

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 13-882

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

GC ELECTRONICS

L11, L17, L18, L19 .. 5000, 8290

ALL Others 9440

MIDLAND MODEL 13-882

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 antenna jack, low side to ground.	27.115MHz 1000 Hz @ 30% modulation output	13	L13,L14, L15,L16, L17,L18, L19	
Frequency Counter TP2 to ground.			VCa	Set fine tuning to mid-range. Adjust for 11.750MHz.

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

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RECEIVER ADJUSTMENTS

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
SQUELCH RANGE High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000 Hz @ 30% modulation output 20,000 uV.	13	RV4	Set squelch control fully clockwise. Adjust so that squelch just breaks.
"S" Meter	27.115MHz 1000 Hz @ 30% modulation output 100 uF	13	RV5	Adjust for "S9" reading on panel meter.

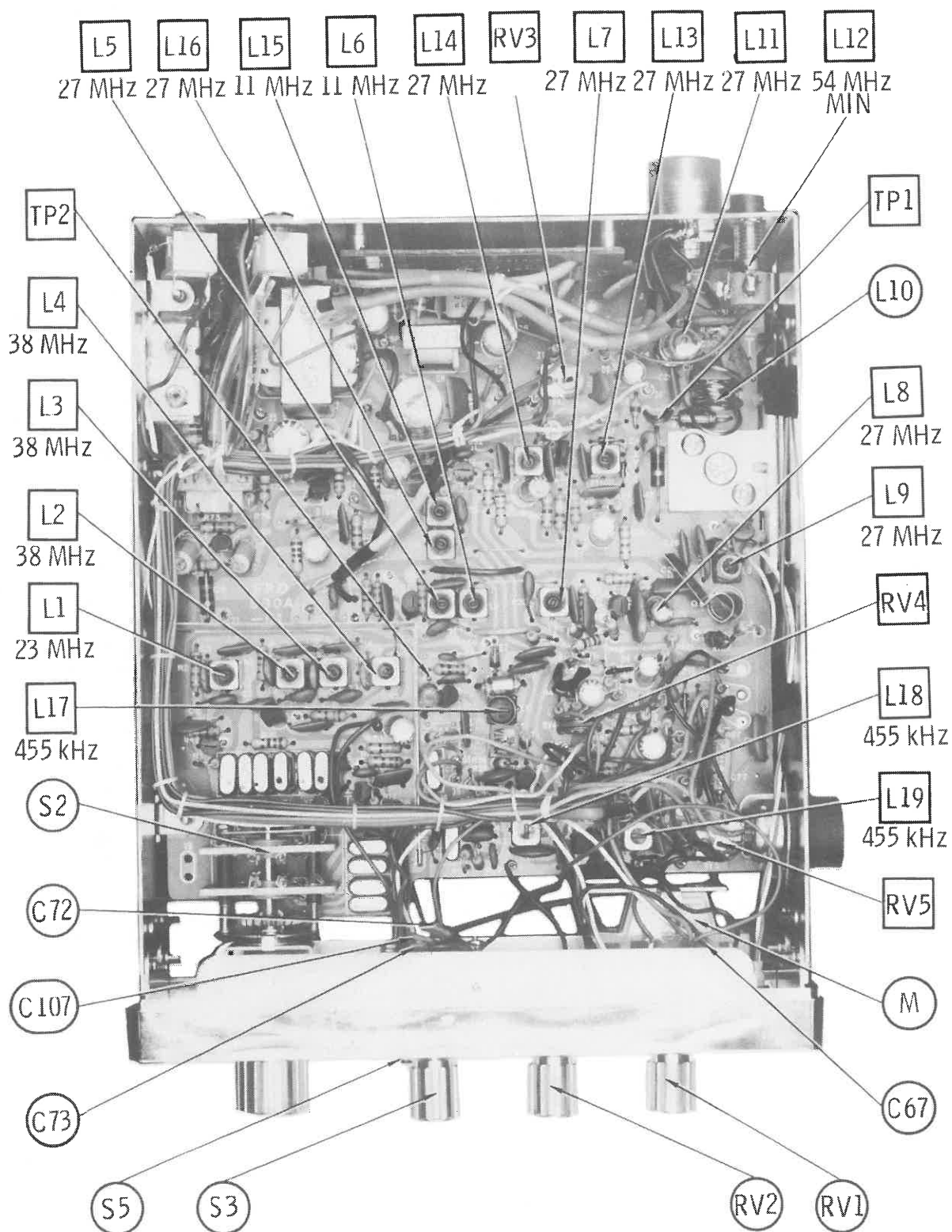
TRANSMITTER

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

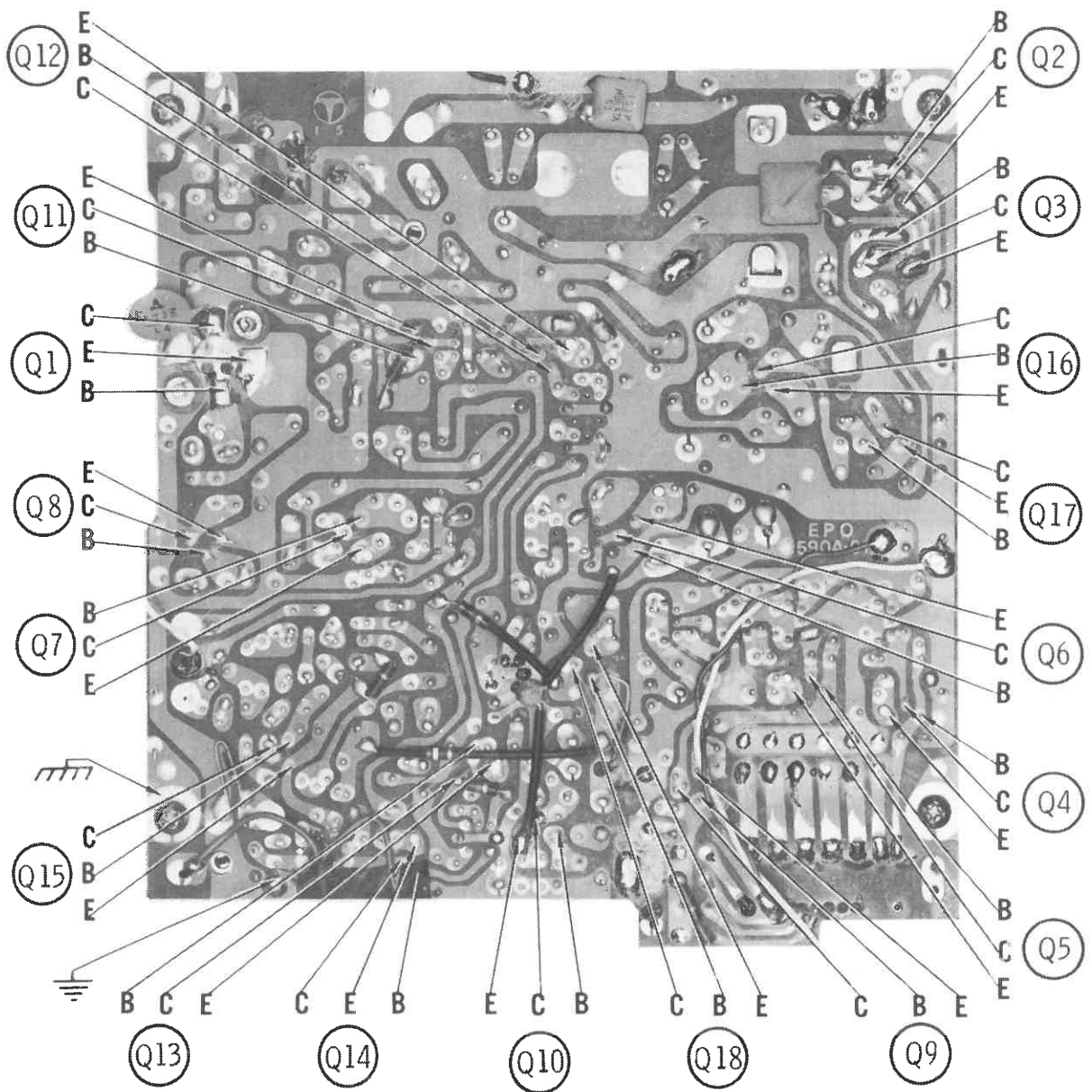
INDICATOR	ADJUST	REMARKS
OSCILLATOR, MIXER, BUFFER, FINAL RF Wattmeter	L1,L2,L3, L4,L5,L6, L7,L8,L9	Mode switch to AM. Channel selector to Key transmitter. Adjust for maximum.
OUTPUT POWER RF Wattmeter	L10,L11	Mode switch to AM. Key transmitter. Adjust for 4 watts output.
TVI TRAP TV (Ch. 2)	L12	Mode switch to AM. Key transmitter. Adjust for MINIMUM interference on TV.
FINAL INPUT POWER Remove jumper at TP1 and connect 0-1000DC milliammeter between R86 and RFC4	L11	Adjust for 5 watts.
FREQUENCY Frequency Counter		Check all channels. +800Hz.

