

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.



AUDIOVOX MODEL MCB-500

MODEL MCB-500

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

© 1976 Howard W. Sams & Co., Inc.

Printed in U. S. of America

6CY373

ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools:	GC ELECTRONICS
T5 thru T8	5000, 8290
ALL Other Tunable Coils and Transformers	9440

SYNTHESIZER

INDICATOR	CHANNEL	ADJUST	FREQUENCY	REMARKS
Input of frequency counter and RF VTVM to junction of L2 and L3, common to ground.	1-4		37.600MHz	Receive. Check for frequency. Oscillator output should remain constant.
	5-8		37.650MHz	
	9-12		37.700MHz	
	13-16		37.750MHz	
	17-20		37.800MHz	
	21-23		37.850MHz	
Input of frequency counter and RF VTVM to emitter of TR4, common to ground.	1	T4	10.180MHz	Receive. Check for frequency. Oscillator output should remain constant.
	2		10.170MHz	
	3		10.160MHz	
	4		10.140MHz	
Input of frequency counter and RF VTVM to emitter of TR2, common to ground.	13		27.570MHz	Receive. Adjust for maximum output at frequency.
Input of frequency counter and RF VTVM to emitter of TR14, common to ground.	1		10.635MHz	Key transmitter. Check for frequency. Oscillator output should remain constant.
	2		10.625MHz	
	3		10.615MHz	
	4		10.595MHz	

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. Set generator output low enough to prevent AGC limiting.

SIGNAL GENERATOR	GEN FREQ	CHANNEL	ADJUST	REMARKS
High side thru .01uF to base of TR2, low side to ground.	455kHz, 1000Hz @ 30% modulation.	Any	T5,T6,T7, T8	Adjust for maximum.
High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation.	13	T1,T2,T3	Adjust for maximum.

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
AGC High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 50,000uV.	13	R24	Adjust volume control to obtain 00db. Decrease generator to 50uV. Adjust R24 so that signal does not drop more than 10db.
S METER High side thru .01uF to antenna jack, low side to ground.	27.115MHz, 1000Hz @ 30% modulation, output 1uV.	13	R33	Adjust R33 for 9 on S scale.

TRANSMITTER

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

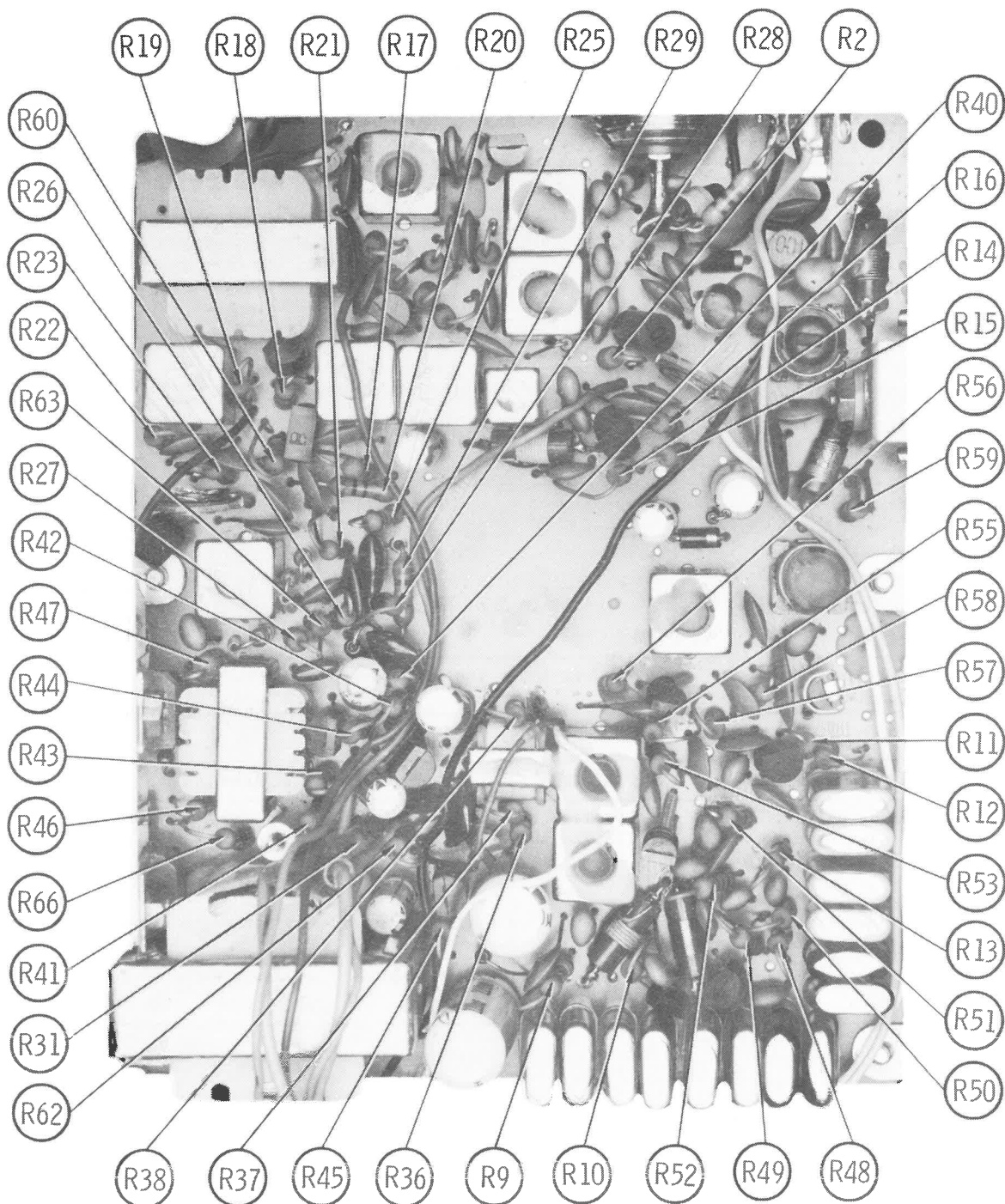
INDICATOR	ADJUST	REMARKS
MIXER, BUFFER, DRIVER, FINAL Input of RF wattmeter to antenna jack, common to ground.	T11,T12, T13,T14,L5	Channel selector to Ch. 13. Key transmitter. Adjust for maximum.
OUTPUT POWER Input of RF wattmeter to antenna jack, common to ground.	L5	Key transmitter. Adjust for 4 watts output.

TRANSMITTER ADJUSTMENTS

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

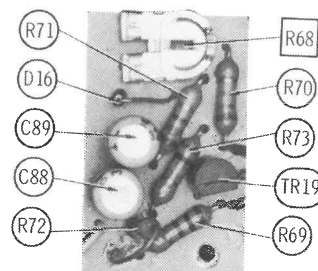
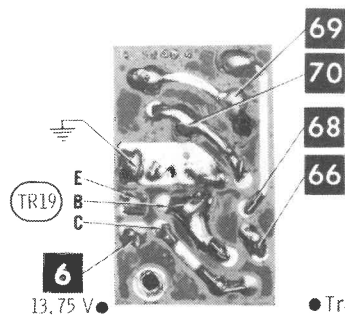
INDICATOR	ADJUST	REMARKS
AMC Input of modulation meter to antenna jack, common to ground.	R68	Disable AMC. Inject a 1000Hz signal at mic input. Key transmitter. Adjust for overmodulation. Restore AMC operation. Adjust R68 for 100% modulation maximum.
RF PANEL METER Input of RF wattmeter to antenna jack, common to ground.	R67	Key transmitter. Adjust R67 so that panel RF meter agrees with RF wattmeter.

