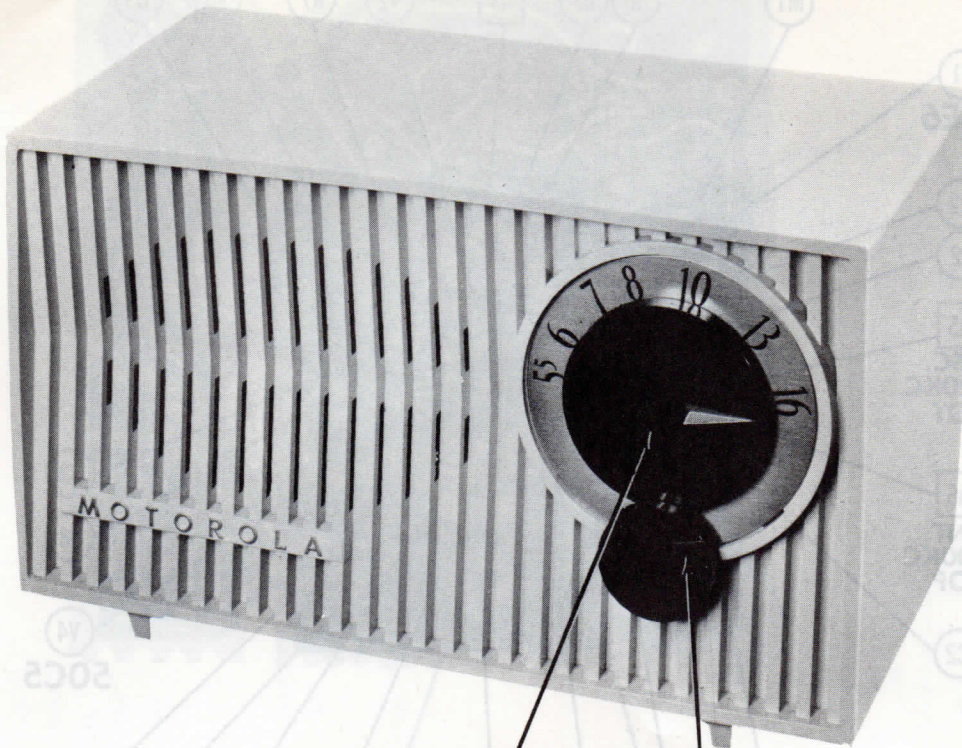




MOTOROLA MODELS 53R1, U, 53R2, U, 53R3, U, 53R4, U, 53R5, U, 53R6, U (Ch. HS-384, HS-426)



TUNING CONTROL

VOLUME CONTROL ON-OFF SWITCH

MOTOROLA MODELS 53R1, U, 53R2, U, 53R3, U, 53R4, U, 53R5, U, 53R6, U (Ch. HS-384, HS-426)

TRADE NAME	Motorola Models 53R1, 2, 3, 4, 5, 6 (Ch. HS-384), 53R1U, 2U, 3U, 4U, 5U, 6U (Ch. HS-426)		
MANUFACTURER	Motorola, Inc., 4545 Augusta Blvd., Chicago 51, Ill.		
TYPE SET	AC-DC Operated AM Superheterodyne Receiver		
TUBES (Five)	Types 12BE6 Conv., 12BA6 IF Amp., 12AT6 Det.-AVC-AF Amp., 50C5 Audio Output, 35W4 Rectifier		
POWER SUPPLY	110-120 Volts AC-DC	RATING	.23 Amp. @ 117 Volts AC
TUNING RANGE—BROADCAST	535-1620KC		

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use isolation transformer, if available. If not, connect a .1MFDC capacitor in series with low side of signal generator and B-. 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 same relative position to chassis as when receiver is in cabinet.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1. .1MFDC	High side to pin 7 (grid) of 12BE6 (V1). Low side to B-.	455KC (400%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 .001MFDC to reduce hum modulation.
2. "	"	1620KC	"	"	A5	"
3. "	Loop	1400KC	Tune for maximum signal	"	A6	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.

