

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 76-501 (Spirit)



MODEL 76-601 (Freedom)

AMERICAN ELECTRONICS MODELS 76-501/-601

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

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Printed in U. S. of America 6CY358

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:

L1, L2, T3 thru T5, L9, T10
L6, L8, L10
T1, T2, L4, T8, T9

GC Electronics

#5000, 8290

#9330

#9440

RECEIVER

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
Adjustments made with 14-volt DC input or 120-Volt AC input to power supply.
Adjust volume control to obtain suitable reading.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01uF to base of Q6, low side to ground	455KHz, 1000Hz @ 30% modulation.	Any	T3,T4,T5	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.	13	L9,T1,T2, L1,L2	Set generator output low enough to prevent AGC limiting. Adjust for maximum.

RECEIVER ADJUSTMENTS

Connect an AC VTVM or AF Wattmeter across speaker voice coil.
These adjustments made with 14-volt DC input or 120-volt AC input to power supply.
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 1000uV.	13	VR3	Set squelch control fully clockwise. Adjust VR3 so that squelch just breaks.

RECEIVER ADJUSTMENTS(cont)

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
S METER High side thru .01uF to antenna jack, low side to ground	27.115MHz 1000Hz @ 30% modulation 32uV	13	VR5	Adjust for 9 reading on S meter.

TRANSMITTER

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input or 120-volt AC input to power supply.

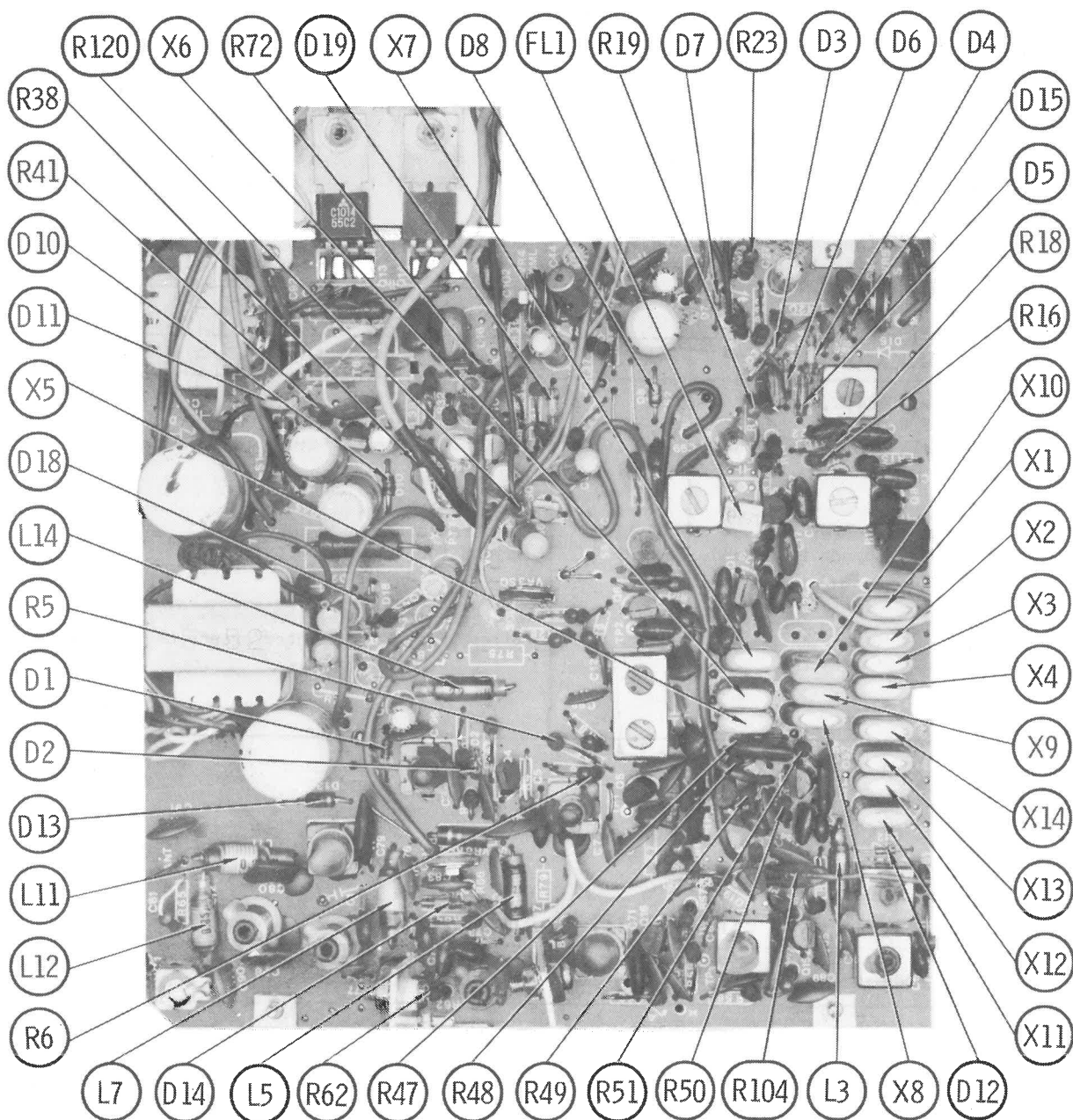
INDICATOR	ADJUST	REMARKS
MIXER, BUFFER, DRIVER, FINAL. Input of RF Wattmeter to antenna jack, common to ground.	L4,T8,T9, T10,L6,L8, L10	Channel selector to Ch. 13. Key transmitter. Adjust for maximum.
OUTPUT POWER Input of RF Wattmeter to antenna jack, common to ground.	L8,L10	Key transmitter. Adjust for 4-watts output.
TVI TRAP TV (Ch. 2)	VC1	Key transmitter. Adjust for MINIMUM interference on TV.

