



PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index

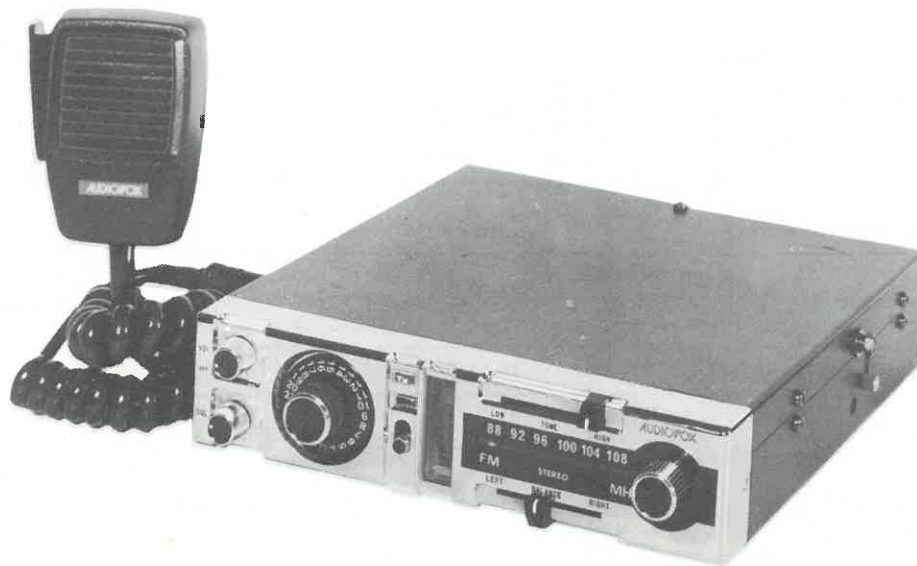
NOTE

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-2000

MODEL MCB-2000

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

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Printed in U. S. of America

7CG470

C B 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
T103, T104, T105, T109 thru T114 8728
L101, T101, T102 9440
T115 9296, 9297, 9300
C184 5000

SYNTHESIZER ALIGNMENT

TEST EQUIPMENT	TRANSCIVER	ADJUST	REMARKS
Inputs of frequency counter and RF VTVM to junction of C149 and C150.	Ch. 13	L101	Adjust for 37.750MHz at maximum.
Input of frequency counter to C149 and C150.	Ch. 17 Ch. 21 Ch. 1 Ch. 5 Ch. 9		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 Q107 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 Q110 emitter.	Ch. 13, Xmit Ch. 14, Xmit Ch. 15, Xmit Ch. 16, Xmit		Disconnect C157. Check for 10.635MHz. Check for 10.625MHz. Check for 10.615MHz. Check for 10.595MHz. Reconnect C157

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 Q103 base. 455kHz, 1000Hz @ 30% modulation.	Ch. 13	T110, T109, T105	Adjust for maximum output.
Output of signal generator thru .01uF to Q102 base. 10.635MHz, 1000Hz @ 30% modulation.	Ch. 13	T104, T103	Adjust for maximum output.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation.	Ch. 13	T102, T101	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	TRANSCIVER	ADJUST	REMARKS
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation. Output 1000uV.	Ch. 13	R143	SQUELCH RANGE Turn squelch control R144 fully clockwise. Adjust R143 so that squelch just breaks.
Output of signal generator thru .01uF to antenna jack. 27.115MHz, 1000Hz @ 30% modulation. Output 100uV.	Ch. 13	R125	S METER Adjust R125 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
Input of spectrum analyzer to antenna jack.	Ch. 13	T111,T112, T113,T114, T115	Adjust for maximum.
	Ch. 13	T115	Adjust for 4 watts maximum.
	Ch. 13	C184	Adjust for MINIMUM at 54MHz.

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 mic input.	Ch. 13	R145	AMC Disconnect C173 to disable AMC. Adjust signal for overmodulation. Restore AMC operation. Adjust R145 for 100% modulation maximum.
	Ch. 13	R182	RF PANEL METER Adjust R182 so that RF panel meter agrees with RF wattmeter.

AUDIOVOX MODEL MCB-2000

FM ALIGNMENT INSTRUCTIONS

CAUTION: Use isolation transformer or observe polarity when connecting test equipment.

Connect low sides of generator and indicator to ground unless specified otherwise.

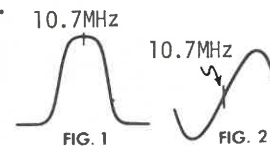
Maintain line voltage at 120V AC. Allow a 15-minute warm-up period.

Use only enough generator output to obtain a suitable indication.

Suggested alignment Tools: GC ELECTRONICS:

T1, T2 8728

T201 9440



FM IF ALIGNMENT USING AM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to junction of C204 and L204.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz Unmodulated	Point of non-interference	DC probe of VTVM to D1 cathode.	T1,T201	Adjust for maximum.
"	"	DC probe of VTVM to junction of R8 and R13.	T2	Adjust for zero reading. A positive or negative reading will be obtained on either side of correct setting.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR—SELECTOR IN FM POSITION

High side of generator thru .001uF to junction of C204 and L204.

Use only enough marker signal for indication. Use 60-hertz, frequency-modulated signal, 450kHz sweep.

Use 60-hertz sawtooth voltage in scope for horizontal deflection.

GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
10.7MHz 450kHz Sweep	Point of non-interference	Vert input of scope to D1 cathode.	T1,T201	Disconnect stabilizing capacitor C14. Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown. Reconnect C14.
"	"	Vert input of scope to junction of R8 and R13.	T2	Adjust T2 to place marker at center of S curve similar to Fig. 2. Readjust T1 for maximum amplitude and straightness of line.

FM ALIGNMENT INSTRUCTIONS (Continued)

FM RF ALIGNMENT—SELECTOR IN FM POSITION

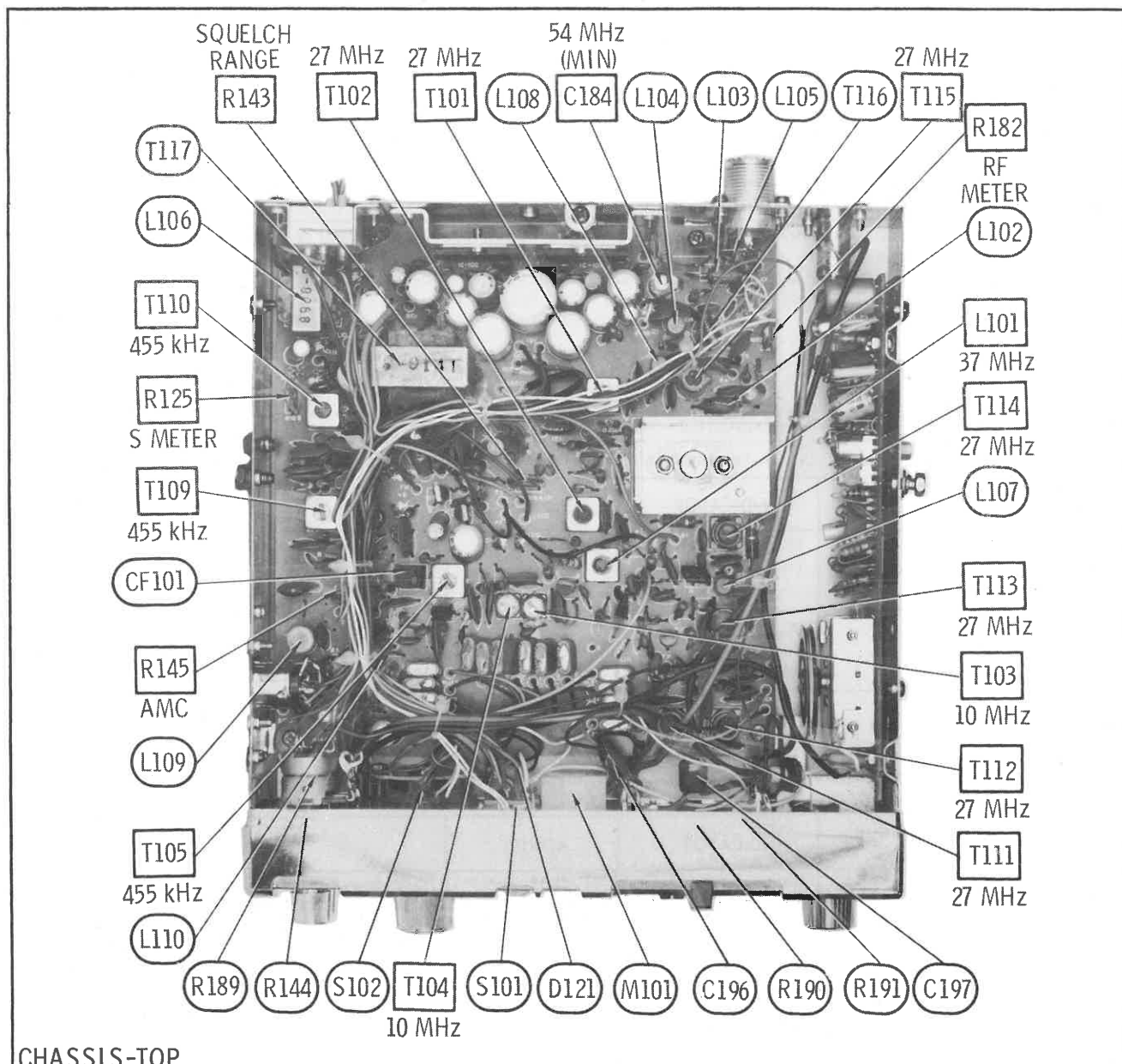
Connect generator across antenna terminals with 120-ohm carbon resistor in series with each lead. Adjustment of coils by bending should not be attempted unless the coil is deformed or replaced.

