

PHOTOFACT[®] with

CIRCUITRACE[®]

For Supplier Address See PHOTOFACT Index



MODEL 132.22800001

SEARS MODEL 132.22800001

ALIGNMENT INSTRUCTIONS

Check for specified source voltage. Set volume control at maximum.
Fashion loop of several turns of wire and connect generator across loop.
Use only enough generator output to obtain a suitable indication.

Suggested Alignment Tools:

A1,A2,A3,A6,A9,A12 thru A17,A20GENERAL CEMENT #9087

A4,A5,A7,A8,A10,A11,A18,A19,A21,A22...GENERAL CEMENT #8605

SELECTOR IN AM

	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1.	455KC 400 cycle modulation	Tuning gang fully open.	Output Meter across voice coil.	A1,A2, A3	Adjust for maximum. Repeat until no further improvement can be made.
2.	1650KC	"	"	A4	Adjust for maximum.
3.	1400KC	Tune to signal	"	A5	"
4.	600KC	"	"	A6	Rock tuning gang and adjust for maximum. Repeat steps 2 thru 4 until no further improvement can be made.

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

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ALIGNMENT INSTRUCTIONS (Continued)

SELECTOR IN MB

	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
5.	6MC	6MC	Output Meter across Voice coil.	A7,A8	Adjust for maximum.
6.	2MC	2MC	"	A9	"

SELECTOR IN SW

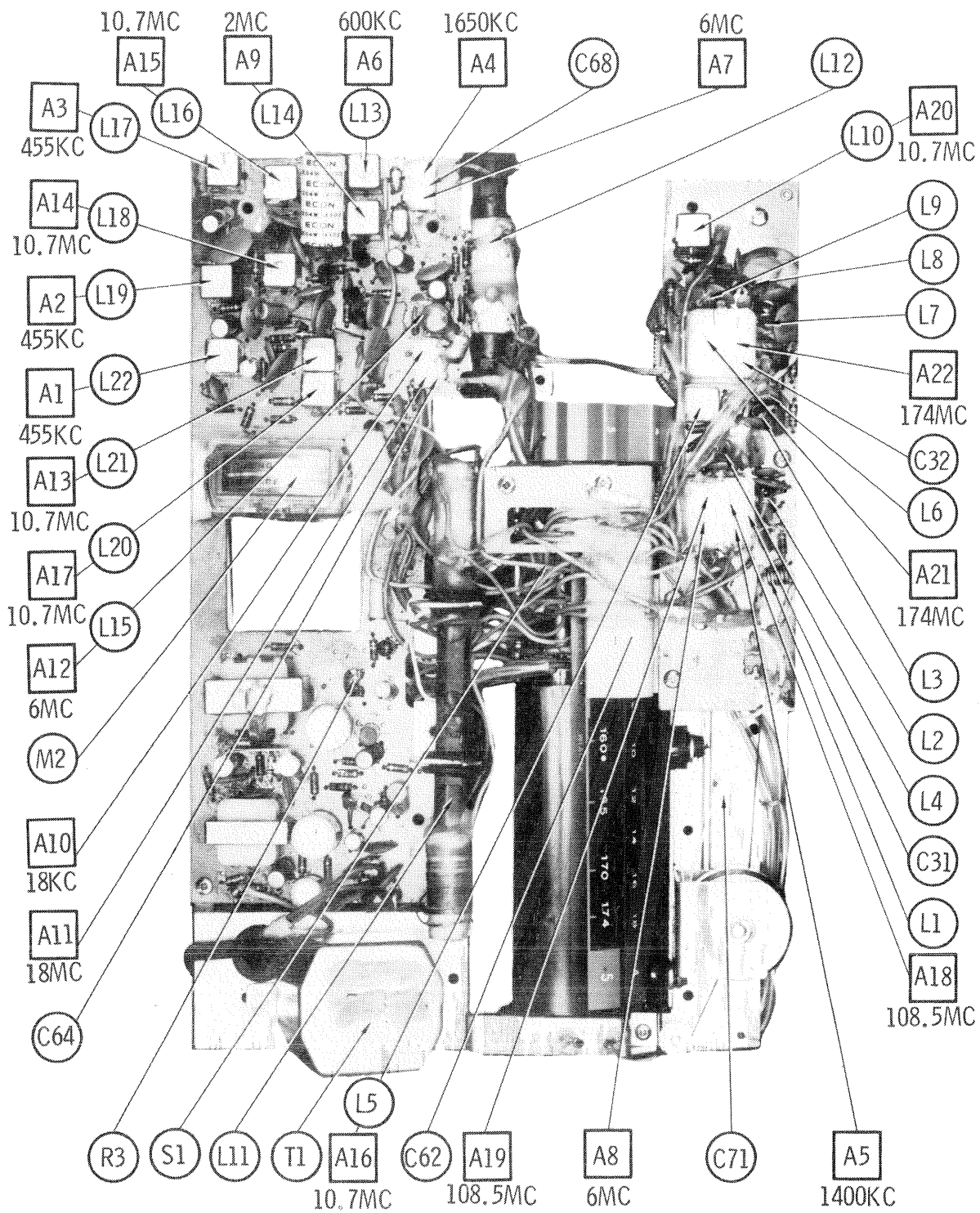
	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
7.	18MC	18MC	Output Meter across voice coil.	A10,A11	Adjust for maximum
8.	6MC	6MC	"	A12	"