AMERICAN ELECTRONICS MODELS 76-501/-601

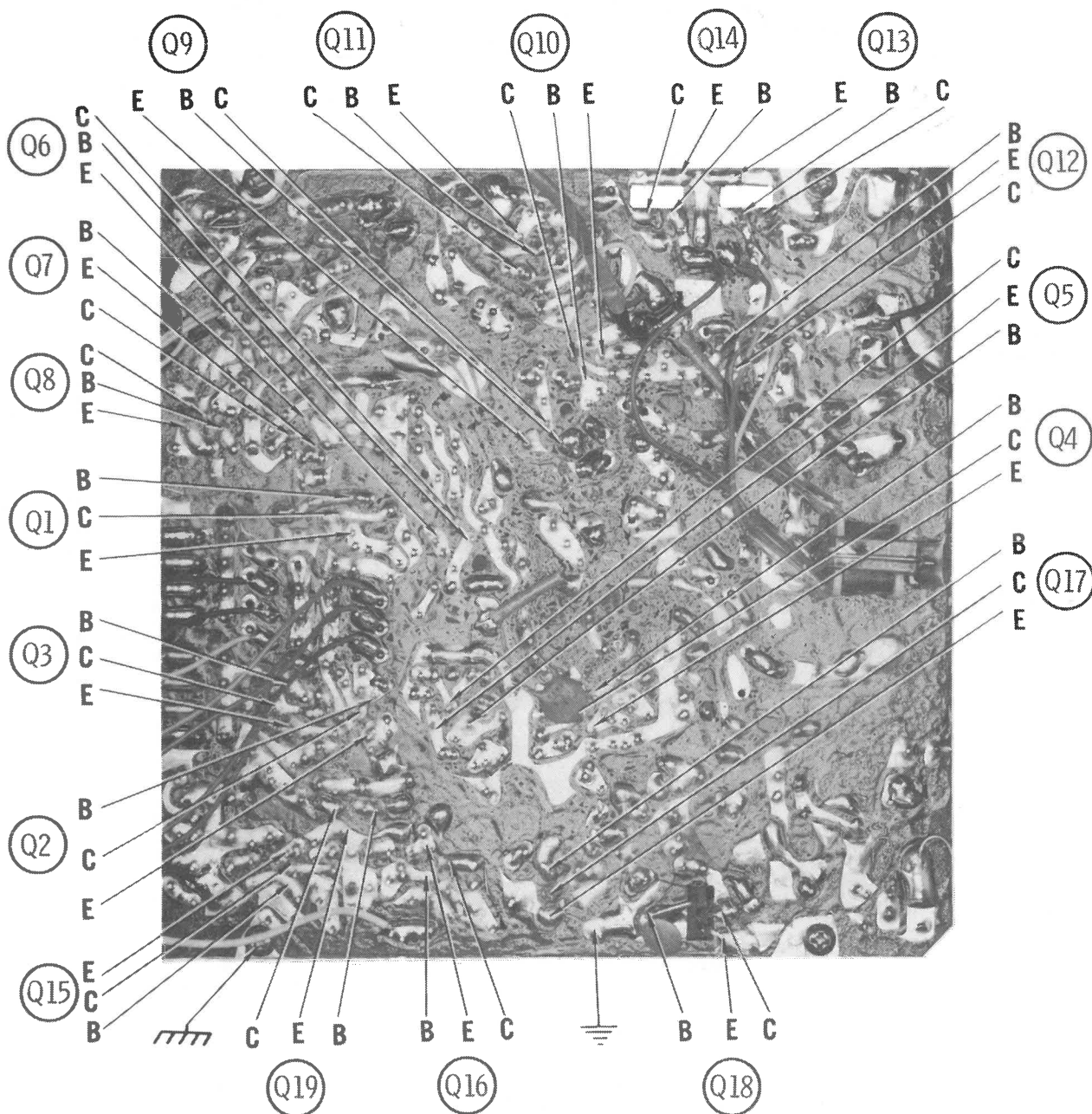
TRANSMITTER ADJUSTMENTS

Connect an RF Wattmeter or 50-ohm, 25-watt dummy load to antenna connector.
Adjustments made with 14-volt DC input or 120-volt AC input to power supply.

INDICATOR	ADJUST	REMARKS
AMC Input of modulation meter to antenna jack, common to ground.	VR4	Disable AMC. Inject a 1000Hz signal at mic input. Key transmitter. Adjust for 110% modulation. Restore AMC. Adjust VR4 for 100% modulation maximum.
RF PANEL METER Input of RF Wattmeter to antenna jack, common to ground.	VR6	Key transmitter. Adjust so that panel RF meter agrees with RF Wattmeter.

