



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.



ZODIAC MODEL M-5026

MODEL M-5026

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:

L6,L7,L8,L9,L14,L15,L17.....8728
 L1 thru L5,L11,L12,L13.....9440

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Input of frequency counter to Q6 emitter.	Ch. 13 Ch. 17 Ch. 21 Ch. 1 Ch. 5 Ch. 9		Check for 37.750MHz. Check for 37.800MHz. Check for 37.850MHz. Check for 37.600MHz. Check for 37.650MHz. Check for 37.700MHz.
Input of frequency counter to Q7 emitter.	Ch. 13 Ch. 14 Ch. 15 Ch. 16		Check for 10.180MHz. Check for 10.170MHz. Check for 10.160MHz. Check for 10.140MHz.
Input of frequency counter to Q15 emitter.	Ch. 13, Xmit Ch. 14, Xmit Ch. 15, Xmit Ch. 16, Xmit		Check for 10.635MHz. Check for 10.625MHz. Check for 10.615MHz. Check for 10.595MHz.

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 Q3 base. 455kHz,1000Hz @ 30% modulation.	Ch. 13	L9,L8,L7,L6	Adjust for maximum output.
Output of signal generator thru .01uF to Q2 base. 10.635MHz,1000Hz @ 30% modulation.	Ch. 13	L5,L4	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.115MHz,1000Hz @ 30% modulation.	Ch. 13	L3,L2,L1	Adjust for maximum output. Repeat above steps, if necessary.

RECEIVER ADJUSTMENTS

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

TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.115MHz,1000Hz @ 30% modulation. Output 10uV.	Ch. 13	R17	IF GAIN Turn volume control R27 fully clockwise. Adjust R17 for 3 watts audio.
Output of signal generator thru .01uF to antenna jack. 27.115MHz,1000Hz @ 30% modulation. Output 50uV.	Ch. 13	R43	SQUELCH RANGE Turn squelch control R41 fully clockwise. Adjust R43 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.115MHz,1000Hz @ 30% modulation. Output 100uV.	Ch. 13	R20	S METER Adjust R20 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.

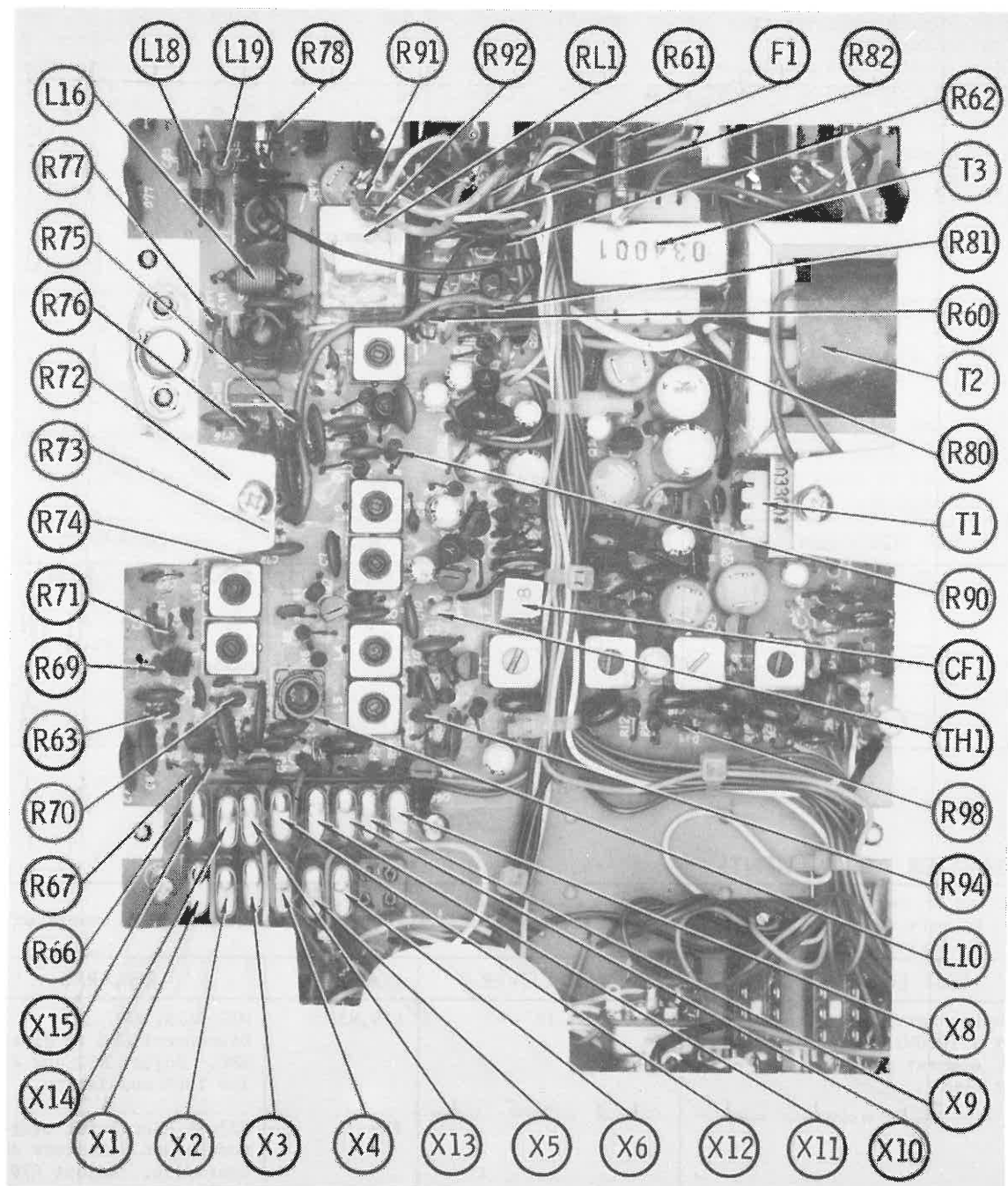
TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
	Ch. 13	L11,L12,L13, L14,L15,L17	Adjust for maximum.
	Ch. 13	L17	Adjust for 4 watts maximum.

TRANSMITTER ADJUSTMENTS

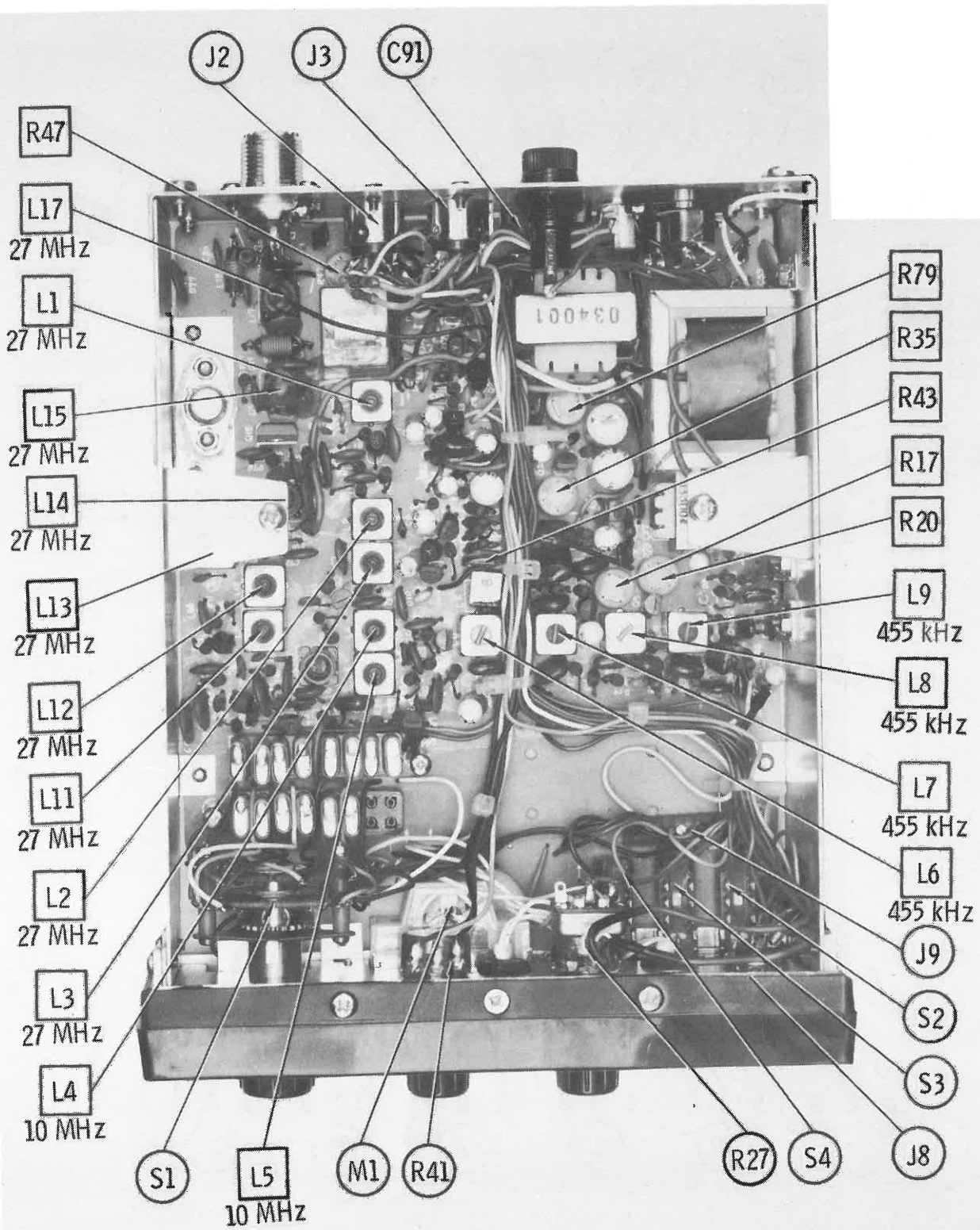
Connect an RF wattmeter and 50-ohm, 25-watt dummy load to antenna connector.