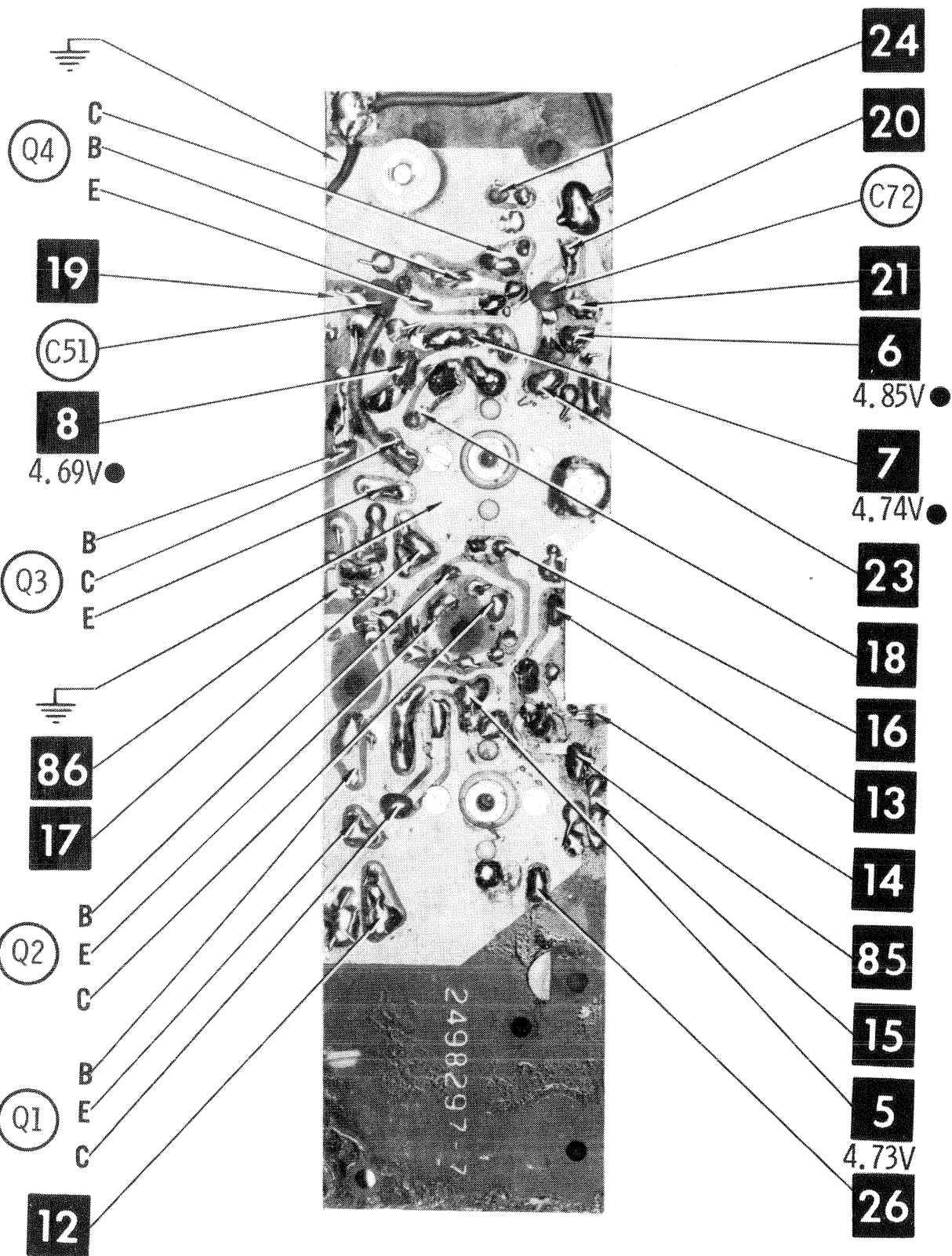
SELECTOR IN FM

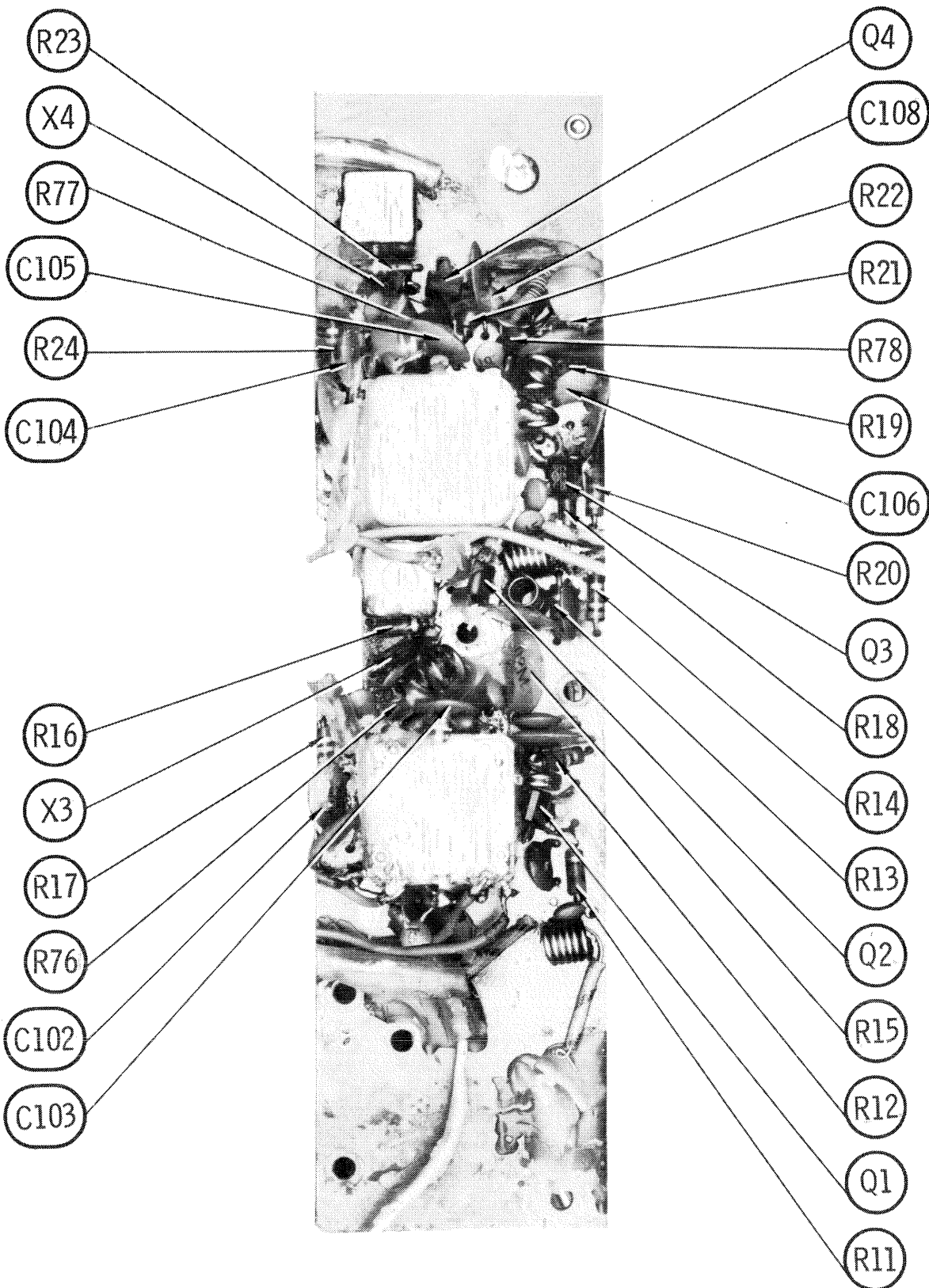
	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
9.	10.7MC Unmodulated	Point of non- interference	DC probe of VTVM to point $\diamond A$, common to ground.	A13,A14, A15,A16	Adjust for maximum
10.	"	"	DC probe of VTVM to point $\diamond B$, common to ground.	A17	Adjust for zero reading. A positive or negative reading will be obtained on either side of the correct setting.
11.	108.5MC	High freq. end.	DC probe of VTVM to point $\diamond A$, common to ground.	A18,A19	Adjust for maximum

