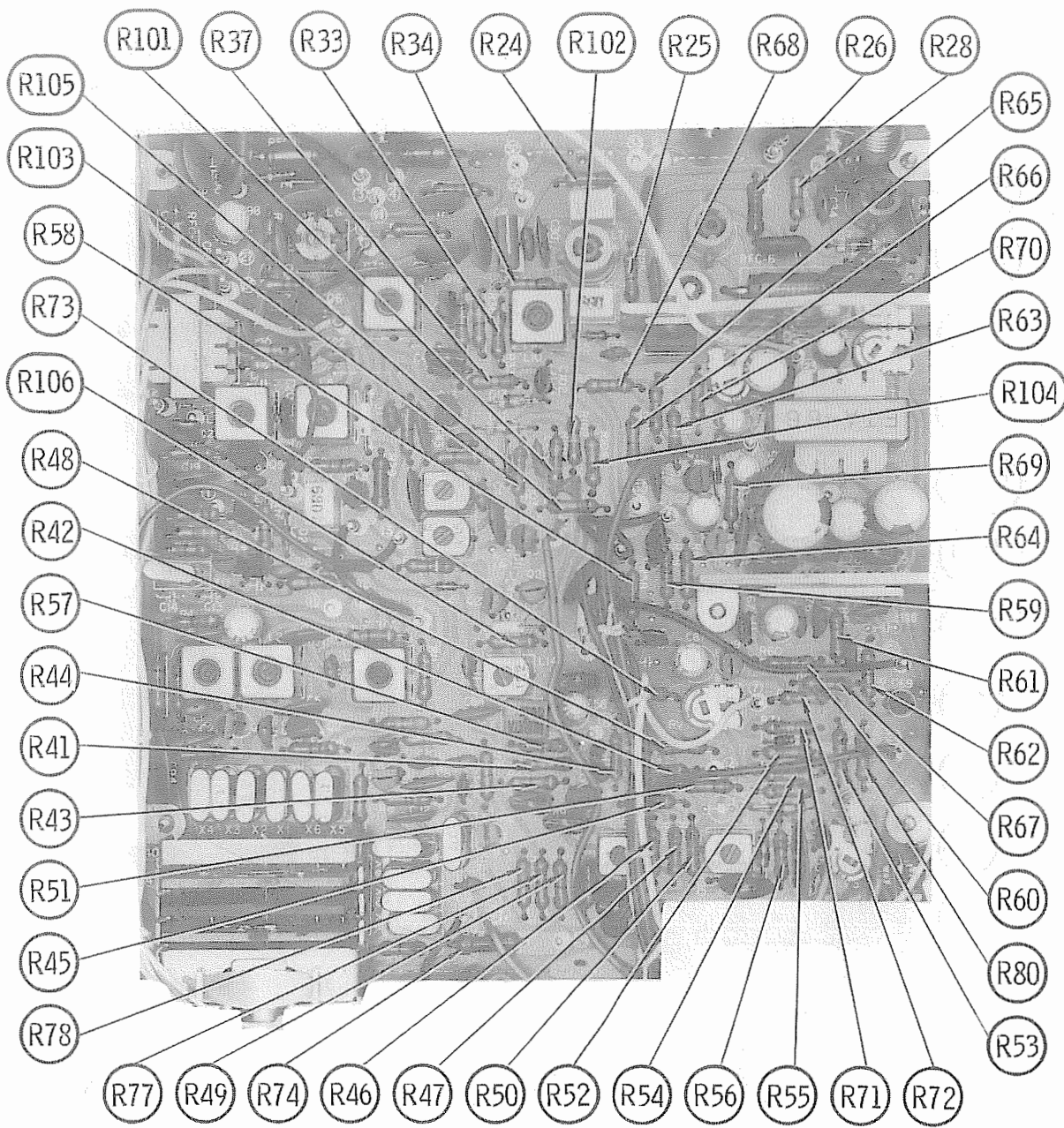
MAIN BOARD



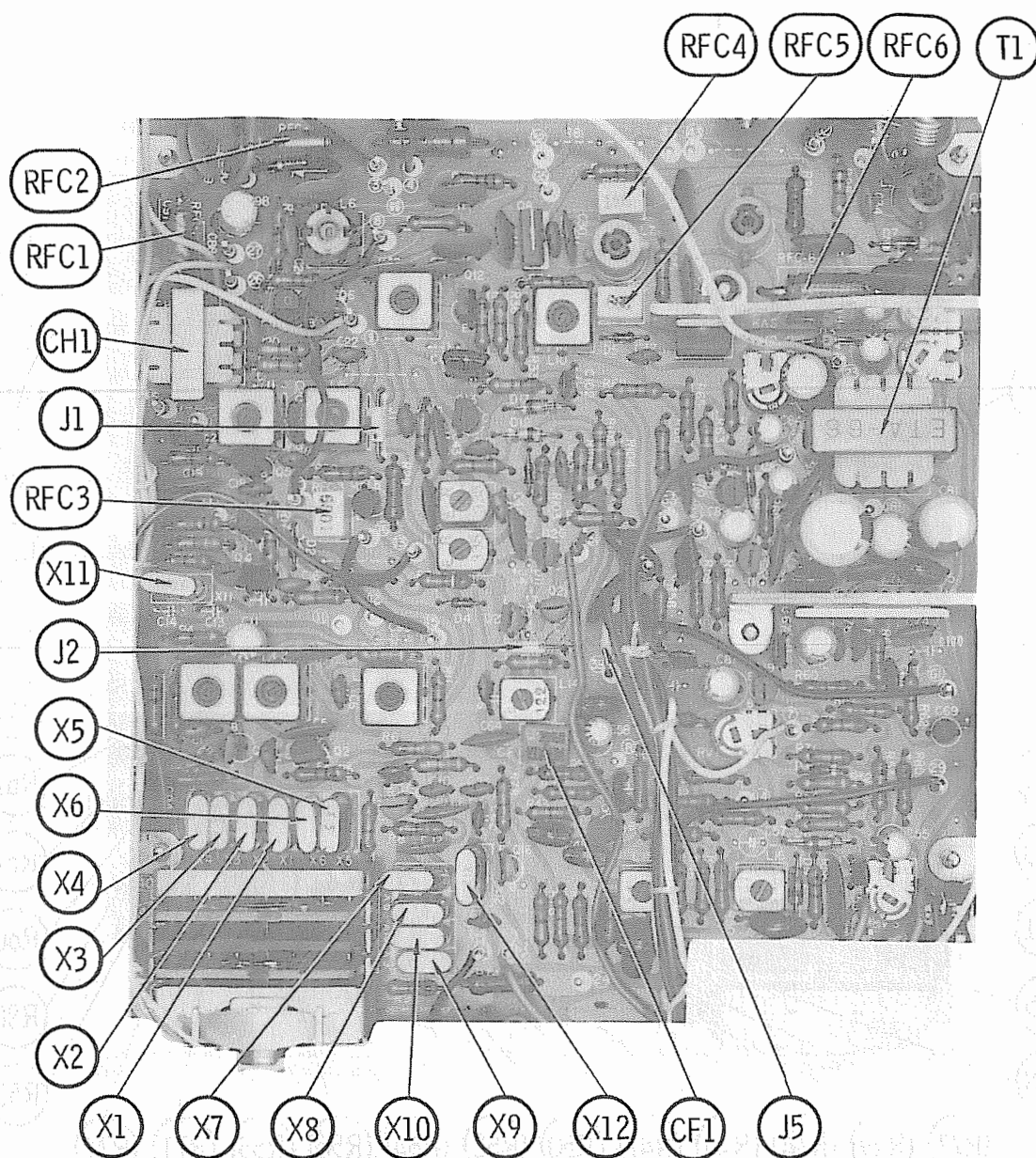
MAIN BOARD