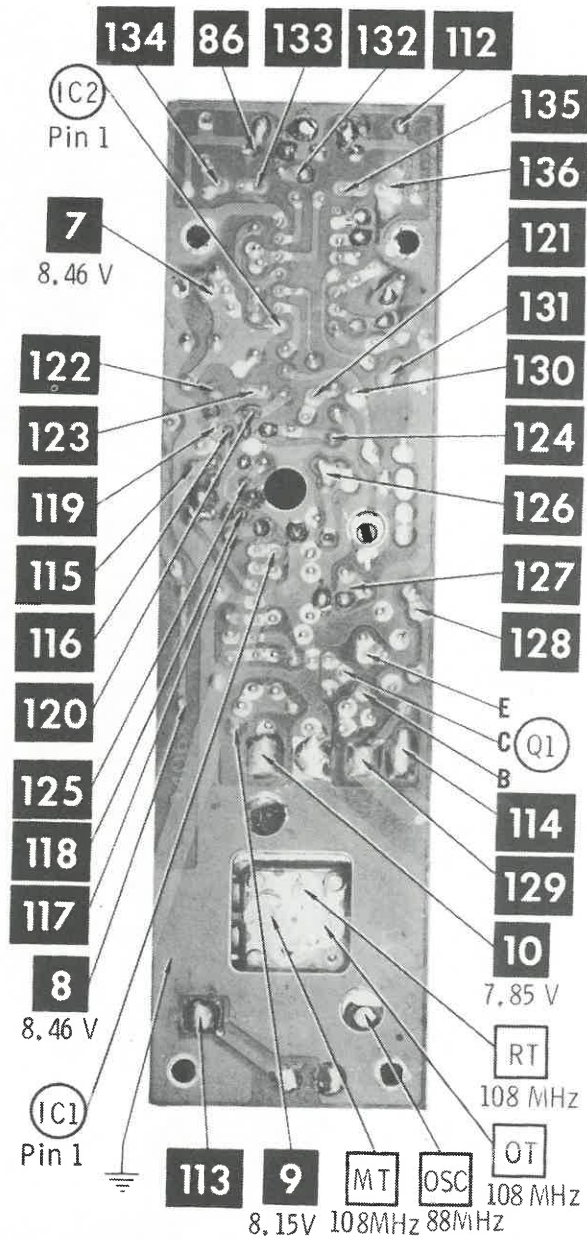
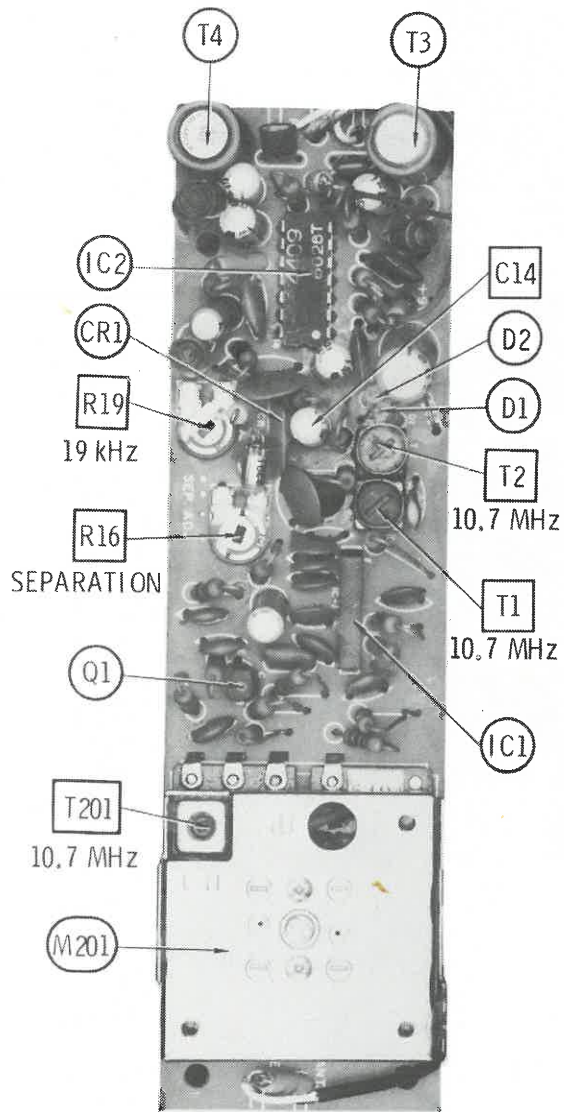
GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
88MHz Unmodulated		DC probe of VTVM to D1 cathode	OSC	Adjust for maximum.
108MHz Unmodulated		"	RT,MT,OT	Adjust for maximum. Repeat FM RF steps until no further improvement is noted.

FM STEREO MULTIPLEX ALIGNMENT USING FM STEREO SIGNAL GENERATOR ($\pm .0001\%$ ACCURACY)

Input of frequency counter to IC-2, Pin 10. Connect a jumper from junction of R16 and R8 to ground. Adjust R19 for 19kHz ± 20 cycles.

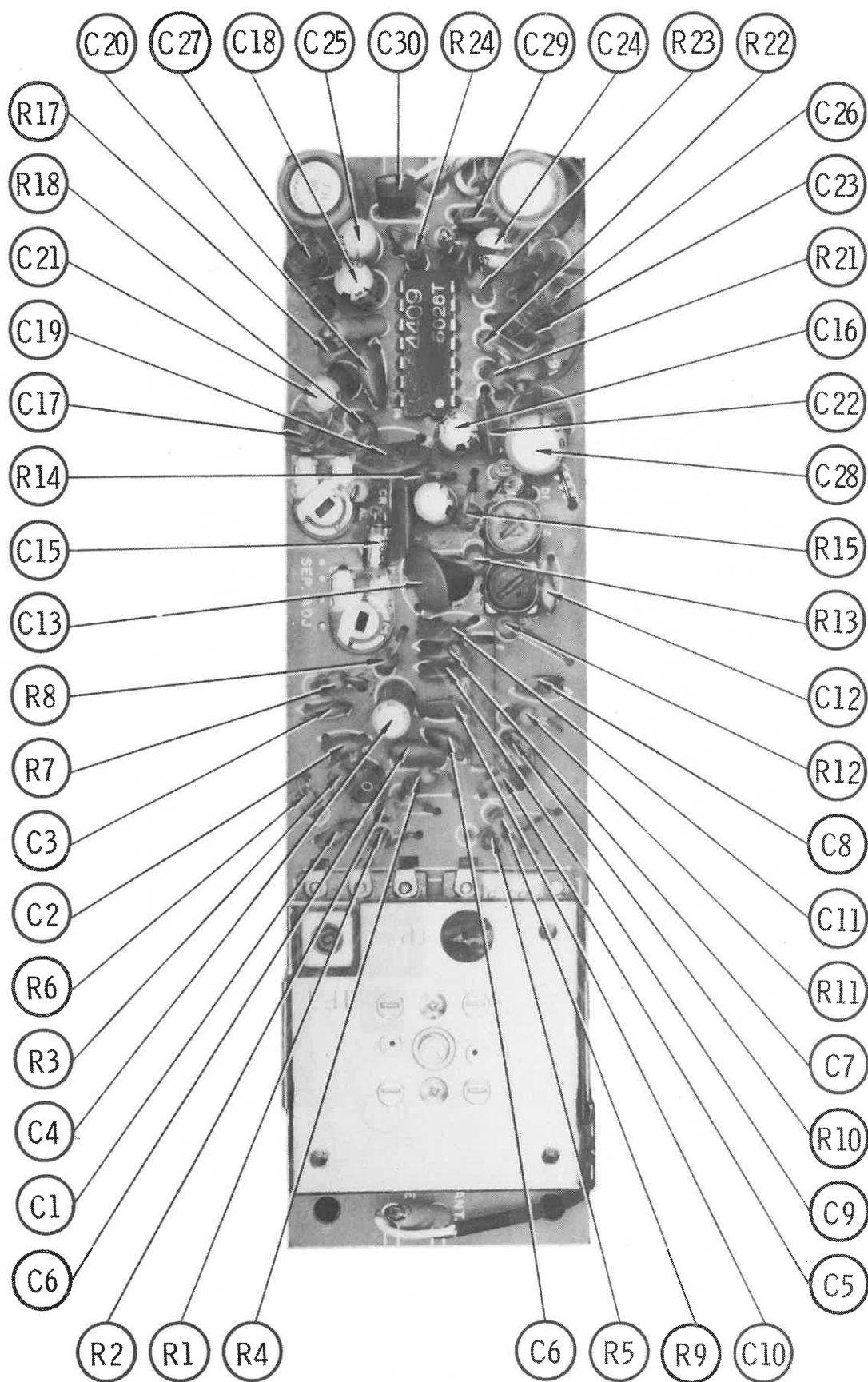
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
Modulated Left Channel	Vert input of scope to R.	R16	Adjust for MINIMUM. This step should require only slight adjustment.
Modulated Right Channel	Vert input of scope to L.		Check for MINIMUM. If necessary, make compromise adjustment of R16.