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

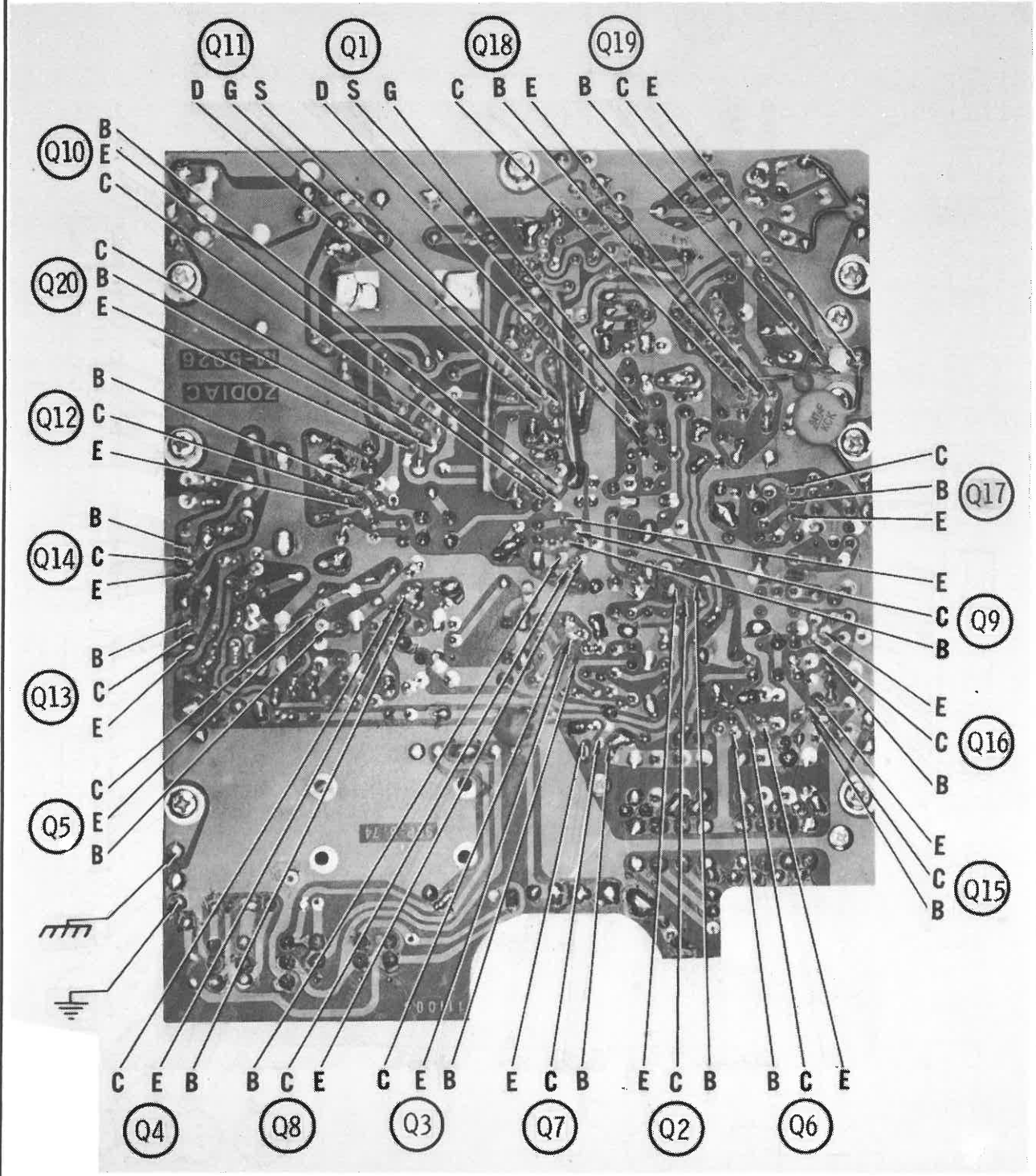
TEST EQUIPMENT	TRANSCEIVER	ADJUST	REMARKS
Modulation meter to antenna jack. Inject a 1000Hz signal at junction of MIC element and R83. Output 10mV.	Ch. 13	R89,R35	MIC GAIN, AMC Disconnect C86 to disable AMC. Adjust R89 and R35 for 100% modulation.
		R79	Adjust signal for over-modulation. Restore AMC operation. Adjust R79 for 100% modulation maximum. Reconnect C86.
	Ch. 13	R47	PANEL RF METER Adjust R47 so panel RF meter agrees with RF wattmeter.