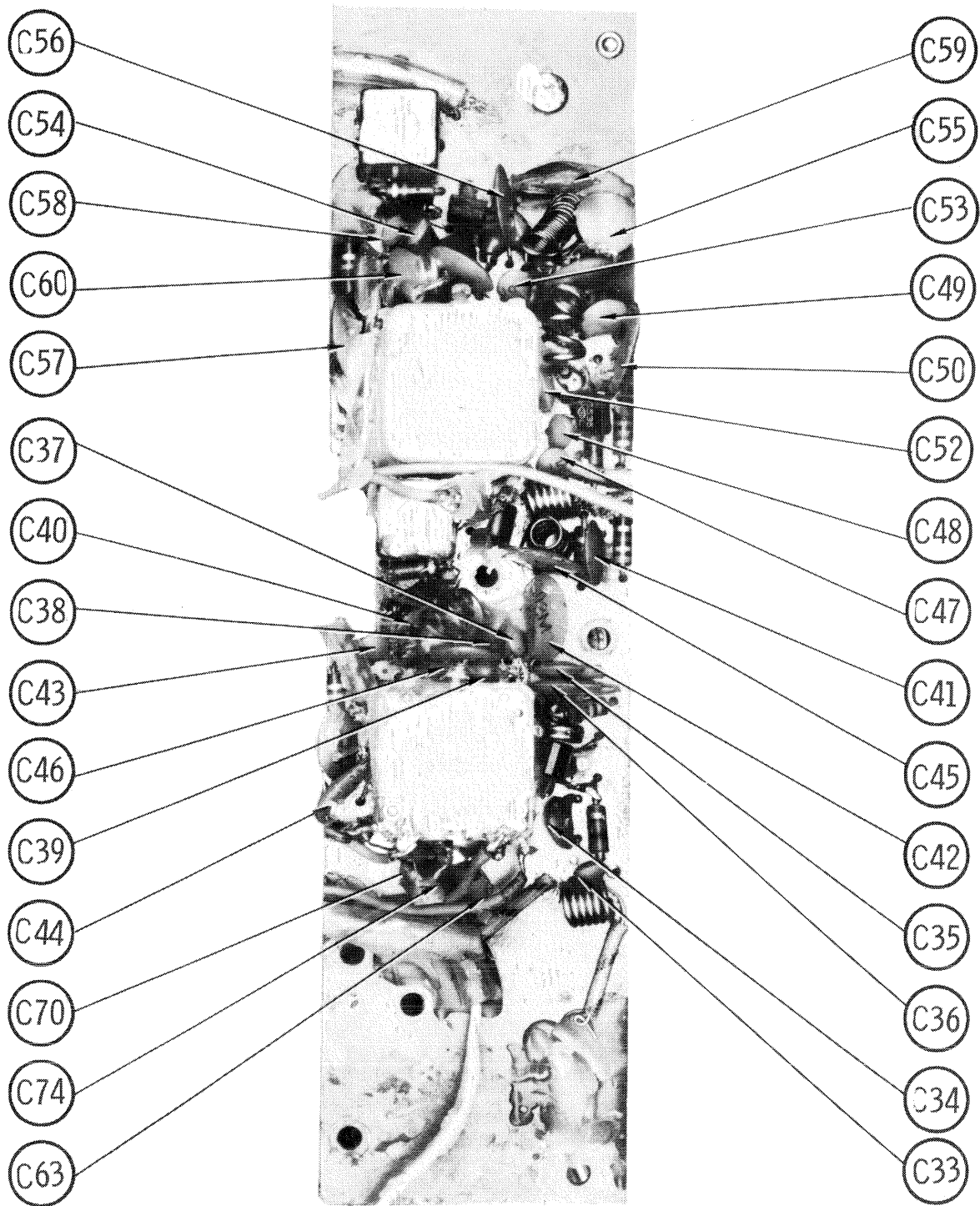
SELECTOR IN PSB

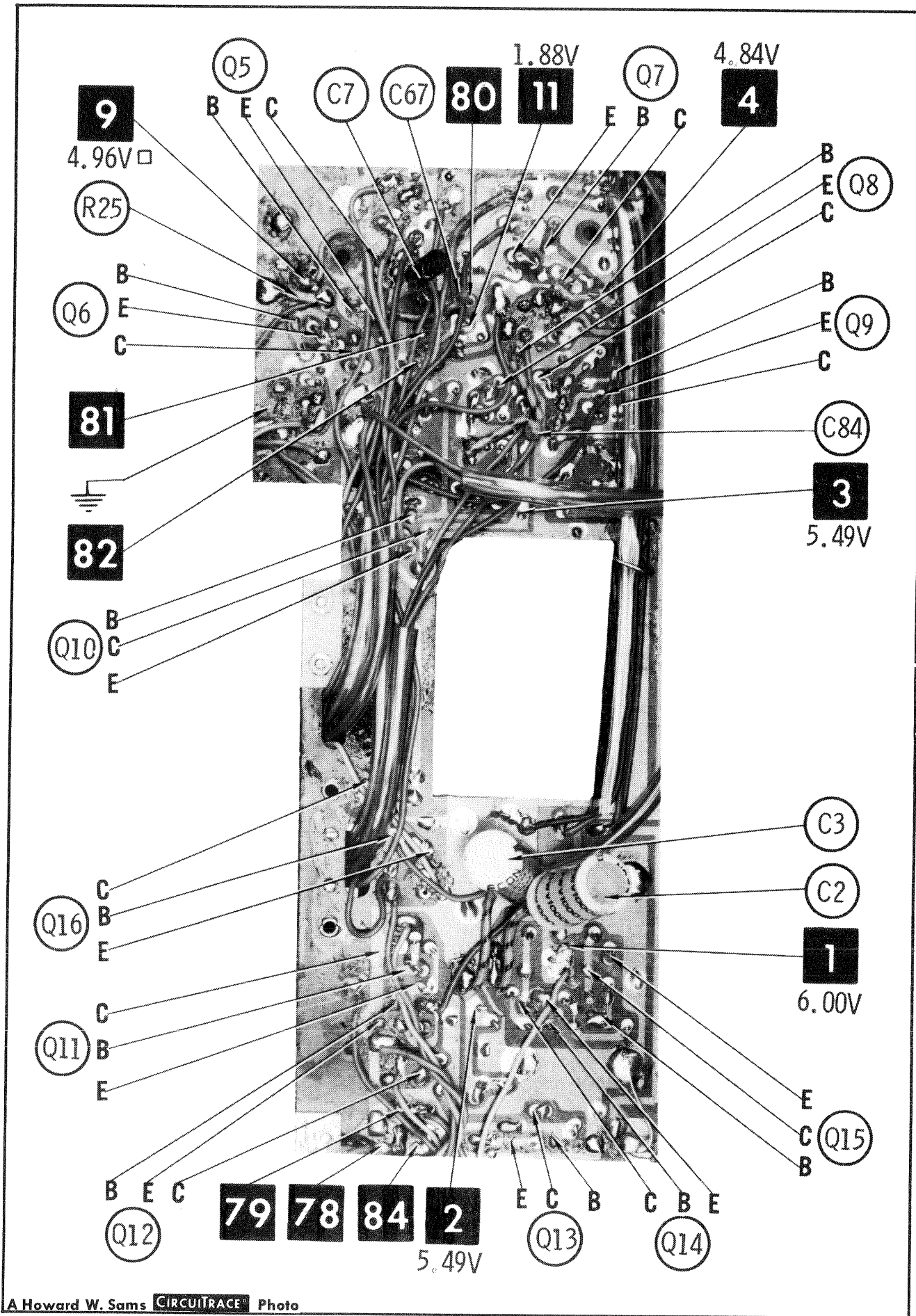
	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
12.	10.7MC Unmodulated	Point of non- interference	DC probe of VTVM to point $\diamond A$, common to ground.	A20	Adjust for maximum.
13.	174MC	High freq. end.	"	A21,A22	Adjust for maximum.

