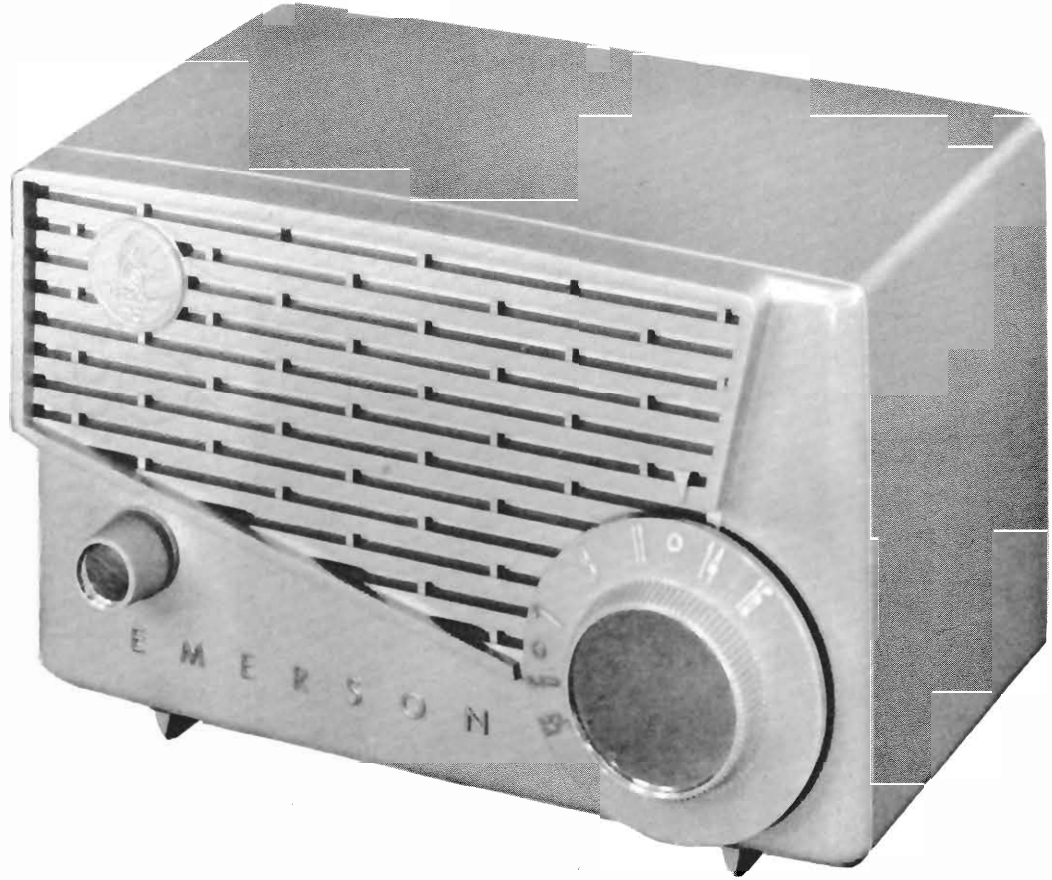


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EMERSON MODELS 851B, 852B, 853B
(Ch. 120327B, 120334B, 120335B)

EMERSON MODELS 851B, 852B, 853B
(Ch. 120327B, 120334B, 120335B)