AUDIOVOX MODEL MCB-500

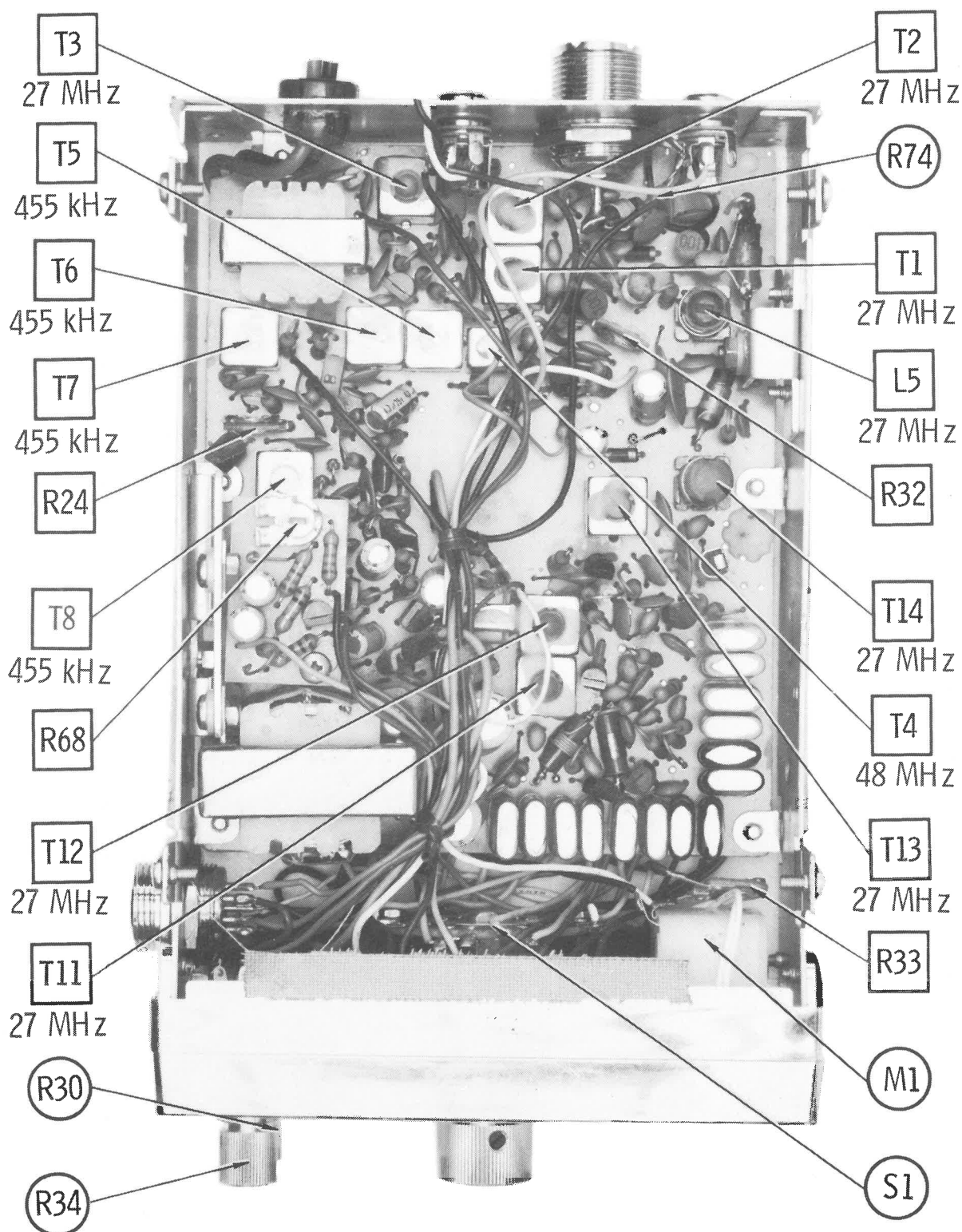


MAIN BOARD

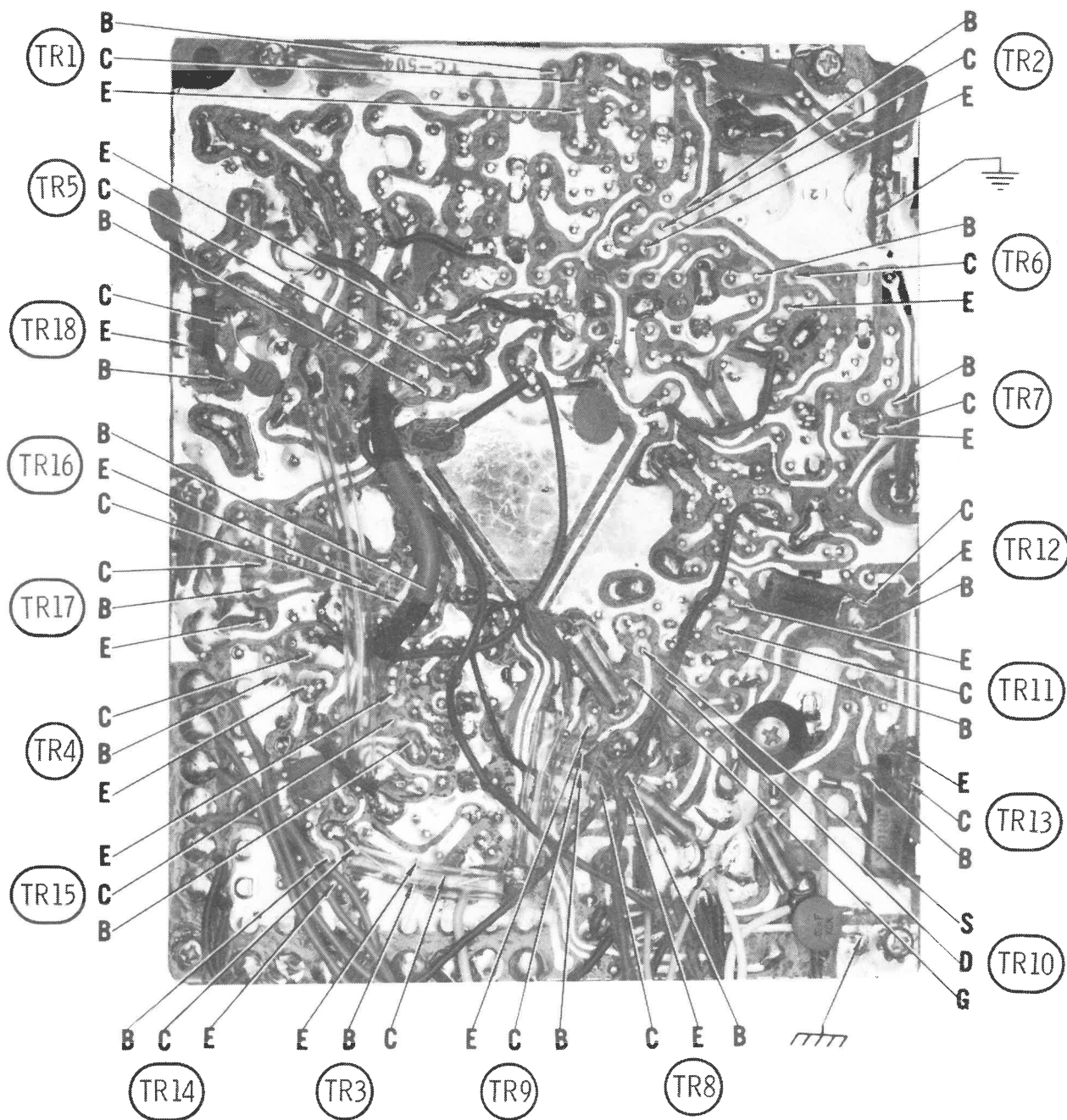
A Howard W. Sams **CIRCUITRACE®** Photo



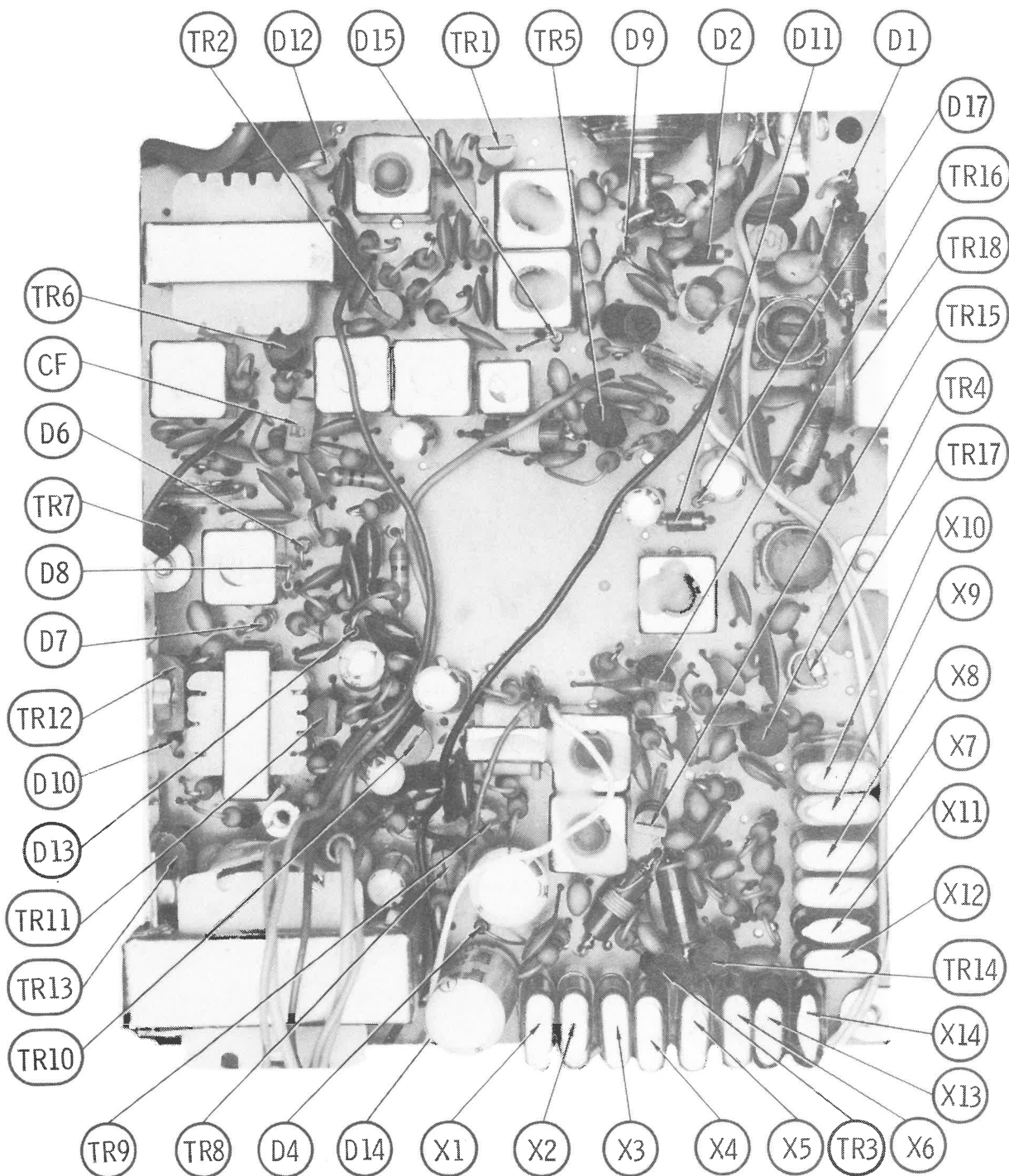
AMC BOARD



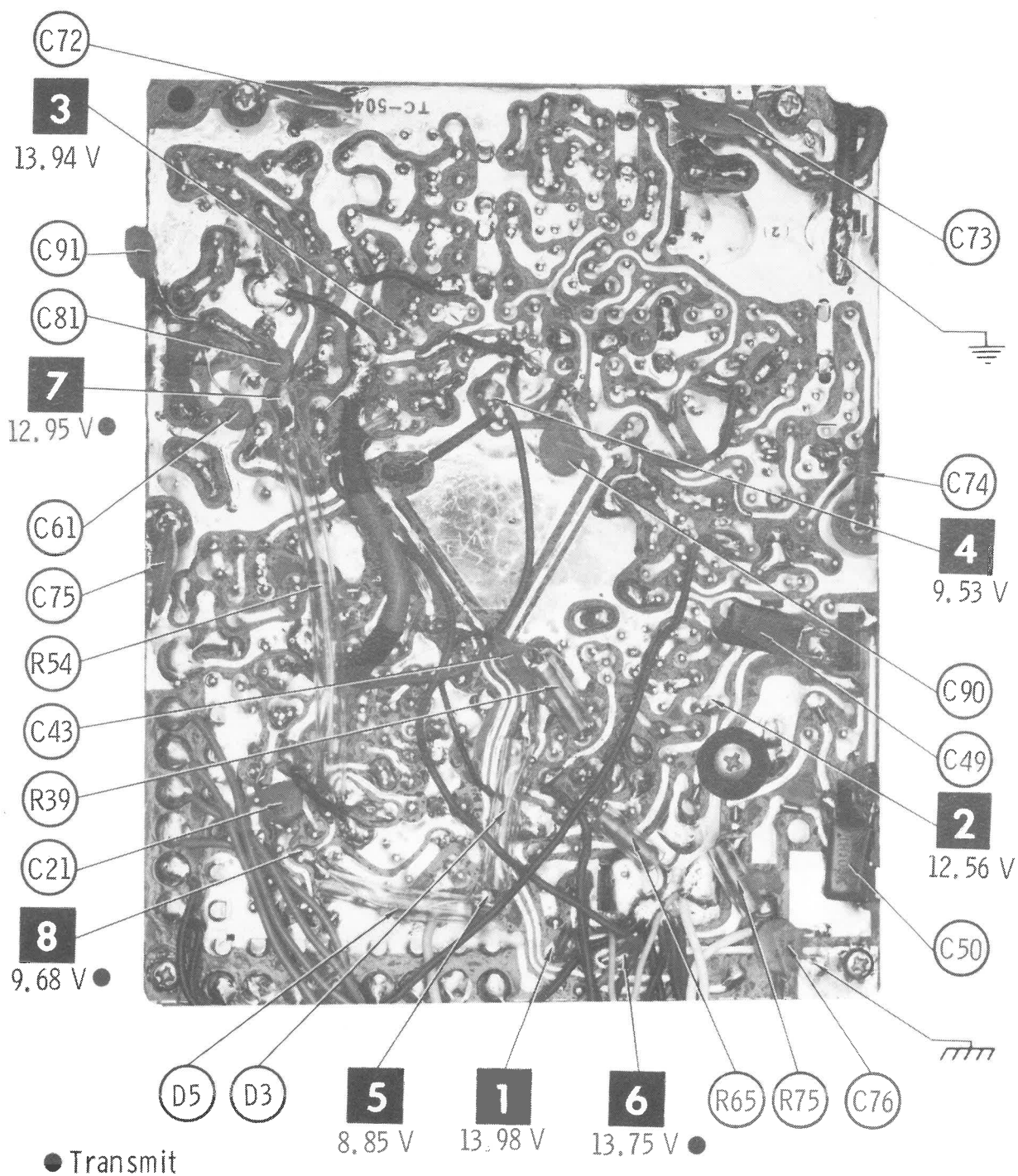
CHASSIS-BOTTOM



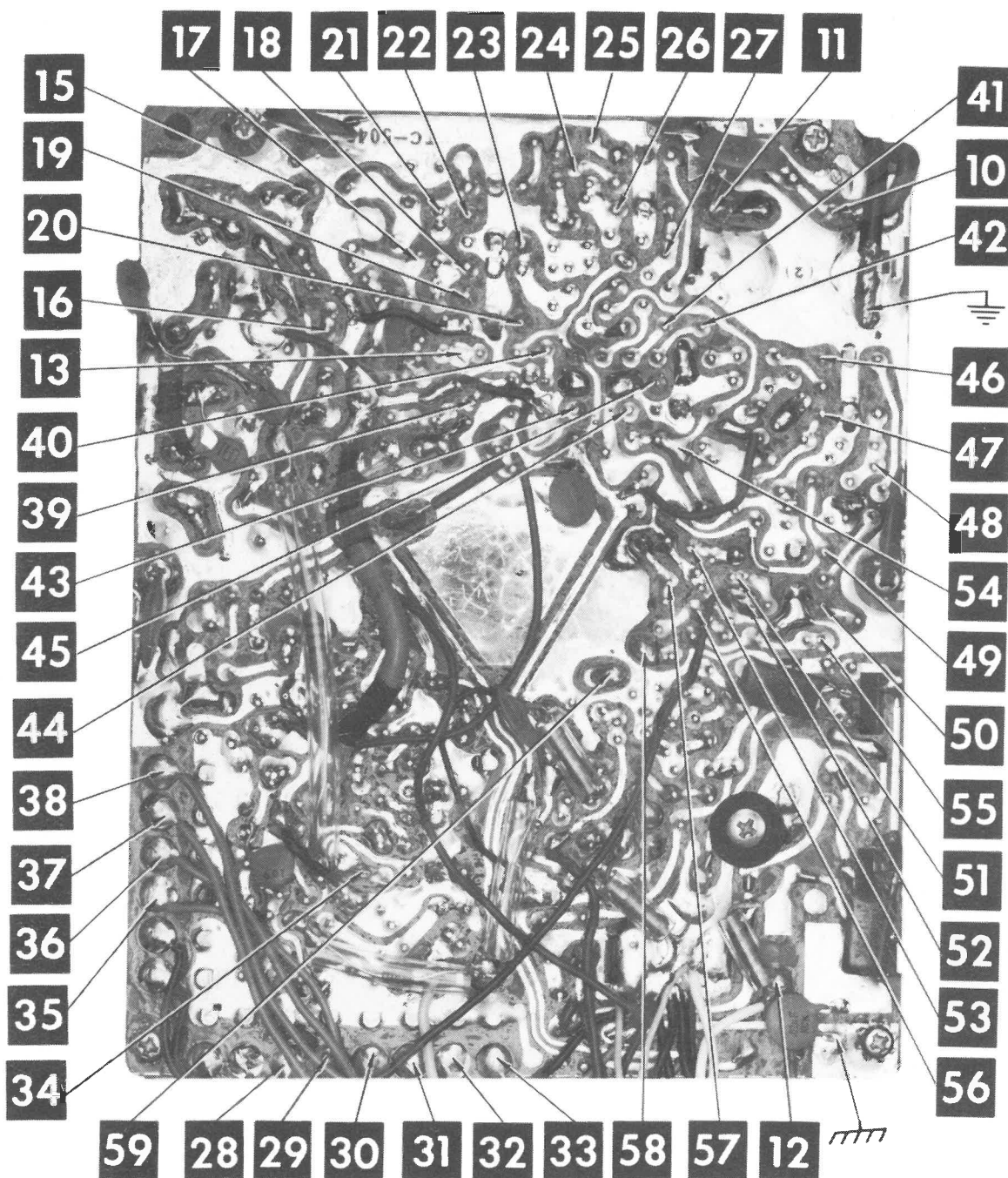
MAIN BOARD



MAIN BOARD



MAIN BOARD

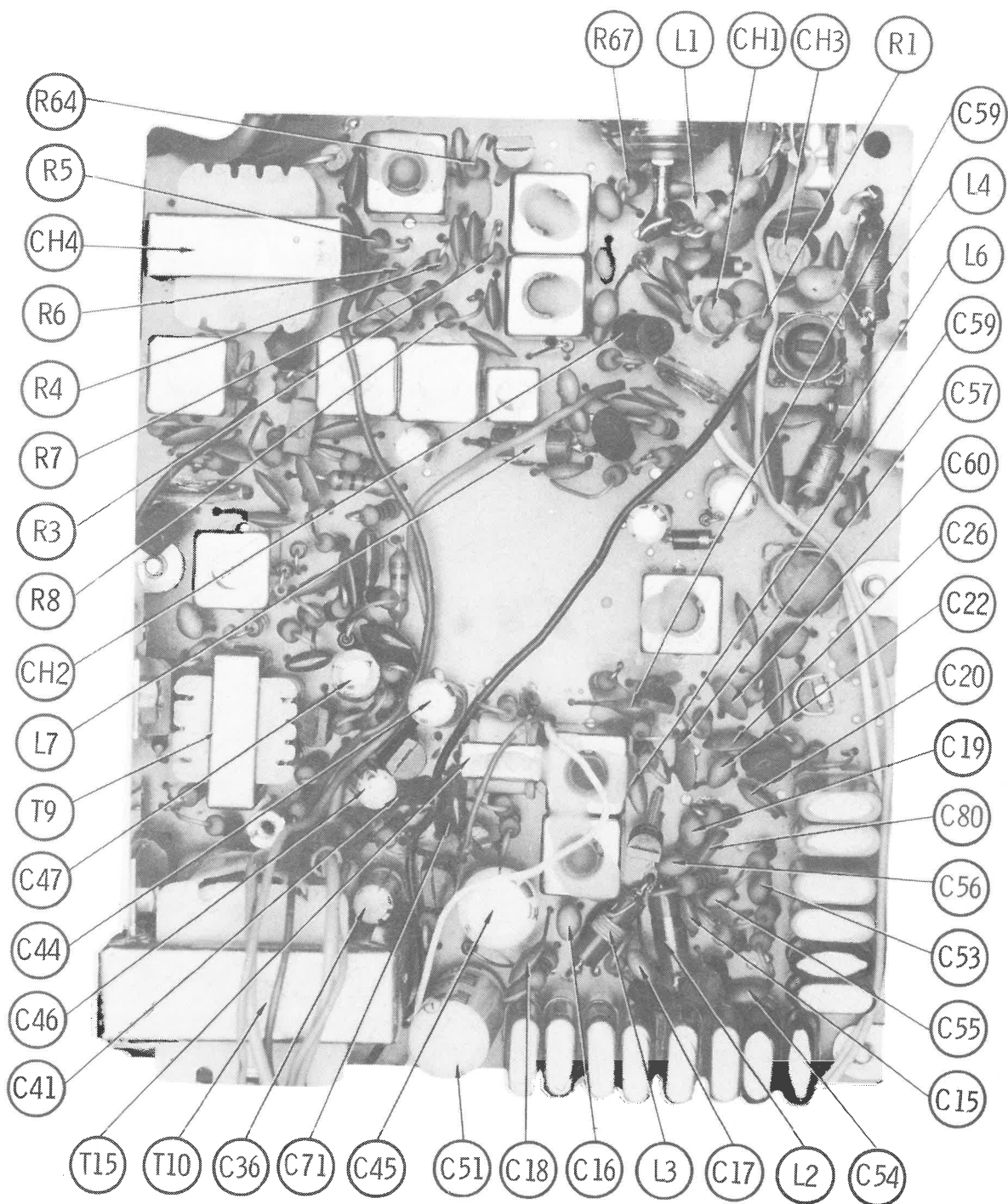


AUDIOVOX MODEL MCB-500

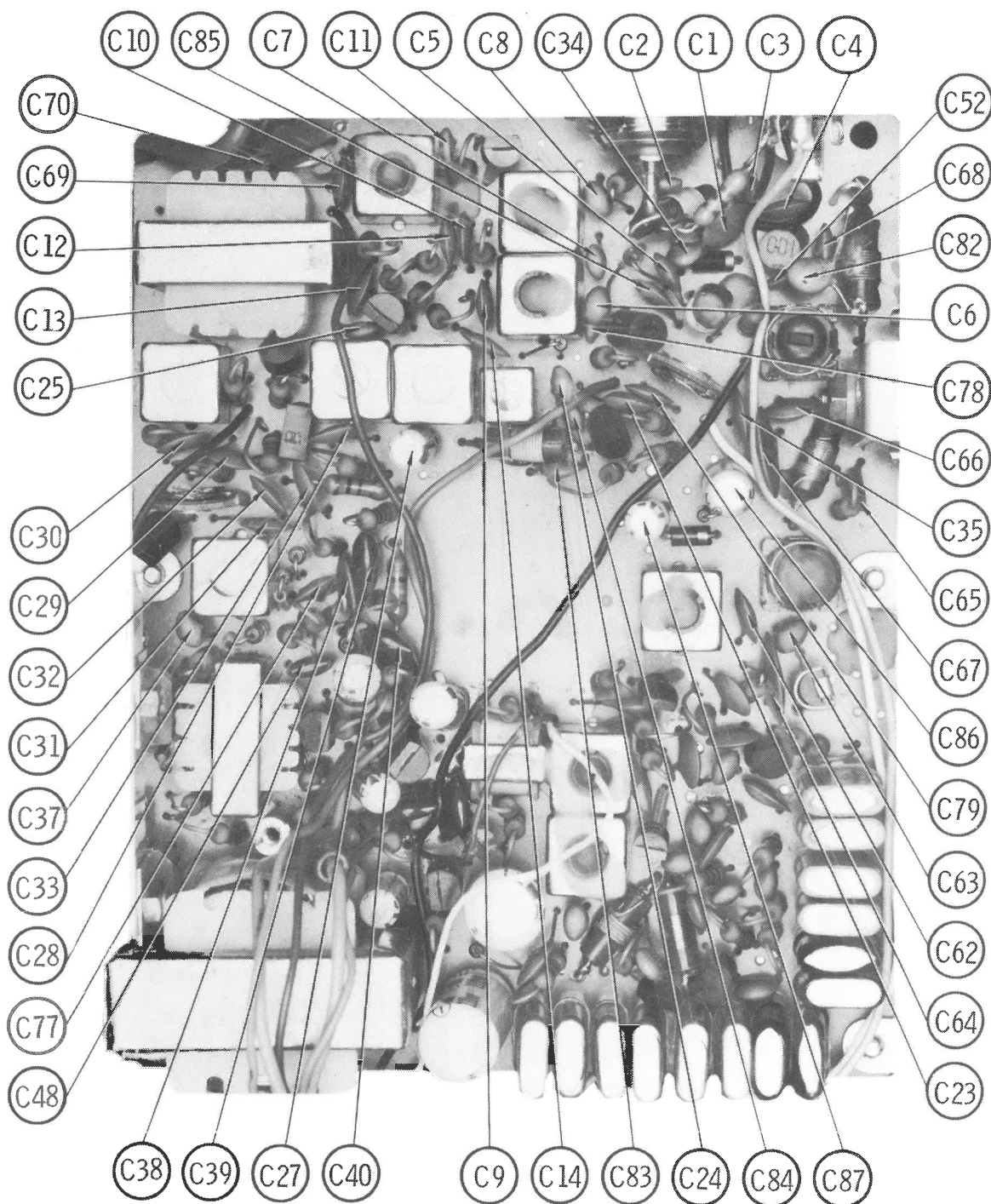
MAIN BOARD



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.	MFGR. 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	1N4002		GE-504A	5A4D	PTC201	HEPRO0052	RE 49	SK3030	RT-213	ECG116
D2	1N4002		GE-504A	5A4D	PTC201	HEPRO0052	RE 49	SK3030	RT-213	ECG116
D3	1S1588		GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D4	WZ090		GEZD-9.1		ZB9.1B				RT-240	ECG139