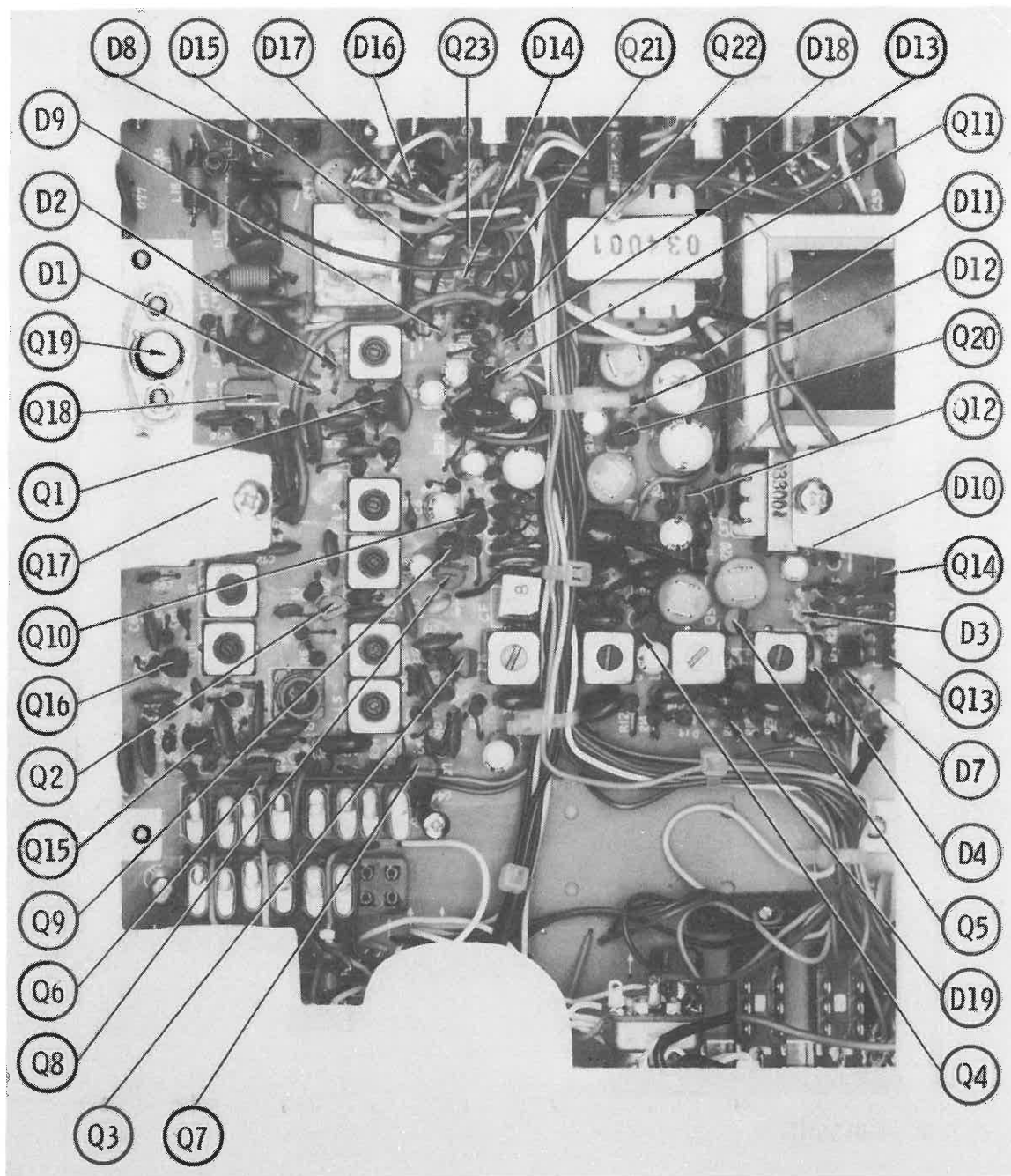
MAIN BOARD



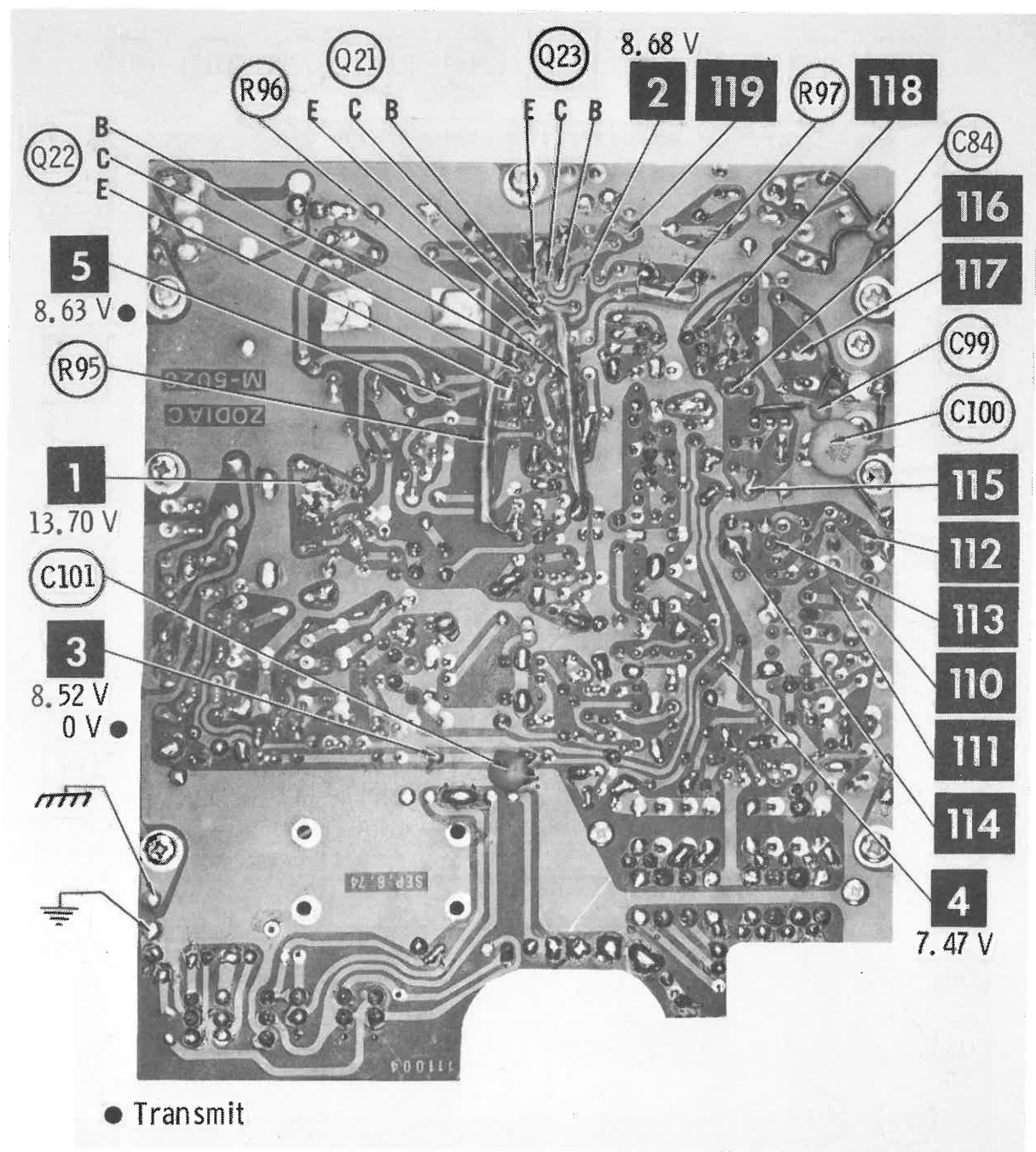
CHASSIS - BOTTOM



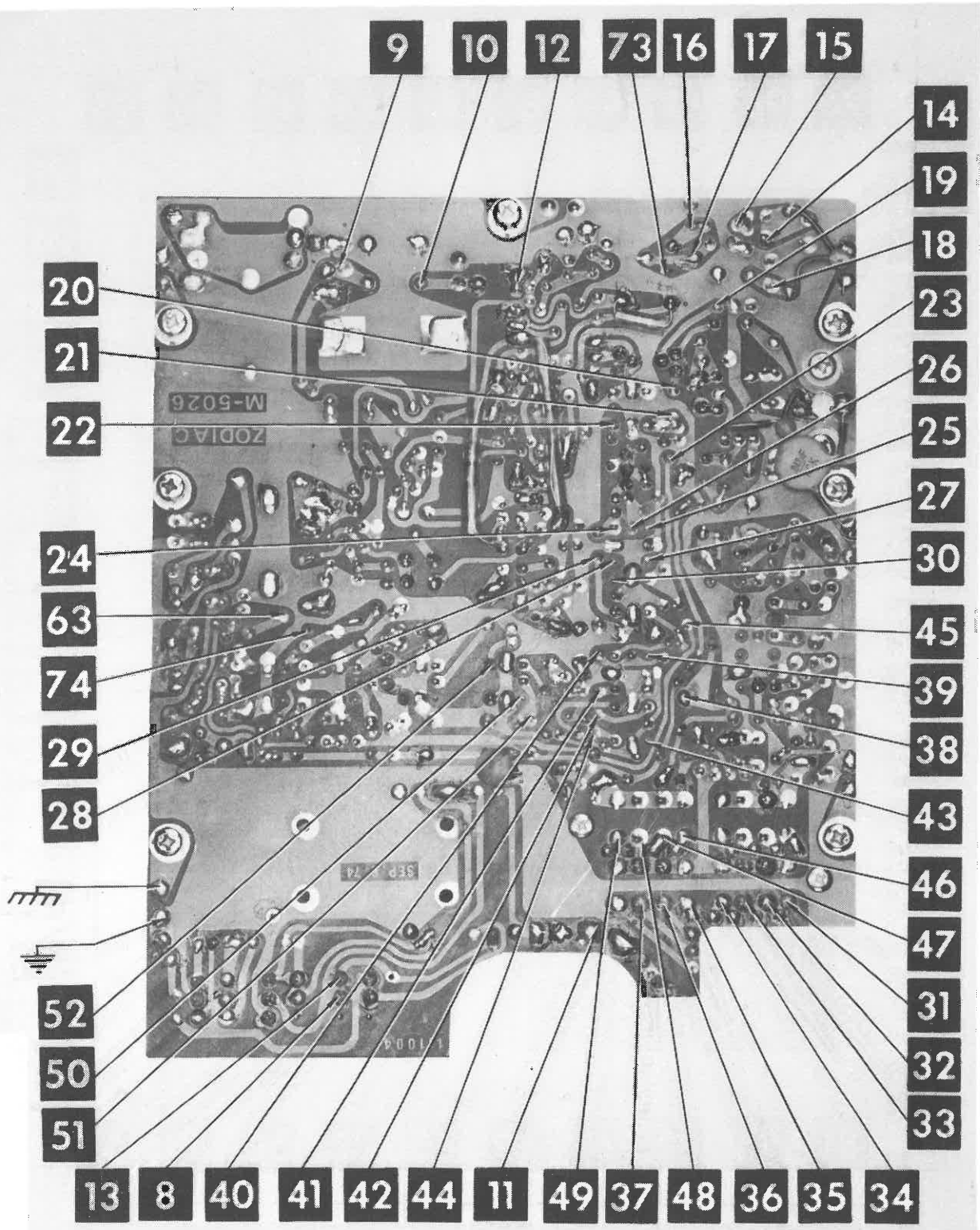