TRANSMITTER ADJUSTMENTS

INDICATOR	ADJUST	REMARKS
RF PANEL METER RF Wattmeter	RV3	Set mode switch to AM. Key transmitter. Adjust so that panel RF meter agrees with RF wattmeter.
ANTENNA WARNING Warning Lamp	RV4	Connect a 150-ohm noninductive resistor across antenna jack. Adjust so that lamp just lights.

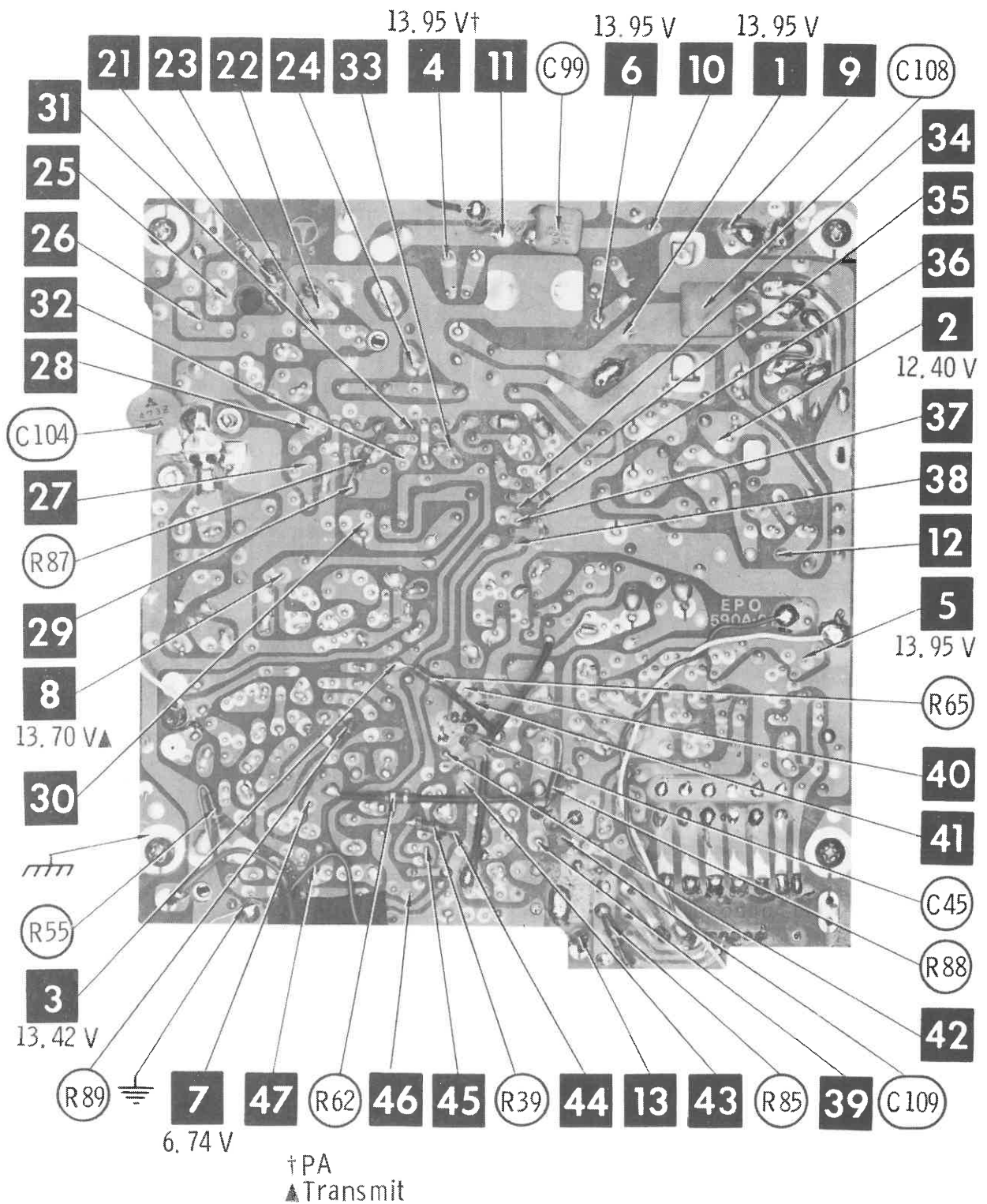


CHASSIS - BOTTOM

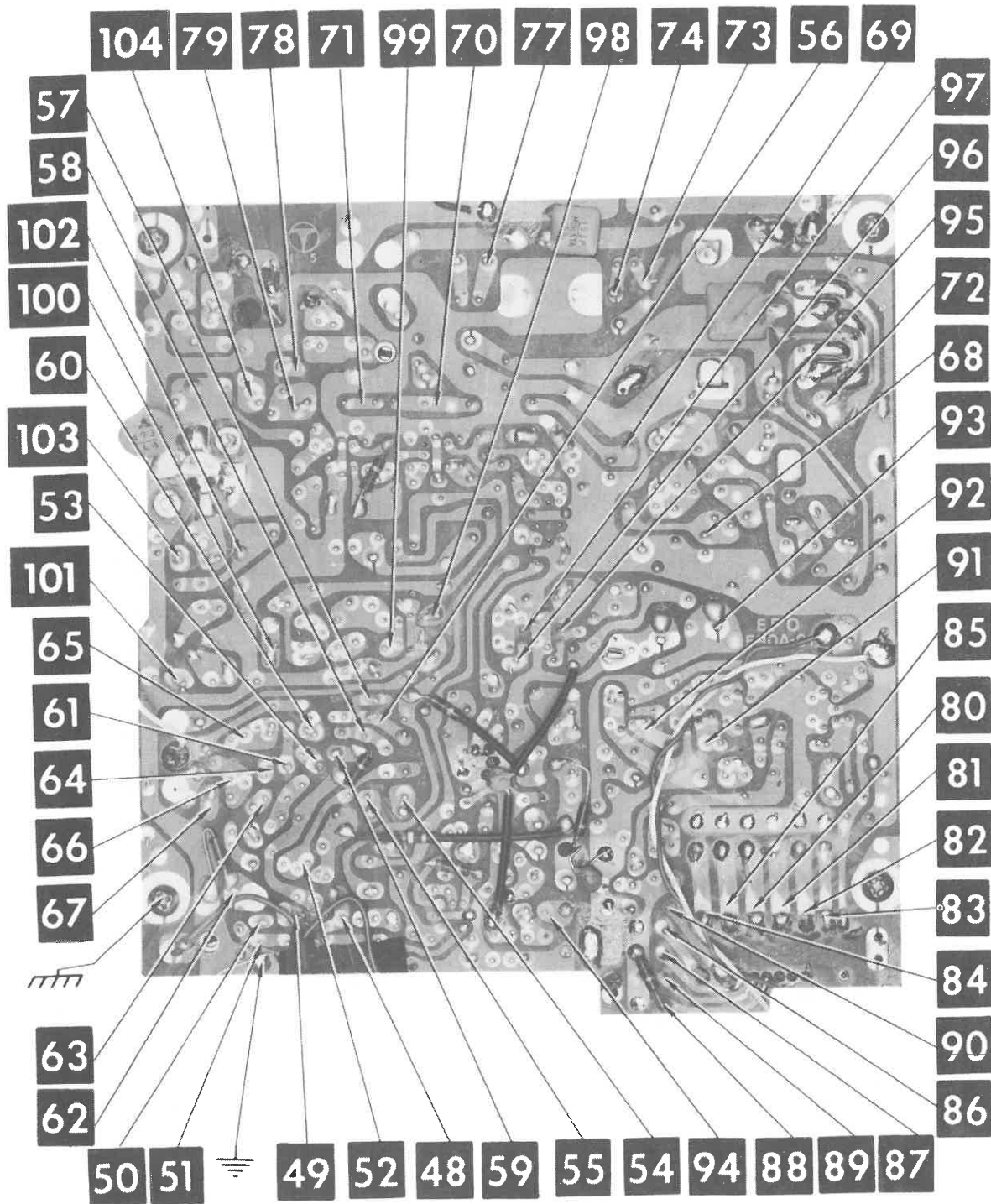