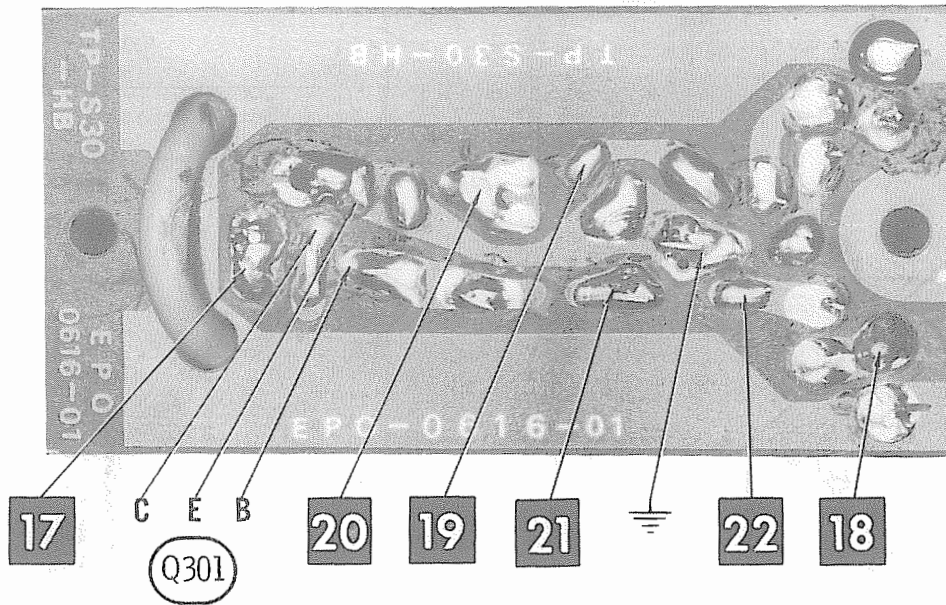
MAIN BOARD



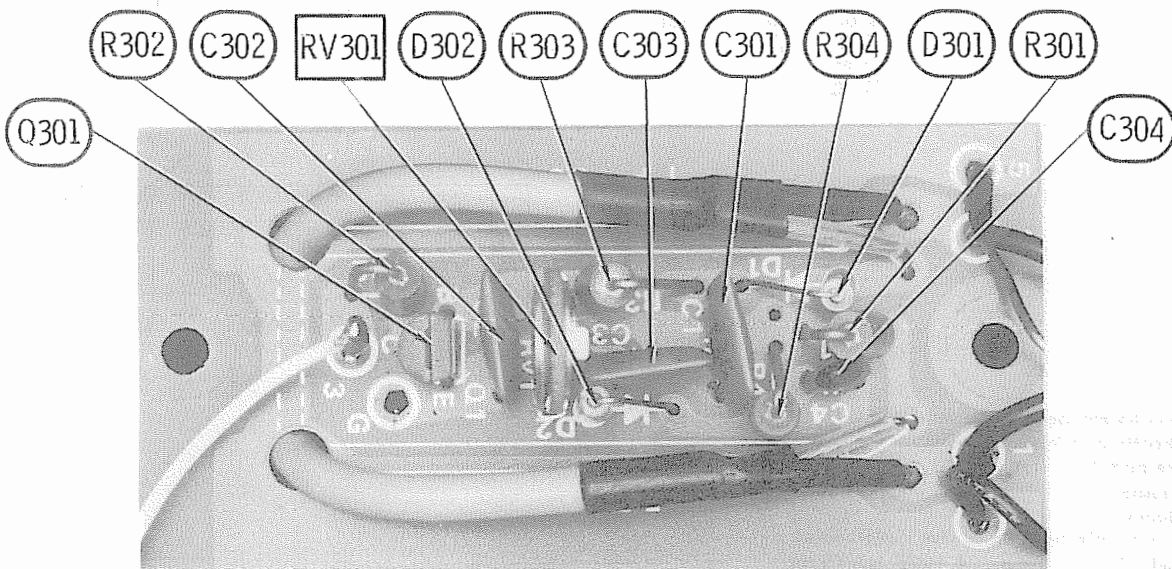