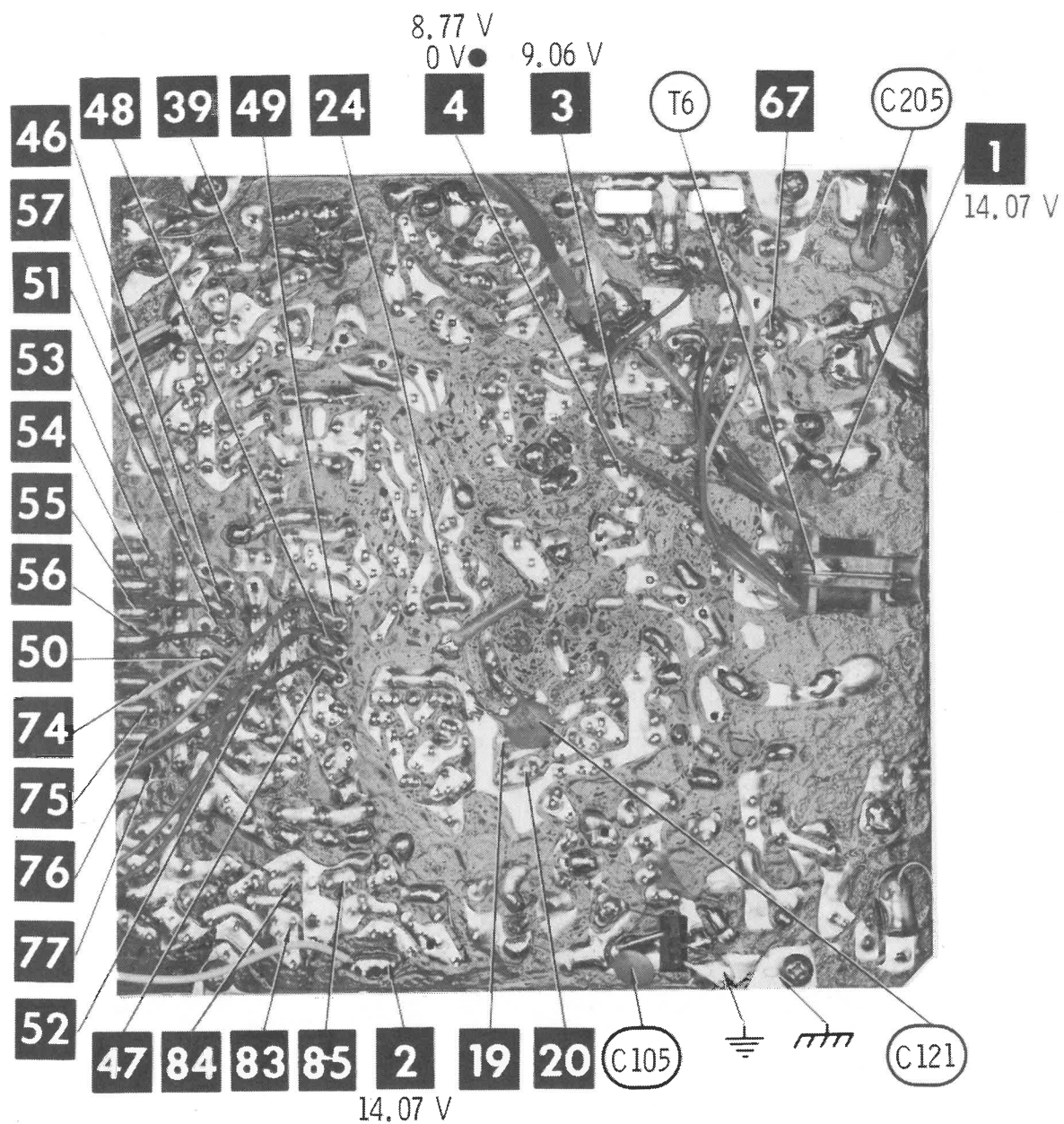


MAIN BOARD

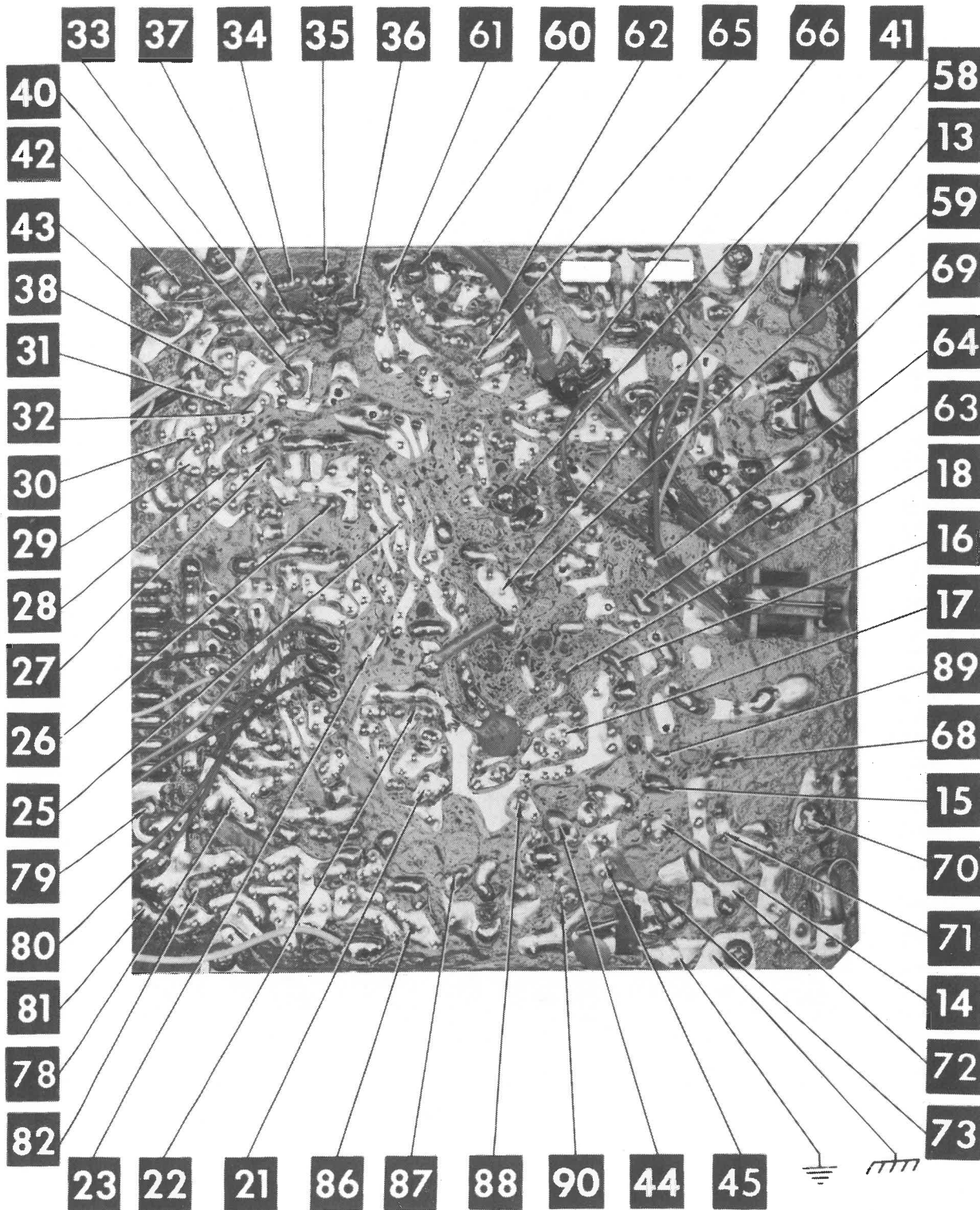


MAIN BOARD



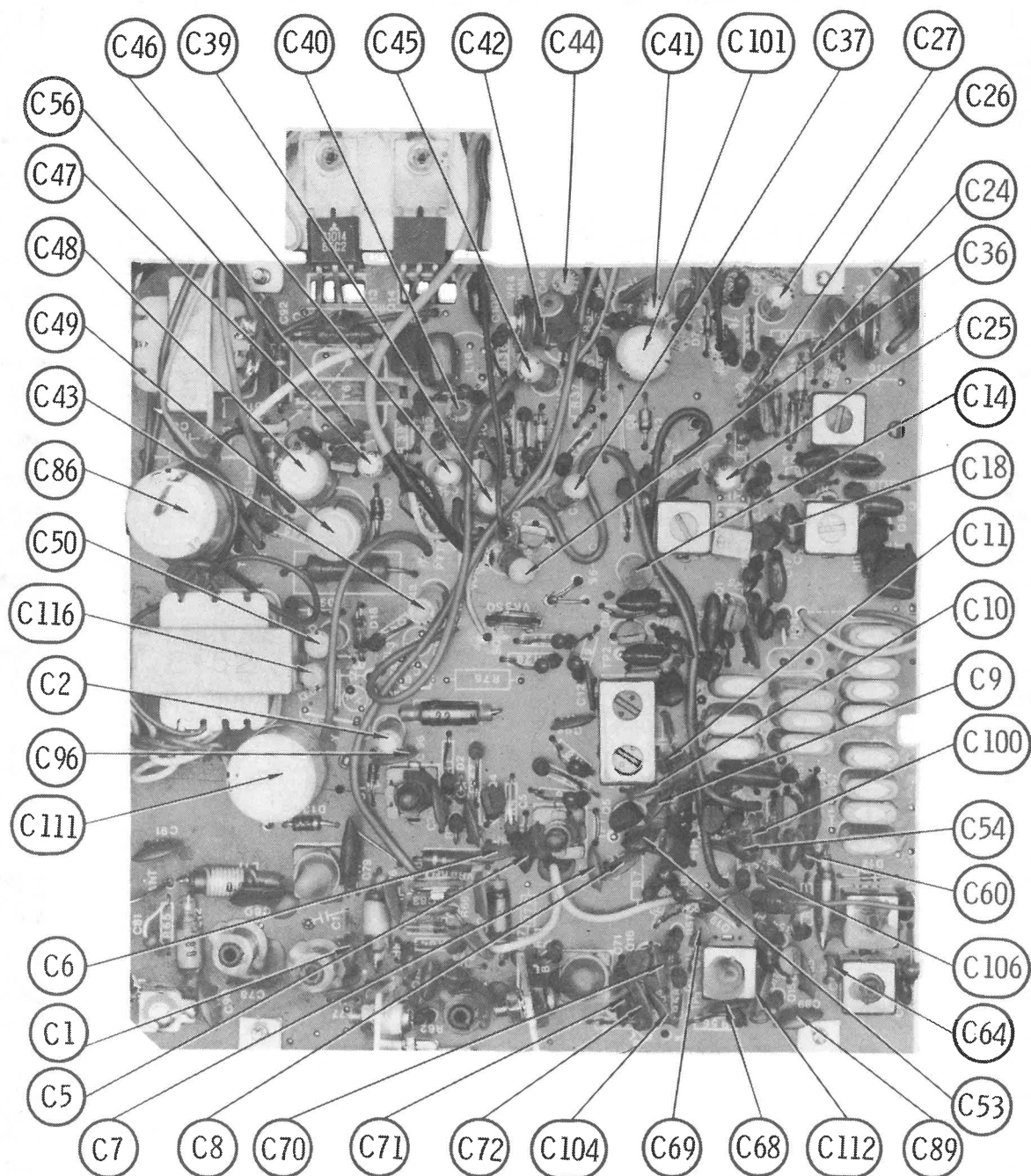


MAIN BOARD

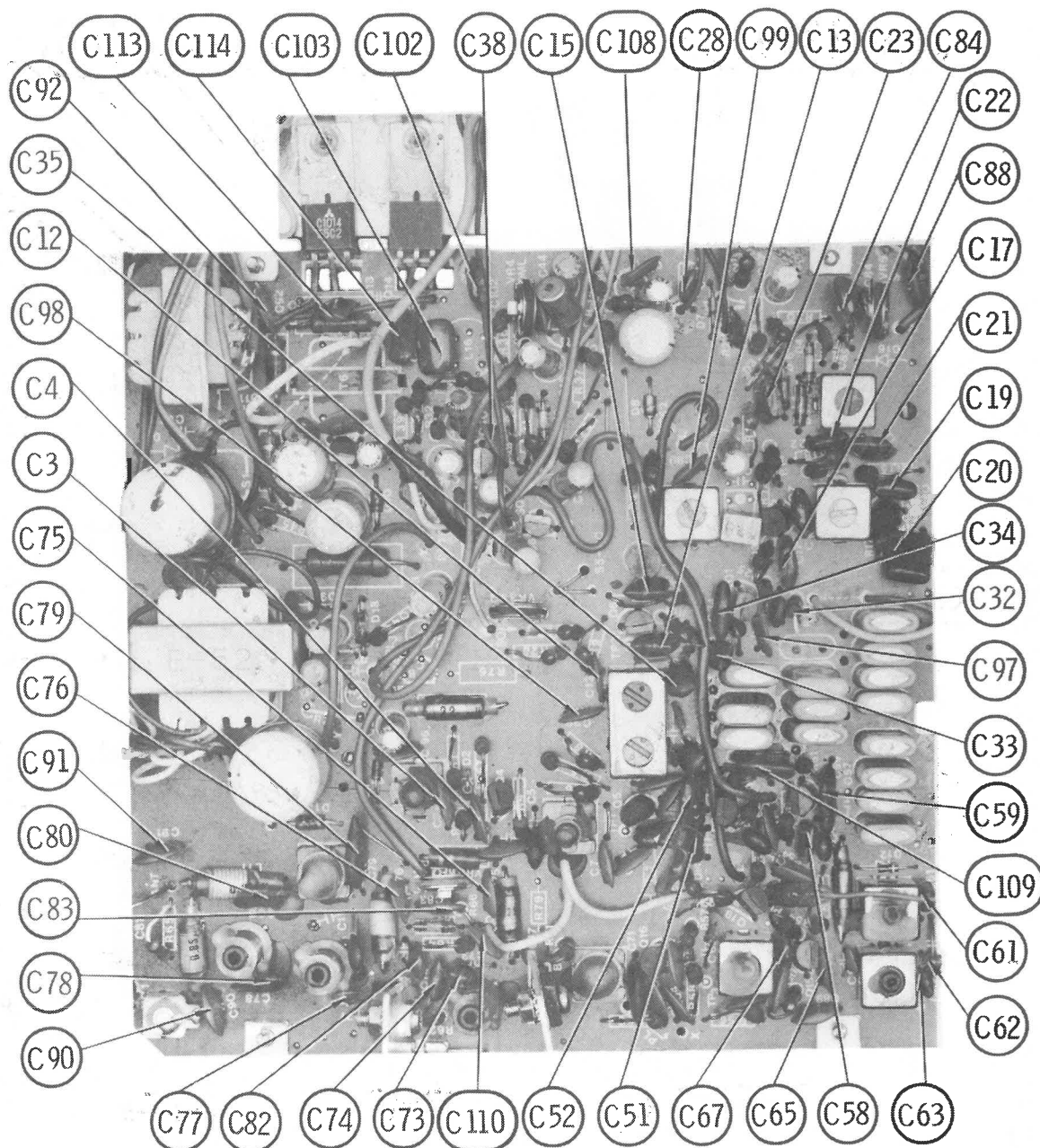


AMERICAN ELECTRONICS MODELS 76-501/-601

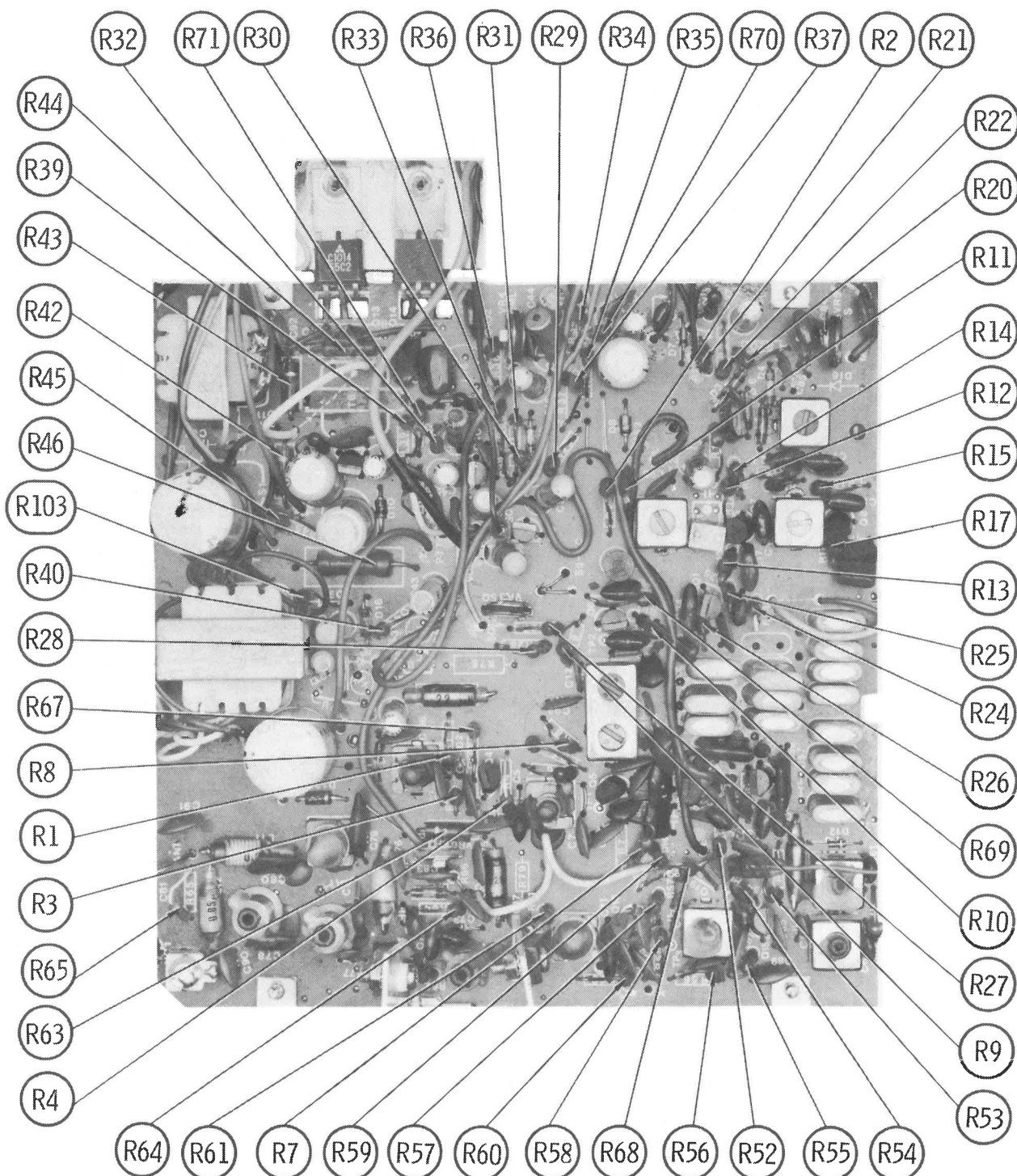
MAIN BOARD