MAIN BOARD



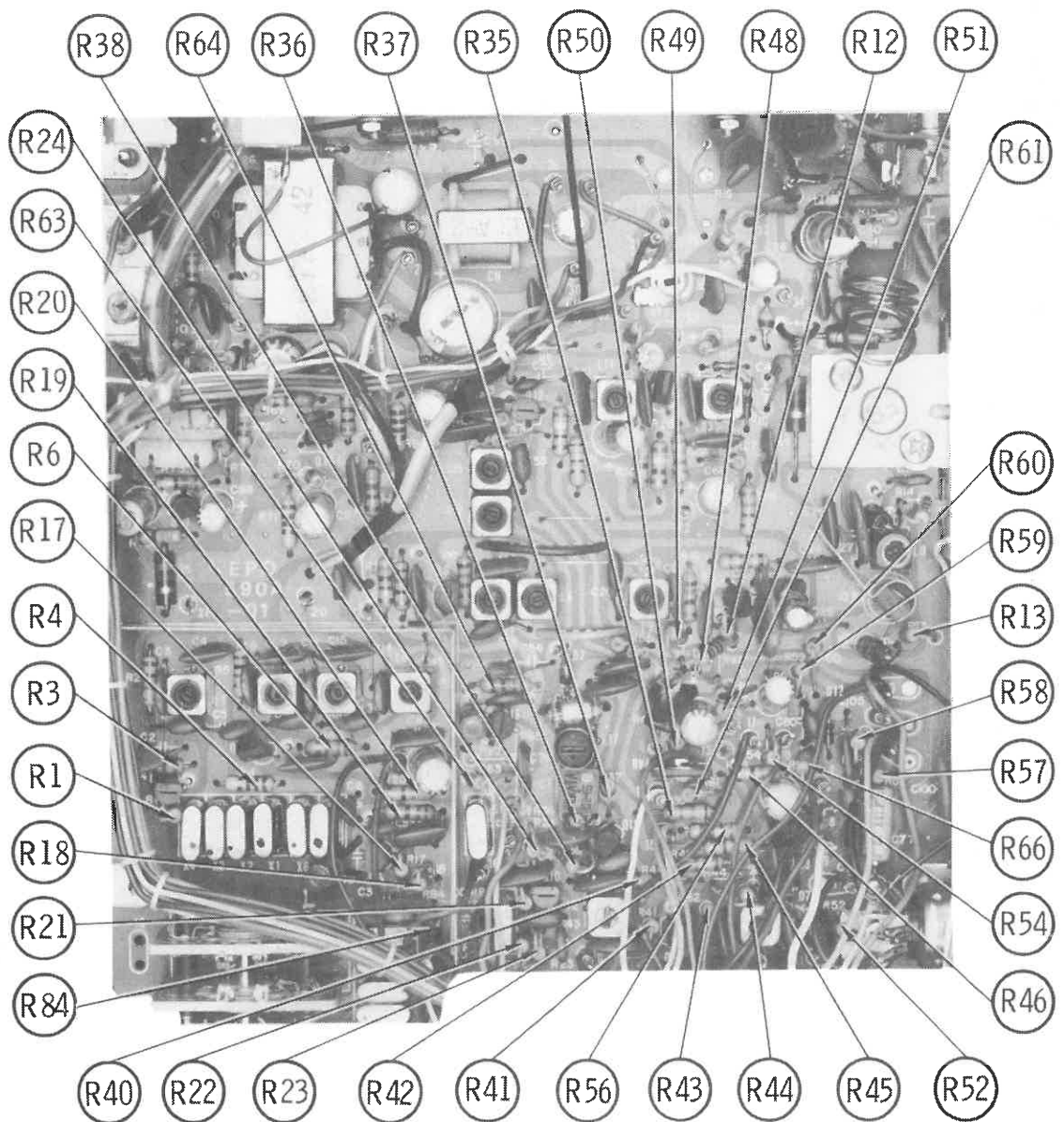


MAIN BOARD

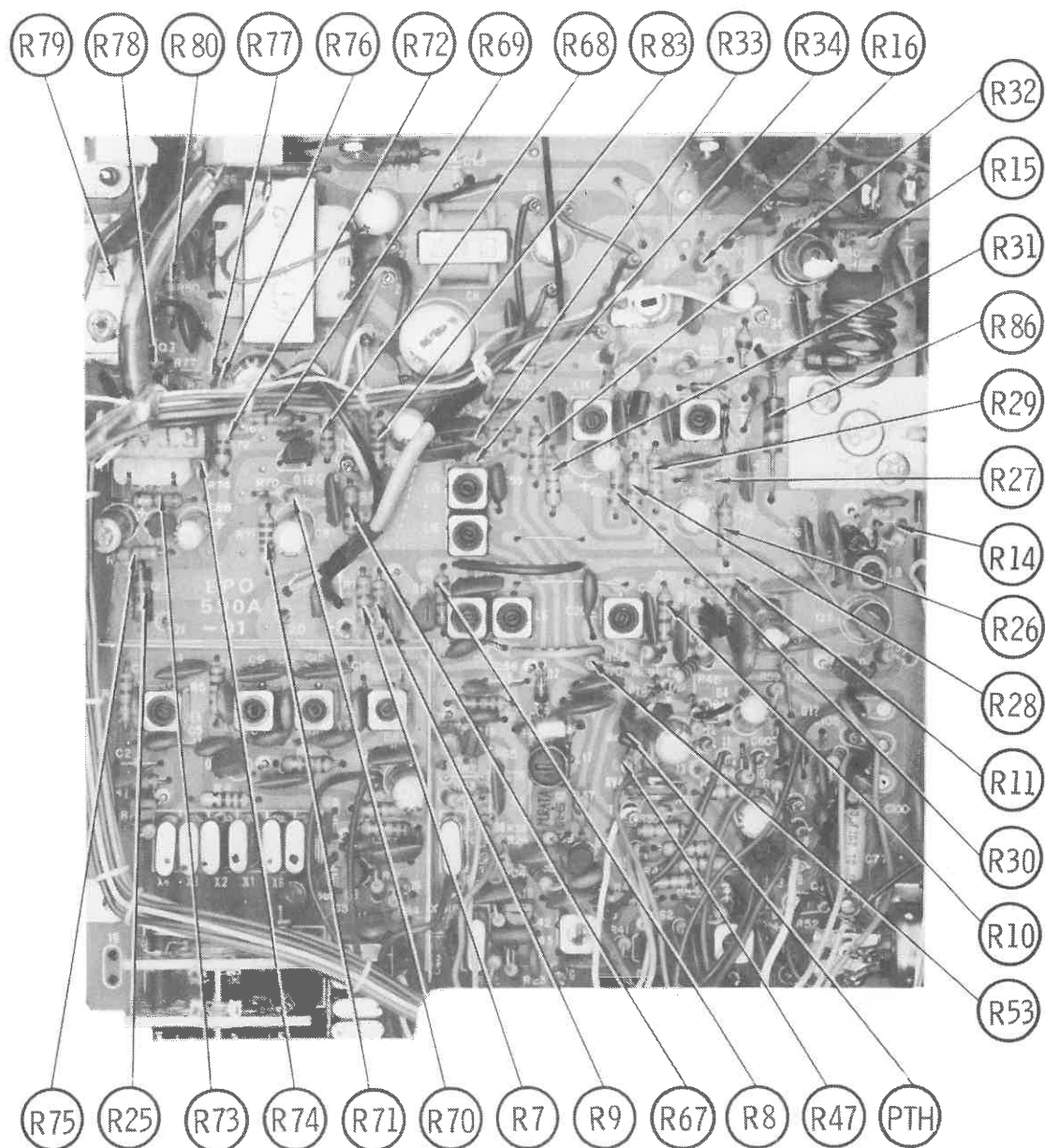


MIDLAND MODEL 13-882

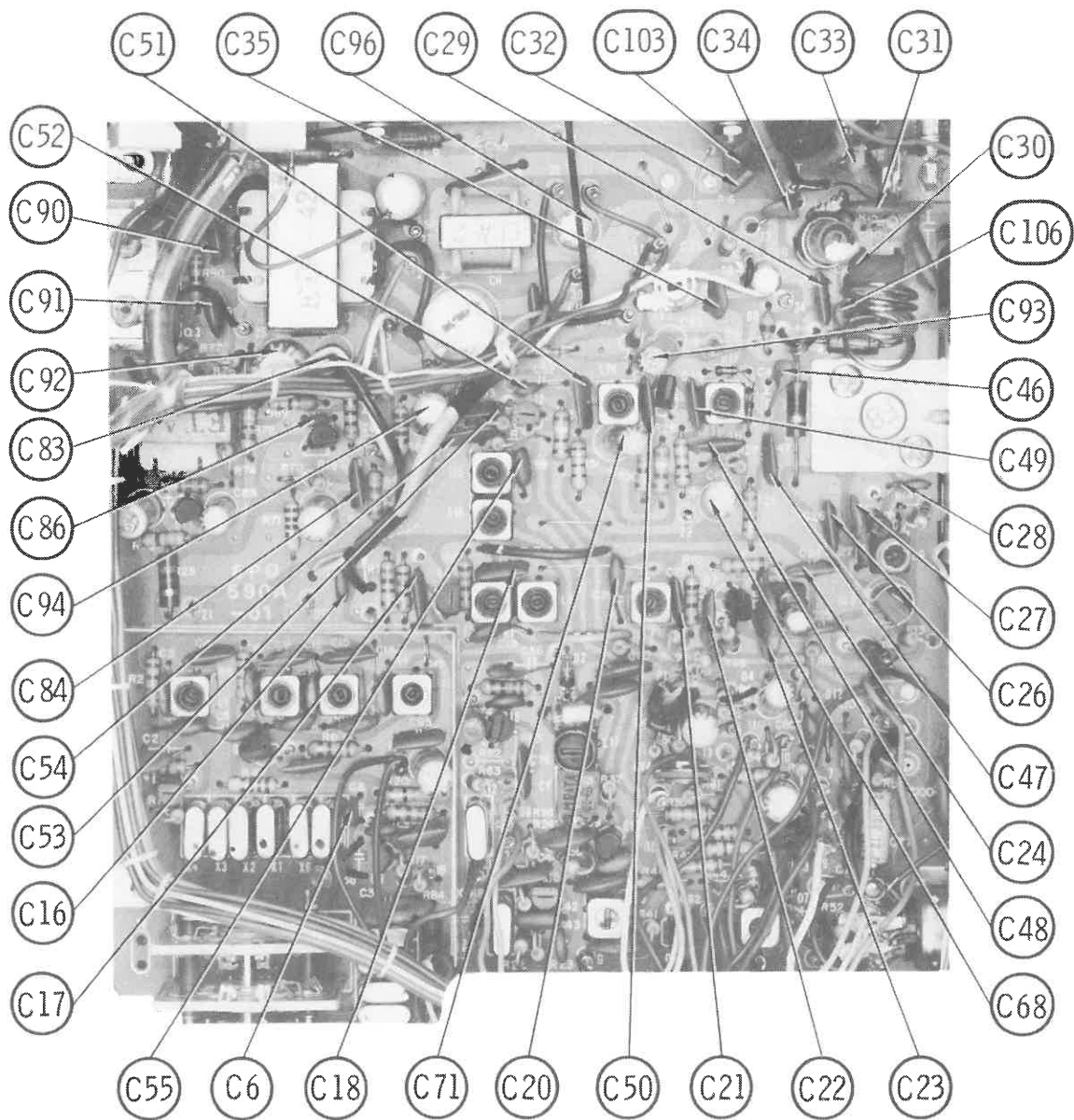
MAIN BOARD