MAIN BOARD



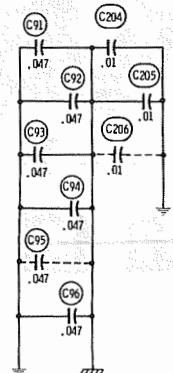
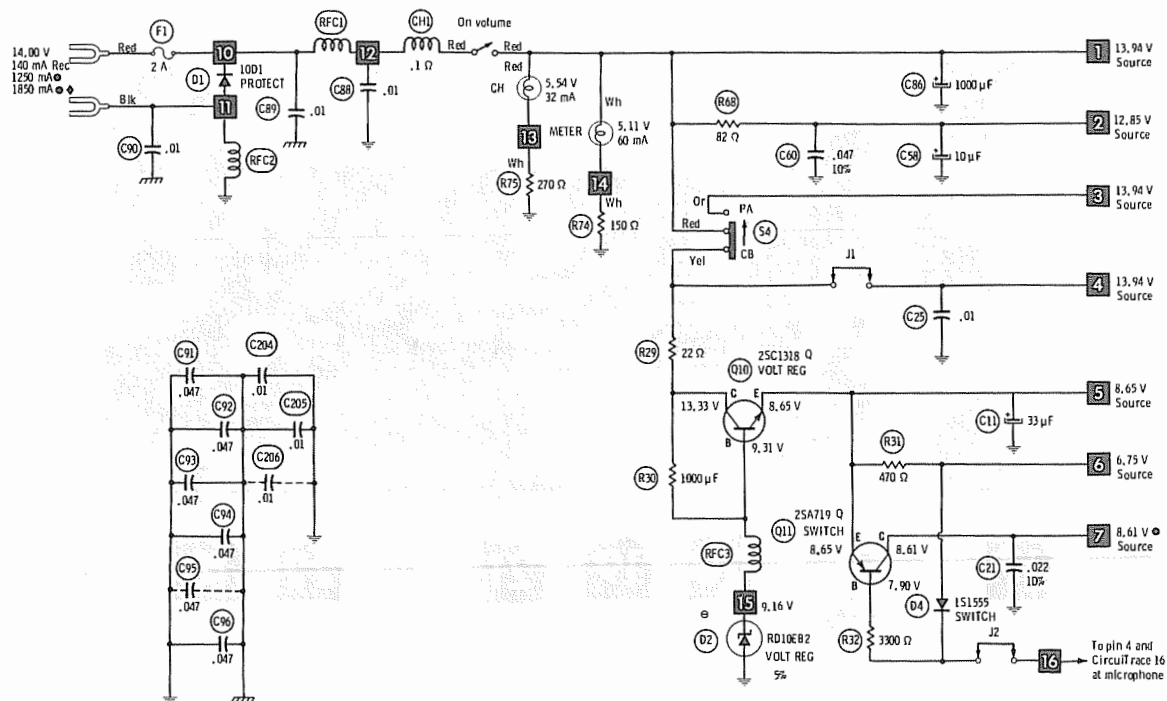
MAIN BOARD