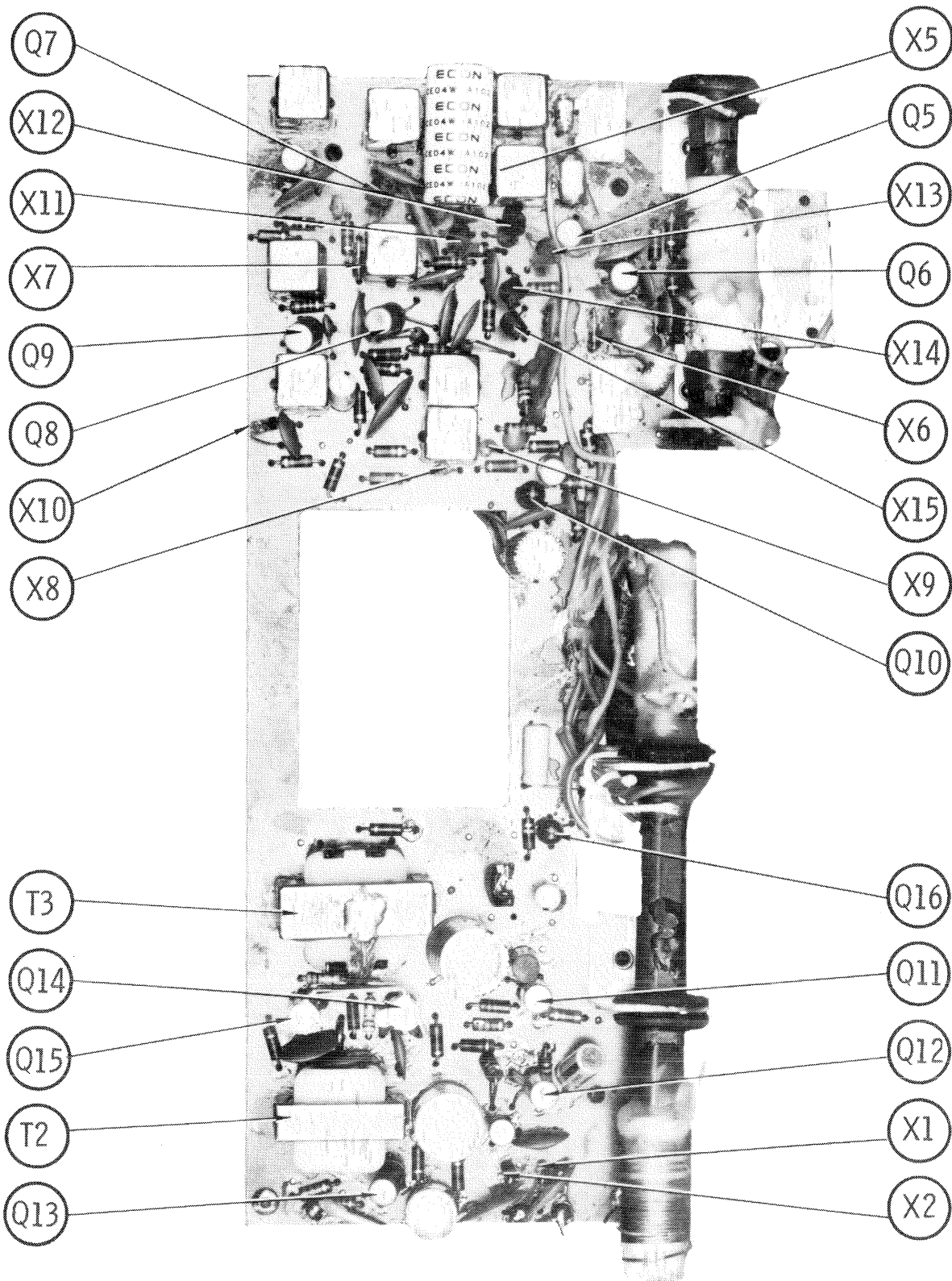


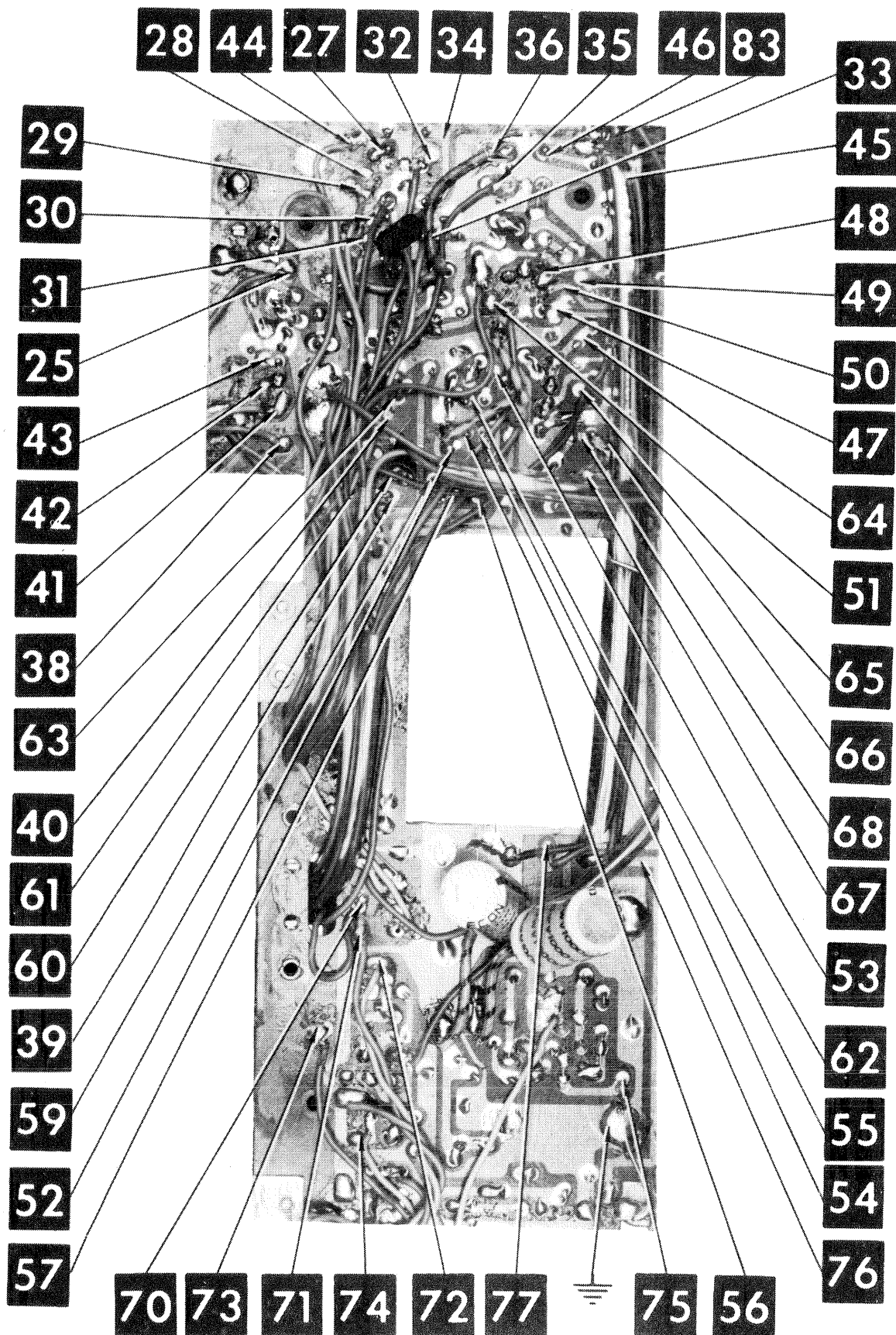


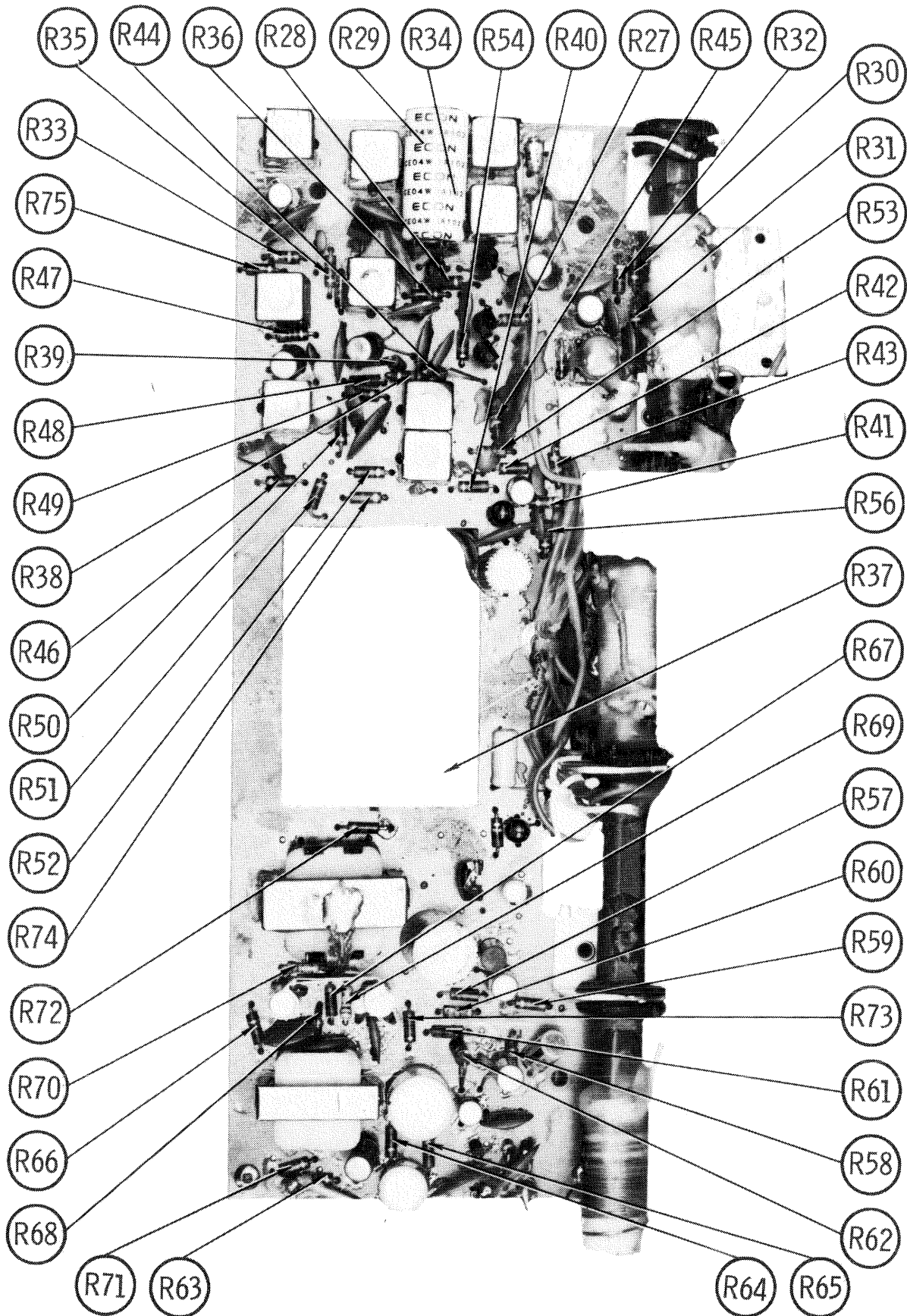


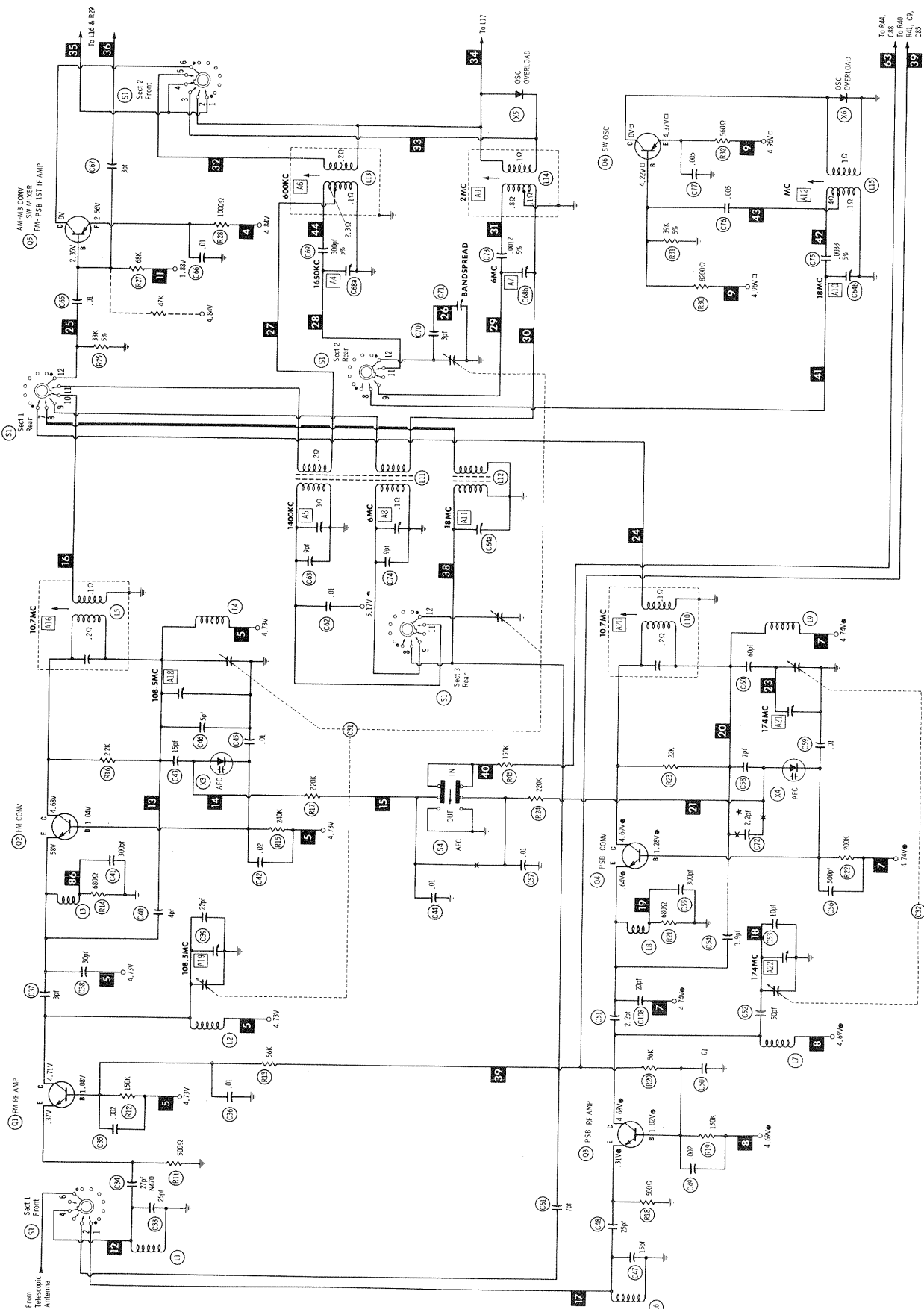