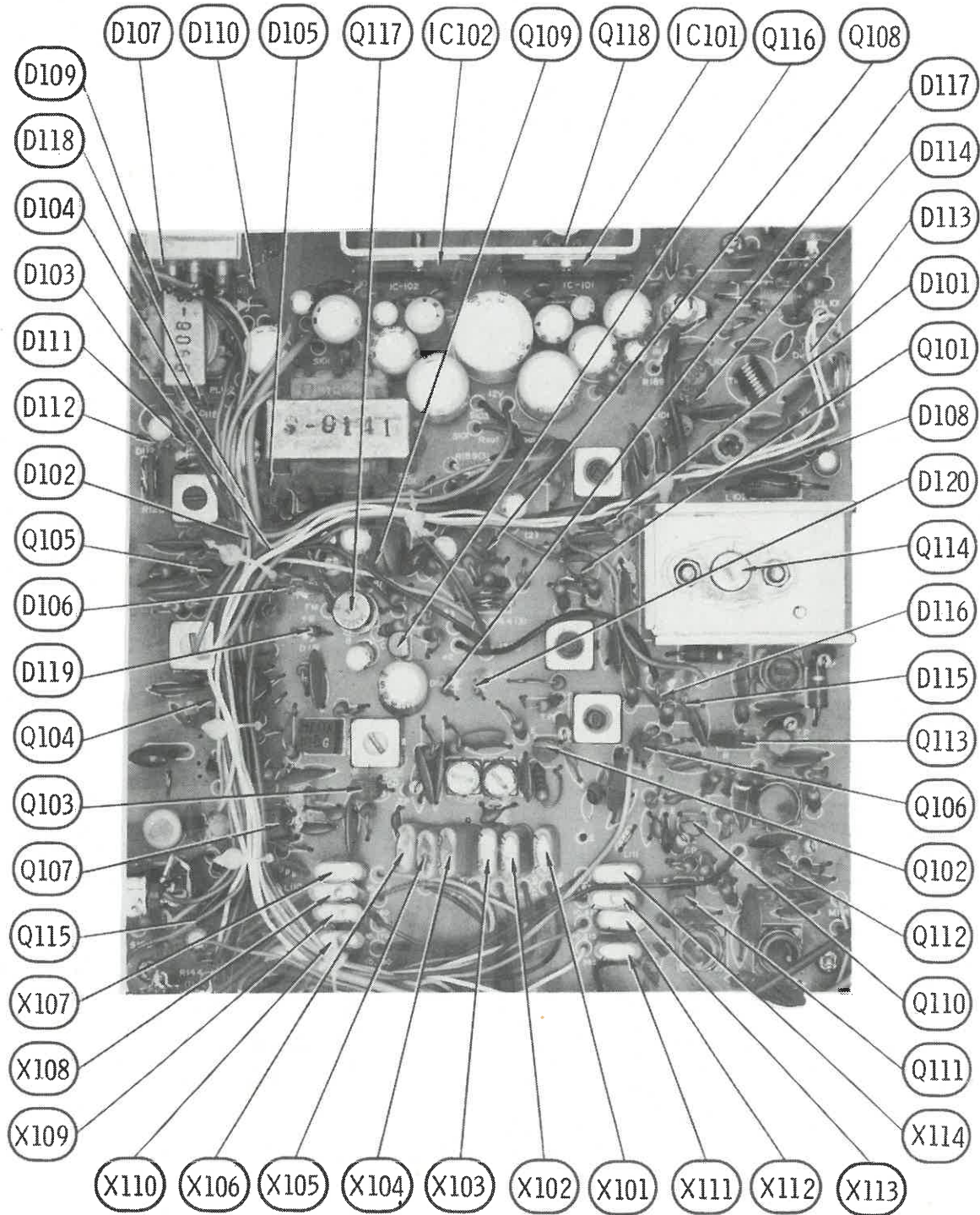


AUDIOVOX MODEL MCB-2000

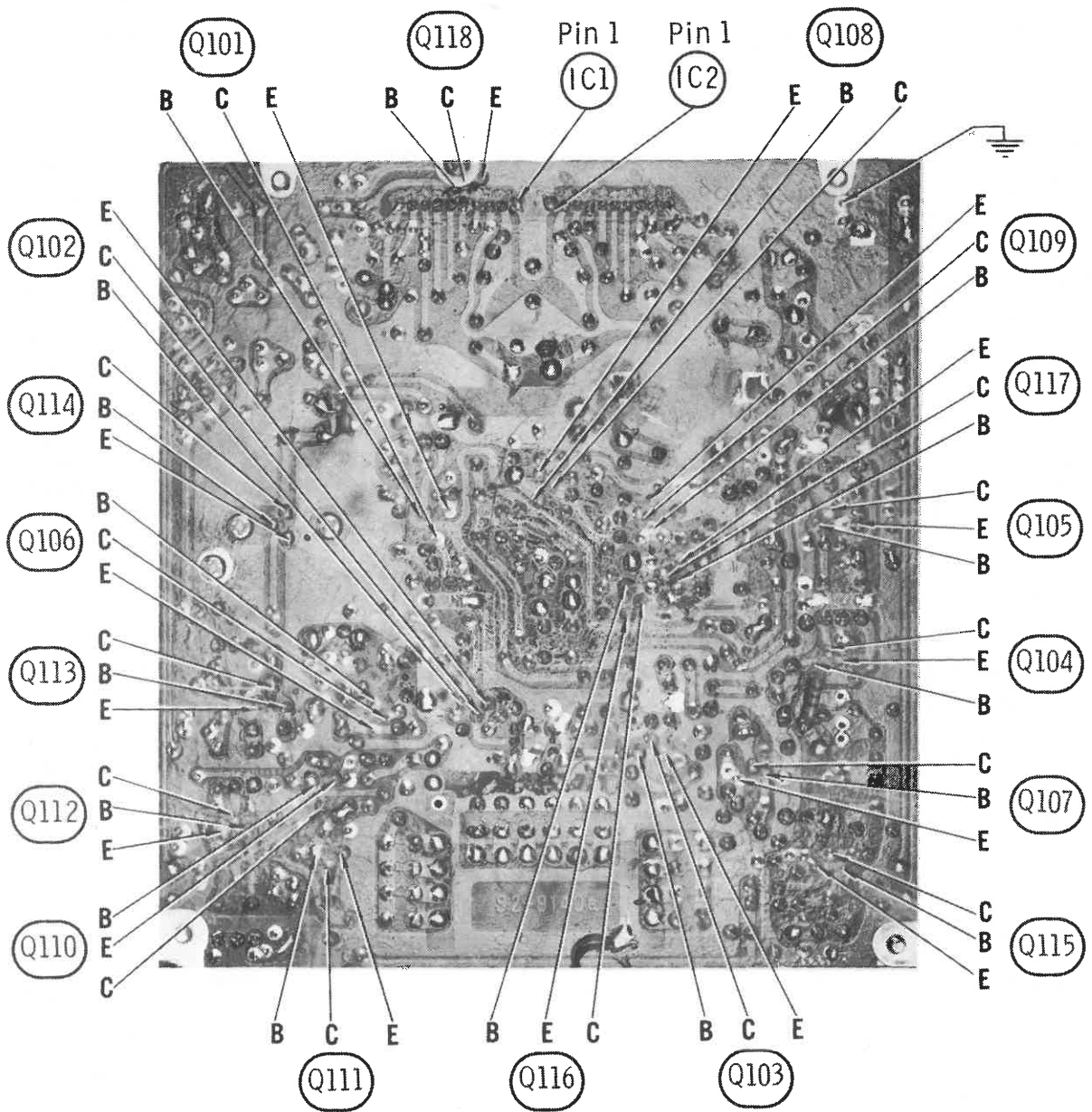
FM BOARD



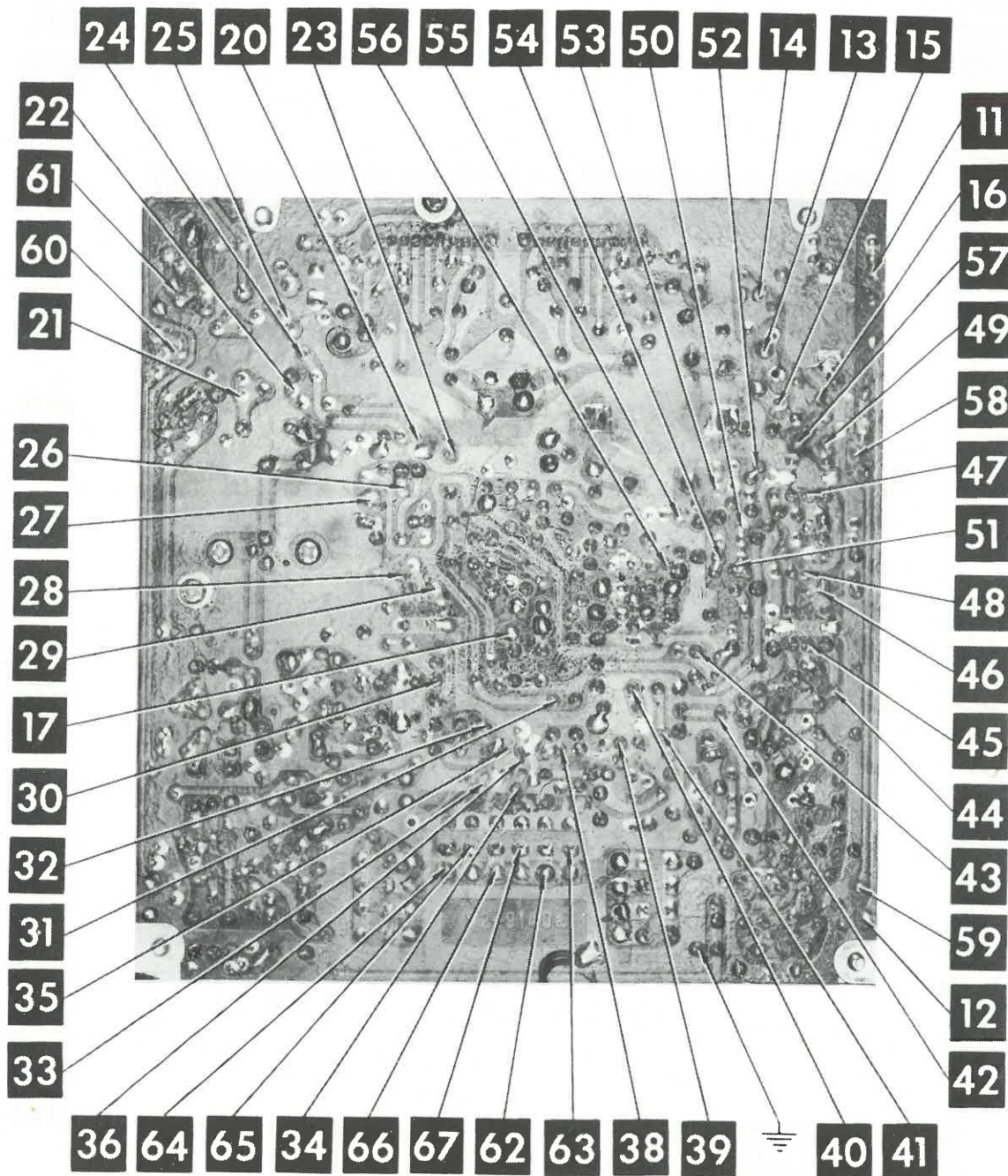
FM BOARD