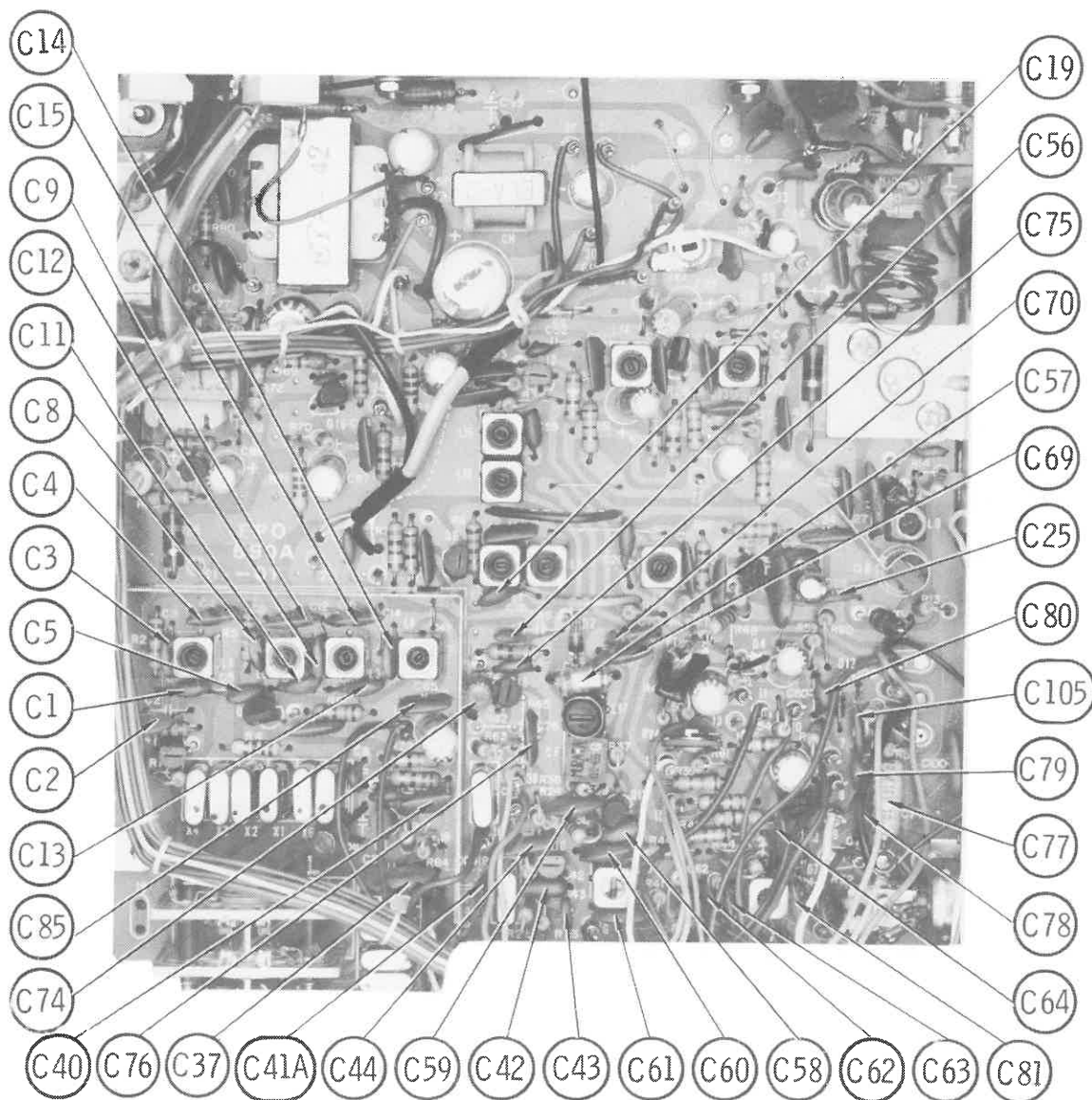
MAIN BOARD



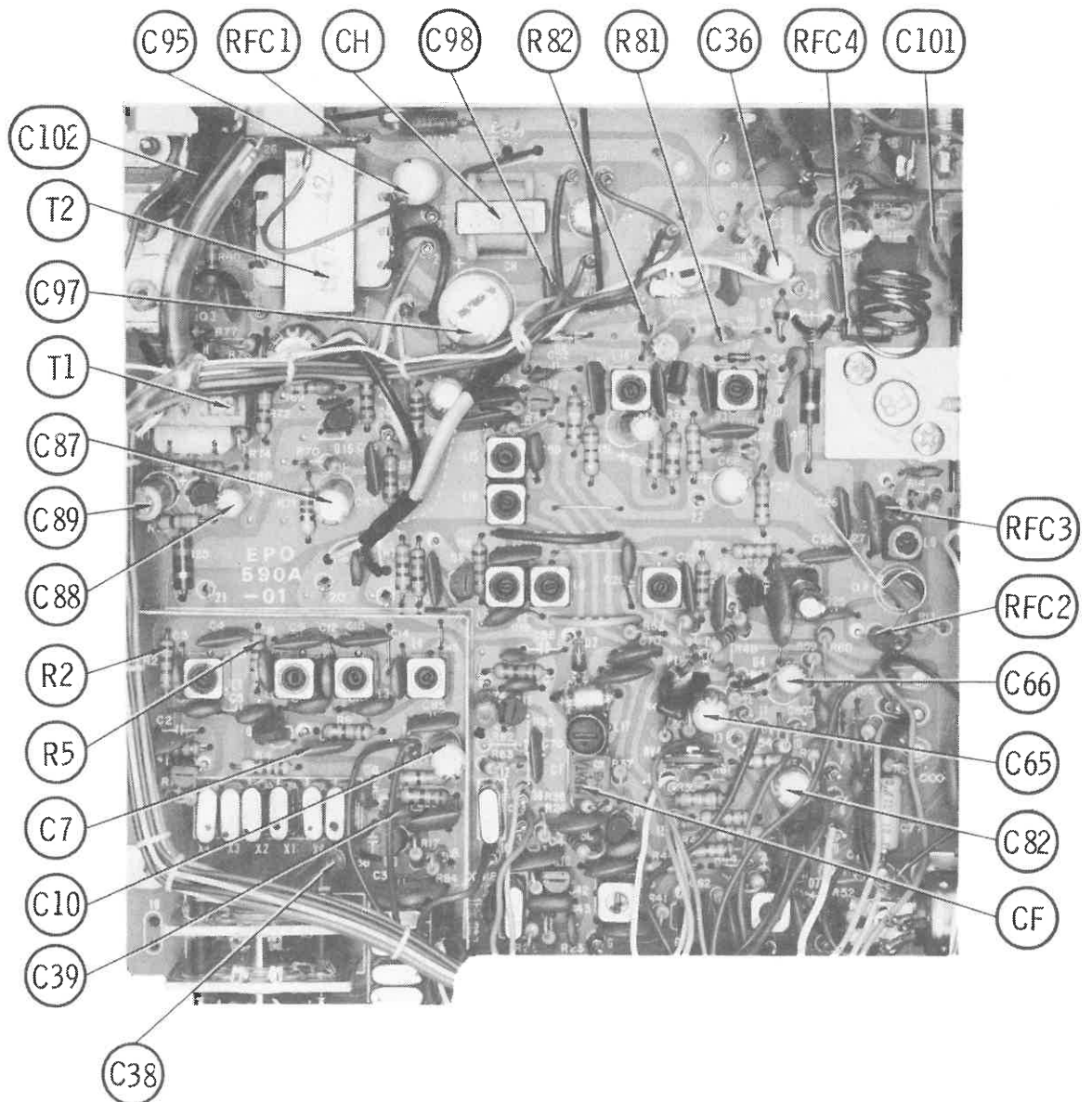
MAIN BOARD



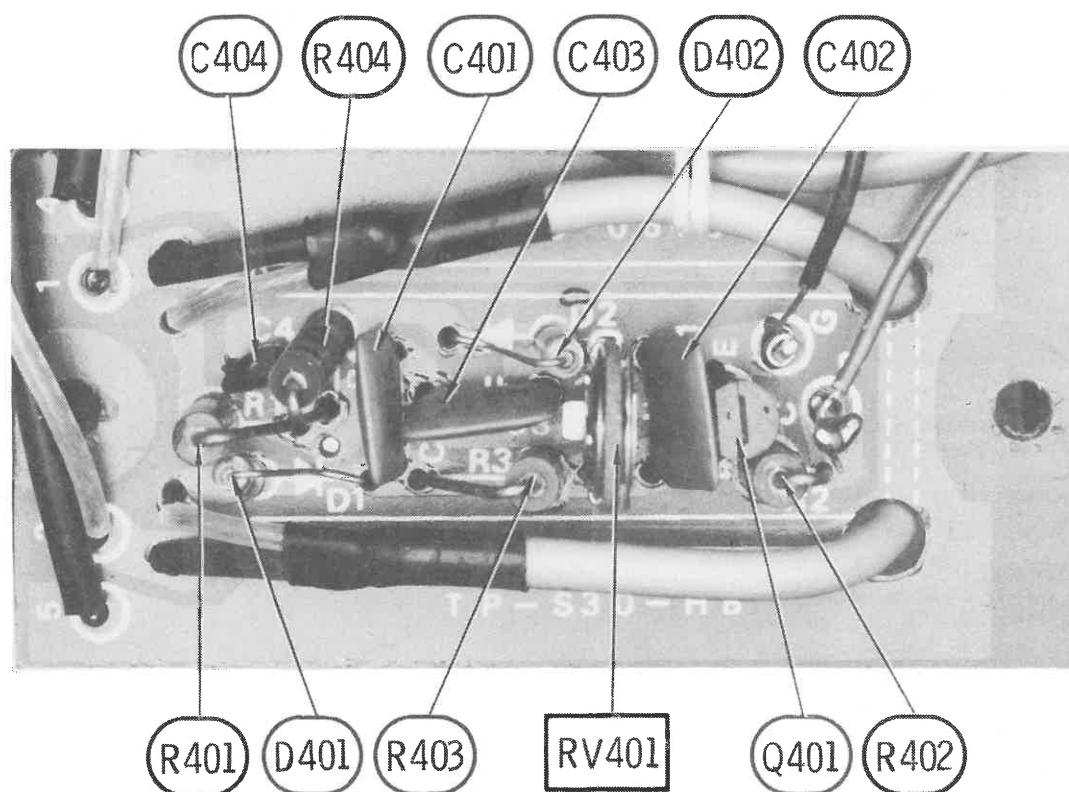
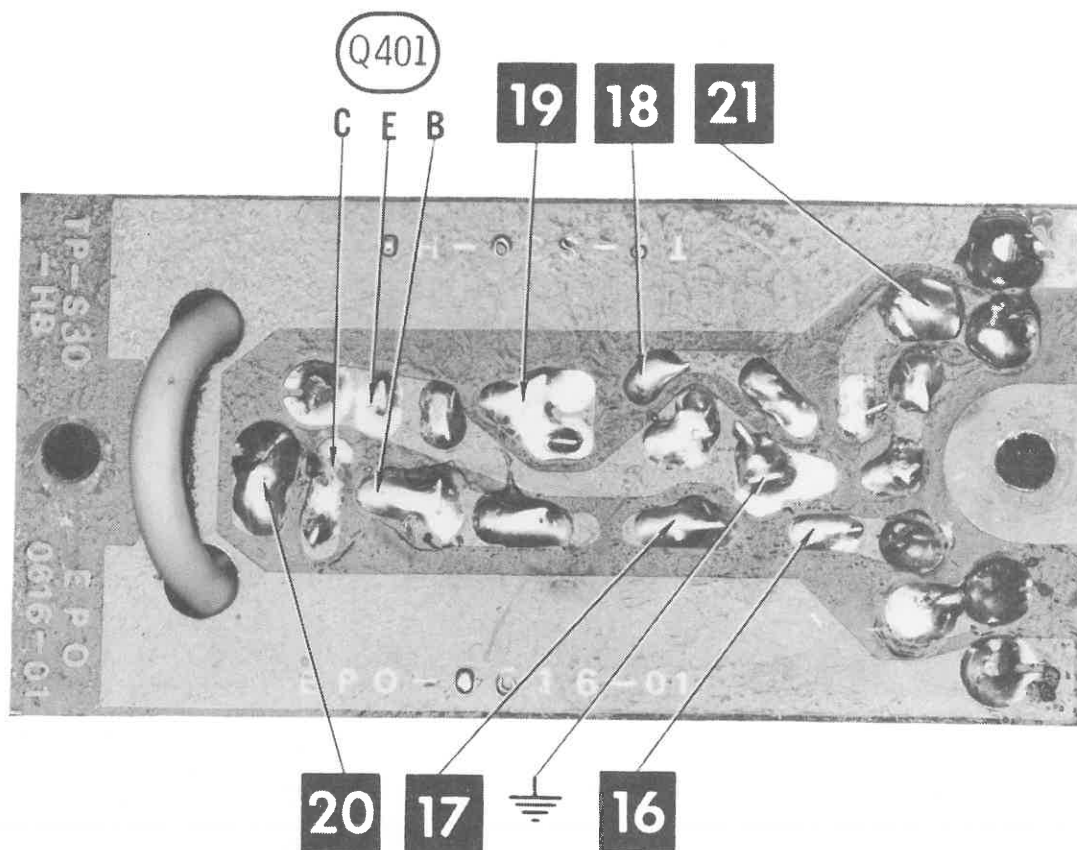
MAIN BOARD