MAIN BOARD



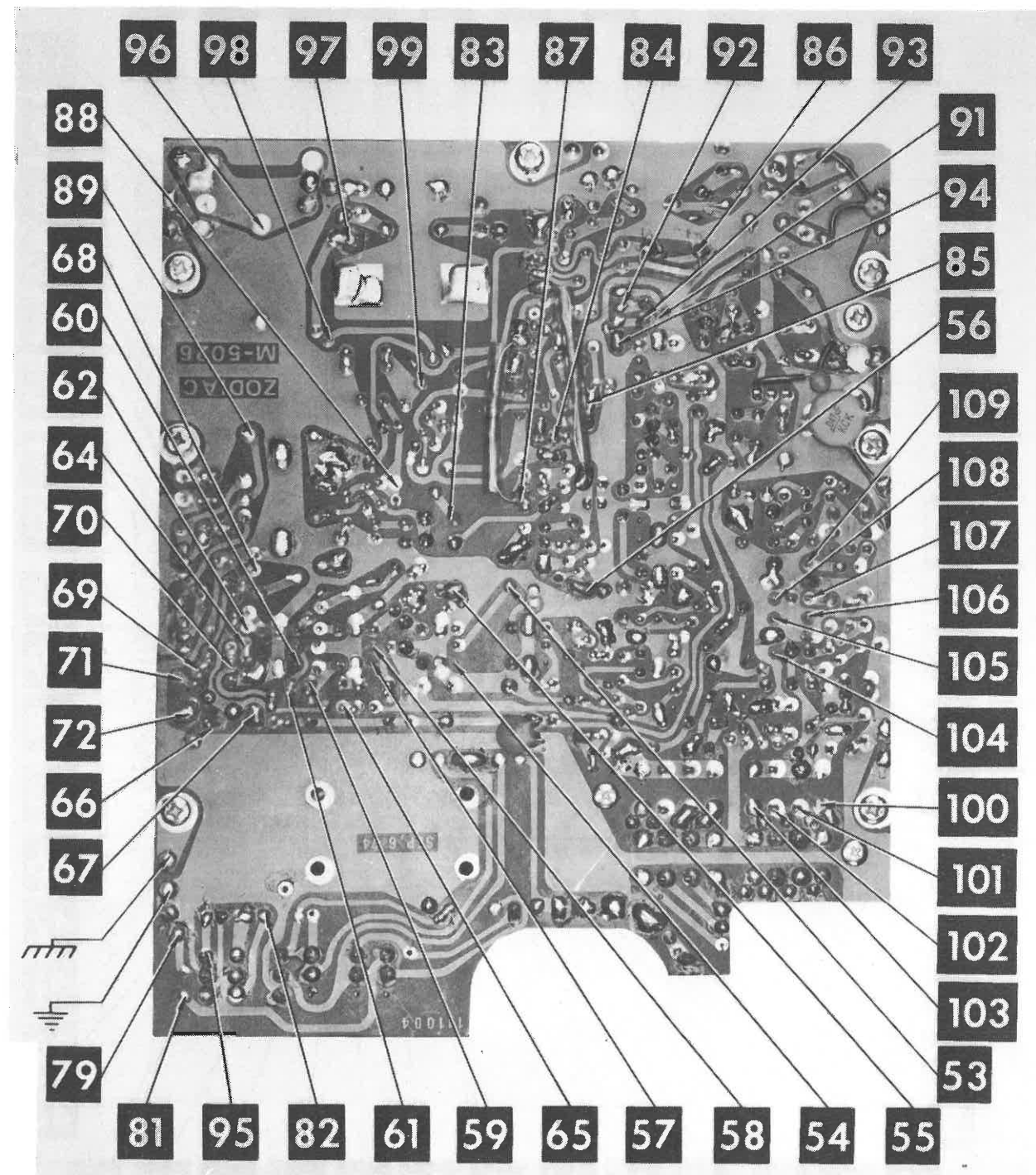
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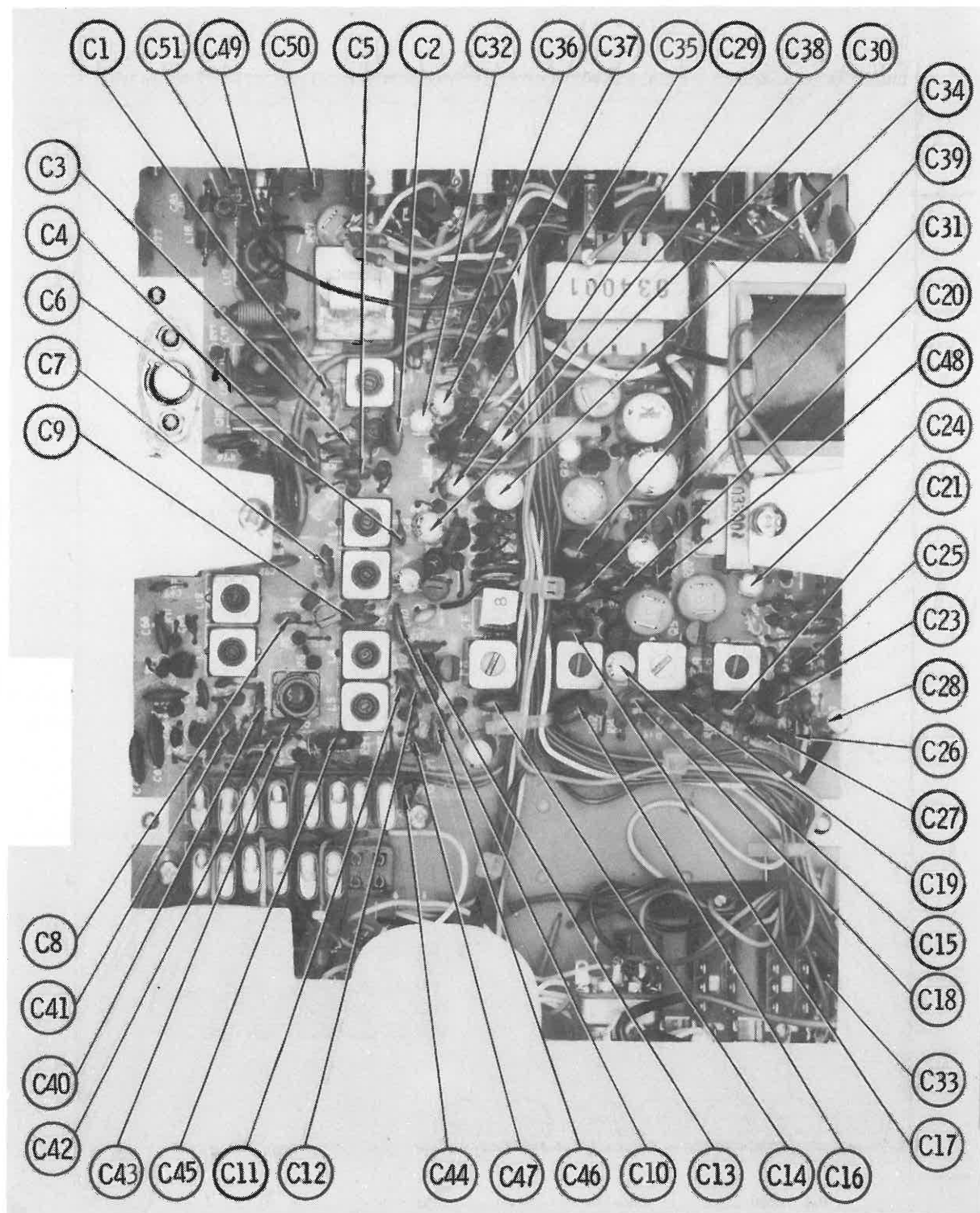
MAIN BOARD