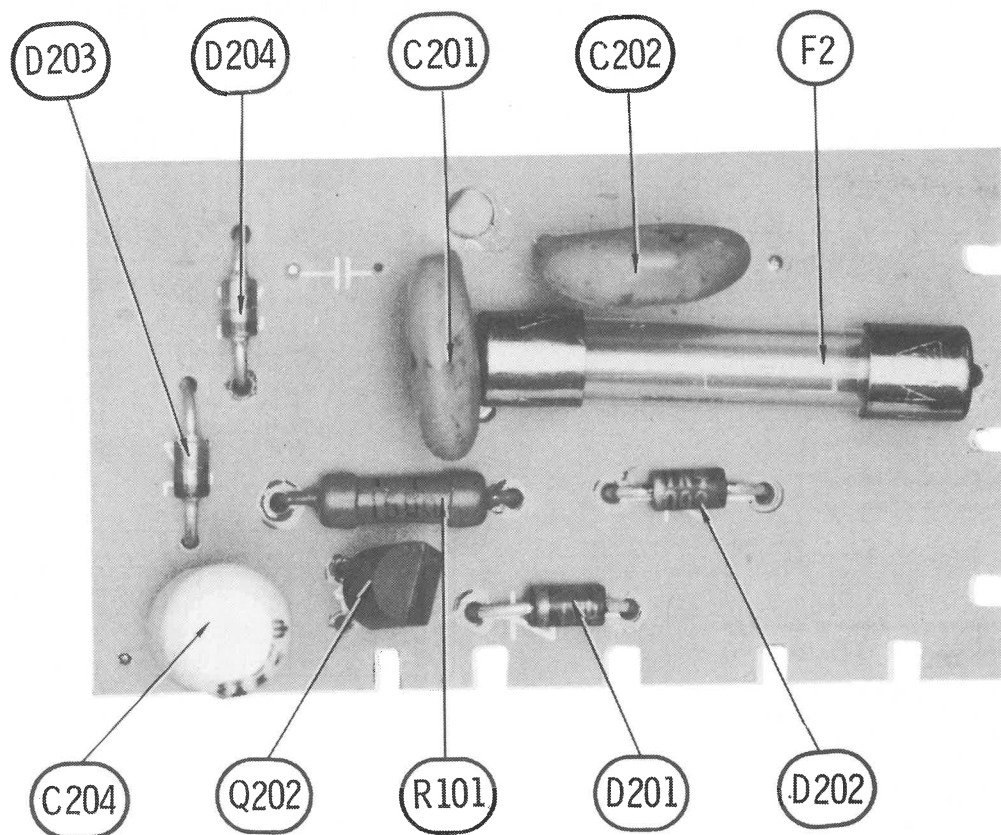
MAIN BOARD



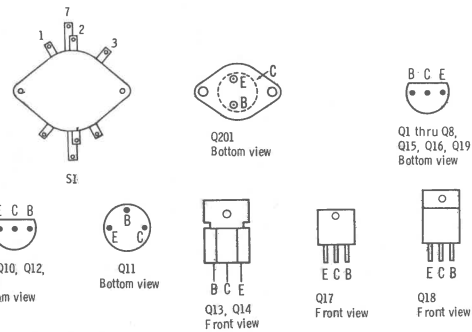
MAIN BOARD



MAIN BOARD

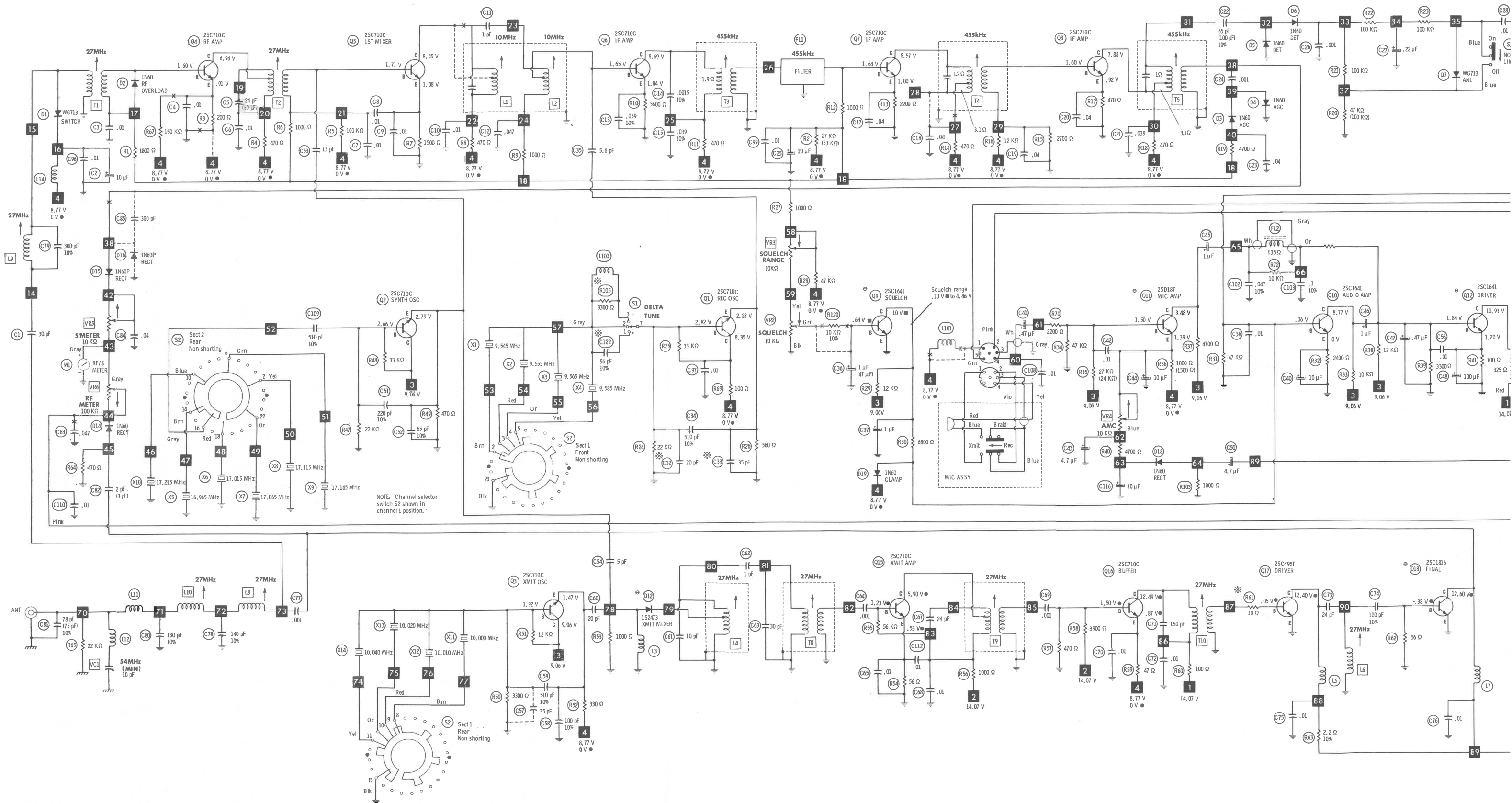


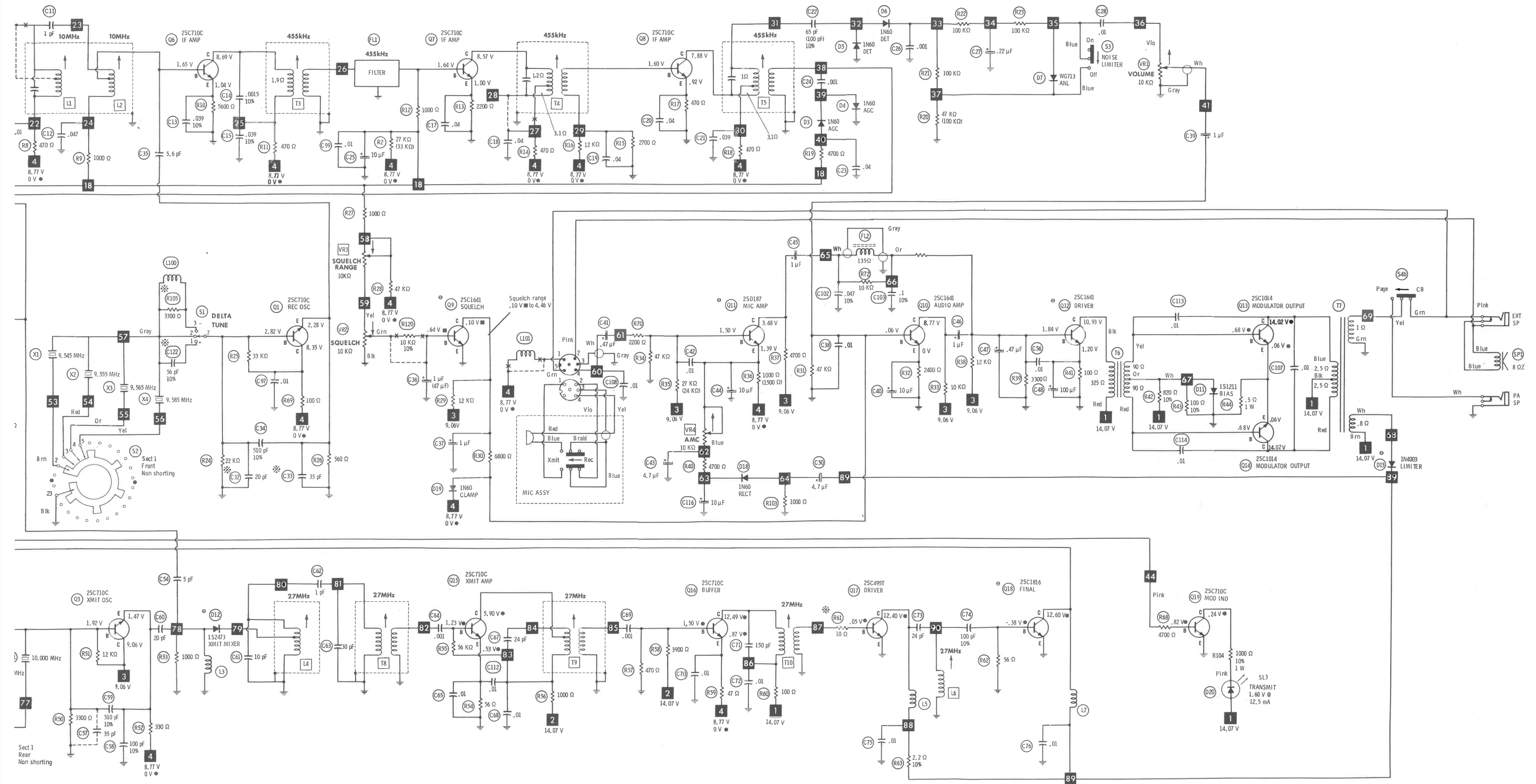
POWER SUPPLY BOARD



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Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	X5, X1, X11	7	X6, X3, X13	13	X8, X1, X11	19	X9, X3, X13
2	X5, X2, X12	8	X6, X4, X14	14	X8, X2, X12	20	X9, X4, X14
3	X5, X3, X13	9	X7, X1, X11	15	X8, X3, X13	21	X10, X1, X11
4	X5, X4, X14	10	X7, X2, X12	16	X8, X4, X14	22	X10, X2, X12
5	X6, X1, X11	11	X7, X3, X13	17	X9, X1, X11	23	X10, X4, X14
6	X6, X2, X12	12	X7, X4, X14	18	X9, X2, X12		





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

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. 8497 3-Conductor (1 shielded for Press-to-Talk) Neoprene 8491 4-Conductor (2 shielded, 2 unshielded) Neoprene