MAIN BOARD

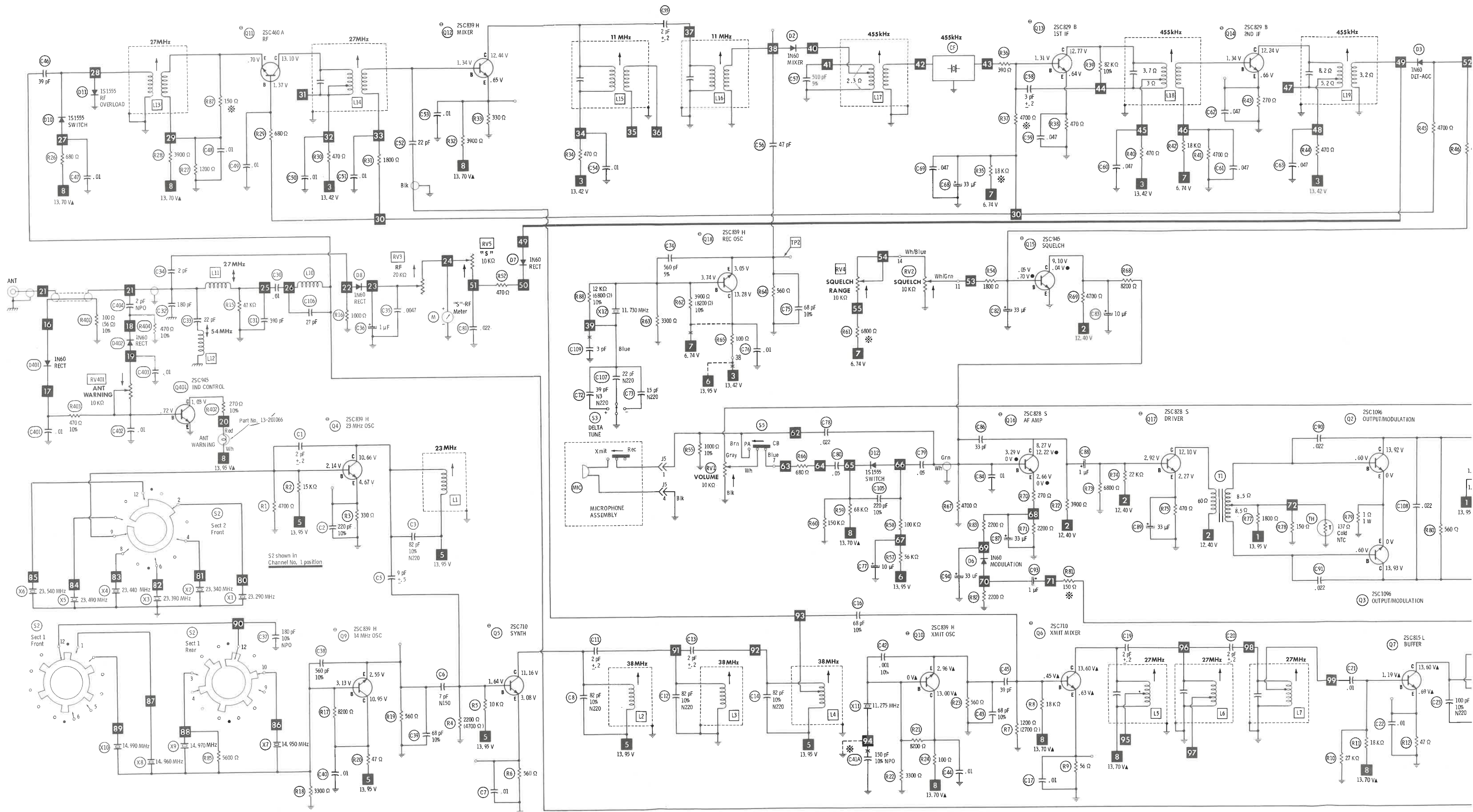


MAIN BOARD



ANTENNA WARNING BOARD

MIDLAND MODEL 13-882





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.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	MOTOROLA PART No.	RAYTHEON PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.
D1	RD7A 7.5V Zener MZ-207(1) 7V Zener	09-306325	GEZD-7.5	Z1207	PTC504	HEPZ0410	RE 111	SK3059	RT-239	ECG138
			GEZD-6.8	Z1206	ZB6.8A	HEPZ0409	RE 110	SK3058	RT-238	ECG5071
D2	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D3	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D4	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D5	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D6	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D7	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D8	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D9	V06C F14A(1)	09-306042	GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
			GE-504A	8D4	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D10	1S1555	09-306154	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D11	1S1555	09-306154	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D12	1S1555	09-306154	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D401	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D402	1N60	09-306019	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
Q1	2SCF8	09-302117	GE-46		PTC176			SK3049		ECG237
	2SC1239 (1)	(2)	GE-46		PTC158			SK3049	RT-186	ECG237
	2SC1306 (1)	(3)	GE-215	TR-55	PTC186				RT-197	ECG236
Q2	2SC1096	09-302126(4)	GE-28	TR-55	PTC110	HEPS5000	RE 42	SK3054	RT-197	ECG186
Q3	2SC1096	09-302126(4)	GE-28	TR-55	PTC110	HEPS5000	RE 42	SK3054	RT-197	ECG186
Q4	2SC839H	09-302124	GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
	2SC829(1)		GE-20	(IR)2SC380A0	PTC121	HEPS0015	RE 9	SK3122	RT-100	ECG229
Q5	2SC710	09-302124	GE-20	(IR)2SC710	PTC121	HEPS0016	RE 13	SK3018	RT-105	ECG123A
	2SC839H (1)		GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q6	2SC829(1)		GE-20	(IR)2SC380A0	PTC121	HEPS0015	RE 9	SK3122	RT-100	ECG123A
	2SC710		GE-20	(IR)2SC710	PTC121	HEPS0016	RE 13	SK3018	RT-105	ECG123A
	2SC839H (1)	09-302124	GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q7	2SC829	09-302062	GE-20	(IR)2SC380A0	PTC121	HEPS0015	RE 9	SK3122	RT-100	ECG123A
Q8	2SC815L	09-302202(5)	GE-18	TR-25	PTC123	HEPS0015	RE 9	SK3024	RT-172	ECG123A
Q9	2SC1475	09-302202(5)	GE-45	TR-64	PTC143	HEPS5014	RE 79	SK3048	RT-114	ECG315
	2SC839H	09-302124	GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q10	2SC829(1)	09-302124	GE-20	(IR)2SC380A0	PTC121	HEPS0015	RE 9	SK3122	RT-100	ECG229
	2SC839H		GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q11	2SC829(1)	09-302004	GE-20	(IR)2SC380A0	PTC121	HEPS0015	RE 9	SK3122	RT-100	ECG229
	2SC460A		GE-17	TR-24	PTC101	HEPS0020	RE 10	SK3039	RT-187	ECG108
Q12	2SC930(1)	09-302124	GE-60	(IR)2SC772	PTC132	HEPS0016	RE 9	SK3018	RT-108	ECG229
Q13	2SC839H	09-302124	GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q14	2SC829(1)	09-302033	GE-20	(IR)2SC380A0	PTC121	HEPS0015	RE 9	SK3122	RT-100	ECG229
	2SC829B		GE-20	(IR)2SC829B	PTC132	HEPS0011	RE 9	SK3018	RT-105	ECG229
Q15	2SC839(1)	09-302033	GE-20	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
	2SC829B		GE-20	(IR)2SC829B	PTC132	HEPS0011	RE 9	SK3018	RT-105	ECG229
Q16	2SC945	09-302125	GE-18	(IR)2SC945	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
	2SC828(1)		GE-18	(IR)2SC828A	PTC132	HEPS0015	RE 13	SK3124	RT-107A	ECG199
Q17	2SC828S	09-302038	GE-20	TR-24	PTC136	HEPS0016	RE 13	SK3020	RT-159A	ECG199
Q18	2SC945(1)	09-302125	GE-18	(IR)2SC945	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199
	2SC839H	09-302124	GE-20	TR-24	PTC121	HEPS0015	RE 13	SK3018	RT-107A	ECG123A
Q401	2SC829(1)	09-302125	GE-20	(IR)2SC380A0	PTC121	HEPS0015	RE 9	SK3122	RT-100	ECG229
	2SC945		GE-18	(IR)2SC945	PTC121	HEPS0015	RE 13	SK3124	RT-107A	ECG199