D5	1S1588		GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D6	1S188-FM		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D7	1S188-FM		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D8	1S188-FM		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D9	1S188-FM		1N34AS	1N34A	PTC207	HEPR9134	RE 47	SK3087	RT-200	ECG109
D10	VD1121									
D11	1N4002		GE-504A	5A4D	PTC201	HEPRO0052	RE 49	SK3030	RT-213	ECG116
D12	SR1FM4		GE-504A	5A4D	PTC201	HEPRO0052	RE 49	SK3030	RT-213	ECG116
D13	1S84		GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D14	1N4002		GE-504A	5A4D	PTC201	HEPRO0052	RE 49	SK3030	RT-213	ECG116
D15	1S1588		GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
D16	HV23				PTC301					
D17	1S1588		GE-300	D200	PTC214	HEPRO602	RE 52	SK3100	RT-218	ECG177
TR1	2SC1189L		GE-62	TR-21	PTC136	HEPS0015	RE 13	SK3124	RT-107A	ECG229
TR2	2SC710D		GE-211	(IR)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
TR3	JSP7001		GE-20	TR-21	PTC136	HEPS0015	RE 13	SK3122	RT-172	ECG123A
TR4	2SC710C		GE-211	(IR)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
TR5	2SC710C		GE-211	(IR)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
TR6	2SC710C		GE-211	(IR)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
TR7	2SC710C		GE-211	(IR)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
TR8	2SC712C		GE-212	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3124	RT-172	ECG123A
TR9	JA1050B,G		GE-21	TR-30	PTC103	HEPS0019	RE 26	SK3114	RT-126A	ECG159
TR10	2SK34C,D		GE-FET-1	FE-100	PTC151	HEPF0010	RE 46	SK3112	RT-176	ECG133
TR11	2SC712C		GE-212	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3124	RT-172	ECG123A
TR12	2SC1096L		GE-28	TR-55	PTC110	HEPS5027	RE 42	SK3054	RT-197	ECG186A