CB BOARD

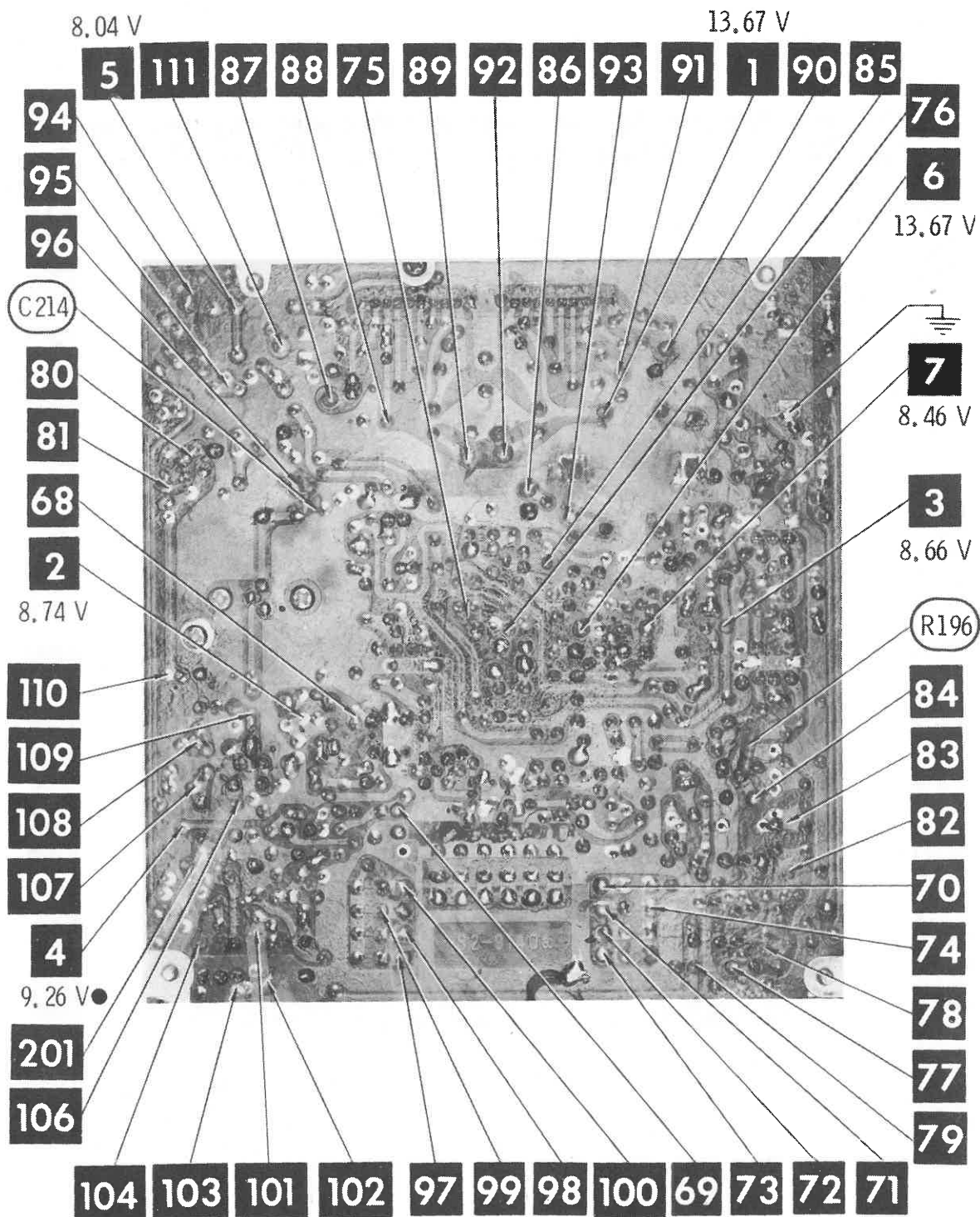


CB BOARD



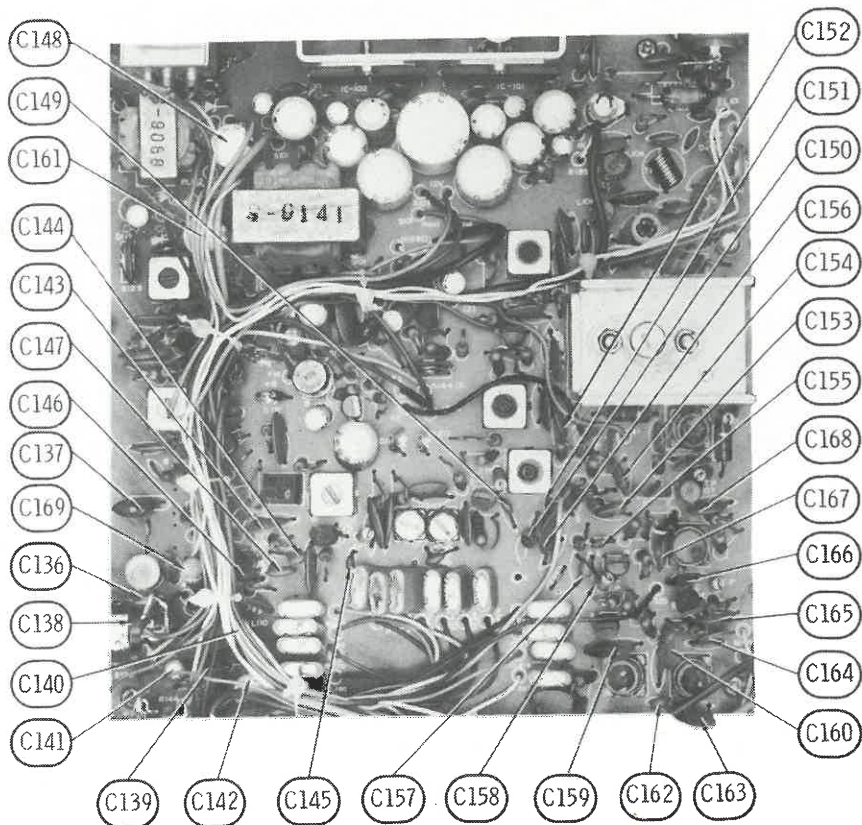
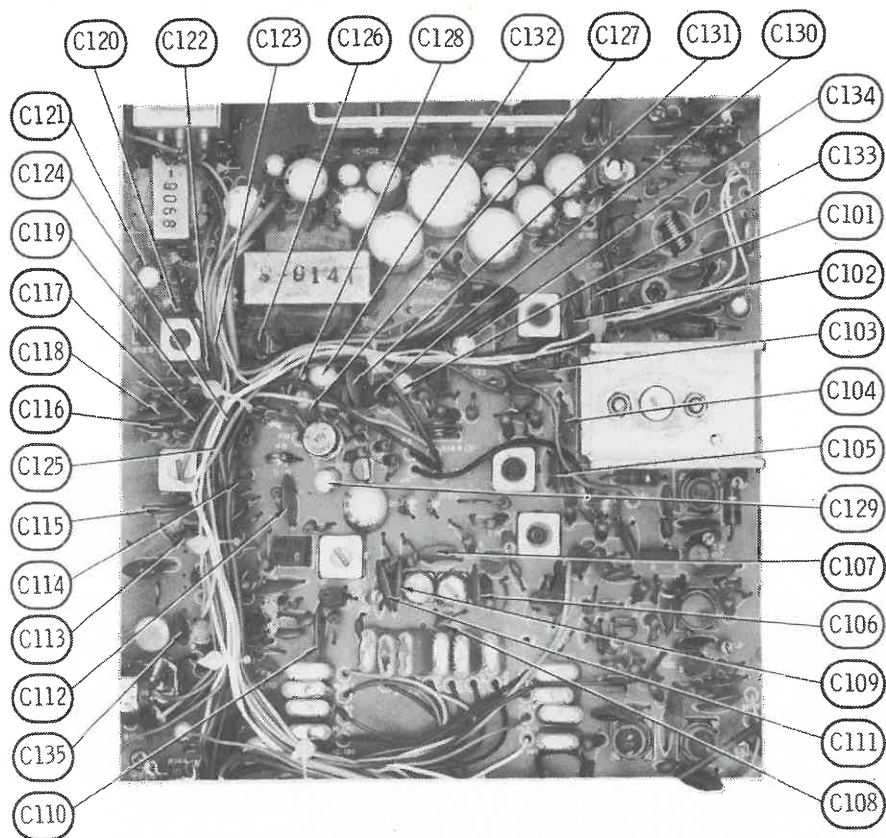
AUDIOVOX MODEL MCB-2000