- (1) Alternate. (4) Rating 10 watts @ 2 amps.
(2) Rating 12 watts @ 4 amps. (5) Rating 750mw @ 1 amp.
(3) Rating 12 watts @ 3 amps.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA					
		MFR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C70	33 16V	77-337336	ME-4-G-035	EP30-25	PC30-25	VTT33D25	EV-1325
C36	1 50V	77-333105	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C65	33 6.3V	77-335336	ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C66	1 50V	77-333105	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C68	33 6.3V	77-335336	ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C71	10 16V	77-337106	RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C77	10 16V	77-337106	RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C82	33 6.3V	77-335336	ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C83	10 16V	77-337106	RME-B-G-010	EP15-10	PC10-25	VTT10A25	EV-1222
C87	33 6.3V	77-335336	ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C88	1 50V	77-333105	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C89	33 6.3V	77-335336	ME-3-D-035	EP15-25	PC30-25	VTT33A10	EV-1125
C92	100 16V	77-337107	RME-E-E-100	EP15-100	PC100-16	VTT100F16	EV-1230
C93	1 50V	77-333105	RME-A-J-001	EP50-1	PC1-50	MTV1CB50	EV-1615
C94	33 16V	77-336336	ME-4-G-035	EP30-25	PC30-25	VTT33D25	EV-1325
C95	33 16V	77-337336	ME-4-G-035	EP30-25	PC30-25	VTT33D25	EV-1325
C96	33 16V	77-337336	ME-4-G-035	EP30-25	PC30-25	VTT33D25	EV-1325
C97	470 16V	77-337477	RME-L-E-500	EP15-500	PC500-16	VTT470J16	EV-1250

PARTS LIST AND DESCRIPTION (CONTINUED)
(When ordering parts, state Model, Part Number, and Description.)

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	2 +.2		CCTO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C2	220 10%		CCD-221	DD-221		GP322	10TS-T22
C3	82 10% N220		*				
C4	.01		CCD-103				10TS-S10
C5	9 +.5		*				
C6	7 N150		*				
C7	.01		CCD-103				10TS-S10
C8	82 10% N220		*				10TCR-Q82
C9	.01		CCD-103				10TS-S10
C11	2 +.2 N220		*				
C12	82 10% N220		*				
C13	2 +.2		CCTO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C14	82 10% N220		*				
C15	.01		CCD-103				10TS-S10
C16	68 10%		CCD-680	DD-680	GP68	GP468	10TS-Q68
C17	.01		CCD-103				10TS-S10
C18	.01		CCD-103				10TS-S10
C19	2 +.2		CCTO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C20	2 +.2		CCTO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C21	.01		CCD-103				10TS-S10
C22	.01		CCD-103				10TS-S10
C23	100 10% N220		*				
C24	.01		CCD-103				10TS-S10
C25	220		CCD-221	DD-221		GP322	10TS-T22
C26	.01		CCD-103				10TS-S10
C27	390		CCD-391	DD-391	GP390	GP339	10TS-T39
C28	82 10%		CCD-820	DD-820		GP482	10TS-Q82
C29	.01		CCD-103				10TS-S10
C30	.01		CCD-103				10TS-S10
C31	390 10%		CCD-391	DD-391	GP390	GP339	10TS-T39
C32	180 10%			DTZ-180			10TCC-T18
C33	22		CCTO-220	DTZ-22	NP022	CN0422	10TCC-Q22
C34	2		CCTO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C35	.0047		CCD-472				10TS-D47
C37	180 10% NPO			DTZ-180			10TCC-T18
C38	560 10%		CCD-561	DD-561		GP356	10TS-T56
C39	68		CCD-680	DD-680	GP68	GP468	10TS-Q68
C40	.01		CCD-103				10TS-S10
C41A	150 10% NPO		CCTO-151	DTZ-150		CN0315	10TCC-T15
C41B	270		CCD-271	DD-271	GP270	GP327	10TS-T27
C42	.001 10%		CCD-102	DD-102		GP210	10TS-D10
C43	68 10%		CCD-680	DD-680	GP68	GP468	10TS-Q68
C44	.01		CCD-103				10TS-S10
C45	39		CCTO-390			CN0439	10TCC-Q39
C46	39		CCTO-390			CN0439	10TCC-Q39
C47	.01		CCD-103				10TS-S10
C48	.01		CCD-103				10TS-S10
C49	.01		CCD-103				10TS-S10
C50	.01		CCD-103				10TS-S10
C51	.01		CCD-103				10TS-S10
C52	22		CCTO-220	DTZ-22	NP022	CN0422	10TCC-Q22
C53	.01		CCD-103				10TS-S10
C54	.01		CCD-103				10TS-S10
C55	2 +.2		CCTO-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C56	47		CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C57	510 5%		DM15-511J	CPR-510J	CD15FD511J03	SX351	424ME5100J501
C58	3 +.2		CCTO-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C59	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C60	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C61	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C62	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C63	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C64	.02		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C67	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C69	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C70	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C72	39		CCTO-390			CN0439	10TCC-Q39
C73	15		CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C74	550 5%		DM19-561J	CPR-560J	CD19FD561J03	SX356	424ME5600J501
C75	68 10%		CCD-680	DD-680	GP68	GP468	10TS-Q68
C76	.01		CCD-103				10TS-S10
C78	.05		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C79	.05		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C80	.05		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C81	.022		CCD-203			GP120	5GA-S20
C84	.01		CCD-103				10TS-S10
C85	.01		CCD-103				10TS-S10
C86	33		CCTO-330	DTZ-33	NP033	CN0433	10TCC-Q33
C90	.022		CCD-203			GP120	5GA-S20
C91	.022		CCD-203			GP120	5GA-S20
C98	.02		CCD-203			GP120	5GA-S20
C99	.01		CCD-103				10TS-S10

PARTS LIST AND DESCRIPTION (CONTINUED)

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

A No.	SPRAGUE PART No.	SYLVANIA PART No.
	RT-239	ECG138
	RT-238	ECG5071
	RT-263	ECG109
	RT-263	ECG109
	RT-263	ECG109
	RT-263	ECG109
	RT-263	ECG109
	RT-213	ECG116
	RT-213	ECG116
	RT-218	ECG177
	RT-218	ECG177
	RT-218	ECG177
	RT-263	ECG109
	RT-263	ECG109
	RT-186	ECG237
	RT-197	ECG236
	RT-197	ECG186
	RT-197	ECG186
	RT-107A	ECG123A
	RT-100	ECG229
	RT-105	ECG123A
	RT-107A	ECG123A
	RT-100	ECG123A
	RT-105	ECG123A
	RT-107A	ECG123A
	RT-100	ECG123A
	RT-172	ECG123A
	RT-114	ECG315
	RT-107A	ECG123A
	RT-100	ECG229
	RT-107A	ECG123A
	RT-100	ECG229
	RT-187	ECG108
	RT-108	ECG229
	RT-107A	ECG123A
	RT-100	ECG229
	RT-105	ECG229
	RT-107A	ECG123A
	RT-105	ECG229
	RT-107A	ECG123A
	RT-107A	ECG199
	RT-107A	ECG199
	RT-159A	ECG199
	RT-107A	ECG199
	RT-159A	ECG199
	RT-107A	ECG199
	RT-107A	ECG123A
	RT-100	ECG229
	RT-107A	ECG199

ALLORY RT No.	SPRAGUE PART No.
33D25	EV-1325
1CB50	EV-1615
33A10	EV-1125
1CB50	EV-1615
33A10	EV-1125
1QA25	EV-1222
1QA25	EV-1222
33A10	EV-1125
1QA25	EV-1222
33A10	EV-1125
1CB50	EV-1615
33A10	EV-1125
100F16	EV-1230
1CB50	EV-1615
33D25	EV-1325
33D25	EV-1325
33D25	EV-1325
170J16	EV-1250

CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	2 +.2		CCT0-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C2	220 10%		CCD-221	DD-221		GP322	10TS-T22
C3	82 10% N220		*				
C4	.01		CCD-103				10TS-S10
C5	9 +.5		*				
C6	7 N150		*				
C7	.01		CCD-103				10TS-S10
C8	82 10% N220		*				10TCR-Q82
C9	.01		CCD-103				10TS-S10
C11	2 +.2 N220		*				
C12	82 10% N220		*				
C13	2 +.2		CCT0-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C14	82 10% N220		*				
C15	.01		CCD-103				10TS-S10
C16	68 10%		CCD-680	DD-680	GP68	GP468	10TS-Q68
C17	.01		CCD-103				10TS-S10
C18	.01		CCD-103				10TS-S10
C19	2 +.2		CCT0-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C20	2 +.2		CCT0-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C21	.01		CCD-103				10TS-S10
C22	.01		CCD-103				10TS-S10
C23	100 10% N220		*				
C24	.01		CCD-103				10TS-S10
C25	220		CCD-221	DD-221		GP322	10TS-T22
C26	.01		CCD-103				10TS-S10
C27	390		CCD-391	DD-391	GP390	GP339	10TS-T39
C28	82 10%		CCD-820	DD-820		GP482	10TS-Q82
C29	.01		CCD-103				10TS-S10
C30	.01		CCD-103				10TS-S10
C31	390 10%		CCD-391	DD-391	GP390	GP339	10TS-T39
C32	180 10%			DTZ-180			10TCC-T18
C33	22		CCT0-220	DTZ-22	NP022	CN0422	10TCC-Q22
C34	2		CCT0-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C35	.0047		CCD-472				10TS-D47
C37	180 10% NPO			DTZ-180			10TCC-T18
C38	560 10%		CCD-561	DD-561		GP356	10TS-T56
C39	68		CCD-680	DD-680	GP68	GP468	10TS-Q68
C40	.01		CCD-103				10TS-S10
C41A	150 10% NPO		CCT0-151	DTZ-150		CN0315	10TCC-T15
C41B	270		CCD-271	DD-271	GP270	GP327	10TS-T27
C42	.001 10%		CCD-102	DD-102		GP210	10TS-D10
C43	68 10%		CCD-680	DD-680	GP68	GP468	10TS-Q68
C44	.01		CCD-103				10TS-S10
C45	39		CCT0-390			CN0439	10TCC-Q39
C46	39		CCT0-390			CN0439	10TCC-Q39
C47	.01		CCD-103				10TS-S10
C48	.01		CCD-103				10TS-S10
C49	.01		CCD-103				10TS-S10
C50	.01		CCD-103				10TS-S10
C51	.01		CCD-103				10TS-S10
C52	22		CCT0-220	DTZ-22	NP022	CN0422	10TCC-Q22
C53	.01		CCD-103				10TS-S10
C54	.01		CCD-103				10TS-S10
C55	2 +.2		CCT0-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22
C56	47		CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C57	510 5%		DM15-511J	CPR-510J	CD15FD511J03	SX351	424ME5100J501
C58	3 +.2		CCT0-3R3	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C59	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C60	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C61	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C62	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C63	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C64	.02		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C67	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C69	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C70	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C72	39		CCT0-390			CN0439	10TCC-Q39
C73	15		CCT0-150	DTZ-15	NP015	CN0415	10TCC-Q15
C74	550 5%		DM19-561J	CPR-560J	CD19FD561J03	SX356	424ME5600J501
C75	68 10%		CCD-680	DD-680	GP68	GP468	10TS-Q68
C76	.01		CCD-103				10TS-S10
C78	.05		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C79	.05		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C80	.05		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C81	.022		CCD-203			GP120	56A-S20
C84	.01		CCD-103				10TS-S10
C85	.01		CCD-103				10TS-S10
C86	33		CCT0-330	DTZ-33	NP033	CN0433	10TCC-Q33
C90	.022		CCD-203			GP120	56A-S20
C91	.022		CCD-203			GP120	56A-S20
C98	.02		CCD-203			GP120	56A-S20
C99	.01		CCD-103				10TS-S10

MIDLAND MODEL 13-882

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS (cont)

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C101	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C102	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C103	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C104	.047		CCD-503	DC-503	MGP05	MAG5015	TGL-S50
C105	220		CCD-221	DD-221		GP322	10TS-T22
C106	27					CN0427	10TCC-Q27
C107	22		CCT0-220	DTZ-22	NP022	CN0422	10TCC-Q22
C108	.0022		CCD-222			GP222	10TS-D22
C109	47		CCT0-470	DTZ-47	NP047	CN0447	10TCC-Q47
C401	.01		CCD-103				10TS-S10
C402	.01		CCD-103				10TS-S10
C403	.01		CCD-103				10TS-S10
C404	2 NPO		CCT0-2R2	DTZ-2R2	NP02P2	CN0522	10TCC-V22

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

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	Volume/Switch	10K	13-160116				
RV2	Squelch	10K	13-166058				
RV3	RF Meter	20K	13-164119				
RV4	Squelch Range	10K	13-164087	TSV-10K (2) or T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
RV5	"S" Meter	5000	13-164120	TSV-5K(3) or T-5000 (3)	C-502 (3)	MTC53L1 (3)	X201R502B (3)
RV401	Antenna Warning	10K		TSV-10K (2) or T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)

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

(3) For horizontal mounting, bend the two outside terminals to fit PC board. Use jumper to connect center terminal to PC Board.

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.
PTH	1450 Cold PTC		09-307089	TH	137 Cold NTC		09-306129

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	23MHz Osc	13-170206	ETR2475415		
L2	38MHz Synth	13-094216	ETR219		
L3	38MHz Synth	13-094216	ETR2485335		
L4	38MHz Synth	13-094217	ETR2495425		

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.	
L5	Xmit Mixer (27MHz)	13-090312			
L6	Xmit Mixer (27MHz)	13-090312			
L7	Xmit Mixer (27MHz)	13-090313	R-305435 R315415		
L8	Xmit Buffer (27MHz)	13-094014			
L9	Xmit Buffer (27MHz)	13-090314			
L10	Final (27MHz)	13-090315			
L11	Antenna (27MHz)	13-090316			
L12	TVI Trap (54MHz)				
L13	Rec. Ant. (27MHz)	13-090341	ETR-1945425		
L14	Rec. RF (27MHz)	13-090306	ETR-104543J		
L15	11MHz Mixer	13-094218			
L16	11MHz Mixer	13-094218	ETR-1255415		
L17	Input IF (455kHz)	13-090308			
L18	Interstage IF (455kHz)	13-090309	ETI-175415		
L19	Output IF (455kHz)	13-090310	ETI-184515		
RFC1	RF Choke	13-178195			
RFC2	RF Choke	13-178136			
RFC3	RF Choke	13-178136			
RFC3	RF Choke	13-178136			

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	650mA	.1	.21mH	13-178196 ELA-2 (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	2	1		13-096164 ETA-41 (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.	
T2	36	16	13-096165 ETA-42 (1)			(1) Number on unit

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3 3/4 x 2 PM 16 ohms	13-060102	30A05RZ16	

MIDLAND MODEL 13-882

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.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	WORKMAN PART No.
F1	1.5A Quick Acting			AGC 1 1/2	HDJ	31201.5	150145

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	MA20 W23.290	1,2,3,4	X7	14.950	13-128324	MB80 W14.950	1,5,9,13,17,21
X2	23.340	13-128319	MA20 W23.340	5,6,7,8	X8	14.960	13-128325	MB80 W14.960	2,6,10,14,18,22
X3	23.390	13-128320	MA20 W23.390	9,10,11,12	X9	14.970	13-128326	MB80 W14.970	3,7,11,15,19
X4	23.440	13-128321	MA20 W23.440	13,14,15,16	X10	14.990	13-128327	MB80 W14.990	4,8,12,16,20,23
X5	23.490	13-128322	MA20 W23.490	17,18,19,20	X11	11.275	13-128328	MC90 W11.275	Transmit
X6	23.540	13-128323	MA20 W23.540	21,22,23	X13	11.730	13-128329	MC90 W11.730	Receive

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF	Ceramic Filter	13-179045	455kHz
M	Meter	13-200061	"S"/RF
S2	Switch	13-183189	Channel Selector
S3	Switch	13-183205	Delta Tune
S4	Switch	13-183206	ANL
S5	Switch	13-183206	PA/CB
	Printed Circuit Board	EPO-590A-01	Main
	Printed Circuit Board	EPO-06106-01	Ant. Warning

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

ITEM	PART No.	ITEM	PART No.
Case, Upper	13-010265	Plate, Channel Ind.	13-023188
Case, Lower	13-010266	Knob, Channel Selector	13-115113
Front Panel Mounting Bracket	13-158387	Knob, Volume/Squelch/Delta	13-110178

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Microphone	13-038065	
Power Cord	13-034078	

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Power Cord, 2-Wire	8524 (Stranded) Available in 12 Colors
Shielded Antenna Lead	17106 (Plastic) or 17126 (Rubber) -6 feet
	17109 (Plastic) or 17129 (Rubber) -9 feet
	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. 8497 3-Conductor (1 shielded for Press-to-Talk) Neoprene
Ignition Noise Suppression	8491 4-Conductor (2 shielded, 2 unshielded) Neoprene
Bonding Strap	Use BELDEN No. 7300-Series Spark-Plug Sets
	Use BELDEN No. 8661 (3/8 inch)