MIDLAND MODEL 13-882B



ANTENNA WARNING BOARD



Terminal Guides



Q1, Q3
Q4, Q11
Q16, Q17
Q18, Q19
Q20, Q21
Q22, Q301
Bottom view



Q2, Q5
Q6, Q13
Q14, Q15
Bottom view



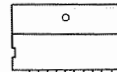
Q7
Bottom view



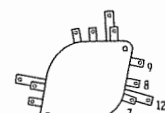
Q8, Q9
Front view



Q12
Front view



IC1
Side view



S2
Rear view

Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	X1, X7	7	X2, X9	13	X4, X7	19	X5, X9
2	X1, X8	8	X2, X10	14	X4, X8	20	X5, X10
3	X1, X9	9	X3, X7	15	X4, X9	21	X6, X7
4	X1, X10	10	X3, X8	16	X4, X10	22	X6, X8
5	X2, X7	11	X3, X9	17	X5, X7		
6	X2, X8	12	X3, X10	18	X5, X8	23	X6, X10

—X— Circuitry not used in some versions

--- Circuitry used in some versions

⊕ See parts list

⊕ Ground

⊕ Chassis

Measurements with switching as shown unless noted:

⊕ Squelch fully clockwise ⊕ 100% modulation

⊕ Transmit

Supply voltage maintained as shown at input.

Voltages measured with digital meter, no signal.

Controls adjusted for normal operation.

Arrow at control indicates direction of advance.

Terminal identification may not be found on unit.

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

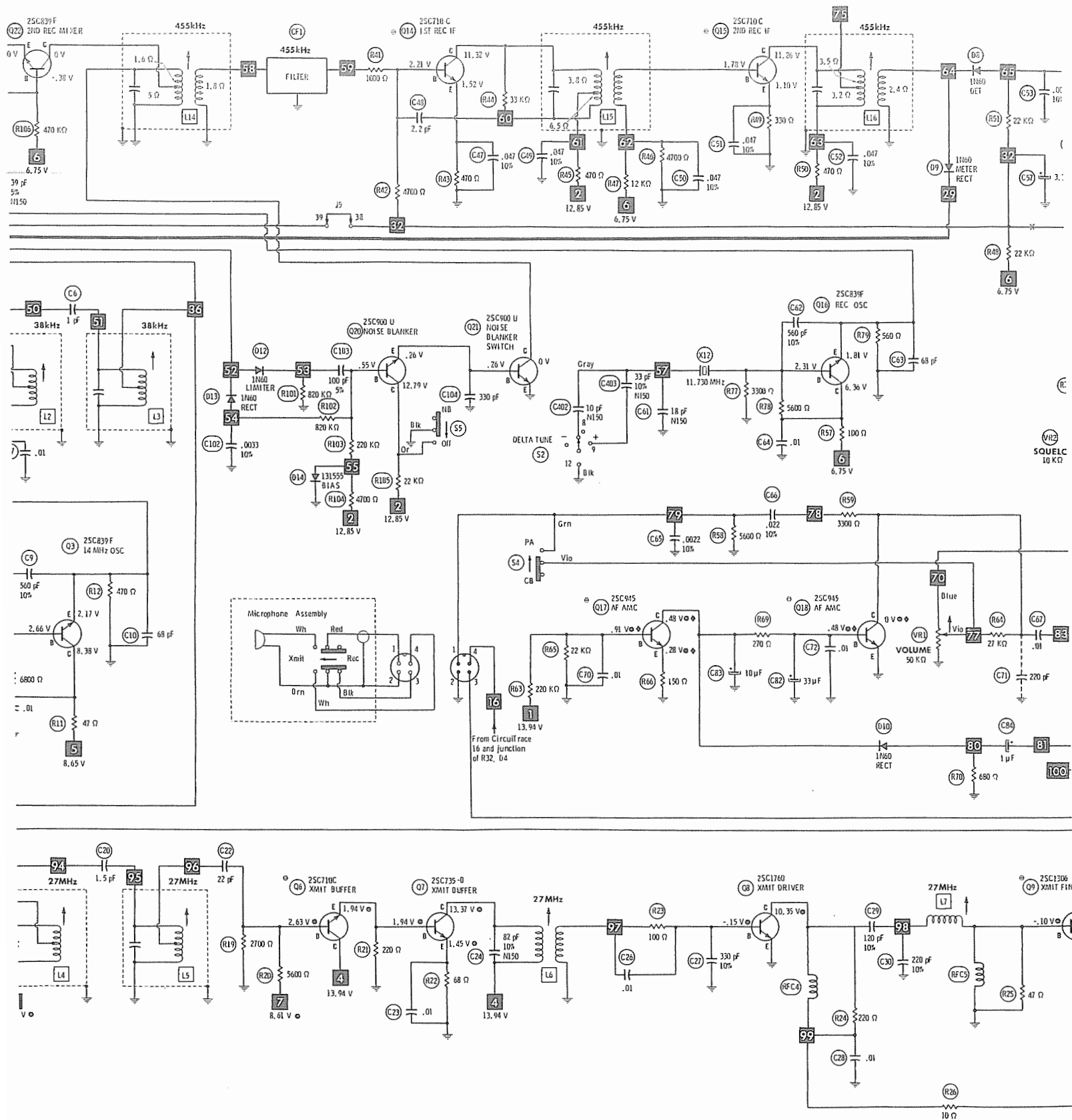
Value in () used in some versions.