TR13	2SC1096L		GE-28	TR-55	PTC110	HEPS5027	RE 42	SK3054	RT-197	ECG186A
TR14	2SC710C		GE-211	(IR)2SC710	PTC115	HEPS0016	RE 13	SK3018	RT-105	ECG123A
TR15	JSP7001		GE-20	TR-21	PTC136	HEPS0015	RE 13	SK3122	RT-172	ECG123A
TR16	JSP7001		GE-20	TR-21	PTC136	HEPS0015	RE 13	SK3122	RT-172	ECG123A
TR17	MPS8000		GE-219	TR-65	PTC179	HEPS3001	RE 79	SK3048	RT-182	ECG195A
TR18	MPS-U31	(10)							RT-186	ECG302
TR19	2SC712D		GE-212	(IR)2SC644	PTC121	HEPS0015	RE 13	SK3124	RT-172	ECG123A

(10) Rating, 1.0 watt @ 500mA

AUDIOVOX MODEL MCB-500

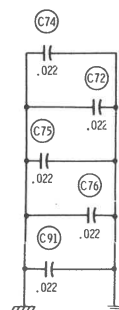
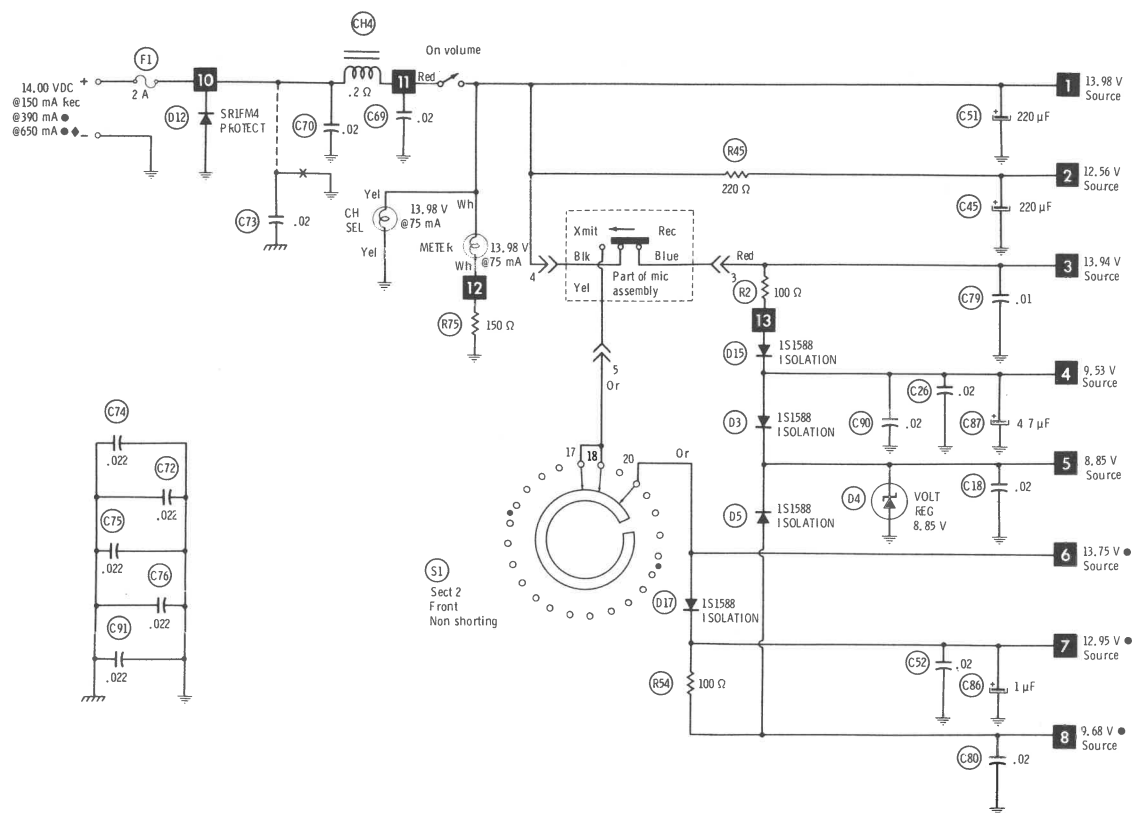
ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		MFGR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C27	4.7 10V		PC5-50	VTT4R7A50	EV-1319
C36	4.7 6.3V		PC5-50	VTT4R7A50	EV-1319
C44	33 6.3V		PC30-25	VTT33A10	EV-1125