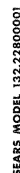












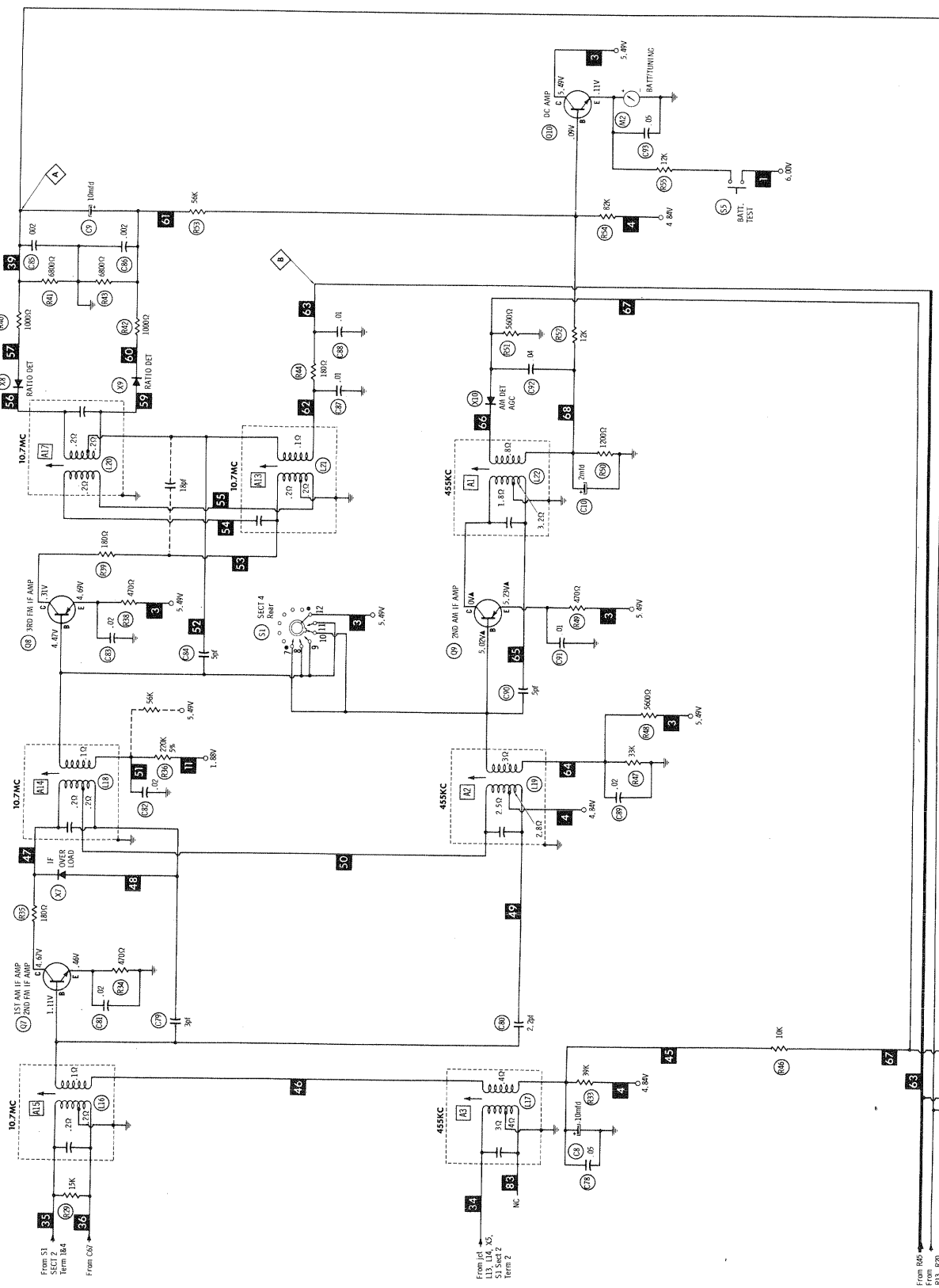
⏏ Denotes ground. (Voltage reference unless otherwise indicated).
 -- Indicates connection used in some versions.