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

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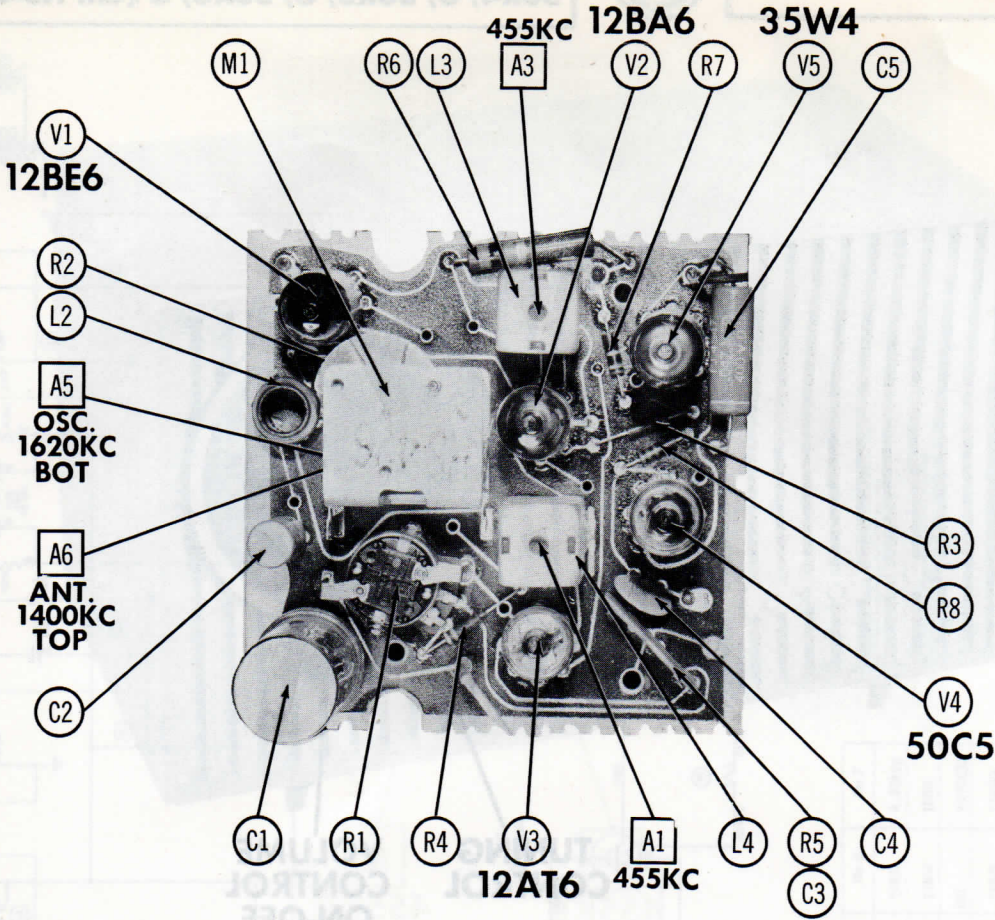
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PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA, GENERAL ELECTRIC, WESTINGHOUSE)

MOTOROLA
MODEL 53R1, (Ch. HS-426)

CHASSIS—TOP VIEW



ITEM No.	USE	REPLACEMENT DATA			NOTES
		MOTOROLA PART No.	STANDARD REPLACEMENT	RETMA BASE TYPE	
V1	Converter	12BE6	12BE6	7CH	
V2	IF Amplifier	12BA6	12BA6	7BK	
V3	Det.-AFC-AF Amp.	12AT6	12AT6	7BT	
V4	Audio Output	50C5	50C5	7CV	
V5	Rectifier	35W4	35W4	5BQ	

CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING CAP.	VOLT	REPLACEMENT DATA					NOTES				
			MOTOROLA PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.		MALLORY PART No.	SPRAGUE PART No.		
C1A	50	150	23B630155	A.FH2-15		B015						
C2	30	150	8R120842	P2889-05	DF-503	PJ255			FP213	PT415	TVL-2432	
C3A	.05	200	*21B630180	*PA-113-2	*PC-156	*11FTM2	*1408-02				2TM-65	
C3B	.220											*DT-2
C3C	5000											
C4	10000	400	21R120853	BPD-01	DD-103	K082	81L-01		DC-511	PT4147	5HK-S1	
C5	.047	400	8K490232	469ZK-047	DF-503	PJ4847					4TM-S47	

* Items C3A, C3B, C3C, C3E, R5A, R5B and R5C are combined in one unit.
 † When replacing items separately items C3D and C3E total 250MMMF.

CONTROLS

ITEM No.	RATING RESISTANCE	WATTS	REPLACEMENT DATA				INSTALLATION NOTES	
			MOTOROLA PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.		MALLORY PART No.
RIA	1 Meg	1/2	18A630184	QJ3-137	A47-1 Meg-Z	BSK-70-S	U-53	Volume Attach to RIA
B	Shunt		Not Req.	Not Req.	KSS-3	Not Req.	Not Req.	Attach to RIA
C	Switch		Not Req.	Not Req.	SWE-12	Not Req.	US-26	

RESISTORS

ITEM No.	RATING OHMS	WATT	REPLACEMENT DATA		NOTES
			MOTOROLA PART No.	IRC PART No.	
R2	22KΩ		6R6028	BTS-22K	
R3	100Ω		6R6016	BTS-100	
R4	3.3Meg		6R2116	BTS-3.3Meg	
R5A	6.8Meg		*21B630180	BTS-6.8Meg	
R5B	470KΩ			BTS-470K	
R5C	470KΩ			BTS-470K	

* Items R5A, R5B, R5C, R3A, R3B, C3C, C3D, C3E are combined in one unit.