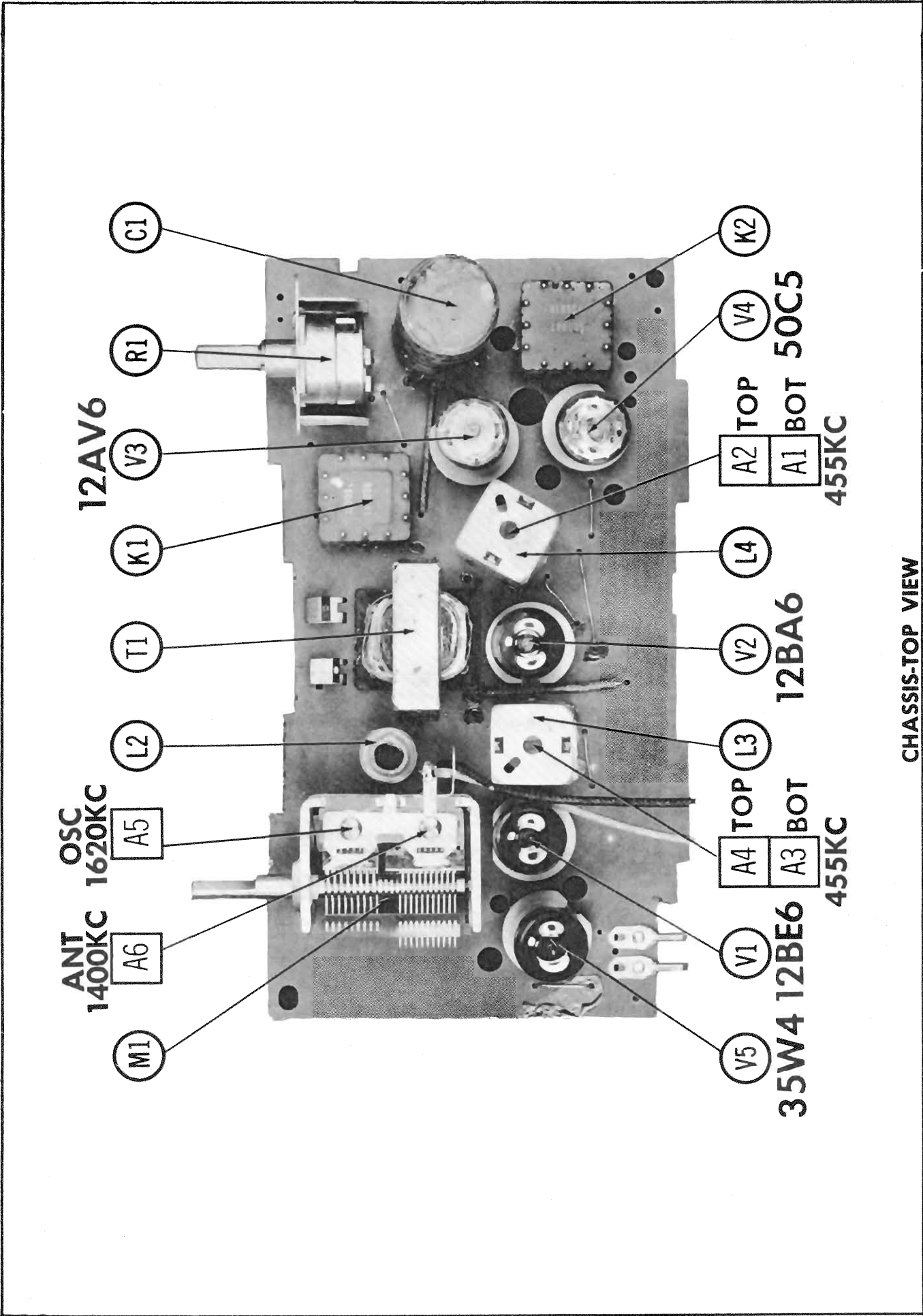
EMERSON MODELS 851B, 852B, 853B
(Ch. 120327B, 120334B, 120335B)

TRADE NAME	Emerson Models 851B (Ch. 120327B), 852B (Ch. 120334B), 853B (Ch. 120335B)					
MANUFACTURER	Emerson Radio & Phono Corp., 14th. & Coles Sts., Jersey City 2, N. J.					
TYPE SET	AC-DC Operated AM Receiver					
TUBES (Five)	Types 12BE6 Converter, 12BA6 IF Amplifier, 12AV6 (or) 12AT6 Det. -AVC-AF Amp., 50C5 Output, 35W4 Rectifier					
POWER SUPPLY	105-125 Volts AC-DC		RATING .28 Amp. @ 117 Volts AC (27 Watts)			
TUNING RANGE—BROADCAST	540 - 1620KC					
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT						
Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.						
Loop should be maintained in the same relative position to chassis as when the receiver is in cabinet.						
Use isolation transformer, if available. If not, connect a .1MFD capacitor in series with low side of signal generator and B-.						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.005MFD	High side to pin 7 (grid) of 12BE6 (V1). Low side to B-.	455KC (400v Mod)	Tuning gang fully open	Across voice coil	A1, A2, A3, A4	Adjust for maximum output. If isolation transformer is not used, reduce dummy antenna to .001MFD to reduce hum modulation.
2	Loop	1620KC	"	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
3	"	1400KC	Tune to 1400KC signal	"	A6	"

HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of H110

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CHASSIS-TOP VIEW

PARTS LIST AND DESCRIPTIONS
TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES
V1	Converter	12BE6	Note 1
V2	IF Amplifier	12BA6	
V3	Det.-AVC-AF Amp.	12AV6	

Note 1. Some versions may use Type 12AT6.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		EMERSON PART No.	AEROVOX PART No.	CORNELL DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	50 150	925-402 ①	PRS150V3050	BRD5315	TCD497	
C1B	30 150					TV-A-2450

① Alternate Part #823378 or 925372.

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA				
		EMERSON PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.
R1	500K 1/2	390448				

INSTALLATION NOTES
Volume & Switch

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	REPLACEMENT DATA				
		EMERSON PART No.	Halliderson PART No.	Meritt PART No.	Stancor PART No.	Thoradson PART No.
T1	23000 3-40	734138 ① 734102 ② 734103 ③	Z1101 ③	A-3025 ④ A-3332 ⑤ A-3332 ⑥	24553 ③	S-12X ④ S-12X ⑤ S-12X ⑥

NOTES
① Used in Model 851B
② Used in Model 852B
③ Used in Model 853B
④ Bend ears down.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		EMERSON PART No.	QUAM PART No.	
SPI	4" PM 3-40	180149 ① 180152 ②	4A07	① Used in Model 851B ② One used in Model 852B & Two used in Model 853B.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			NOTES
		EMERSON PART No.	MEISSNER PART No.	MERIT PART No.	
L1	Loop Antenna	700116			Includes Cabinet Back, Model 851B Includes Cabinet Back, Model 852B Includes Cabinet Back, Model 853B
L2	Loop Antenna	700119			
L3	Loop Antenna	700121			
L4	Output IF	720259	16-6780 16-6780	BC-356 BC-357	

PARTS LIST AND DESCRIPTIONS (Continued)
COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	EMERSON PART No.	REPLACEMENT DATA
K1	RF Module	4700MMF, 330MMF, 4700MMF, 330MMF, 22K, 1200, 2.2Meg, 8.2Meg.	750011 ①	
K2	Audio Module	4700MMF, 2200MMF, 4700MMF, 470K, 470K, 1500, 12000 1W.	750010	

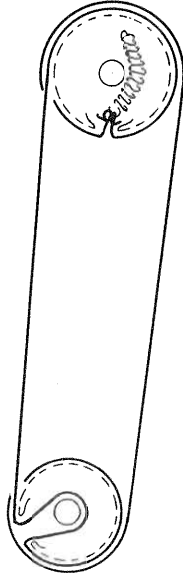
① Some versions may use Part #750009.

MISCELLANEOUS

ITEM No.	PART NAME	EMERSON PART No.	NOTES
M1	Tuning Cap	900153	2 Gang, Chassis 120327B
	Tuning Cap	900161	2 Gang, Chassis 120334B
	Tuning Cap	900158	2 Gang, Chassis 120335B

CABINETS & CABINET PARTS
(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART No.	DESCRIPTION
Cabinet	851B	Model 851B (Specify Color)
Cabinet	852B	Model 852B (Specify Color)
Cabinet	853B	Model 853B (Specify Color)
Knob	460770	Tuning, Model 851B (Specify Color)
Knob	460773	On-Off-Volume, Model 851B (Specify Color)
Knob	460802	On-Off-Volume, Tuning, Model 852B
Dial	460795	On-Off-Volume, Tuning, Model 853B (Specify Color)
Dial	460798	Model 853B



TUNING GANG FULLY CLOSED