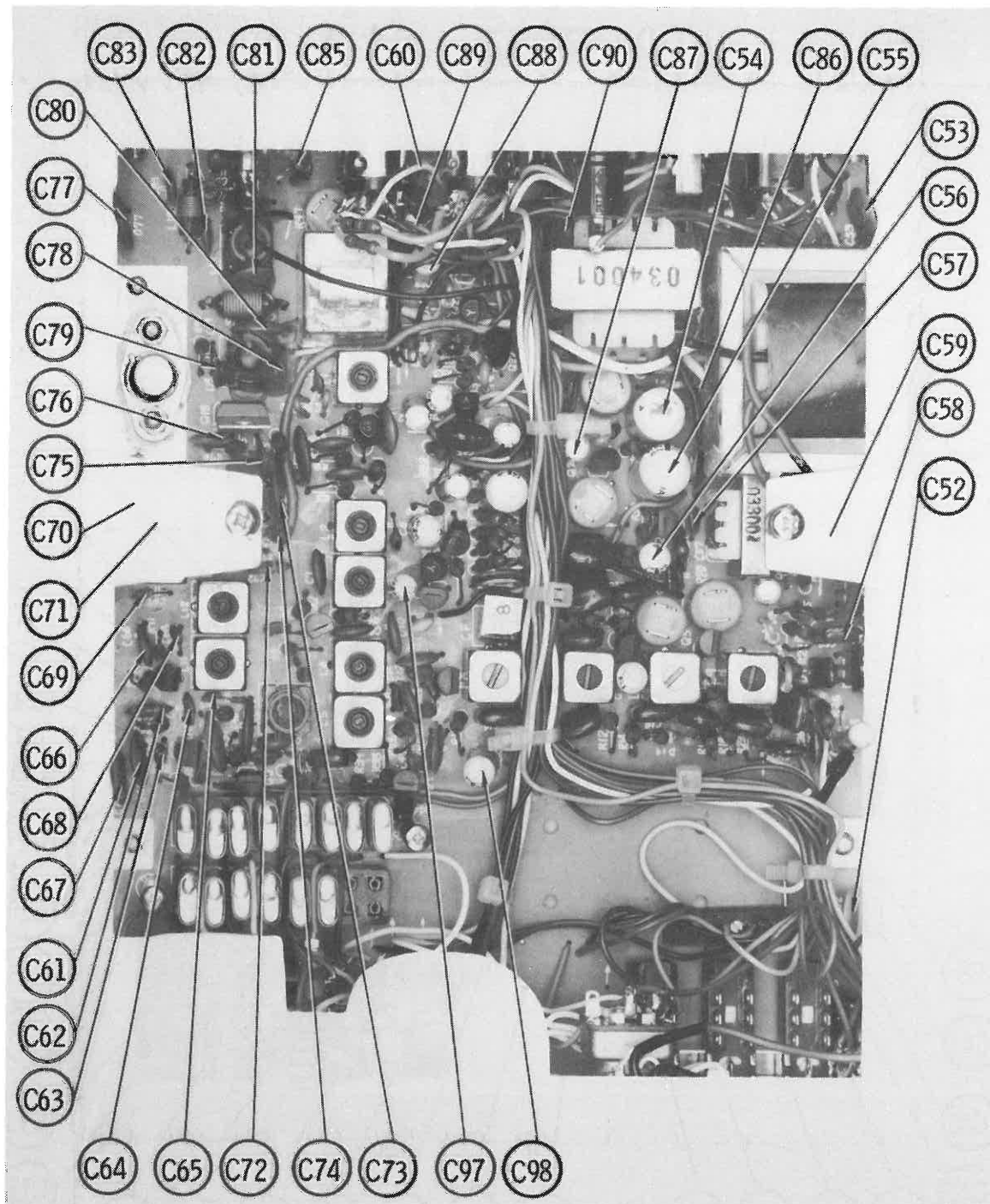


MAIN BOARD

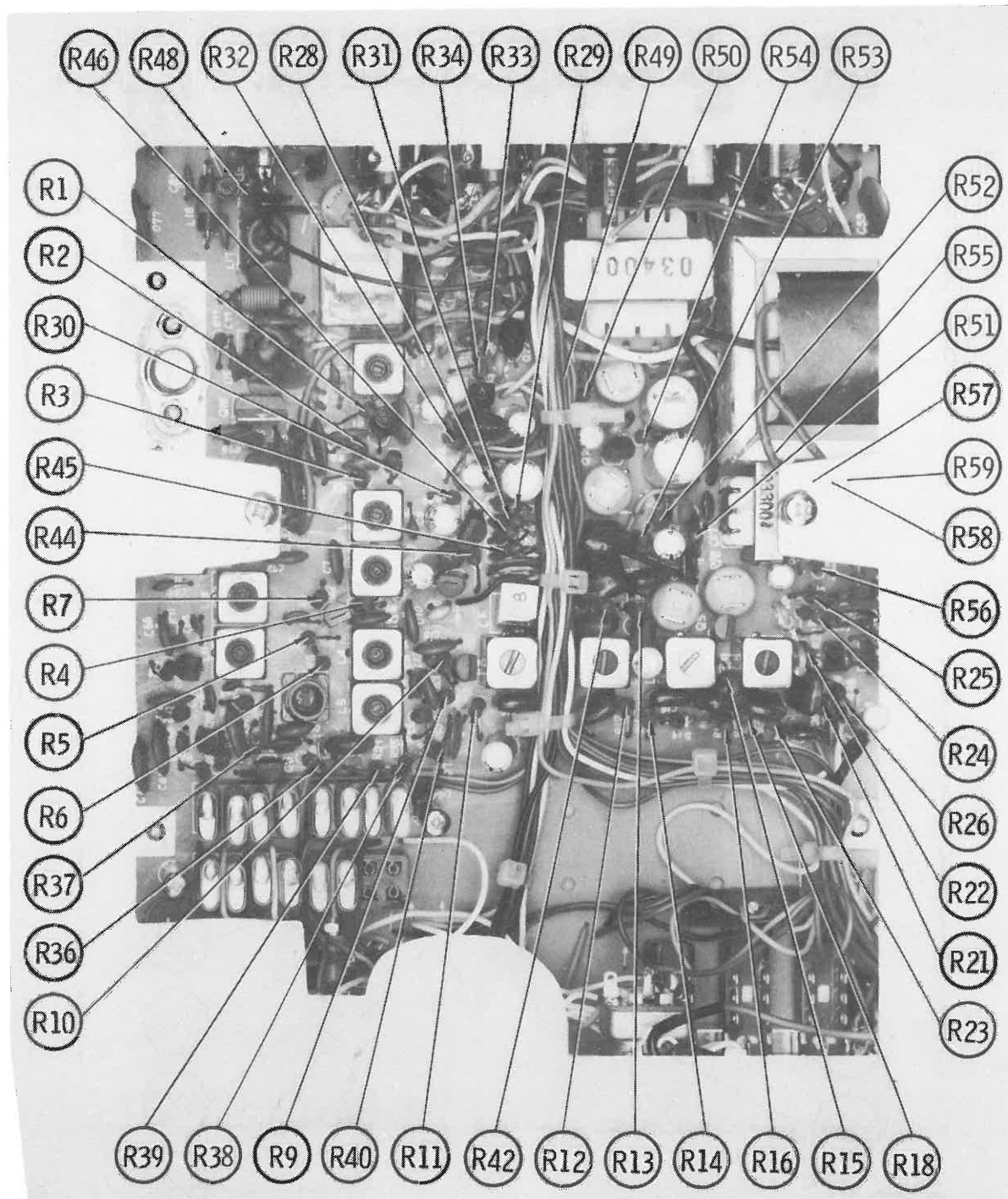


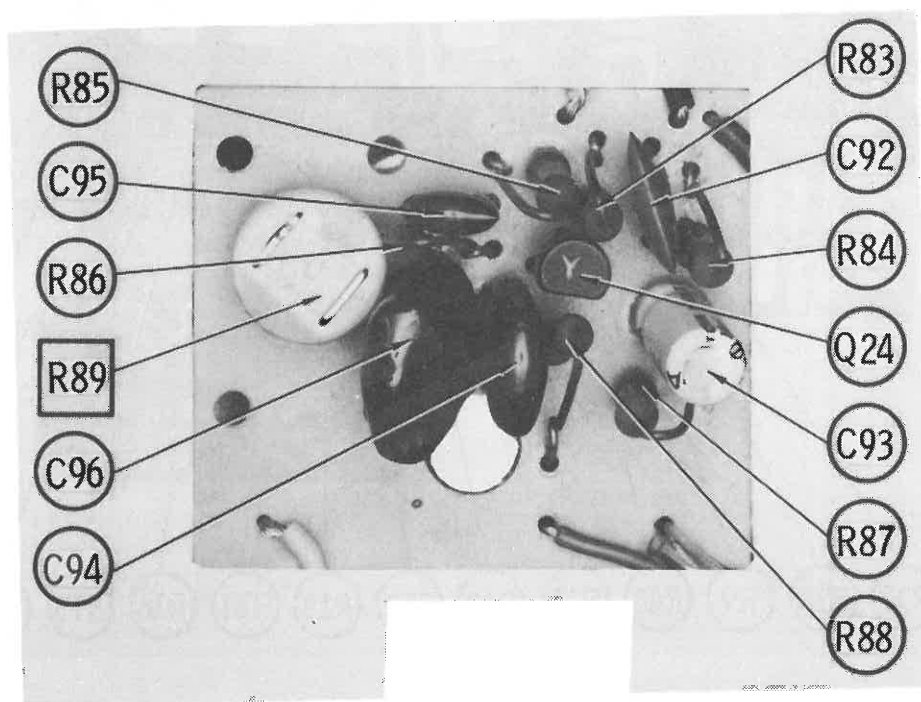
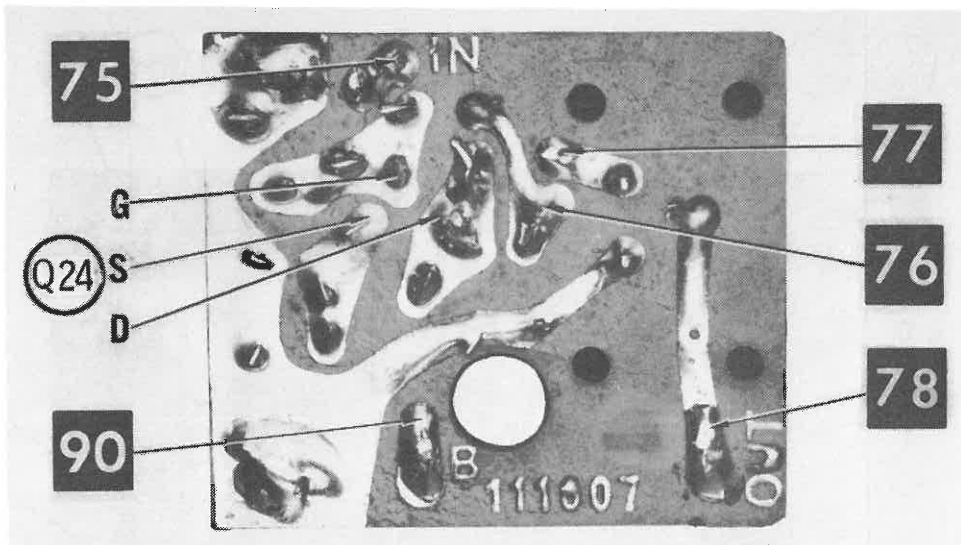
MAIN BOARD