 * Indicates connection not used in some versions.

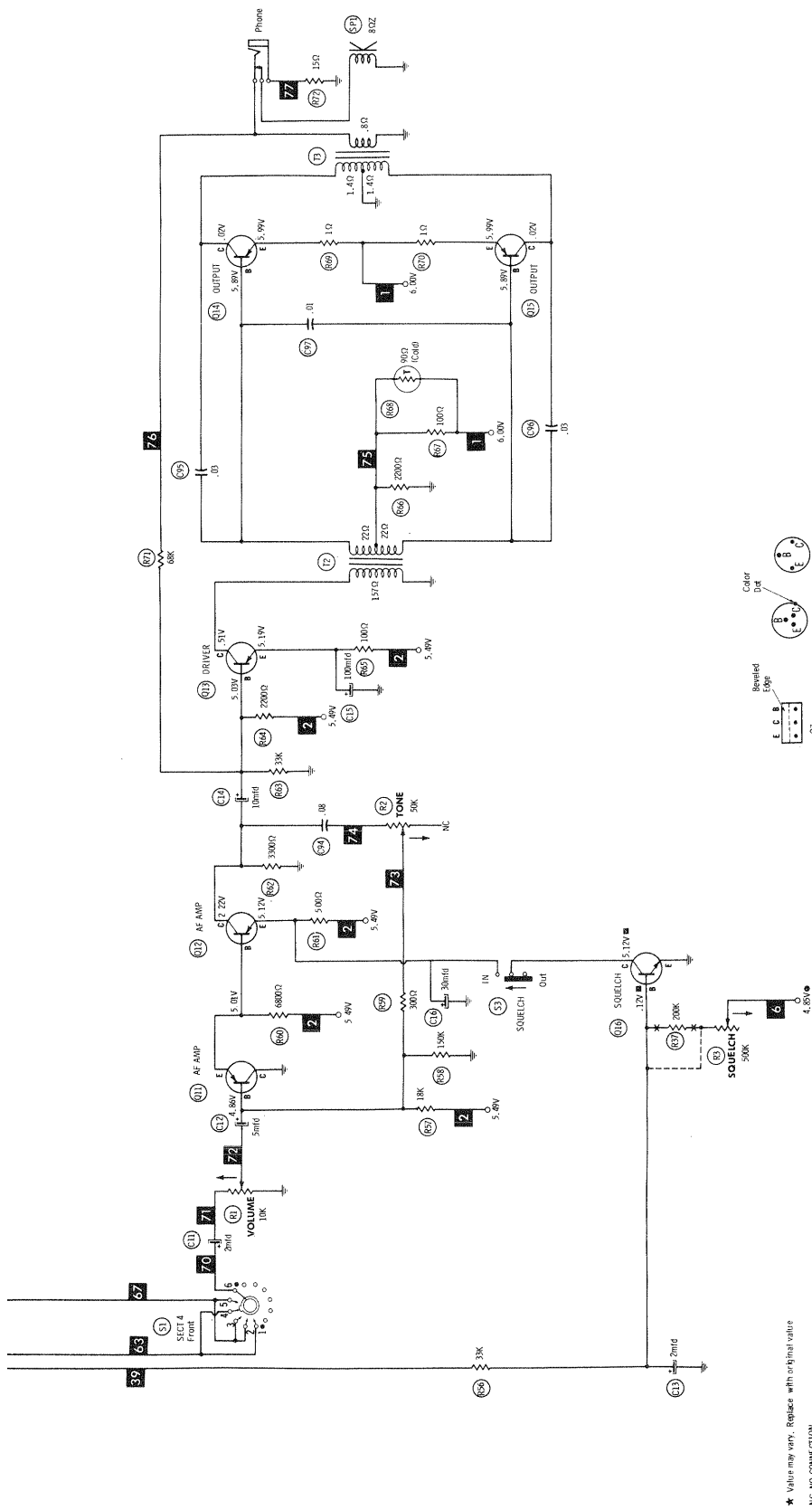
Measurements taken with switching in position shown unless otherwise indicated.