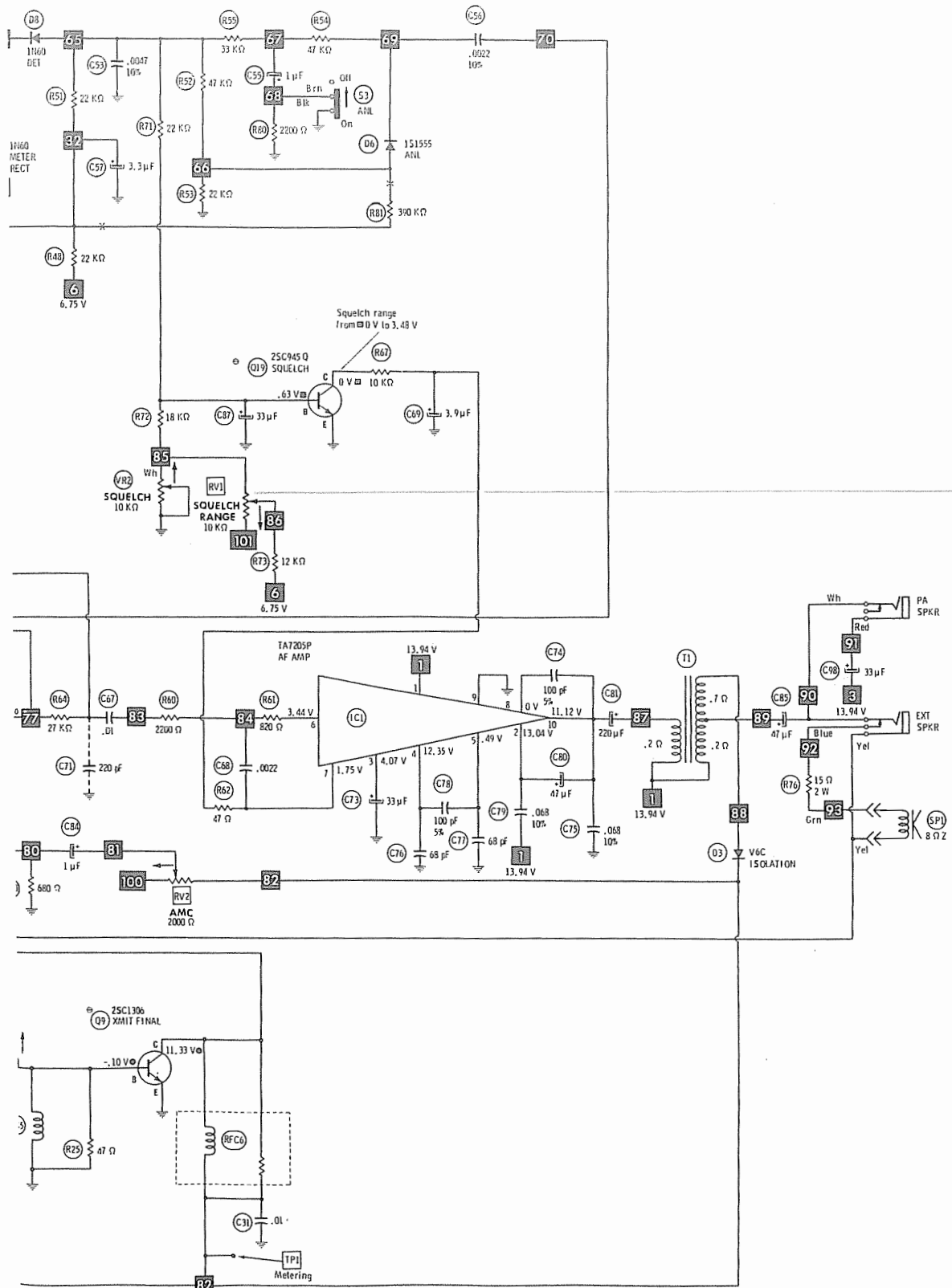
A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH CIRCUITACE

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PARTS LIST AND DESCRIPTION

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

PARTS LI

(When ordering

WIRING DATA

General-use Hook-up Wire	Use BELDEN No.	8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Power Cord, 2-Wire	Use BELDEN No.	17106 (Plastic) or 17126 (Rubber) -6 feet 17109 (Plastic) or 17129 (Rubber) -9 feet
Shielded Antenna Lead	Use BELDEN No.	8214 Lowest-Loss (RG-8/U Type) 8237 Low-Loss (RG-8/U) 8240 (Solid) Miniature (RG-58/U) 8259 (Stranded) Miniature (RG-58A/U)
Coiled Microphone Cable	Use BELDEN No.	8491 4-Conductor (2 shielded, 2 unshielded) Neoprene