CB BOARD

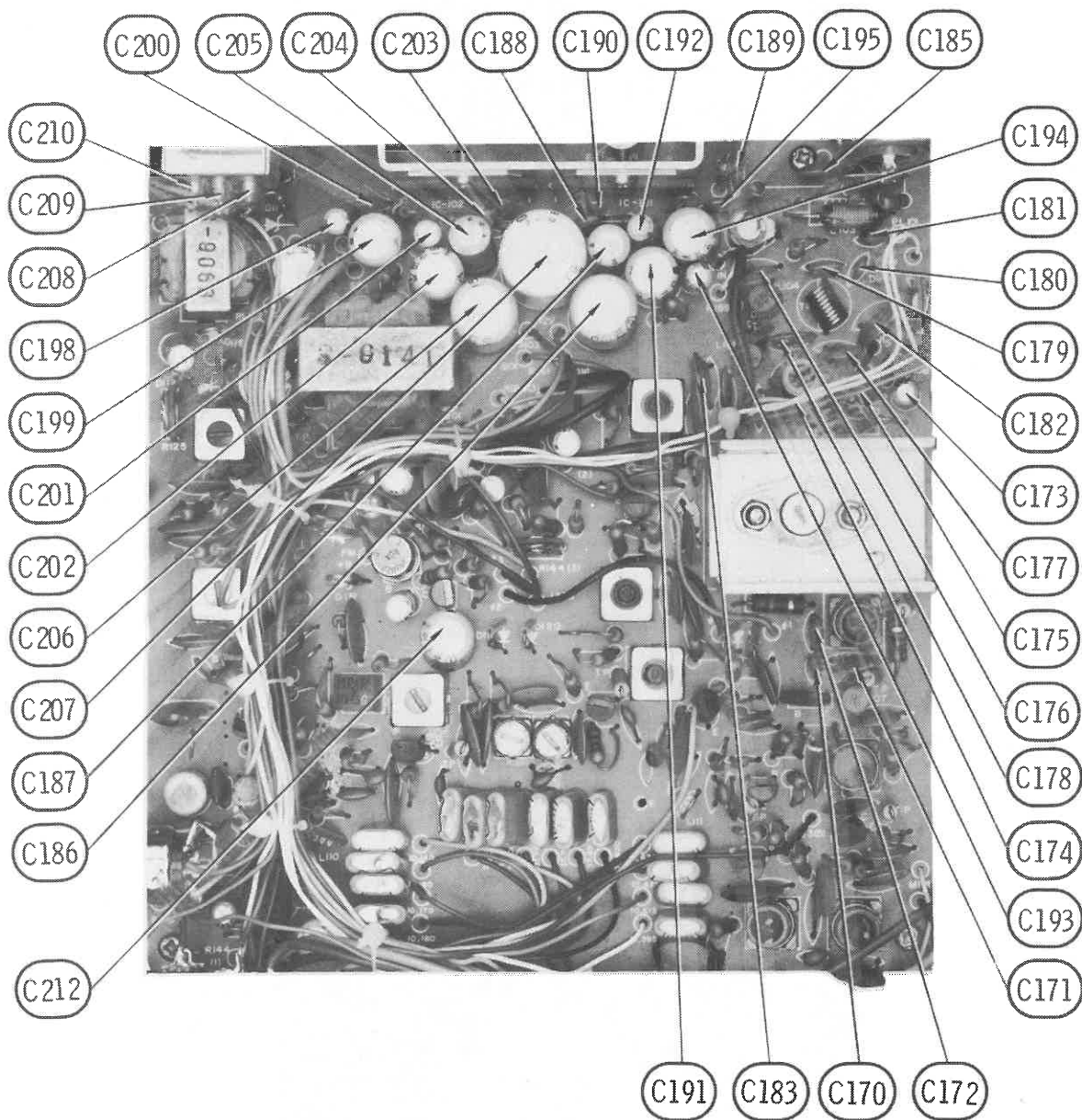


Transmit ●

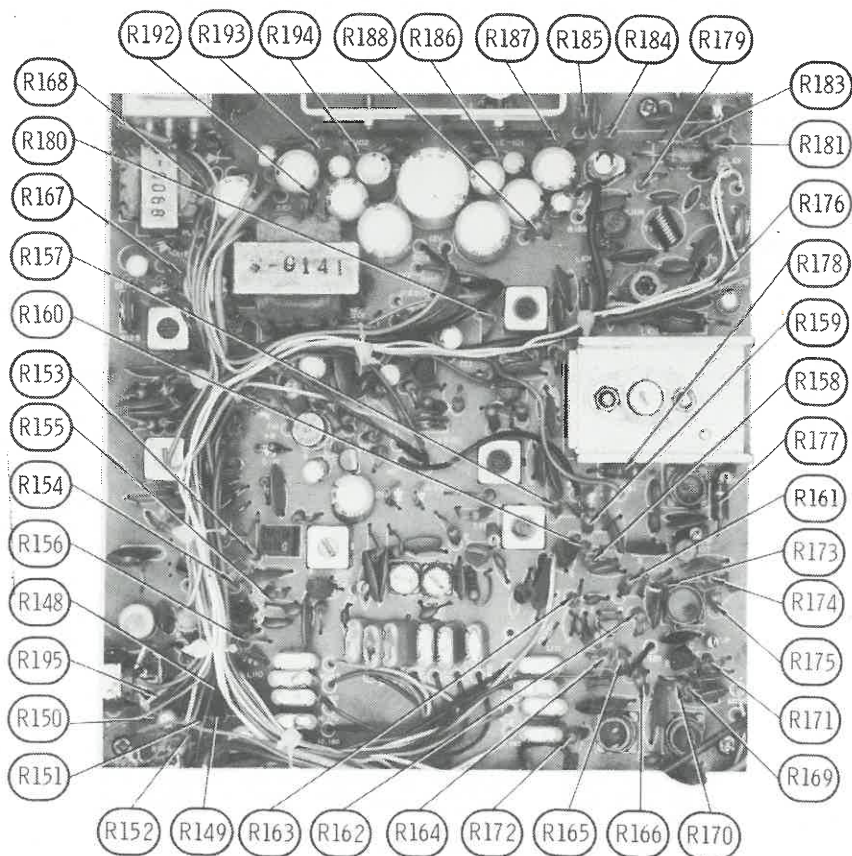
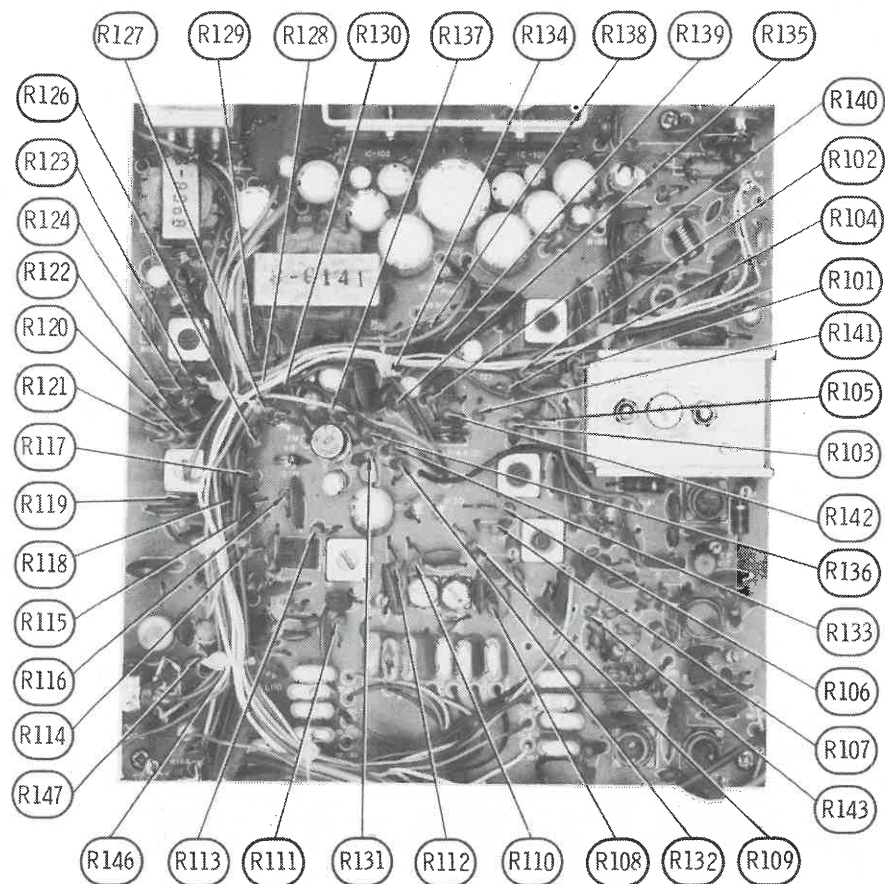
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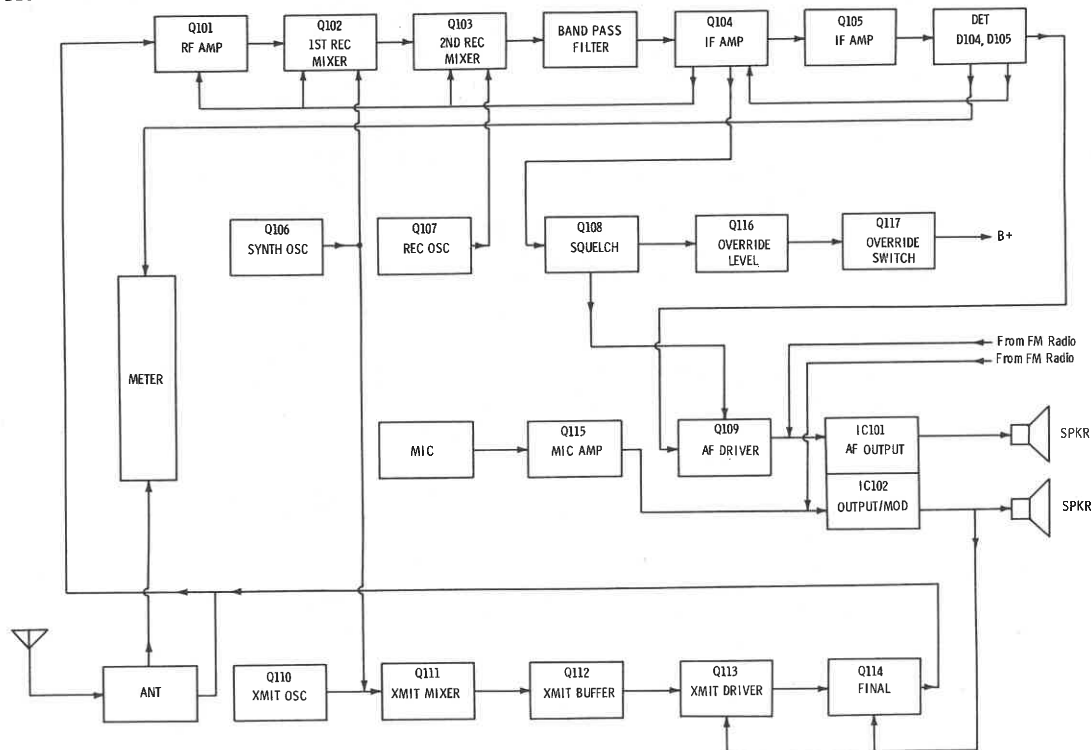