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	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D2	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D3	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D4	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D5	1N60	(1)	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D6	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D7	WG713		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D8	BZ090		GEZD-9.1	Z1209	ZB9.1B	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D9	WG91	(1)	GEZD-9.1	Z1209	ZB9.1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D10	BZ090		GEZD-9.1	Z1209	ZB9.1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D11	WG91		GEZD-9.1	Z1209	ZB9.1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D12	1S1211		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D13	1S2473	(1)	GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D14	1S2472		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D15	1N4003		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D16	1N4002		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D17	1N60P	(1)	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D18	1N60P		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D19	1N4002		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D20	1N60		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D21	1N60	(10)	1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D22	SL3		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D23	SL3		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D24	1N4003		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D25	1N4003	(15)	GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D26	BZ071		GE-504A	5A6D	PTC202	HEPR0054	RE 49	SK3017A	RT-215	ECG116
D27	BZ071		GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
D28	V03C		GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q1	2SC710C	(1)	GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q2	2SC710C		GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q3	2SC710C		GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q4	2SC710C		GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q5	2SC710C	(1)	GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q6	2SC710C		GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q7	2SC710C		GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q8	2SC710C		GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q9	2SC1641	(1)	GE-20	TR-24	PTC136	HEPS0015	RE 13	SK3122	RT-107A	ECG123A
Q10	2SC710C		GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q11	2SC711		GE-62	(1R)2SC644	PTC121	HEPS0014	RE 192	SK3124	RT-108A	ECG199
Q12	2SD187		GE-59	TR-08	PTC134	HEPG6011	RE 6	SK3010	RT-129	ECG103A
Q13	2SD77	(1)	GE-59	TR-08	PTC108	HEPG6011	RE 6	SK3010	RT-129	ECG103A
Q14	2SC1641		GE-20	TR-24	PTC136	HEPS0015	RE 13	SK3122	RT-107A	ECG123A
Q15	2SC710C		GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q16	2SC711		GE-62	(1R)2SC644	PTC121	HEPS0014	RE 192	SK3124	RT-108A	ECG199
Q17	2SD187	(1)	GE-59	TR-08	PTC134	HEPG6011	RE 6	SK3010	RT-129	ECG103A
Q18	2SD77		GE-59	TR-08	PTC108	HEPG6011	RE 6	SK3010	RT-129	ECG103A
Q19	2SC1641		GE-20	TR-24	PTC136	HEPS0015	RE 13	SK3122	RT-107A	ECG123A
Q20	2SC710C		GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q21	2SC711	(1)	GE-62	(1R)2SC644	PTC121	HEPS0014	RE 192	SK3124	RT-108A	ECG199
Q22	2SC1014		GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q23	2SC1014		GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q24	2SC710C		GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q25	2SC710C	(11)	GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q26	2SC495T		GE-216	PTC180	PTC186	HEPS0016	RE 203	SK3197	RT-105	ECG295
Q27	2SC1816		GE-216	PTC186	PTC186	HEPS0016	RE 203	SK3197	RT-105	ECG295
Q28	2SC1678		GE-216	PTC186	PTC186	HEPS0016	RE 203	SK3197	RT-105	ECG295
Q29	2SC710C	(10)	GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q30	2SC710C		GE-211	(1R)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
Q31	EC961		GE-14	TR-59	PTC119	HEPS7004	RE 19	SK3027	RT-131	ECG130
Q32	2SC1364		GE-20	(1R)2SC829B	PTC121	HEPS0015	RE 13	SK3124	RT-172	ECG123A

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.
C2	10 16V	(1)	PC10-25	VTT10A25	EV-1222
C25	10 16V		PC10-25	VTT10A25	EV-1222
C27	.22 50V			TDC224M050EL	SD50-R229
C36	1 50V		PC1-50	MTV1CB50	EV-1615
C37	1 50V		PC1-50	MTV1CB50	EV-1615
C39	1 50V		PC1-50	MTV1CB50	EV-1615
C30	10 16V		PC10-25	VTT10A25	EV-1222
C41	.47 16V		PC1-50	VTT47B63	EV-1310
C43	4.7 25V		PC5-50	VTT47A50	EV-1319
C44	10 16V		PC10-25	VTT10A25	EV-1222
C45	1 50V		PC1-50	MTV1CB50	EV-1615
C46	1 50V		PC1-50	MTV1CB50	EV-1615
C47	.47 16V		PC1-50	VTT47B63	EV-1310
C48	100 16V		PC100-16	VTT100F16	EV-1230
C49	220 16V		PC250-25	VTT220G16	EV-1240
C50	4.7 25V		PC5-50	VTT47A50	EV-1319
C86	1000 16V		PC1000-16	VTT1000L16	EV-1260
C101	220 16V		PC250-25	VTT220G16	EV-1240
C203	3300 35V		AA0155A		TVA-1318.4
C204	100 16V		PC100-16	VTT100F16	EV-1230
C111	1000 16V		PC1000-16	VTT1000L16	EV-1260
C116	10 16V		PC10-25	VTT10A25	EV-1222

(1) Used in Model 76-601.

CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	30			CD6ED300J03	SX430	
C3	.01		DC-103	GP10000	MAG5011	2SS-S10
C4	.01		DC-103	GP10000	MAG5011	2SS-S10
C5	24			CD6ED240J03	SX424	MS-424
C5	24		DC-103	GP10000	MAG5011	2SS-S10
C7	.01		DC-103	GP10000	MAG5011	2SS-S10
C8	.01		DC-103	GP10000	MAG5011	2SS-S10
C9	.01		DC-103	GP10000	MAG5011	2SS-S10
C10	.01		DC-103	GP10000	MAG5011	2SS-S10
C11	1			CN0510		10TCC-V10
C12	.047		DC-503	MGP05	MAG5015	TGL-S50
C13	.039 10%			DPMS6S39	PVC6139	6PS-S39
C14	.0015 10%			CD19FD152J03	SX215	424ME1501J501
C15	.039 10%			DPMS6S39	PVC6139	6PS-S39
C17	.04 10%			DPMS6S39	PVC6139	6PS-S39
C18	.04			DPMS6S39	PVC6139	6PS-S39
C19	.04			DPMS6S39	PVC6139	6PS-S39
C20	.04			DPMS6S39	PVC6139	6PS-S39
C21	.039			DPMS6S39	PVC6139	6PS-S39
C22	65 10%			CD6ED680J03	SX468	424MC68R0J501
C23	.04			DPMS6S39	PVC6139	6PS-S39
C24	.001	DD-102	DD-102	GP1000	GP210	2SS-D10
C26	.001		DD-102	GP1000	GP210	2SS-D10
C28	.01			DPMS4S1	EWF1A110	1PB-S10
C32	20			CD6CD200J03	SX420	
C33	35			CD6ED360J03	SX436	MS-436
C34	510 10%			CD15FD511J03	SX351	424ME5100J501
C35	5.6			CD6CD050D03		
C38	.01		DC-103	GP10000	MAG5011	2SS-S10
C42	.01		DC-103	GP10000	MAG5011	2SS-S10
C51	65 10%			CD6ED680J03	SX468	424MC68R0J501
C52	220 10%	DC-103		CD10FD221J03	SX322	424ME2200J501
C53	15			CD6CD150J03		
C54	5			CD6CD050D03		
C56	.01			GP10000	MAG5011	2SS-S10
C57	35			CD6ED360J03	SX436	MS-436
C58	100 10%			CD10FD101J03	SX310	424MC1000J501
C59	510 10%			CD15FD511J03	SX351	424ME5100J501
C60	20			CD6CD200J03	SX420	
C61	10			CD6CD100D03		
C62	1				CN0510	10TCC-V10
C63	30	DD-102		CD6ED300J03	SX430	
C64	.001		DD-102	GP1000	GP210	2SS-D10
C65	.01		DC-103	GP10000	MAG5011	2SS-S10
C67	24			CD6ED240J03	SX424	MS-424
C68	.01		DC-103	GP10000	MAG5011	2SS-S10
C69	.001		DD-102	GP1000	GP210	2SS-D10
C70	.01		DC-103	GP10000	MAG5011	2SS-S10
C71	150 10%			CD7FD151J03	SX315	424MC1500J501