ELECTRO

ITEM No.	
C11	33
C36	1
C55	1
C57	3.
C58	10
C69	3.
C73	33
C80	47
C81	22
C82	33
C83	10
C84	1
C85	47
C86	10
C87	33
C98	33

SEMICONDUCTORS (Select replacement transistor for best results)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA							
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	1001		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D2	R010EB-2 (10 Volts 5% Zener)		GEZD-10		ZB10B				RT-241	ECG140
D3	V6C		GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-210	ECG116
D4	1S1555		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D5	1S1555		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D6	1S1555		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D7	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D8	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D9	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D10	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D12	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D13	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D14	1S1555		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D15	1S1555		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D301	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
O302	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
IC1	TA7205P									ECG1155
Q1	2SC839F		GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q2	2SC710C		GE-211	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-105	ECG123A
	2SC829	(1)	GE-20	TR-24	PTC132	HEPS0011	RE 9	SK3018	RT-105	ECG229
	2SC839	(1)	GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q3	2SC839F		GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q4	2SC839F		GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q5	2SC710C		GE-211	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-105	ECG123A
	2SC829	(1)	GE-20	TR-24	PTC132	HEPS0011	RE 9	SK3018	RT-105	ECG229
	2SC839	(1)	GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q6	2SC710C		GE-211	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-105	ECG123A
	2SC839	(1)	GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-105	ECG123A
Q7	2SC735-0		GE-210	TR-21	PTC123	HEPS0015	RE 13	SK3018	RT-107A	ECG289
Q8	2SC1760	(10)	GE-215		PTC186		RE 203			ECG306
Q9	2SC1306	(11)	GE-215		PTC186		RE 203			ECG235
	2SC1816	(1)	GE-215		PTC186		RE 203			ECG235
Q10	2SC1318Q		GE-210	TR-25	PTC123	HEPS0015	RE 17	SK3122	RT-114	ECG297
Q11	2SA719Q		GE-21	TR-30	PTC103	HEPS0019	RE 18	SK3114	RT-126A	ECG159
Q12	2SC460B		GE-210	(1R)2SC460B	PTC136	HEPS0014	RE 9	SK3018	RT-187	ECG233
	2SC710	(1)	GE-211	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-105	ECG123A
Q13	2SC710C		GE-211	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-105	ECG123A
	2SC460B	(1)	GE-210	(1R)2SC460B	PTC136	HEPS0014	RE 9	SK3018	RT-187	ECG233
Q14	2SC710C		GE-211	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-105	ECG123A
	2SC829	(1)	GE-20	TR-24	PTC132	HEPS0011	RE 9	SK3018	RT-105	ECG229
	2SC839	(1)	GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q15	2SC710C		GE-211	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-105	ECG123A
	2SC829	(1)	GE-20	TR-24	PTC132	HEPS0011	RE 9	SK3018	RT-105	ECG229
	2SC839	(1)	GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q16	2SC839F		GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q17	2SC945R		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
	2SC828	(1)	GE-61	(1R)2SC828A	PTC132	HEPS0015	RE 64	SK3122	RT-172	ECG199
Q18	2SC945Q		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
	2SC828	(1)	GE-61	(1R)2SC828A	PTC132	HEPS0015	RE 64	SK3122	RT-172	ECG199
Q19	2SC945Q		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
	2SC828	(1)	GE-61	(1R)2SC828A	PTC132	HEPS0015	RE 64	SK3122	RT-172	ECG199
Q20	2SC900U		GE-62	TR-24	PTC132	HEPS0015	RE 13	SK3124	RT-172	ECG199
Q21	2SC900U		GE-62	TR-24	PTC132	HEPS0015	RE 13	SK3124	RT-172	ECG199
Q22	2SC839F		GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q301	2SC945P		GE-210	TR-21	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199

- (1) Used in some versions.
 (10) Rating, 950mw @ 500 mA.
 (11) Rating, 12 watts @ 3.0 amps.

CAPACIT

ITEM No.	
C1	2
C2	220
C3	6
C4	.01
C5	.01
C6	1
C7	.01
C8	.01
C9	560
C10	68
C12	220
C15	.00
C16	68
C17	.01
C18	68
C19	.01
C20	1.5
C21	.02
C22	22
C23	.01
C24	82
C25	.01
C26	.01
C27	330
C28	.01
C29	120
C30	220
C31	.01
C32	100
C33	270
C34	4
C35	.00
C37	27
C38	.01
C39	.01
C40	.01
C41	12
C42	.01
C43	.01
C44	2
C45	.01
C46	39
C47	.04
C48	2.2
C49	.04
C50	.04
C51	.04

PARTS LIST AND DESCRIPTION (CONTINUED)

