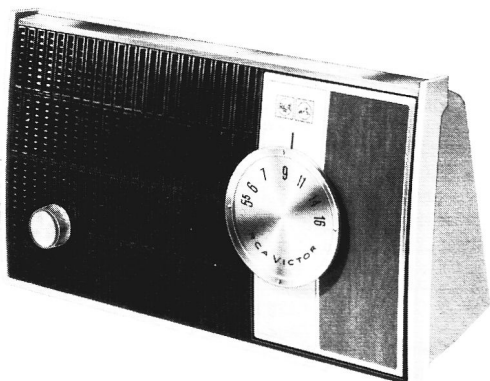




# RCA VICTOR



Model RA-9

## RADIO RECEIVER

# SERVICE DATA

## MODEL RA-9

### GENERAL INFORMATION

### ELECTRICAL SPECIFICATIONS

TUNING RANGE ..... 540-1620 kc  
 INTERMEDIATE FREQUENCY ..... 455 kc  
 TUBE COMPLEMENT  
 (1) RCA 12BE6 ..... Converter  
 (2) RCA 12BA6 ..... IF Amplifier  
 (3) RCA 12AV6 ..... Detector, AVC, & Audio Amp.  
 (4) RCA 50C5 ..... Power Output  
 (5) RCA 35W4 ..... Rectifier

POWER SUPPLY RATING  
 110-120 volts, 50-60 cycles ..... 30 watts  
 AUDIO POWER OUTPUT  
 Undistorted ..... 1.0 watts  
 Maximum ..... 1.3 watts  
 LOUDSPEAKER  
 Size and Type ..... 4" PM  
 Voice coil impedance ..... 3.2 ohms

### REPLACEMENT PARTS LIST

Insist on Genuine Factory Tested Parts, which are readily identified and may be purchased from Authorized Dealers.

SYMBOL	STOCK NO.	DESCRIPTION	SYMBOL	STOCK NO.	DESCRIPTION
CHASSIS ASSEMBLY			MISCELLANEOUS ASSEMBLY		
C-1A, C-1B	*63-29837	Capacitor-Variable Tuning	*63-29857		Bushing-Felt (For Tuning Knob)
C-4	63-103440	Capacitor-Ceramic 5.6 mmfd. 500 volts	*63-29925		Cabinet-Complete Black/White
C-11A, C-11B	63-24464	Capacitor-Electrolytic 50/30 mfd. 150 volts	*63-29926		Cabinet-Complete Espresso/White
L-1	63-28049	Coil-Ferrite Antenna	*63-29927		Cabinet-Complete White
L-2	63-28050	Coil-Oscillator Coil	63-28109		Clip-Speaker Mtg.
PC-1	63-22915	Plate-Printed Circuit Consists of: C-6, C-7, C-8, C-9, R-8, R-9, R-10	63-28110		Clip-Circuit Board
PW-1	*63-29827	Board-Printed Board Assembled Less Tubes	63-24774		Connector-Interlock
PW-1	63-27364	Board-Printed Board Stripped	63-23219		Cord-Power
R-5	71-502533	Resistor-3.3 megohms 1/2 watt	*63-29852		Insert-Dial
R-6	63-28054	Control-Volume/On/Off	*88-2569		Instructions-Customer's Instruction Book
S-1		Switch-Part of Volume Control	63-111243		Knob-Volume
T-1	63-24467	Transformer-1st IF Transformer	*63-29851		Knob-Tuning
T-2	63-22922	Transformer-2nd IF Transformer	63-27716		Shield-Heat Shield (For Electrolytic Cap.)
T-3	63-25651	Transformer-Audio Output	63-28084		Shield-Heat Shield
			63-24461		Socket-Tube 35W5
			63-24551		Socket-Tube 50C5
			63-24462		Socket-Tube 12BE6, 12BA6, 12AV6
			63-24786		Speaker-4" PM 3.2 ohms
			63-26066		Spring-Tuning Knob

\* Indicates New Stock Items. Only items listed under stock numbers are available as Replacement Parts.  
 All parts subject to change or withdrawal without notice.

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 RCA VICTOR COMPANY, LTD.  
 MONTREAL, CANADA

ALIGNMENT PROCEDURE

1. For all alignment operations connect low side of signal generator to common negative.
2. Connect output indicator to voice coil terminals of loudspeaker.
3. Set volume control to maximum.
4. Keep generator output as low as possible to avoid AVC action.

DESCRIPTION

The Model RA-9 is a 5 tube (including rectifier) table model radio. It is designed to operate on a 100-120 volt AC or DC power supply and to cover the standard AM broadcast band, 540-1620 kc.

The chassis utilizes superhetrodyne circuitry consisting of a pentagrid converter stage, an IF amplifier stage, a detector and AVC stage, an AF stage and a power output stage; they are powered through a vacuum tube rectifier. All components are mounted on one side of a "Security Sealed" wiring board with their leads extending through the board and dip soldered to the printed wiring on the opposite side.

Step	Connect high side of signal gen. to—	Set signal gen. to—	Turn radio dial to—	Adjust—for peak output
1	Pin #1 of V2 through .01 mf capacitor	455 kc (Modulated)	Quite point near 1600 kc	T2 (2nd I-F trans.), top and bottom cores
2	Pin #7 of V1 through .01 mf capacitor			T1 (1st I-F trans.), top and bottom cores
3	Repeat steps 1 and 2			
4	Short wire placed near antenna to radiate signal	1620 kc (Modulated)	Gang fully open	C1-B-T (ocs. trimmer)
5		1500 kc (Modulated)	1500 kc	C1-A-T (Ant. trimmer)
6		600 kc (Modulated)	600 kc (rock gang)	L-2 (osc. coil)
7	Repeat steps 3, 4 and 5			