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS(cont)

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C72	.01	(1)	DC-103	GP10000	MAG5011	2SS-S10
C73	24			CD6ED240J03	SX424	MS-424
C74	100 10%			CD10FD101J03	SX310	424MC1000J501
C75	.01		DC-103	GP10000	MAG5011	2SS-S10
C76	.01		DC-103	GP10000	MAG5011	2SS-S10
C77	.001		DD-102	GP1000	GP210	2SS-D10
C78	140 10%			CD7FD151J03	SX315	424MC1500J501
C79	300 10%			CD15FD301J03	SX330	424ME3000J501
C80	130 10%			CD7FD131J03	SX313	424MC1300J501
C81	78 10%			CD6ED750J03	SX475	424MC75R0J501
C82	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C83	.047		DC-503	MGP05	MAG5015	TGL-S50
C84	.04			DPMS4S1	EWF1A110	1PB-S10
C85	300			CD15FD301J03	SX330	424ME3000J501
C87	.01		DC-103	GP10000	MAG5011	2SS-S10
C88	.047		DC-503	MGP05	MAG5015	TGL-S50
C89	.047		DC-503	MGP05	MAG5015	TGL-S50
C90	.047		DC-503	MGP05	MAG5015	TGL-S50
C91	.047		DC-503	MGP05	MAG5015	TGL-S50
C92	.047		DC-503	MGP05	MAG5015	TGL-S50
C93	.047		DC-503	MGP05	MAG5015	TGL-S50
C96	.01		DC-103	GP10000	MAG5011	2SS-S10
C97	.01		DC-103	GP10000	MAG5011	2SS-S10
C98	.01		DC-103	GP10000	MAG5011	2SS-S10
C99	.01		DC-103	GP10000	MAG5011	2SS-S10
C100	.01	(2)	DC-103	GP10000	MAG5011	2SS-S10
C102	.047 10%			DPMS2S47	EWF1A147	1PB-S47
C103	.1 10%			DPMS2P1	EWF1A010	1PB-P10
C104	.01		DC-103	GP10000	MAG5011	2SS-S10
C105	.01		DC-103	GP10000	MAG5011	2SS-S10
C106	.01		DC-103	GP10000	MAG5011	2SS-S10
C107	.01		DC-103	GP10000	MAG5011	2SS-S10
C108	.01		DC-103	GP10000	MAG5011	2SS-S10
C109	5.0 10%			CD15FD511J03	SX351	424ME5100J501
C110	.01		DC-103	GP10000	MAG5011	2SS-S10
C112	.01		DC-103	GP10000	MAG5011	2SS-S10C113
C113	.01			DPMS4S1	EWF1A110	1PB-S10
C114	.01			DPMS4S1	EWF1A110	1PB-S10
C121	.01		DC-103	GP10000	MAG5011	2SS-S10
C122	56 10%			CD6ED560J03	SX456	424MC56R0J501
C201	.0022				GP222	10TS-D22
C202	.0022				GP222	10TS-D22
C205	.01		DC-103	GP10000	MAG5011	2SS-S10

(1) Used in Model 76-501.

(2) Used in Model 76-601.

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA			
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	TRW PART No.
VR1	Volume/Power Switch	10K	(1) (18)	F2-10K (1), SSK014,KR-7	A47-10K-Z (1), KSS-3,SWE-20 or [NP-10K-Z (1), UP-C-400,NWE-20	RU14A,SL36, SL1500,US42 or [UA14A (1), SK1000,US27]
VR1	Volume/Power Switch	10K				
VR2	Squelch	10K				
VR3	Squelch Range	10K		T-10K (2)	C-103 (2)	MTC14L1 (2)
VR4	AMC	10K		T-10K (2)	C-103 (2)	MTC14L1 (2)
VR5	S Meter	10K		T-10K (2)	C-103 (2)	MTC14L1 (2)
VR6	RF Meter	100K		T-100K (2)	C-104 (2)	MTC15L1 (2)

(1) Enlarge mounting hole.

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

(18) Used in Model 76-601.

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.	
FL2	Audio Filter		K-58		
L1	Rec Mixer (10mHz)		42K10		
L2	Rec Mixer (10mHz)		42K10		
L3	RF Choke				
L4	Xmit Osc. (27mHz)		Y1		
L5	RF Choke				
L6	Xmit Driver (27mHz)				
L7	RF Choke				
L8	Ant. Match (27mHz)				
L9	Rec Ant (27mHz)		343		
L10	Pi Filter (27mHz)				
L11	Fi Filter (27mHz)				
L12	TVI Trap (54mHz)				
L14	RF Choke				
L100	RF Choke		3R3		
L101	RF Choke				
T1	Rec Ant (27mHz)		360		
T2	Rec RF (27mHz)		362		
T3	IF (455KHz)				
T4	IF (455KHz)		EIA227B		
T5	IF (455KHz)		A293A		
T8	Harmonic Suppressor (27mHz)		3Y		
T9	Xmit Amp (27mHz)		305		
T10	Xmit Buffer		42D		

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.	
L13	1.8A	.2	2mH	K-10 (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.	
T6	1.3	1		A-31 (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.	
T7	50	8	E-52 (1)			(1) Number on unit.

AMERICAN ELECTRONICS MODELS 76-501/-601

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T201	120VAC @ 440mA AC	40V AC @ 1.4A AC	PT-1215 (1)(2)			(1) Number on unit. (2) Model 76-601.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3" PM, 8 ohms		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 F2	2 Amp Fast Acting (1) 1 Amp Fast Acting (1) 2 Amp Fast Acting (2)			AGC2 GJV-1 AGC2	HKP HKP	312002 318001 312002	342012AL 342012AL	F62-2 F62-2

- (1) Used in Model 76-601
(2) Used in Model 76-501.

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	9.545		SC230W9.545	1,5,9,13,17,21	X8	17.115		SA60W17.115	13,14,15,16
X2	9.555		SC230W9.555	2,6,10,14,18,22	X9	17.165		SA60W17.165	17,18,19,20
X3	9.565		SC230W9.565	3,7,11,15,19	X10	17.215		SA60W17.215	21,22,23
X4	9.585		SC230W9.585	4,8,12,16,20,23	X11	10.000		SB125W10.000	1,5,9,13,17,21
X5	16.965		SA60W16.965	1,2,3,4	X12	10.010		SB125W10.010	2,6,10,14,18,22
X6	17.015		SA60W17.015	5,6,7,8	X13	10.020		SB125W10.020	3,7,11,15,19
X7	17.065		SA60W17.065	9,10,11,12	X14	10.040		SB125W10.040	4,8,12,16,20,23

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
FL1 M1 S1 S2 S3 S4	Filter Meter Switch Switch Switch Switch		455KHz S/RF Delta Tune Channel Selector ANL Page/CB