MAIN BOARD





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	1N4448		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D2	1N4448		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D3	1S34		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D4	1S34		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D7	1S84		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D8	1S34		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D9	1S953		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D10	M8513				PTC301					
D11	1S84		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D12	1S84		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D13	V06B		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D14	1S34		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D15	V06B		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D16	AW09		GEZD-9.1	Z1209	ZB9.1A	HEPZ0412	RE 114	SK3060	RT-240	ECG139
D17	V06B		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D18	V06B		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D19	1S993		GEZD-3.3	ZM3.3		HEPZ0401	RE 100			ECG5065
Q1	2SK19GR		GE-FET-2	FE-100	PTC161 *	HEPF0021	RE 45 *	SK3116	RT-175 *	ECG312 *
Q2	2SC710C		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q3	2SC710C		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q4	2SC710B		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q5	2SC710B		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q6	2SC710D		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q7	2SC710D		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q8	2SC712C		GE-47 *	(IR)2SC644	PTC121	HEPS0015 *	RE 13 *	SK3124 *	RT-302 *	ECG123A *
Q9	2SA562Y		GE-82 *	TR-20 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-106	ECG290
Q10	2SC712C		GE-47 *	(IR)2SC644	PTC121	HEPS0015 *	RE 13 *	SK3124 *	RT-302 *	ECG123A *
Q11	2SK30AY		GE-FET-1	FE-100 *	PTC151 *	HEPF0010 *	RE 46 *	SK3112	RT-176 *	ECG133 *
Q12	2SC712C		GE-47 *	(IR)2SC644	PTC121	HEPS0015 *	RE 13 *	SK3124 *	RT-302 *	ECG123A *
Q13	2SD235-0 (11)		GE-66	TR-76	PTC110	HEPS5027	RE 21	SK3054	RT-196	ECG152
Q14	2SD235-0 (11)		GE-66	TR-76	PTC110	HEPS5027	RE 21	SK3054	RT-196	ECG152
Q15	2SC710D		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q16	2SC710C		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q17	2SC1017 (12)		GE-236		PTC192		RE 212		RT-143	ECG299
Q18	2SC1018 (12)		GE-236		PTC192		RE 212		RT-143	ECG299
Q19	2SC778 (13)		GE-46		PTC176	HEPS3001	RE 198 *	SK3049	RT-174	ECG237
Q20	2SC712C		GE-47 *	(IR)2SC644	PTC121	HEPS0015 *	RE 13 *	SK3124 *	RT-302 *	ECG123A *
Q21	2SA562Y		GE-82 *	TR-20 *	PTC103 *	HEPS0019 *	RE 26 *	SK3114	RT-106	ECG290
Q22	2SC712C		GE-47 *	(IR)2SC644	PTC121	HEPS0015 *	RE 13 *	SK3124 *	RT-302 *	ECG123A *
Q23	2SC620D		GE-20 *	(IR)2SC644	PTC125 *	HEPS0015 *	RE 13 *	SK3020 *	RT-107A *	ECG123A *
Q24	2SK30AY		GE-FET-1	FE-100 *	PTC151 *	HEPF0010 *	RE 46 *	SK3112	RT-176 *	ECG133 *

(11) Rating, 25 Watt @ 3.0 Amp.

(12) Rating, 4.0 Watt @ 1.0 Amp.

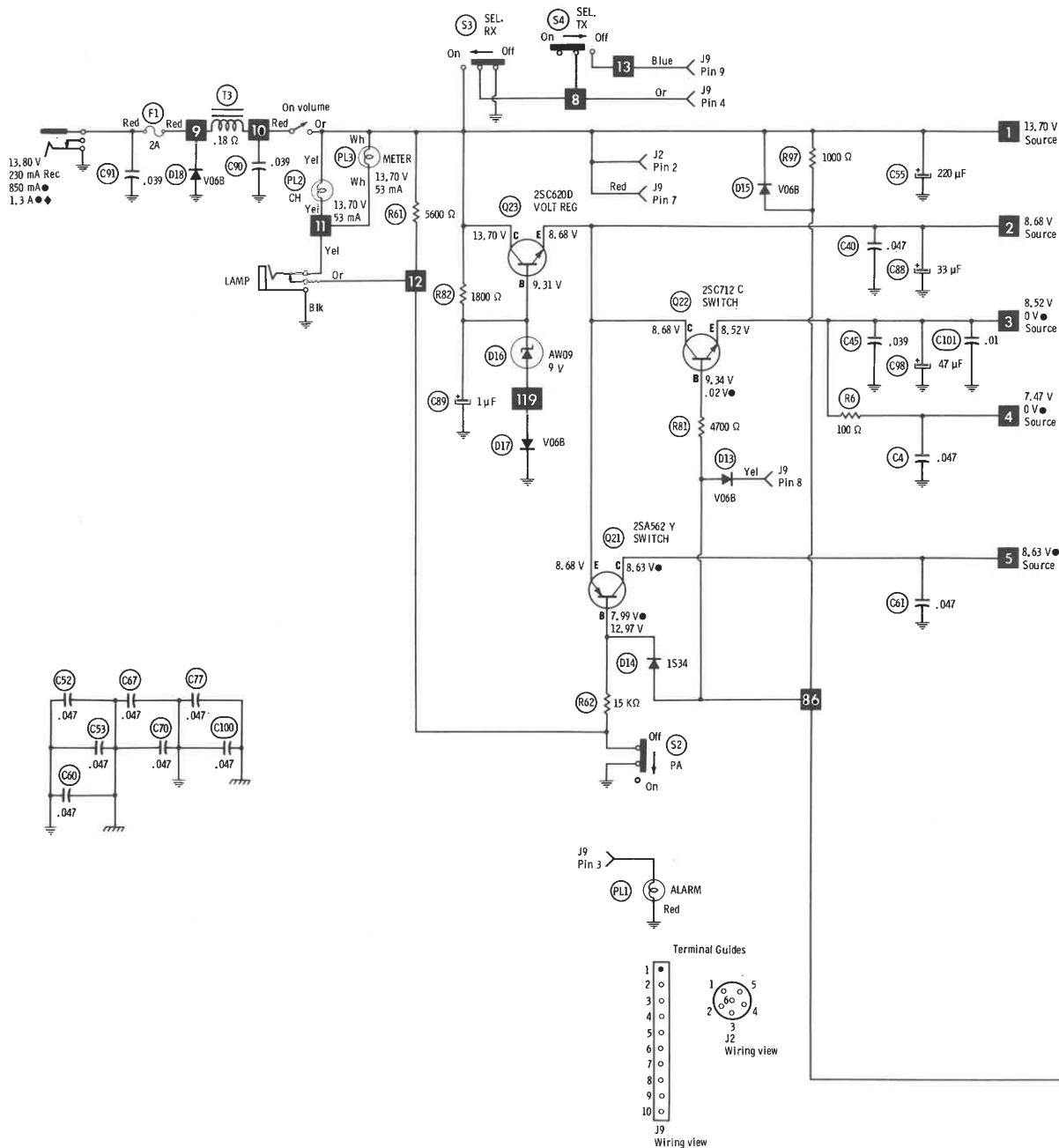
(13) Rating, 2.5 Watt @ 1.0 Amp.

* Lead Configuration may vary from original.

ZODIAC MODEL M-5026

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C15	33 16V		PC30-25	VTT33D25	EV-1325
C24	1 25V		PC1-50	TT25X1	EV-1315
C28	1 25V		PC1-50	TT25X1	EV-1315
C29	1 25V		PC1-50	TT25X1	EV-1315
C30	47 10V		PC50-16	VTT47D16	EV-1226
C32	10 16V		PC10-25	VTT10A25	EV-1222
C34	47 16V		PC50-16	VTT47D16	EV-1226
C37	10 16V		PC10-25	VTT10A25	EV-1222
C38	10 16V		PC10-25	VTT10A25	EV-1222
C54	220 16V		PC250-25	VTT220G16	EV-1240
C55	220 16V		PC250-25	VTT220G16	EV-1240
C56	33 16V		PC30-25	VTT33D25	EV-1325
C86	1 25V		PC1-50	TT25X1	EV-1315
C87	1 25V		PC1-50	TT25X1	EV-1315
C88	33 16V		PC30-25	VTT33D25	EV-1325
C89	1 25V		PC1-50	TT25X1	EV-1315
C93	10 16V		PC10-25	VTT10A25	EV-1222
C97	10 16V		PC10-25	VTT10A25	EV-1222
C98	47 10V		PC50-16	VTT47D16	EV-1226



—*— Circuitry not used in some versions

--- Circuitry used in some versions

⏏ 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.