- Measured with 5° EQUULEUS in "PS3" position
 ■ Measured with switching in "PS3" position
 ■ Measured with switching in "SW" position
 ■ Measured with switching in "W3" position
 ■ Measured with switching in "AM" position.
- Values shown in 0 are used in some applications.
 Resistors are 12W or less, 10% or 20%, unless otherwise indicated.
 Supply voltage maintained at rated value for measurements.
 Voltage and resistance measured with VMM or equivalent meter.
 Normal operation.
 Arrow on unit indicates direction of airflow.
 Numbers assigned to terminals may not be found on the unit.
 Transfer resistances vary widely. No resistance measurements taken.

A PHOTOFACT STANDARD NOTATION SCHEMATIC

with **CIRCUITRACE®**





★ Value may vary. Replace with original value

NC NO CONNECTION

—●— Denotes ground. Voltage reference unless otherwise indicated.

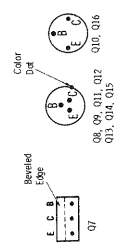
--- Indicates connection used in some versions.

★ Indicates connection not used in some versions.

Measurements taken with switching in position shown unless otherwise indicated.

- Measured with switching in "OFF" position
- Measured with switching in "500" position
- ▲ Measured with switching in "100" position
- ▼ Measured with switching in "100" position

Resistors are 1/2W or 1/4W, 10% or 20% tolerance unless otherwise indicated. Supply voltage maintained at rated value for measurements. Voltage and resistance measured with VTVM or equivalent meter. Arrow on control indicates direction of change. Numbers assigned to terminals may not be found on the unit. Transistor resistances vary widely. No resistance measurements taken.



500K Selector
Shown in "TAP"
Position
Switching Sequence:
1. AM
2. FM
3. 600
4. 1000
5. PSB

SEARS MODEL 132.22800001

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with CIRCUTACE
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PARTS LIST AND DESCRIPTION

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

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA					
			MFGR. PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	RCA PART No.	SYLVANIA PART No.
Q1	2SC535(B)	FM RF Amp	2498456-2	GE-20	TR-21	HEP56	SK3018	ECG 107
Q2	2SC461(B)	FM Conv.	2498507-2	GE-20	TR-22	HEP53	SK3018	ECG 108
Q3	2SC535(B)	PSB RF Amp	2498456-2	GE-20	TR-21	HEP56	SK3018	ECG 107
Q4	2SC461(B)	PSB Conv.	2498507-2	GE-20	TR-22	HEP53	SK3018	ECG 108
Q5	2SA350(A)	SW Mixer, FM-PSB 1st IF Amp	2495080	GE-9	TR-17	HEP639	SK3006	ECG 126
Q6	2SA350(A)	SW Osc.	2495080	GE-9	TR-17	HEP639	SK3006	ECG 126
Q7	2SC460(B) (2SA29-3)	1st AM-2nd FM IF Amp		GE-20	TR-21	HEP53	SK3018	ECG 107
Q8	2SA350(A)	3rd FM IF Amp	2495080	GE-9	TR-17	HEP639	SK3006	ECG 126
Q9	8-0060	2nd AM IF Amp		GE-9	TR-17	HEP639	SK3006	ECG 126
Q10		DC Amp	2499950	GE-18	TR-25	HEP737	SK3020	ECG 123
Q11	2SB54	AF Amp	2495388	GE-2	TR-14	HEP633	SK3004	ECG 102A
Q12	2SB54	AF Amp	2495388	GE-2	TR-14	HEP633	SK3004	ECG 102A
Q13	2SB54	Driver	2495388	GE-2	TR-14	HEP633	SK3004	ECG 102A
Q14	2SB415	Output	2497888	GE-53	TR-14	HEP238	SK3004	ECG 158
Q15	2SB415	Output	2497888	GE-53	TR-14	HEP238	SK3004	ECG 158
Q16		Squelch	2499950	GE-18	TR-25	HEP737	SK3020	ECG 123

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT DATA				NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	RCA PART No.	SYLVANIA PART No.	
X1	1S1941	GE-504A	8D4 or 5A4D	SK3030 or SK3031	ECG 116 or ECG 117	(1) Matched Pair
X2	1S1941	GE-504A	8D4 or 5A4D	SK3030 or SK3031	ECG 116 or ECG 117	
X3	1S1658					
X4	1S1658					
X5	1N60	1N60	1N60	SK3088	ECG 109	
X6	1S73	1N34A	1N34A	SK3087	ECG 109	
X7	1N60	1N60	1N60	SK3088	ECG 109	
X8	1N60	1N60	1N60	SK3088	ECG 110 (1)	
X9	1N60	1N60	1N60	SK3088		
X10	1N60	1N60	1N60	SK3088	ECG 109	
X11	S3004					
X12	S3004					
X13	S3004					
X14	S3004					
X15	S3004					

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
			PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	1000	10V	2495416-23	PRS1180	EA15-1000	WBR1000-16	QT1-32	TC1210A	TL-1142
C2	1000	10V	2495416-23	PRS1180	EA15-1000	WBR1000-16	QT1-32	TC1210A	TL-1142
C3	1000	10V	2495416-23	PRS1180	EA15-1000	WBR1000-16	QT1-32	TC1210A	TL-1142
C4	600	6V	2495416-22	PRS1180	EA15-1000	WBR1000-16	QT1-32	TC1210A	TL-1142
C5	200	6V	2495416-200	MCD-210	EA6-250	WBR250-16	MT1-23	MTV200DB10	TE-1104
C6	1000	10V	2495416-23	PRS1180	EA15-1000	WBR1000-16	QT1-32	TC1210A	TL-1142
C7	.47	6V	2495416-3	MCD-10		WBR1-50		MTV1CB50	TE-1080
C8	10	6V	2495416-12	MCD-70	EP6-10	WBR10-25	MT1-5	MTV10CB50	TE-1087
C9	10	6V	2495416-12	MCD-70	EP6-10	WBR10-25	MT1-5	MTV10CB50	TE-1087
C10	2	10V	2495416-15	MCD-30	EP15-2	WBR2-50	MT1-1	MTV2CB50	TE-1121
C11	2	10V	2495416-15	MCD-30	EP15-2	WBR2-50	MT1-1	MTV2CB50	TE-1121
C12	5	6V	2495416-6	MCD-50	EP6-5	WBR5-50	MT1-3	MTV5CB50	TE-1084
C13	2	10V	2495416-15	MCD-30	EP15-2	WBR2-50	MT1-1	MTV2CB50	TE-1121
C14	10	6V	2495416-12	MCD-70	EP6-10	WBR10-25	MT1-5	MTV10CB50	TE-1087
C15	100	10V	2495416-103	MCD-180	EP15-100	WBR100-16	MT1-19	MTV100CB10	TE-1135
C16	30	6V	2495416-31	MCD-110	EP6-25	WBR35-50	MT1-13	MTV30CB25	TE-1132.1

PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C31		#2496483						
C32		#2498454						
C33	25		NPO-DI 25	DTZ-25			CN0425	10TCC-Q25
C34	27 N470							10TCT-Q27
C35	.002		GPD X5F202K	DM-202	GP2000	CCD-202	GP220	2SS-D20
C36	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C37	3		NPO-DI 3.0					10TCC-V30
C38	30		GPD P3X300K	TCZ-30		CCTO-300		10TCC-Q30
C39	22		NPO-DI 20	DTZ-20		CCTO-200	CN0420	10TCC-Q20
C40	4				NP020			10TCC-V39
C41	300		GPD X5F301K	DM-301	NP03P9			10TS-T30
C42	.02		TTP-02	CK-203	GP300	CCD-301	GP330	TG-S20
C43	15		NPO-DI 15	DTZ-15	MGP02	CCD-203	TA120	10TCC-Q15
C44	.01		TTP-01	CK-103	NP015	CCTO-150	CN0415	TG-S10
C45	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C46	5		NPO-DI 5.0		MGP01	CCD-103	TA110	10TCC-V50
C47	15		NPO-DI 15	DTZ-15	NP05			10TCC-Q15
C48	25		NPO-DI 25	DTZ-25	NP015	CCTO-150	CN0415	10TCC-Q25
C49	.002		GPD X5F202K	DM-202	GP2000	CCD-202	GP220	2SS-D20
C50	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C51	2.2		NPO-DI 2.2	DTZ-2R2	NP02P2		CN0522	10TCC-V22
C52	50		NPO-DI 50	DTZ-50	NP050	CCTO-510	CN0450	10TCC-Q50
C53	10		NPO-DI 10	DTZ-10	NP010	CCTO-100	CN0410	10TCC-Q10
C54	3.9				NP03P9			10TCC-V39
C55	300		GPD X5F301K	DM-301	GP300	CCD-301	GP330	10TS-T30
C56	500		GPD X5F501K	DM-501	GP500	CCD-501	GP350	10TS-T50
C57	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C58	7		NPO-DI 6.8	DTZ-6R8	NP06P8		CN0568	10TCC-V68
C59	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C60	60		GPD X5F560K	DD-560		CCD-560	GP456	10TS-Q56
C61	7		NPO-DI 6.8	DTZ-6R8	NP06P8		CN0568	10TCC-V68
C62	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C63	9		NPO-DI 8.2		NP08P2			10TCC-V82
C64		#2498500						
C65	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C66	.02							
C67	3		NPO-DI 3.0					10TCC-V30
C68		#2498500						
C69	300 5%			CPR300J	CD15FD301J03	DM-19-301J	SX330	MS-433
C70			NPO-DI 3.0					10TCC-V30
C71		#2498499						
C72	2.2		NPO-DI 2.2	DTZ-2R2	NP02P2		CN0522	10TCC-V22
C73	.0012 5%			CPR1200J		DM-19-122J	SX212	MS-212
C74	9		NPO-DI 8.2		NP08P2			10TCC-V82
C75	.0033 5%			CPR3300J	CD19FD332J03	DM-19-332J	SX233	279P3325VB3
C76	.005		TTP-005	CK-502	MGP005	CCD-502	TA250	TG-D50
C77	.005		TTP-005	CK-502	MGP005	CCD-502	TA250	TG-D50
C78	.05		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C79	3		NPO-DI 3.0					10TCC-V30
C80	2.2		NPO-DI 2.2	DTZ-2R2	NP02P2		CN0522	10TCC-V22
C81	.02		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C82	.02		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C83	.02		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C84	5		NPO-DI 5.0		NP05			10TCC-V50
C85	.002		GPD X5F202K	DM-202	GP2000	CCD-202	GP220	2SS-D20
C86	.002		GPD X5F202K	DM-202	GP2000	CCD-202	GP220	2SS-D20
C87	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C88	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C89	.02		TTP-02	CK-203	MGP02	CCD-203	TA120	TG-S20
C90	5		NPO-DI 5.0		NP05			10TCC-V50
C91	.04			DD-403			GP140	
C92	.04			DD-403			GP140	
C93	.05		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C94	.05		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C95	.03		TTP-03	CK-303		CCD-303	GP130	TG-S30
C96	.03		TTP-03	CK-303		CCD-303	GP130	TG-S30
C97	.01		TTP-01	CK-103	MGP01	CCD-103	TA110	TG-S10
C98	.05		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C99	.05		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C100	.05		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C101	.05			CK-503	MGP05	CCD-503	TA150	TGL-S50
C102	.04			DD-403			GP140	
C103	.04			DD-403			GP140	
C104	.04			DD-403			GP140	
C105	.03		TTP-03	CK-303		CCD-303	GP130	TG-S30
C106	.04			DD-403			GP140	
C107	.04			DD-403			GP140	
C108	20			DD-403			GP140	

Sears Part Number

SEARS MODEL 132.22800001

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.	CTS—IRC PART No.	MALLORY PART No.
R1 R2 R3	Volume/Switch Tone Squelch	10K 50K 500K	2498497 2498498 2498453-2	TSV-500K(1) or T-500K(1)		X201R504B(1)	MTC55L1 (1)

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

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.
R68 R69	90 (CoId) 1 1/4W	FS819	2498511 (D91A) 2495108-010

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.
R70	1 1/4W		2495108-010

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	FM Antenna	2495984-2			
L2	FM RF	2495981			
L3	FM IF Trap	2495053			
L4	FM Osc.	2498505			
L5	FM Input IF	2498348-1	16-9030 (1)	2070 (1)	
L6	PSB Antenna	2495984-2			
L7	PSB RF	2495981			
L8	PSB IF Trap	24955053			
L9	PSB Osc.	2498506			
L10	PSB Input IF	2498348-1	16-9030 (1)	2070 (1)	
L11	AM-MB Loopstick	2498503			
L12	SW Loopstick	2498504			
L13	AM Osc.	2496196			
L14	MB Osc.	2498501			
L15	SW Osc.	2498502			
L16	FM Interstage IF	2498348-2	16-9031	2071	
L17	AM Input IF	2495910	16-9026	8517	
L18	FM Interstage IF	2498348-3	16-9032	2072	
L19	AM Interstage IF	2495485-1	16-9027	2067	
L20	Ratio Detector (Pri)	2495484-4			
L21	Ratio Detector (Sec)	2495484-5			
L22	AM Output IF	2495485-3	16-9028	2068	

(1) Clip Pin 5.

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC @ .035AAC	10.6VAC CT @ .15ADC	2498521				

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.	STANCOR PART No.	THORDARSON PART No.	TRIAD Part No.	
T2	3.2	1CT		2498522				

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T3	128	8	2498523				

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SP1	5" x 7" PM 8 ohms	2498516	57C3Z8	

BATTERIES

ITEM No.	VOLTAGE	MFGR. PART No.	EVEREADY PART No.	NOTES
M1	6V		1050 or E95	4 Required

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M2	Meter	2498033	Tuning - Battery
S1	Switch	2498518	Selector
S2	Switch	2485220	AC - Battery
S3	Switch	2485220	Squelch
S4	Switch	2485220	AFC
S5	Switch		Battery Test
S6	Switch		Dial
	Antenna	2498517	Telescopic

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PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM	PART No.	ITEM	PART No.
Cabinet - Top	2498175-2	Knob - Controls	2498223
Cabinet - Bottom	2498176-1	Knob - Selector	2499116

ACCESSORIES

ITEM	MFGR. PART No.	REMARKS
Earphone	2497498	

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
	8524 (Stranded) Available in 12 Colors
Power Cord	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) - 6 Feet
	17109 (Plastic) or 17129 (Rubber) - 9 Feet
Low-loss Shielded Lead (Interconnecting)	Use BELDEN No. 8401 or 8421

DIAL CORD STRINGING—FRONT VIEW