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

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFGR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C11	33 16V		PC30-25	VTT33D25	EV-1325
C36	1 50V		PC1-50	MTV1C850	EV-1615
C55	1 50V		PC1-50	MTV1C850	EV-1615
C57	3.3 25V		PC50-50	VTT47F35	EV-1426
C58	10 16V		PC10-25	VTT10A25	EV-1222
C69	3.9 25V			TDC335M035FL	SD35-3R99
C73	33 6.3V		PC30-25	VTT33A10	EV-1125
C80	47 16V		PC50-16	VTT47D16	EV-1226
C81	220 10V		PC250-25	VTT220G16	EV-1240
C82	33 6.3V		PC30-25	VTT33A10	EV-1125
C83	10 16V		PC10-25	VTT10A25	EV-1222
C84	1 50V		PC1-50	MTV1C850	EV-1615
C85	47 16V		PC50-16	VTT47D16	EV-1226
C86	1000 16V		PC1000-16	VTT1000L16	EV-1260
C87	33 6.3V		PC30-25	VTT33A10	EV-1125
C98	33 16V		PC30-25	VTT33D25	EV-1325

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	2		DD-221		GP322	10TS-T22
C2	220 10%		DTZ-6R8	NP06P8		10TCC-V68
C3	6					10TS-S10
C4	.01					10TS-S10
C5	.01				CN0510	10TCC-V10
C6	1					10TS-S10
C7	.01					10TS-S10
C8	.01					10TS-S10
C9	560 10%			CD19FD561J03	SX356	424ME5600J501
C10	68		DTZ-68	NP068	CN0468	10TCC-Q68
C12	220 10%		DD-221		GP322	10TS-T22
C15	.001 10%			OPMS4S1	EWFA1A110	1PB-S10
C16	68		DTZ-68	NP068	CN0468	10TCC-Q68
C17	.01					10TS-S10
C18	68		DTZ-68	NP068	CN0468	10TCC-Q68
C19	.01					10TS-S10
C20	1.5		DTZ-1R5	NP01P5	CN0515	10TCC-V15
C21	.022 10%			OPMS2S22	EWFA1A122	1PB-S22
C22	22		DTZ-22	NP022	CN0422	10TCC-Q22
C23	.01					10TS-S10
C24	82 10% N150				*	10TCR-Q82
C25	.01					10TS-S10
C26	.01					10TS-S10
C27	330 10%		DD-331	GP330	GP333	10TS-T33
C28	.01					10TS-S10
C29	120 10%		DTZ-120		CN0312	10TCC-T12
C30	220 10%		DD-221		GP322	10TS-T22
C31	.01					10TS-S10
C32	100 10%			CD10FD101J03	SX310	424MC1000J501
C33	270 10%			CD15FD271J03	SX327	424ME2700J501
C34	4		DTZ-4R7	NP04P7	CN0537	10TCC-V47
C35	.0047					10TS-D47
C37	27		DTZ-82	NP082	CN0482	10TCC-Q82
C38	.01					10TS-S10
C39	.01					10TS-S10
C40	.01					10TS-S10
C41	12				CN0412	10TCC-Q12
C42	.01					10TS-S10
C43	.01					10TS-S10
C44	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C45	.01					10TS-S10
C46	39 5% N150					
C47	.047 10%			DPMS2S47	EWFA1A147	1PB-S47
C48	2.2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C49	.047 10%			DPMS2S47	EWFA1A147	1PB-S47
C50	.047 10%			DPMS2S47	EWFA1A147	1PB-S47
C51	.047 10%			DPMS2S47	EWFA1A147	1PB-S47

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.
C52	.047 10%			DPMS2S47	EWFA1A147	1PB-S47
C53	.0047 10%			DPMS6D47	EWFA1A247	1PB-D47
C54	.022			DPMS2S22	EWFA1A122	1PB-S22
C56	.022 10%			DPMS2S22	EWFA1A122	1PB-S22
C59	.047 10%			DPMS2S47	EWFA1A147	1PB-S47
C60	.047 10%			DPMS2S47	EWFA1A147	1PB-S47
C61	18 N150					
C62	560 10%			CD19FD561J03	SX356	424ME5600J501
C63	68		DTZ-68	NP068	CN0468	10TCC-Q68
C64	.01					10TS-S10
C65	.0022 10%				GP222	10TS-D22
C66	.022 10%			DPMS2S22	EWFA1A122	1PB-S22
C67	.01 10%			DPMS4S1	EWFA1A110	1PB-S10
C68	.0022				GP222	10TS-D22
C70	.01					10TS-S10
C71	220					
C72	.01					10TS-S10
C74	100		DD-101	GP100	GP310	10TS-T10
C75	.068 10%			DPMS4S68	EWFA1A168	1PB-S68
C76	68		DTZ-68	NP068	CN0468	10TCC-Q68
C77	68		DTZ-68	NP068	CN0468	10TCC-Q68
C78	100 5%		DTZ-100	NP0100	CN0310	10TCC-T10
C79	.068			DPMS4S68	EWFA1A168	1PB-S68
C88	.01					10TS-S10
C89	.01					10TS-S10
C90	.01					10TS-S10
C91	.047		DC-503	MGP05	MAG5015	TGL-S50
C92	.047		DC-503	MGP05	MAG5015	TGL-S50
C93	.047		DC-503	MGP05	MAG5015	TGL-S50
C94	.047		DC-503	MGP05	MAG5015	TGL-S50
C95	.047		DC-503	MGP05	MAG5015	TGL-S50
C96	.01					10TS-S10
C97	22		DTZ-22	NP022	CN0422	10TCC-Q22
C99	39 5% N150				*	10TCR-Q39
C101	7		DTZ-6R8	NP06P8	CN0568	10TCC-V68
C102	.0033 10%			DPMS6D33	EWFA1A233	1PB-D33
C103	10 5%		DTZ-10	NP010	CN0410	10TCC-Q10
C104	330		DD-331	GP330	GP333	10TS-T33
C201	180 10%			C07F0181J03	SX318	424ME1800J501
C204	.01					10TS-S10
C205	.01					10TS-S10
C206	.01					10TS-S10
C207	33 10% N150				*	10TCR-Q33
C301	.01					10TS-S10
C302	.01					10TS-S10
C303	.01					10TS-S10
C304	2 NPO		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C402	10 N150				*	10TCR-Q10
C403	33 10% N150				*	10TCR-Q33