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BLOCK DIAGRAM



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	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D2	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D101	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D102	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D103	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D104	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D105	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D106	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
	WG1010A(1)		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D107	SR1K-8		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D108	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
	WG1010A(1)		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D109	SR1K-8		GE-504A	5A4D	PTC201	HEPR0052	RE 49	SK3030	RT-213	ECG116
D110	BZ-090									
D111	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D112	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D113	1N60		1N60	1N60	PTC206	HEPR9135	RE 47	SK3088	RT-263	ECG109
D114	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
D115	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
D116	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
D117	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
	WG1010A(1)		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
D118	BZ-090									
D119	BZ-090									

PARTS LIST AND DESCRIPTION (CONTINUED)

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

SEMICONDUCTORS (Select replacement transistor for best results) (cont)

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.
D120	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
D121	1S2473		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG519
IC1	W61010A(1)		GE-300	D200	PTC214	HEPR0602	RE 52	SK3100	RT-218	ECG177
IC2	TA7061AP		GEIC-92		PTC781				TVCN-78	ECG1100
	KB4409									
	LM1310N(1)		GEIC35				RE 334-IC		TVCN-73	ECG801
IC101	TA7204P									ECG1153
IC102	TA7204P									ECG1153
Q1	2SC372-0		GE-61 *	(IR)2SC372	PTC121 *	HEPS0015 *	RE 13 *	SK3122	RT-308	ECG123A *
Q101	2SC710C		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q102	2SC710C		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q103	2SC710C		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q104	2SC710C		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q105	2SC710C		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q106	2SC710C		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q107	2SC710C		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q108	2SC710C		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q109	2SC710C		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q110	2SC710C		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q111	2SC710C		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q112	2SC738C		GE-86 *	TR-70 *	PTC132 *	HEPS0033 *	RE 10 *	SK3018 *	RT-309	ECG108 *
	2SC735 (1)		GE-210 *	TR-21 *	PTC123 *	HEPS0014 *	RE 13 *	SK3122	RT-308 *	ECG289
Q113	2SC495T			WEP913	PTC180		RE 209		RT-162	ECG295
Q114	2SC756		GE-46	WEP909	PTC158		RE 206		RT-306F	ECG282
	2SC517 (1)		GE-46		PTC176		RE 198 *	SK3049	RT-306F	ECG237
Q115	2SC710C		GE-211 *	(IR)2SC710	PTC115	HEPS0016 *	RE 13 *	SK3018 *	RT-308 *	ECG123A *
Q116	2SC1740P _Q		GE-20 *	TR-24 *	PTC136 *	HEPS0016 *	RE 10 *	SK3122 *	RT-107A *	ECG108A *
Q117	2SC1740P _Q		GE-20 *	TR-24 *	PTC136 *	HEPS0016 *	RE 10 *	SK3122 *	RT-107A *	ECG108A *
Q118	2SC1740P _Q		GE-20 *	TR-24 *	PTC136 *	HEPS0016 *	RE 10 *	SK3122 *	RT-107A *	ECG108A *

* Lead Configuration may vary from original.

(1) Used in some versions.

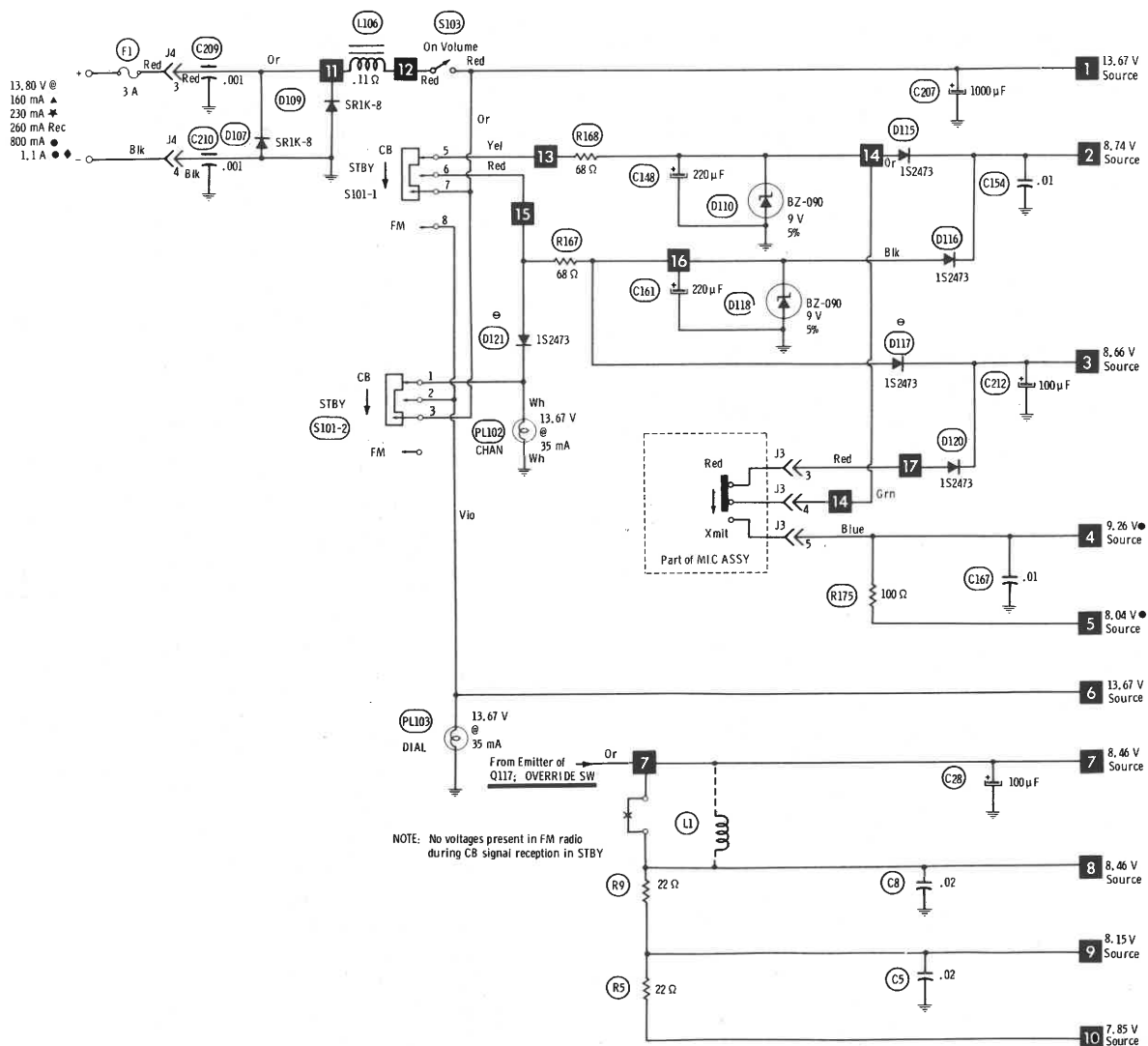
ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		MFR. PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
					Q-LINE	GENERAL LINE
C4	.47 50V			TDC474M050EL	QDT1-19	SD50-R479
C14	10 16V		PC10-25	VTT10A25	QV1-41	EV-1222
C16	10 16V		PC10-25	VTT10A25	QV1-41	EV-1222
C18	.47 50V			TDC474M050EL	QDT1-19	SD50-R479
C21	.47 50V			TDC474M050EL	QDT1-19	SD50-R479
C24	10 16V		PC10-25	VTT10A25	QV1-41	EV-1222
C25	10 16V		PC10-25	VTT10A25	QV1-41	EV-1222
C28	100 10V		PC100-10	VTT100E10	QE1-93	EV-1130
C121	1 50V		PC1-50	VTT1B63	QV1-11	EV-1615
C125	1 50V		PC1-50	VTT1B63	QV1-11	EV-1615
C127	.22 25V			TDC224M050EL	QDT1-10	SD50-R229
C128	.22 25V			TDC224M050EL	QDT1-10	SD50-R229
C129	1 50V		PC1-50	VTT1B63	QV1-11	EV-1615
C132	33 16V		PC30-25	VTT33D25	QV1-63	EV-1325
C133	1 50V		PC1-50	VTT1B63	QV1-11	EV-1615
C134	4.7 16V		PC5-50	VTT4R7A50	QV1-27	EV-1319
C138	.22 25V			TDC224M050EL	QDT1-10	SD50-R229
C140	10 16V		PC10-25	VTT10A25	QV1-41	EV-1222
C141	.22 25V			TDC224M050EL	QDT1-10	SD50-R229
C142	47 16V		PC50-16	VTT47D16	QV1-73	EV-1226
C148	220 16V		PC250-25	VTT220G16	QV1-117	EV-1240
C161	220 16V		PC250-25	VTT220G16	QV1-117	EV-1240
C169	33 16V		PC30-25	VTT33D25	QV1-63	EV-1325
C173	.22 25V			TDC224M050EL	QDT1-10	SD50-R229
C186	470 16V		PC500-16	VTT470J16	QV1-151	EV-1250
C187	47 16V		PC50-16	VTT47D16	QV1-73	EV-1226
C191	100 16V		PC100-16	VTT100F16	QV1-95	EV-1230
C192	10 16V		PC10-25	VTT10A25	QV1-41	EV-1222
C193	.47 50V			TDC474M050EL	QDT1-19	SD50-R479
C194	100 16V		PC100-16	VTT100F16	QV1-95	EV-1230
C198	.47 50V			TDC474M050EL	QDT1-19	SD50-R479
C199	100 16V		PC100-16	VTT100F16	QV1-95	EV-1230
C201	10 16V		PC10-25	VTT10A25	QV1-41	EV-1222
C202	100 16V		PC100-16	VTT100F16	QV1-95	EV-1230
C205	47 16V		PC50-16	VTT47D16	QV1-73	EV-1226
C206	470 16V		PC500-16	VTT470J16	QV1-151	EV-1250
C207	1000 16V		PC1000-16	VTT1000L16	QV1-183	EV-1260
C212	100 16V		PC100-16	VTT100F16	QV1-95	EV-1230