C45	220 16V		PC250-25	VTT220G16	EV-1240
C46	4.7 10V		PC5-50	VTT4R7A50	EV-1319
C47	33 6.3V		PC30-25	VTT33A10	EV-1125
C51	220 16V		PC250-25	VTT220G16	EV-1240
C86	1 16V		PC1-50	TT15X1	EV-1315
C87	4.7 16V		PC5-50	VTT4R7A50	EV-1319
C88	1 25V		PC1-50	TT25X1	EV-1315
C89	1 25V		PC1-50	TT25X1	EV-1315

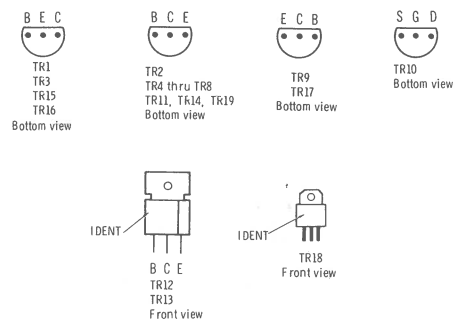
CAPACITORS

ITEM No.	RATING	MFGR. PART No.	REPLACEMENT DATA			
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	120 10%		DTZ-120		CN0312	10TCC-T12
C2	15		DTZ-15	NP015	CN0415	10TCC-Q15
C3	130 10%				GP313	
C4	.01		UK50-103		MAG5011	HY-520
C5	100		DTZ-100	NP0100	CN0310	10TCC-T10
C6	30		DTZ-33	NP033	CN0433	10TCC-Q33
C7	10		DTZ-10	NP010	CN0410	10TCC-Q10
C8	30		DTZ-33	NP033	CN0433	10TCC-Q33
C9	.01		UK50-103		MAG5011	HY-520
C10	.01		UK50-103		MAG5011	HY-520
C11	25		DTZ-25	NP025	CN0425	10TCC-Q25
C12	.01		UK50-103		MAG5011	HY-520