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

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.	TRW PART No.
RV1	Squelch Range	10K	13-164120			
RV2	AMC	2000	13-164124			
RV3	"S"	20K	13-164125			
RV4	RF Meter	20K	13-164125			
RV301	Antenna Warning	10K	13-164126	TSV-10K or T-10K	C-103	MTC14L1
VR1	Volume/Power Switch	50K	13-160124			
VR2	Squelch	10K	13-166064			

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

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.	
L1	Synth Osc (23MHz)	13-170211	ETR0336		
L2	Synth Mixer (38MHz)	13-176483			
L3	Synth Mixer (38MHz)	13-176484	ETR0338		
L4	Xmit Mixer (27MHz)	13-176485	ETR0339		
L5	Harmonic Sup (27MHz)	13-176486	ETR0340		
L6	Xmit Buffer (27MHz)	13-176487	0341		
L7	Xmit Driver (27MHz)	13-176488			
L8	Xmit Antenna (27MHz)	13-176489			
L9	Pi Filter (27MHz)	13-176490			
L10	Rec Ant (27MHz)	13-176491	ETR0333		
L11	Rec RF (27MHz)	13-176492	ETR0334		
L12	Rec Mixer (11MHz)	13-176493	ER335		
L13	Rec Mixer (11MHz)	13-176493	ER335		
L14	IF (455kHz)	13-090362	122		
L15	IF (455kHz)	13-09063	123		
L16	IF (455kHz)	13-090364	129		
L201	Antenna Load				
RFC1	RF Choke	13-178203			
RFC2	RF Choke	13-178203			
RFC3	RF Choke	13-178204			
RFC4	RF Choke	13-178205			
RFC5	RF Choke	13-178204			
RFC6	RF Choke	13-178206			

MIDLAND MODEL 13-882B

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	1.8A	.1	.37mH	13-178202 ELA-16 (1)			(1) Number on unit.

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	32	8	13-096193 ETA-66 (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3" PM, 8 Ohms	13-060105	30A05Z8R	

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	2A, Fast Acting			AGC2	HDJ	312002	150145	FG2-2	

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	23.290	13-128318	MA20W23.290	1,2,3,4	X7	14.950	13-128324	MBSSW14.950	1,5,9,13,17,21
X2	23.340	13-128319	MA20W23.340	5,6,7,8	X8	14.960	13-128325	MBSSW14.960	2,6,10,14,18,22
X3	23.390	13-128320	MA20W23.390	9,10,11,12	X9	14.970	13-128326	MBSSW14.970	3,7,11,15,19
X4	23.440	13-128321	MA20W23.440	13,14,15,16	X10	14.990	13-128327	MBSSW14.990	4,8,12,16,20,23
X5	23.490	13-128322	MA20W23.490	17,18,19,20	X11	11.275	13-128328	MC80W11.275	Xmit Osc.
X6	23.540	13-128323	MA20W23.540	21,22,23	X12	11.730	13-128329	MC80W11.730	Rec. Osc.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter	13-179057	455kHz
M1	Meter	13-200066	S/R
S1	Switch	13-180101	Channel Selector
S2	Switch	13-180100	Delta Tune
S3	Switch	13-183211	ANL
S4	Switch	13-183211	PA-CB
S5	Switch	13-183211	NB
	Printed Circuit Board	EP00646-01	

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Microphone	13-038074	
Cord (W/Fuse), DC Power	13-034083	

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

ITEM	PART No.	ITEM	PART No.
Case, Top	13-011021	Plate, Channel Back	13-020640
Case, Bottom	13-016011	Knob, Channel (Assembly)	13-115121
Case, Front	13-010280	Knob, Controls	13-110188
Panel, Front	13-020638	Handle	13-028005
Plate, Channel	13-115124	Holder, Microphone	13-158419