CAPACITORS

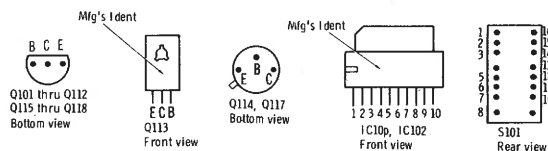
ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA				
			CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
						Q-LINE	GENERAL LINE
C1	.02		UK50-223		MAG5012		
C2	.02		UK50-223		MAG5012		
C3	.02		UK50-223		MAG5012		
C5	.02		UK50-223		MAG5012		
C6	.02		UK50-223		MAG5012		
C7	.02		UK50-223		MAG5012		
C8	.02		UK50-223		MAG5012		

AUDIOVOX MODEL MCB-2000



NOTE: No voltages present in FM radio during CB signal reception in STBY

Terminal Guides



✱ Circuitry not used in some versions

--- Circuitry used in some versions

⊙ See parts list

⊕ Ground

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.

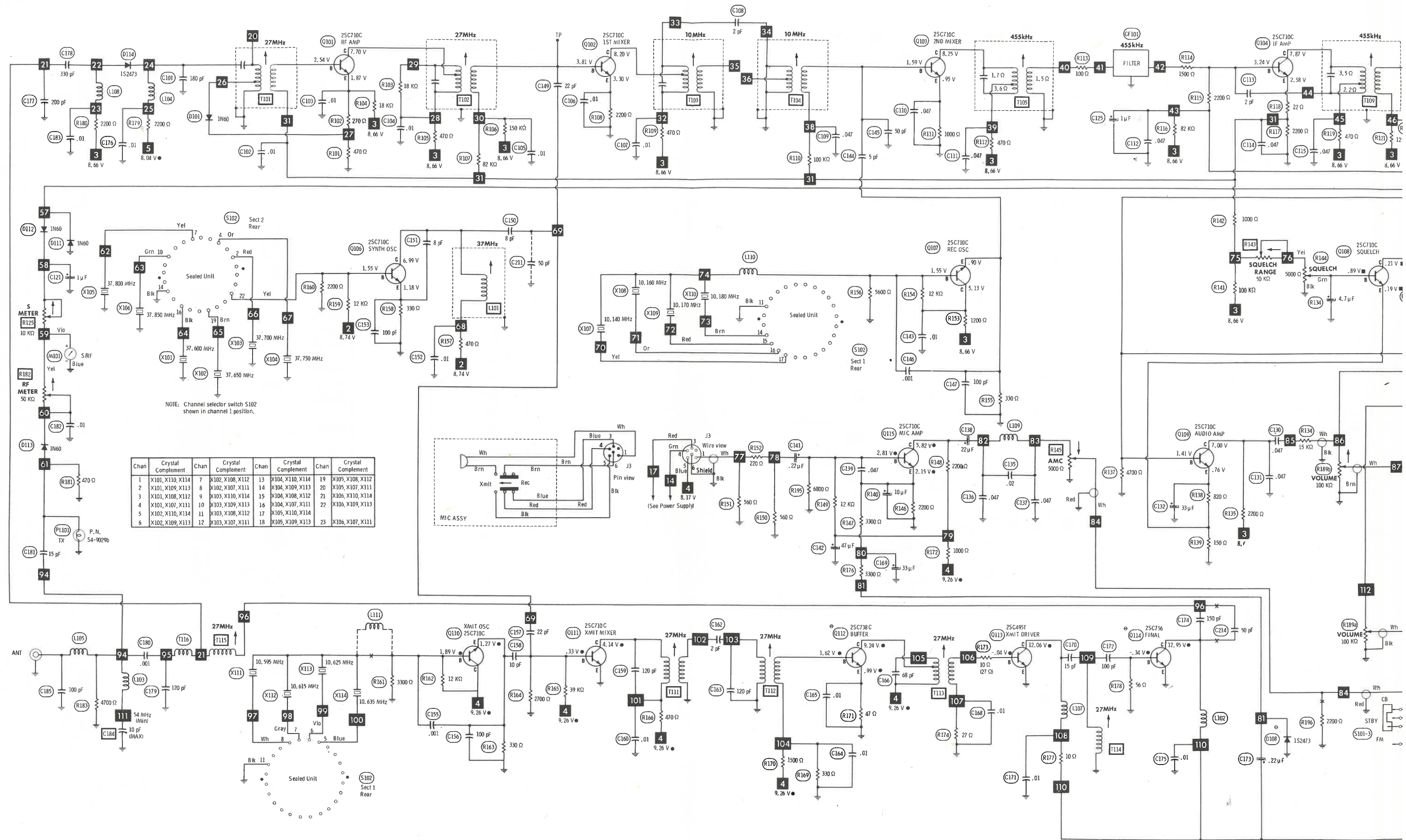
Resistors are 1/2W or less, 5% unless noted.

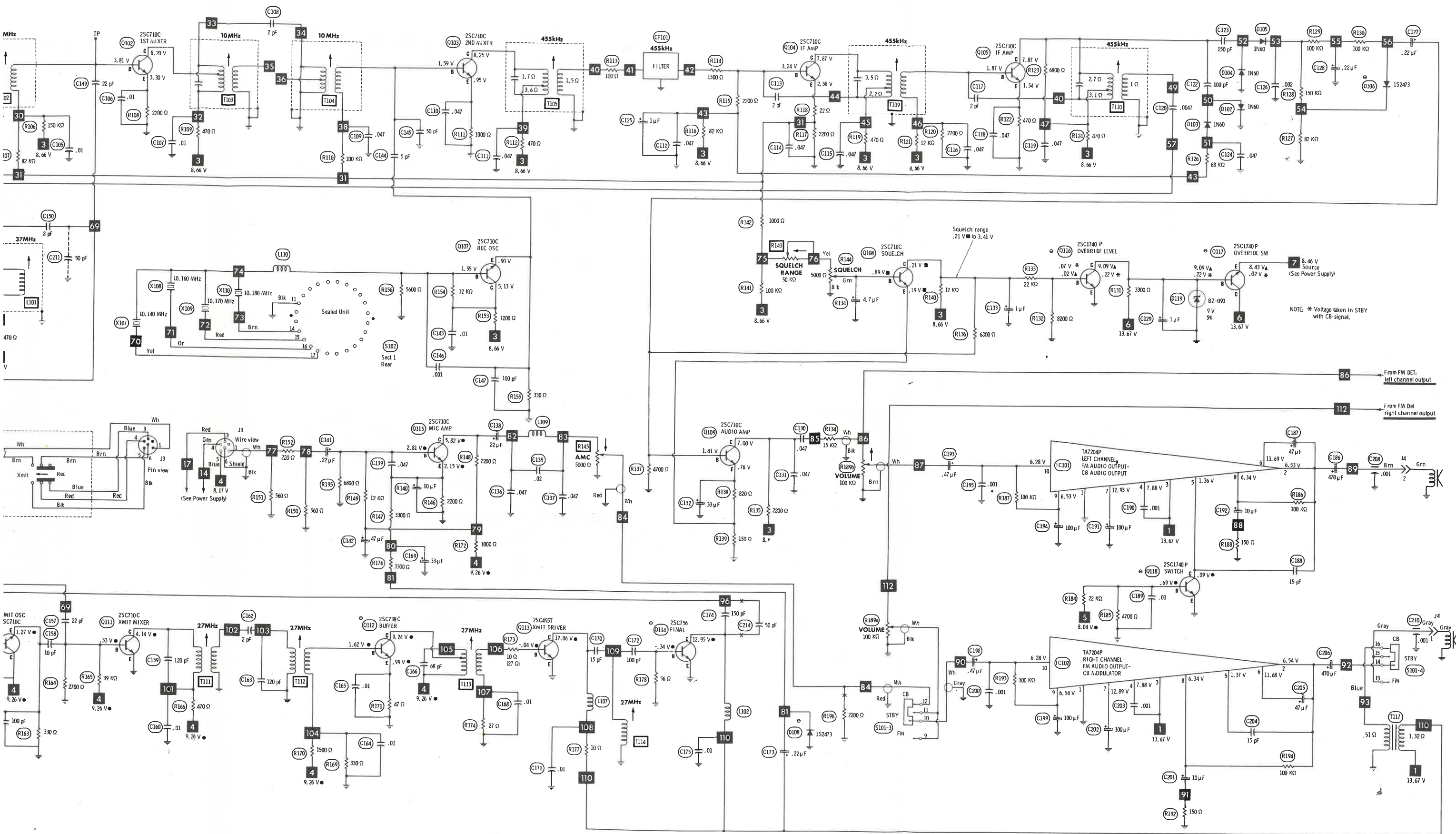
Value in () used in some versions.