(CONTINUED ON PAGE 22)



Terminal Guides

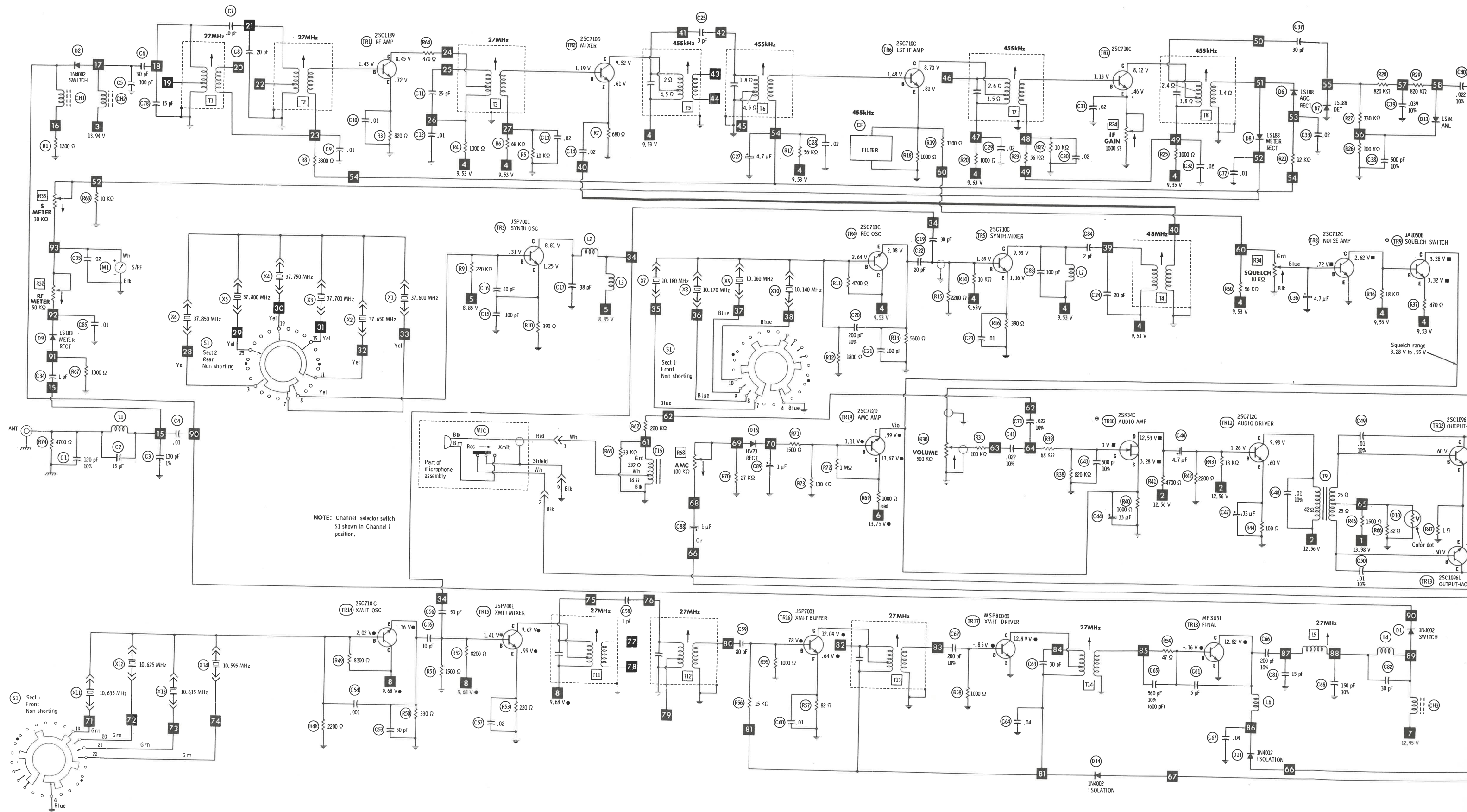


—*— Circuitry not used in some versions
 --- Circuitry used in some versions
 ⊕ See parts list
 * Nominal value
 ⚡ Ground
 ⏏ Chassis
 ∇ Common tie point
 Measurements with switching as shown unless noted:
 ■ Squelch fully clockwise ♦ 100% modulation
 ● Transmit
 Supply voltage maintained as shown at 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**®

© Howard W. Sams & Co., Inc. 1976

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





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.
C13	.02		UK50-223		MAG5012	HY-725
C14	.02		UK50-223		MAG5012	HY-725
C15	100		DTZ-100	NP0100	CN0310	10TCC-T10
C16	40				CN0439	10TCC-Q39
C17	38				CN0439	10TCC-Q39
C18	.02		UK50-223		MAG5012	HY-725
C19	30		DTZ-33	NP033	CN0433	10TCC-Q33
C20	200 10%		DD-201	GP200	GP320	10TS-T20
C21	100		DTZ-100	NP0100	CN0310	10TCC-T10
C22	20		DTZ-20	NP020	CN0420	10TCC-Q20
C23	.01		UK50-103		MAG5011	HY-520
C24	20		DTZ-20	NP020	CN0420	10TCC-Q20
C25	3		DTZ-3R3	NP03P3	CN0533	10TCC-V33
C26	.02		UK50-223		MAG5012	HY-725
C28	.02		UK50-223		MAG5012	HY-725
C29	.02		UK50-233		MAG5012	HY-725
C30	.02		UK50-223		MAG5012	HY-725
C31	.02		UK50-223		MAG5012	HY-725
C32	.02		UK50-223		MAG5012	HY-725
C33	.02		UK50-223		MAG5012	HY-725
C34	1				CN0510	10TCC-V10
C35	.02		UK50-223		MAG5012	HY-725
C37	30		DTZ-33	NP033	CN0433	10TCC-Q33
C38	500 10%		DD-501	GP500	GP350	10TS-T50
C39	.039 10% 50V				M192P3939R8	192P3939R8
C40	.022 10% 50V				M192P2239R8	192P2239R8
C41	.022 10% 50V				M192P2239R8	192P2239R8
C43	500 10%		DD-501	GP500	GP350	10TS-T50
C48	.01 10%			WMF1S1	EWF1A110	1PB-S10
C49	.01			WMF1S1	EWF1A110	1PB-S10
C50	.01			WMF1S1	EWF1A110	1PB-S10
C52	.02		UK50-223		MAG5012	HY-725
C53	50		DTZ-50	NP050	CN0450	10TCC-Q50
C54	.001		DD-102G	GP1000	GP210	5GA-D10
C55	10		DTZ-10	NP010	CN0410	10TCC-Q10
C56	50		DTZ-50	NP050	CN0450	10TCC-Q50
C57	.02		UK50-223		MAG5012	HY-725
C58	1				CN0510	10TCC-V10
C59	80 5%		DTZ-82	NP082	CN0482	10TCC-Q82
C60	.01		UK50-103		MAG5011	HY-520
C61	5		DTZ-4R7	NP04P7	CN0547	10TCC-V47
C62	200		DD-201	GP200	GP320	10TS-T20
C63	30		DTZ-33	NP033	CN0433	10TCC-Q33
C64	.04					
C65	600 10%		DD-561	GP200	GP356	10TS-T56
C66	200 10%		DD-201		GP320	10TS-T20
C67	.04					
C68	150 10%		DD-151		GP315	10TS-T15
C69	.02		UK50-223		MAG5012	HY-725
C70	.02		UK50-223		MAG5012	HY-725
C71	.022 10%				M192P2239R8	192P2239R8
C72	.02		UK50-223		MAG5012	HY-725
C73	.02		UK50-223		MAG5012	HY-725
C74	.02		UK50-223		MAG5012	HY-725
C75	.02		UK50-223		MAG5012	HY-725
C76	.02		UK50-223		MAG5012	HY-725
C77	.01		UK50-103		MAG5011	HY-520
C78	15		DTZ-15	NP015	CN0415	10TCC-Q15
C79	.01		UK50-103		MAG5011	HY-520
C80	.02		UK50-223		MAG5012	HY-725
C81	15		DTZ-15	NP015	CN0415	10TCC-Q15
C82	30		DTZ-33	NP033	CN0433	10TCC-Q33
C83	100		DTZ-100	NP0100	CN0310	10TCC-T10
C84	2		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C85	.01		UK50-103		MAG5011	HY-520
C90	.02		UK50-223		MAG5012	HY-725
C91	.02		UK50-223		MAG5012	HY-725