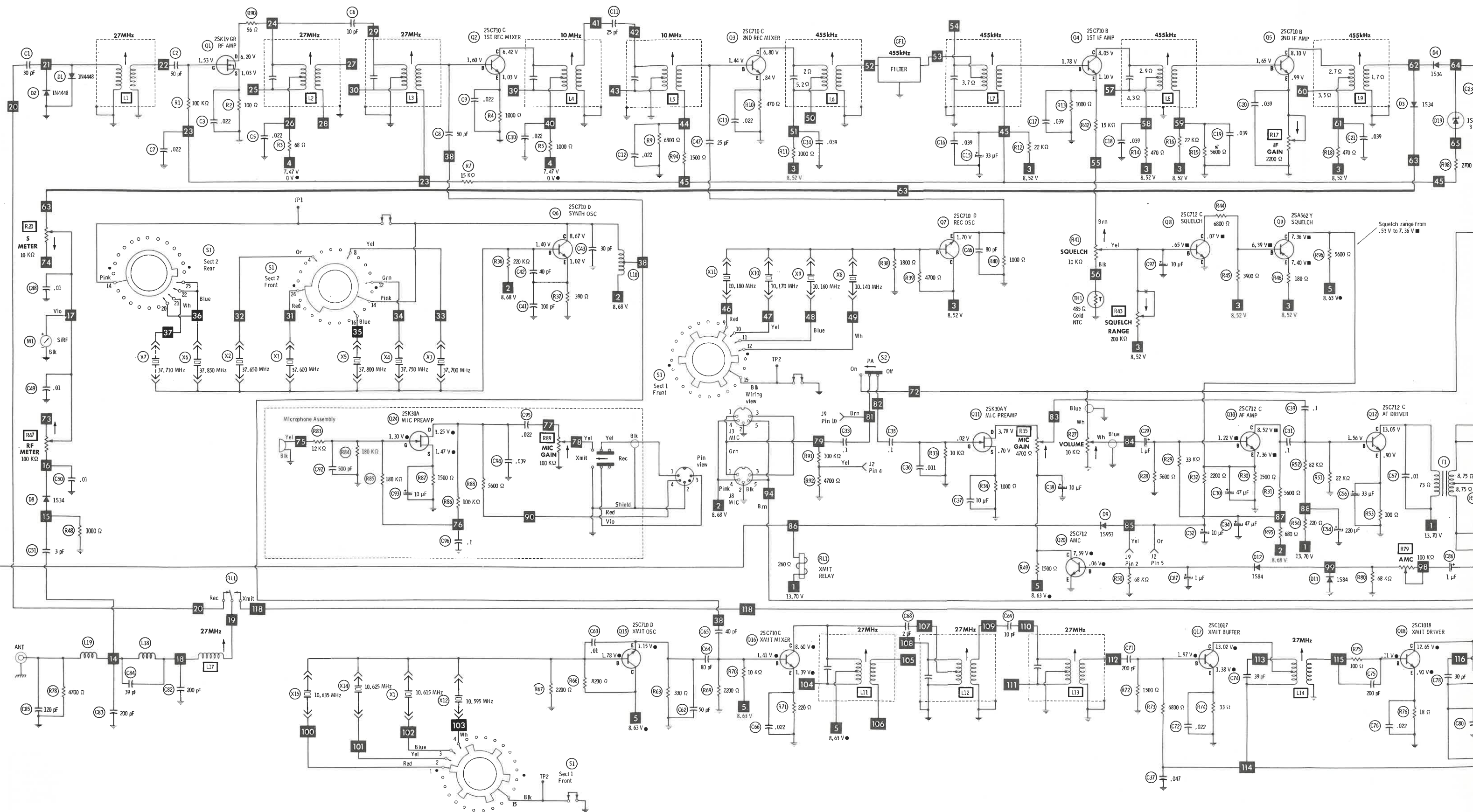
Value in () used in some versions.

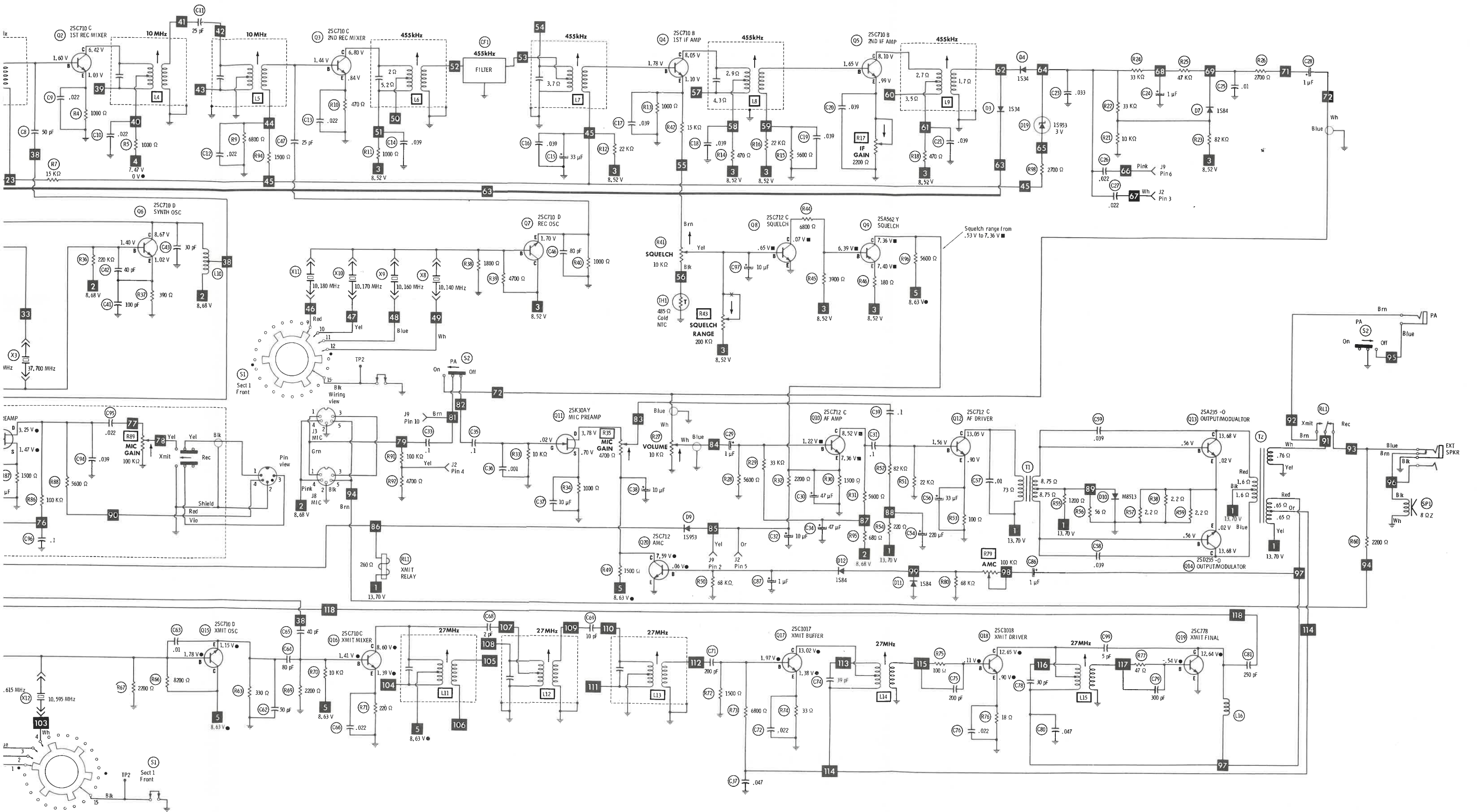
A PHOTOFAC STANDARD NOTATION SCHEMATIC

WITH CIRCUITRACE[®]

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Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement	Chan	Crystal Complement
1	X1, X11, X15	7	X2, X9, X13	13	X4, X11, X15	19	X5, X9, X13
2	X1, X10, X14	8	X2, X8, X12	14	X4, X10, X14	20	X5, X8, X12
3	X1, X9, X13	9	X3, X11, X15	15	X4, X9, X13	21	X6, X11, X15
4	X1, X8, X12	10	X3, X10, X14	16	X4, X8, X12	22	X6, X10, X14
5	X2, X11, X15	11	X3, X9, X13	17	X5, X11, X15		
6	X2, X10, X14	12	X3, X8, X12	18	X5, X10, X14	23	X6, X8, X12





PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	MFRG. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	30		DTZ-33	NP033	CN0433	10TCC-Q33
C2	50 5% NPO					
C3	.022		UK50-223	MGP02	MAG5012	TG-S20
C4	.047		UK50-503	MGP05	MAG5015	TG-S50
C5	.022		UK50-223	MGP02	MAG5012	TG-S20
C6	10 NPO		DTZ-10	NP010	CN0410	10TCC-Q10
C7	.022		UK50-223	MGP02	MAG5012	TG-S20
C8	50					
C9	.022		UK50-223	MGP02	MAG5012	TG-S20
C10	.022		UK50-223	MGP02	MAG5012	TG-S20
C11	25 5% NPO		DTZ-25	NP025	CN0425	10TCC-Q25
C12	.022		UK50-223	MGP02	MAG5012	TG-S20
C13	.022		UK50-223	MGP02	MAG5012	TG-S20
C14	.039				M192P3939R8	192P3939R8
C16	.039				M192P3939R8	192P3939R8
C17	.039				M192P3939R8	192P3939R8
C18	.039				M192P3939R8	192P3939R8
C19	.039				M192P3939R8	192P3939R8
C20	.039				M192P3939R8	192P3939R8
C21	.039				M192P3939R8	192P3939R8
C23	.033 10%				M192P3939R8	192P3939R8
C25	.01 10%			WMF1S1	EWFA1A110	1PB-S10
C26	.022 10%				M192P2239R8	192P2239R8
C27	.022 10%				M192P2239R8	192P2239R8
C31	.1 10%				431P1049R5	431P1049R5
C33	.1 10%				431P1049R5	431P1049R5
C35	.1 10%				431P1049R5	431P1049R5
C39	.1 10%				431P1049R5	431P1049R5
C40	.047				TG-S50	
C41	100 5% NPO		UK50-503	MGP05	MAG5015	TG-S50
C42	40		DTZ-100	NP0100	CN0310	10TCC-T10
C43	30 5% NPO				CN0439	10TCC-Q39
C44	.001 10%					
C45	.039			DPMS6D1	EWFA1A210	1PB-D10
C46	80 5% NPO				M192P3939R8	192P3939R8
C47	25					
C48	.01 10%		DTZ-25	NP025	CN0425	10TCC-Q25
C49	.01 10%			WMF1S1	EWFA1A110	1PB-S10
C50	.01 10%			WMF1S1	EWFA1A110	1PB-S10
C51	3			NP03P3	CN0533	10TCC-V33
C52	.047		DTZ-3R3	MGP05	MAG5015	TG-S50
C53	.047		UK50-503	MGP05	MAG5015	TG-S50
C57	.01 10%		UK50-503	WMF1S1	EWFA1A110	1PB-S10
C58	.039				M192P3939R8	192P3939R8
C59	.039				M192P3939R8	192P3939R8
C60	.047		UK50-503	MGP05	MAG5015	TG-S50
C61	.047		UK50-503	MGP05	MAG5015	TG-S50
C62	50					
C63	.001 10%			DPMS6D1	EWFA1A210	1PB-D10
C64	80				GP482	10TS-Q82
C65	40		DD-820		CN0439	10TCC-Q39
C66	.022		UK50-223	MGP02	MRG5012	TG-S20
C67	.047		UK50-503	MGP05	MAG5015	TG-S50
C68	2 NPO		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C69	10 NPO		DTZ-10	NP010	CN0410	10TCC-Q10
C70	.047		UK50-503	MGP05	MAG5015	TG-S50
C71	200		DD-201	GP200	GP320	10TS-T20
C72	.022		UK50-223	MGP02	MAG5012	TG-S20
C73	.047		UK50-503	MGP05	MAG5015	TG-S50
C74	40				CN0439	10TCC-Q39
C75	200		DD-201	GP200	GP320	10TS-T20
C76	.022		UK50-223	MGP02	MAG5012	TG-S20
C77	.047		UK50-503	MGP05	MAG5015	TG-S50
C78	30		DTZ-33	NP033	CN0433	10TCC-Q33
C79	300		DD-331	GP330	GP333	10TS-T33
C80	.047		UK50-503	MGP05	MAG5015	TG-S50
C81	250		DD-251		GP325	5GA-T25
C82	200		DD-201	GP200	GP320	10TS-T20
C83	200		DD-201	GP200	GP320	10TS-T20
C84	39				CN0439	10TCC-Q39
C85						
C90	.039				M192P3939R8	192P3939R8
C91	.039				M192P3939R8	192P3939R8
C92	500				GP350	10TS-T50
C94	.039		DD-501	GP500	M192P3939R8	192P3939R8
C95	.022 10%				M192P2239R8	192P2239R8
C96	.1 10%				431P1049R5	431P1049R5
C99	5		DTZ-4R7	NP04P7	CN0547	10TCC-V47
C100	.047		UK50-503	MGP05	MAG5015	TG-S50
C101	.01		UK50-103	MGP01	MAG5011	TG-S10

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFRG. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R17	IF Gain	2000					
R20	S Meter	10K					
R27	Volume/Switch	10K					
R35	Mic Gain	4700					
R41	Squelch	10K					
R43	Squelch Range	200K					
R47	RF Meter	100K					
R89	Mic Gain	100K					

RESISTORS (Power and Special)

ITEM No.	RATING		REPLACEMENT DATA		ITEM No.	RATING		REPLACEMENT DATA	
			WORKMAN PART No.	MFRG. PART No.				WORKMAN PART No.	MFRG. PART No.
TH1	485	Cold NTC							

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L1	Rec Ant (27MHz)		LA1185012		
L2	Rec RF (27MHz)				
L3	Rec RF (27MHz)		LA1195022		
L4	Rec Mixer (10MHz)				
L5	Rec Mixer (10MHz)		LA1205024		
L6	IF (455kHz)		LA1165825		
L7	IF (455kHz)				
L8	IF (455kHz)		LA1065825		
L9	IF (455kHz)		LA1075012		
L10	RF Choke				
L11	Harmonic Suppressor (27MHz)				
L12	Harmonic Suppressor (27MHz)		LA1195022		
L13	Xmit Mixer (27MHz)				
L14	Xmit Buffer (27MHz)		LA1195022		
L15	Xmit Driver (27MHz)				
L16	RF Choke				
L17	Ant Match (27MHz)				
L18	RF Choke				
L19	RF Choke				

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFRG. PART No.	THORDARSON PART No.	TRIAD PART No.	
T3	1.3A	.187	2.65mH	034001 (1)			(1) Number on unit.

PARTS LIST AND DE

(When ordering parts, state Mode

TRANSFORMER (Driv

ITEM No.	TURNS RATIO		
	PRI.	SEC. 1	SEC.
T1	1.4	1	

TRANSFORMER (Audi

ITEM No.	IMPEDANCE		
	PRI.	SEC.	
T2	32	1 8 2 32	03

SPEAKER

ITEM No.	TYPE
SP1	3 1/2" PM 8 Ohms

FUSE DEVICES

ITEM No.	DESCRIPTION
F1	2A Fast Acting

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

NT DATA	
MALLORY PART No.	SPRAGUE PART No.
V0433	10TCC-Q33
AG5012	TG-S20
AG5015	TG-S50
AG5012	TG-S20
V0410	10TCC-Q10
AG5012	TG-S20
AG5012	TG-S20
AG5012	TG-S20
V0425	10TCC-Q25
AG5012	TG-S20
AG5012	TG-S20
I92P3939R8	I92P3939R8
I92P3939R8	I92P3939R8
I92P3939R8	I92P3939R8
I92P3939R8	I92P3939R8
I92P3939R8	I92P3939R8
I92P3939R8	I92P3939R8
I92P3939R8	I92P3939R8
I92P3939R8	I92P3939R8
I92P3939R8	I92P3939R8
VF1A110	1PB-S10
I92P2239R8	I92P2239R8
I92P2239R8	I92P2239R8
	431P1049R5
	431P1049R5
	431P1049R5
	431P1049R5
AG5015	TG-S50
V0310	10TCC-T10
V0439	10TCC-Q39
VF1A210	1PB-D10
I92P3939R8	I92P3939R8
V0425	10TCC-Q25
VF1A110	1PB-S10
VF1A110	1PB-S10
VF1A110	1PB-S10
V0533	10TCC-V33
AG5015	TG-S50
AG5015	TG-S50
VF1A110	1PB-S10
I92P3939R8	I92P3939R8
I92P3939R8	I92P3939R8
AG5015	TG-S50
AG5015	TG-S50
VF1A210	1PB-D10
P482	10TS-Q82
V0439	10TCC-Q39
AG5012	TG-S20
AG5015	TG-S50
V0522	10TCC-V22
V0410	10TCC-Q10
AG5015	TG-S50
P320	10TS-T20
AG5012	TG-S20
AG5015	TG-S50
V0439	10TCC-Q39
P320	10TS-T20
AG5012	TG-S20
AG5015	TG-S50
V0433	10TCC-Q33
P333	10TS-T33
AG5015	TG-S50
P325	5GA-T25
P320	10TS-T20
P320	10TS-T20
V0439	10TCC-Q39
	10TCC-T12
I92P3939R8	I92P3939R8
I92P3939R8	I92P3939R8
P350	10TS-T50
I92P3939R8	I92P3939R8
I92P2239R8	I92P2239R8
	431P1049R5
V0547	10TCC-V47
AG5015	TG-S50
AG5011	TG-S10

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (@ CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T3	1.3A	.187	2.65mH	034001 (1)			(1) Number on unit.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	1.4	1		033002 (1)	TR659		(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	32	1 8	2 32	033003 (1)			(1) Number on unit.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	3 1/2" PM 8 Ohms		3A05Z8	

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			GMA2		212002		

PARTS LIST AND DESCRIPTION (CONTINUED)

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

MICROPHONE

ITEM No.	REPLACEMENT DATA			CONNECTION DATA						
	MFGR. PART No.	GC PART No.	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black
MIC			18-010	18-105	1	2	3	NC	NC	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	37.600		DA32M37600	1,2,3,4	X8	10.140		DC14M10140	4,8,12,16,20,23
X2	37.650		DA32M37650	5,6,7,8	X9	10.160		DC14M10160	3,7,11,15,19
X3	37.700		DA32M37700	9,10,11,12	X10	10.170		DC14M10170	2,6,10,14,18,22
X4	37.750		DA32M37750	13,14,15,16	X11	10.180		DC14M10180	1,5,9,13,17,21
X5	37.800		DA32M37800	17,18,19,20	X12	10.595		DB40M10595	4,8,12,16,20,23
X6	37.850		DA32M37850	21,22,23	X13	10.615		DB40M10615	3,7,11,15,19
X7	37.710		DA32M37710	Alternate	X14	10.625		DB40M10625	2,6,10,14,18,22
					X15	10.635		DB40M10635	1,5,9,13,17,21

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Filter		455kHz
M1	Meter		S/RF
RL1	Relay		Xmit/Rec (260 Ohm)
S1	Switch		Channel Selector
S2	Switch		PA/CB
S3	Switch		Rec
S4	Switch		Xmit
	Printed Circuit Board		Main (111004)
	Printed Circuit Board		Mic (111007)

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 13 Colors
	8524 (Stranded) Available in 13 Colors
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