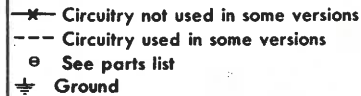
A PHOTOFACIT STANDARD NOTATION SCHEMATIC

WITH CIRCUITRACE™

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Measurements with switching as shown unless noted:
 ★ FM Stereo signal ▲ FM
 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 PHOTOFACIT STANDARD NOTATION SCHEMATIC
WITH CIRCUITRACE[®]

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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.	
						Q-LINE	GENERAL LINE
C9	.02		UK50-223		MAG5012		
C10	.02		UK50-223		MAG5012		
C11	.02		UK50-223		MAG5012		
C12	30 M220				*		10TCR-Q30
C13	220 10%		DD-221		GP322		10TS-T22
C15	220 5%			CD15FD221J03	SX322	QW1-35	MWA-221
C17	470 5%			CD15FD471J03	SX347	QW1-42	MWA-471
C19	.05		UK50-503		MAG5015		
C20	.2 12V		UK16-204				HY-470
C22	.022				M192P2239R8		192P2239R8
C23	.022				M192P2239R8		192P2239R8
C26	470 5%			CD15FD471J03	SX347	QW1-42	MWA-471
C27	470 5%			CD15FD471J03	SX347	QW1-42	MWA-471
C29	.0047 10%				M192P4729R8		192P4729R8
C30	.0047 10%				M192P4729R8		192P4729R8
C101	180 10%		DD-181		GP318		10TS-T18
C102	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C103	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C104	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C105	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C106	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C107	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C108	2						
C109	.047		UK25-503		MAG2515		HY-735
C110	.047		UK25-503		MAG2515		HY-735
C111	.047		UK25-503		MAG2515		HY-735
C112	.047		UK25-503		MAG2515		HY-735
C113	2						
C114	.047		UK25-503		MAG2515		HY-735
C115	.047		UK25-503		MAG2515		HY-735
C116	.047		UK25-503		MAG2515		HY-735
C117	2						
C118	.047		UK25-503		MAG2515		HY-735
C119	.047		UK25-503		MAG2515		HY-735
C120	.0047			NP0100	M192P4729R8		192P4729R8
C122	100 NPO 10%		DTZ-100		CNO310		10TCC-T10
C123	150 10%		DD-151		GP315		10TS-T15
C124	.047		UK25-503		MAG2515		HY-735
C126	.0022				M192P2229R8	QF1-171	192P2229R8
C130	.047				EWFA1A147		1PB-S47
C131	.047		UK25-503		MAG2515		HY-735
C135	.022				M192P2239R8		192P2239R8
C136	.047				EWFA1A147	QF1-171	1PB-S47
C137	.047				EWFA1A147	QF1-171	1PB-S47
C139	.047		UK25-503		MAG2515		HY-735
C143	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C144	5			CD15CD050D03		QW1-2	MWA-050
C145	50			CD15ED510J03		QW1-20	MWA-510
C146	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C147	100 10%		DD-101	GP100	GP310		10TS-T10
C149	22			CD15ED220J03	SX422	QW1-11	MWA-220
C150	8 NPO		DTZ-10	NP010	CNO410		10TCC-Q10
C151	8 NPO		DTZ-10	NP010	CNO410		10TCC-Q10
C152	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C153	100 10%		DD-101	GP100	GP310		10TS-T10
C154	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C155	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C156	100 10%		DD-101	GP100	GP310		10TS-T10
C157	22			CD15ED220J03	SX422	QW1-11	MWA-220
C158	10 NPO		DTZ-10	NP010	CNO410		10TCC-Q10
C159	120 NPO 10%		DTZ-120		CNO312		10TCC-T12
C160	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C162	2						
C163	120 NPO 10%		DTZ-120		CNO312		10TCC-T12
C164	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C165	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C166	68 NPO 10%		DTZ-68	NP068	CNO468		10TCC-Q68
C167	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C168	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C170	15			CD15CD150J03		QW1-8	MWA-150
C171	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C172	100 10%		DD-101	GP100	GP310		10TS-T10
C174	150 10%		DD-151		GP315		10TS-T15
C175	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C176	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C177	200 10%		DD-201	GP200	GP320		10TS-T20
C178	330 10%		DD-331	GP330	GP333		10TS-T33
C179	120 10%			CD15FD121J03	SX312	QW1-29	MWA-121
C180	.001		DD-102G	GP1000	GP210	QC2-81	5GA-D10
C181	15 NPO		DTZ-15	NP015	CNO415		10TCC-Q15
C182	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C183	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C184	10						
C185	100 10%		DD-101	GP100	GP310		10TS-T10
C188	15			CD15CD150J03		QW1-8	MWA-150
C189	.01		DC-103	MGP01	TA110	QC2-141	TG-S10
C190	.001			DPMS6D1	EWFA210	QF1-1	1PB-D10
C195	.001			DPMS6D1	EWFA210	QF1-1	1PB-D10
C196	.047				EWFA1A147	QF1-171	1PB-S47
C197	.047				EWFA1A147	QF1-171	1PB-S47
C200	.001			DPMS6D1	EWFA210	QF1-1	1PB-D10
C203	.001			DPMS6D1	EWFA210	QF1-1	1PB-D10
C204	15			CD15CD150J03		QW1-8	MWA-150
C208	.001	S4-9120					
C209	.001						
C210	.001						
C214	50			CD15ED510J03		QW1-20	MWA-510

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

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				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	MALLORY PART No.	TRW PART No.
R16	Separation	100K					
R19	19kHz Adj	5000					
R125	S Meter	10K		T-10K (2)	C-103 (2)	MTC14L1 (2)	X201R103B (2)
R143	Squelch Range	50K		T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
R144	Squelch	5000	S4-9127				
R145	AHC	5000		T-5000 (2)	C-502 (2)	MTC53L1 (2)	X201R502B (2)
R182	RF Meter	50K		T-50K (2)	C-503 (2)	MTC54L1 (2)	X201R503B (2)
R189a	Volume-Left	100K	S-1821b				
b	Volume-Right/Switch	100K					
R190a	Tone-Left	30K	S4-3007				
b	Tone-Right	30K					
R191	Balance	100K	S4-3008				

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

COILS (RF-IF)

ITEM No.	FUNCTION	REPLACEMENT DATA			REMARKS
		PART No.	OTHER IDENTIFICATION	MILLER PART No.	
L101	Synth Osc (37MHz)	S4-9128			
L102	RF Choke	S4-1009			
L103	TVI (54MHz)	S4-9074			
L104	RF Choke	S4-1894			
L105	Ant Match	S4-9153			
L107	RF Choke	S4-2048			
L108	RF Choke	S4-1894			
L109	RF Choke	S4-7157			
L110	Rec Osc				
T1	FM IF (10.7MHz)	S-1813			
T2	FM IF (10.7MHz)	S-3162			
T3	De-emphasis	FB-901			
T4	De-emphasis	FB-901			
T101	Rec Ant (27MHz)	S4-9004			
T102	Rec RF (27MHz)	S4-9005			
T103	Rec Mixer (10MHz)	S-2056			
T104	Rec Mixer (10MHz)	S-2056			
T105	CB IF (455kHz)	S4-9006			
T109	CB IF (455kHz)	S4-9007			
T110	CB IF (455kHz)	S4-9008			
T111	Xmit Mixer (27MHz)	S4-9129			
T112	Harmonic Suppressor (27MHz)	S4-9129			
T113	Xmit Buffer (27MHz)	S4-9130			
T114	Xmit Driver (27MHz)	S4-9152			
T115	Final Tank (27MHz)	S4-9087			
T116	RF Choke	S4-9154	S-9157		

AUDIOVOX MODEL MCB-2000

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.	
L106	1.1A	.112	1.1mH	S4-9068	TR557		

TRANSFORMER

ITEM No.	TURNS RATIO			REPLACEMENT DATA			NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	THORDARSON PART No.	TRIAD PART No.	
T117	.4	1		S4-9141a			

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	3A			AGC3	HDJ	312003	150145	FG3-2

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 NOISE CANCEL	GC POWER	GC CONNECTOR	GC Red	GC Shield	GC Yellow	GC Blue	GC White	GC Black
MIC	S3-9121	18-032	18-034	18-010	18-106	1	6	5	3	NC	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
X101	37.600		DA14W37.600	1,2,3,4	X108	10.160		DC90W10.160	3,7,11,15,19
X102	37.650		DA14W37.650	5,6,7,8	X109	10.170		DC90W10.170	2,6,10,14,18,22
X103	37.700		DA14W37.700	9,10,11,12	X110	10.180		DC90W10.180	1,5,9,13,17,21
X104	37.750		DA14W37.750	13,14,15,16	X111	10.595		DB90W10.595	4,8,12,16,20,23
X105	37.800		DA14W37.800	17,18,19,20	X112	10.615		DB90W10.615	3,7,11,15,19
X106	37.850		DA14W37.850	21,22,23	X113	10.625		DB90W10.625	2,6,10,14,18,22
X107	10.140		DC90W10.140	4,8,12,16,20,23	X114	10.635		DB90W10.635	1,5,9,13,17,21

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
CF1	Ceramic Filter	SFE-10.7MJ	10.7MHz (Red Dot)
CF101	Ceramic Filter		CFU455
CR1	Network	B3SD0109	De-emphasis
M101	Meter	S4-9111	S/R
M201	Tuner Assembly		FM
S101	Switch	S4-3624	CT/STBY/FM
S102	Switch	S3-9093	Channel Selector
S103	Switch		Power (On Volume)
	Bracket	S3-9125	Mobile Mount
	Printed Circuit Board		FM (S3-3406A)
	Printed Circuit Board		Main (S2-9140A)

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

ITEM	PART No.	ITEM	PART No.
Escutcheon	S3-9142	Knob, Tuning	S4-9143
Cabinet, Top	S3-9123	Knob, Squelch	S4-9144
Cabinet, Bottom	S3-9124	Knob, Tone & Balance	S4-9145
Knob, Channel Selector	S4-9138		

WIRING DATA

General-use Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 13 Colors
Shielded Antenna Lead	8524 (Stranded) Available in 13 Colors
	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
Bonding Strap	Use BELDEN No. 8661 (3/8 inch)

DIAL CORD STRINGING