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA			
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	TRW PART No.
R24	RF Gain	1000		T-1000 (2)	C-102 (2)	MTC13L1 (2)
R30	Volume/Power Switch	500K				X201R102B (2)
R32	RF Meter	50K		T-50K (2)	C-503 (2)	MTC54L1 (2)
R33	S Meter	30K		T-50K (2)	C-503 (2)	MTC54L1 (2)
R34	Squelch	10K				X201R503B (2)
R68	AMC	100K				X201R503B (2)

(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	Ant. Load	43499			
L2	RF Choke	42683			
L3	RF Choke	42682			
L4	RF Choke	43499			
L5	Final (27MHz)	42573			
L6	RF Choke	42577			
L7	RF Choke	43499			
T1	Rec. Ant. (27MHz)	KXN-2441D2			
T2	Rec. Ant. (27MHz)	KXN-2441D2			
T3	Rec. RF (27MHz)	KXN-2442F2			
T4	Synth. Mixer (48MHz)	40111			
T5	IF (455kHz)	YOC-15000A			
T6	IF (455kHz)	YOC-15000A			
T7	IF (455kHz)	YOC-15001A			
T8	IF (455kHz)	YMC-15002A			
T11	Xmit Mixer (27MHz)	KXC-7343CDE			
T12	Xmit Mixer (27MHz)	KXC-7343CDE			
T13	Xmit Buffer (27MHz)	TKXC-24069R			
T14	Xmit Driver (27MHz)	43462			
CH1	RF Choke	LF1-100K			
CH2	RF Choke	LF1-100K			
CH3	RF Choke	LF1-100K			

FILTER CHOKE

ITEM No.	RATINGS		REPLACEMENT DATA			NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	THORDARSON PART No.	
CH4	650mA	.2	1.7mH	CH-5013		

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T9	2	1		T-01027			

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T10	32	8	00-5026			

TRANSFORMER (Microphone)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T15	4	1		MI-5005			

PARTS LIST AND

(When ordering parts, state

SPEAKER

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

FUSE DEVICES

ITEM No.	DESCRIPTION
F1	2A, Fast-acting

MICROPHONE

ITEM No.	R	
	MFGR. PART No.	P
MIC		18

CRYSTALS

ITEM No.	CRYSTAL FREQUENCY IN MHz	MFGR PART N
X1	37.600	
X2	37.650	
X3	37.700	
X4	37.750	
X5	37.800	
X6	37.850	
X7	10.180	

MISCELLANEOUS

ITEM No.	PART NAME
CF	Filter
M1	Meter
S1	Switch
	Printed Circuit Bo

WIRING DATA

General-use Hook-up Wire
Power Cord, 2-Wire ...
Shielded Antenna Lead
Coiled Microphone Cable
Ignition Noise Suppres
Bonding Strap

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	Ant. Load	43499			
L2	RF Choke	42683			
L3	RF Choke	42682			
L4	RF Choke	43499			
L5	Final (27MHz)	42573			
L6	RF Choke	42577			
L7	RF Choke	43499			
T1	Rec. Ant. (27MHz)	KXN-2441D2			
T2	Rec. Ant. (27MHz)	KXN-2441D2			
T3	Rec. RF (27MHz)	KXN-2442F2			
T4	Synth. Mixer (48MHz)	40111			
T5	IF (455kHz)	YOC-15000A			
T6	IF (455kHz)	YOC-15000A			
T7	IF (455kHz)	YOC-15001A			
T8	IF (455kHz)	YMC-15002A			
T11	Xmit Mixer (27MHz)	KXC-7343CDE			
T12	Xmit Mixer (27MHz)	KXC-7343CDE			
T13	Xmit Buffer (27MHz)	TKXC-24069R			
T14	Xmit Driver (27MHz)	43462			
CH1	RF Choke	LF1-100K			
CH2	RF Choke	LF1-100K			
CH3	RF Choke	LF1-100K			

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.	
CH4	650mA	.2	1.7mH	CH-5013			

TRANSFORMER (Driver)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T9	2	1		T-01027			

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA			NOTES
	PRI.	SEC.	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T10	32	8	00-5026			

TRANSFORMER (Microphone)

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T15	4	1		MI-5005			

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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			AGC2	HDJ	312002	150145	FG2-2

MICROPHONE

ITEM No.	REPLACEMENT DATA				CONNECTION DATA						
	MFGR. 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		18-032	18-034	18-010	18-094	1	6	5	3	2	4

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		DA14M37.600	1,2,3,4	X8	10.170		DC90M10.170	2,6,10,14,18,22
X2	37.650		DA14M37.650	5,6,7,8	X9	10.160		DC90M10.160	3,7,11,15,19
X3	37.700		DA14M37.700	9,10,11,12	X10	10.140		DC90M10.140	4,8,12,16,20,23
X4	37.750		DA14M37.750	13,14,15,16	X11	10.635		DB26M10.635	1,5,9,13,17,21
X5	37.800		DA14M37.800	17,18,19,20	X12	10.625		DB26M10.625	2,6,10,14,18,22
X6	37.850		DA14M37.850	21,22,23	X13	10.615		DB26M10.615	3,7,11,15,19
X7	10.180		DC90M10.180	1,5,9,13,17,21	X14	10.595		DB26M10.595	4,8,12,16,20,23

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF M1 S1	Filter Meter Switch Printed Circuit Board	TC-504041	BFB455B, 455kHz S-RF Channel Selector Main

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
Ignition Noise Suppression	Use BELDEN No. 7300-Series Spark-Plug Sets
Bonding Strap	Use BELDEN No. 8661 (3/8 inch)