



RCA Victor

MODEL BP-10, BP-10A PERSONAL RADIO

Four-Tube, Single-Band, Battery-Operated, Superheterodyne Receiver

TECHNICAL INFORMATION AND SERVICE DATA

SERVICE DIVISION • RCA VICTOR COMPANY LIMITED • MONTREAL

Electrical and Mechanical Specifications

FREQUENCY RANGE..... 540-1,600 kc

INTERMEDIATE FREQUENCY 455 kc

TUBE COMPLEMENT

- (1) Type-1R5..... 1st Det.—Osc.
- (2) Type-1T4..... I-F Amplifier
- (3) Type-1S5..... 2nd Det., A-F, and A.V.C.
- (4) Type-1S4..... Power Output

POWER SUPPLY

Type Battery	Current Consumption
"A"—1.5 volt Eveready No. 950	0.25 amperes
"B"—67.5 volts Eveready No. 467	8.5 milliamperes

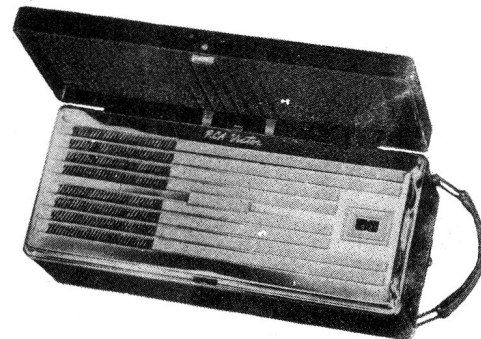
POWER OUTPUT

Undistorted..... 0.05 watts
Maximum..... 0.12 watts

LOUDSPEAKER

Type..... 3-inch permanent-magnet dynamic
V.C. Impedance..... 3 ohms at 400 cycles

	Height	Width	Depth
Cabinet Dimensions (inches).....	3	8 $\frac{1}{2}$	3 $\frac{1}{2}$
Weight.....	3 $\frac{1}{2}$ lbs. (net)	4 $\frac{1}{2}$ lbs. (shipping)	
Tuning Drive Ratio.....			1 to 1



REPLACEMENT PARTS FOR MODELS BP-10 and BP-10A

Insist on genuine factory tested parts, which are readily identified and may be purchased from authorized dealers.

STOCK NO.	DESCRIPTION	STOCK NO.	DESCRIPTION
RECEIVER ASSEMBLIES			
36717	Capacitor 20 mmfd.....	36069	Socket-1T4 Tube Socket.....
36715	Capacitor 50 mmfd.....	36498	Transformer-1st I.F. Transformer...
36716	Capacitor 100 mmfd.....	36499	Transformer-2nd I.F. Transformer...
12488	Capacitor 270 mmfd.....		
36163	Capacitor .001 mfd.....	SPEAKER ASSEMBLIES	
33584	Capacitor .005 mfd.....	39467	Cone-Speaker Cone.....
36248	Capacitor .02 mfd.....	36504	Speaker-complete (less output transformer).....
32787	Capacitor .05 mfd.....	36505	Transformer-Output.....
36718	Capacitor Electrolytic-10 mfd.....		
36496	Condenser-Variable tuning condenser.....	MISCELLANEOUS ASSEMBLIES	
36497	Coil-Oscillator coil.....	36507	Bottom-Receiver Case bottom cover..
36495	Control-Volume Control.....	37156	Catch-Case back cover catch and rivets.....
36606	Core-Adjustable core and stud for osc. coil.....	38205	Catch-Case front cover catch and rivets.....
36503	Holder-Battery holder complete....	36508	Centre-Receiver case centre strip..
36501	Knob-Tuning disc.....	37179	Clip - B + Battery clip.....
36502	Knob-Volume knob.....	37180	Clip - B - Battery clip.....
30158	Resistor-820 ohms.....	38207	Connector One set (2) loop contact connectors.....
36714	Resistor-15,000 ohms.....	36509	Handle-Carrying handle and bracket.
30787	Resistor-47,000 ohms.....	38206	Hinge-Case front cover hinge and rivets.....
3252	Resistor-100,000 ohms.....	#38212	Lid-Lid only.....
30652	Resistor- 1.0 megohm.....	38204	Loop-Antenna loop and loop cover...
31417	Resistor-3.3 megohm.....	37854	Panel-Chrome panel complete.....
30931	Resistor- 4.7 megohm.....	37857	Pin-Hinge pin and spring.....
30992	Resistor-10. megohm.....	S-3063	Rivet-Hinge rivets (Pkg.25).....
36500	Socket-Tube Socket.....	36506	Switch-Power switch.....
S-3041	Socket-Cushion socket assembly....		<u>Assemblies Peculiar to BP10-A</u>
	# Includes section of hinges, hinge pins, springs and (lid support pkg.sep.)	37811	Support - Lid support.....

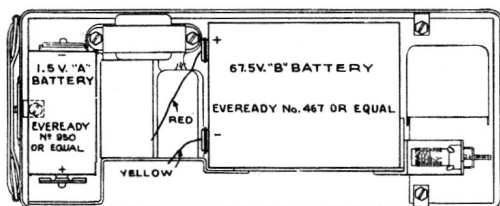
REPLACEMENT PARTS PECULIAR TO MODEL BP-10A

STOCK NO.	DESCRIPTION	LIST PRICE
S-3068	Lid-Lid only with lid support.....	\$4.45
37835	Lid-Lid and antenna with antenna cover and lid support	6.75
37854	Panel-Control Panel.....	1.45

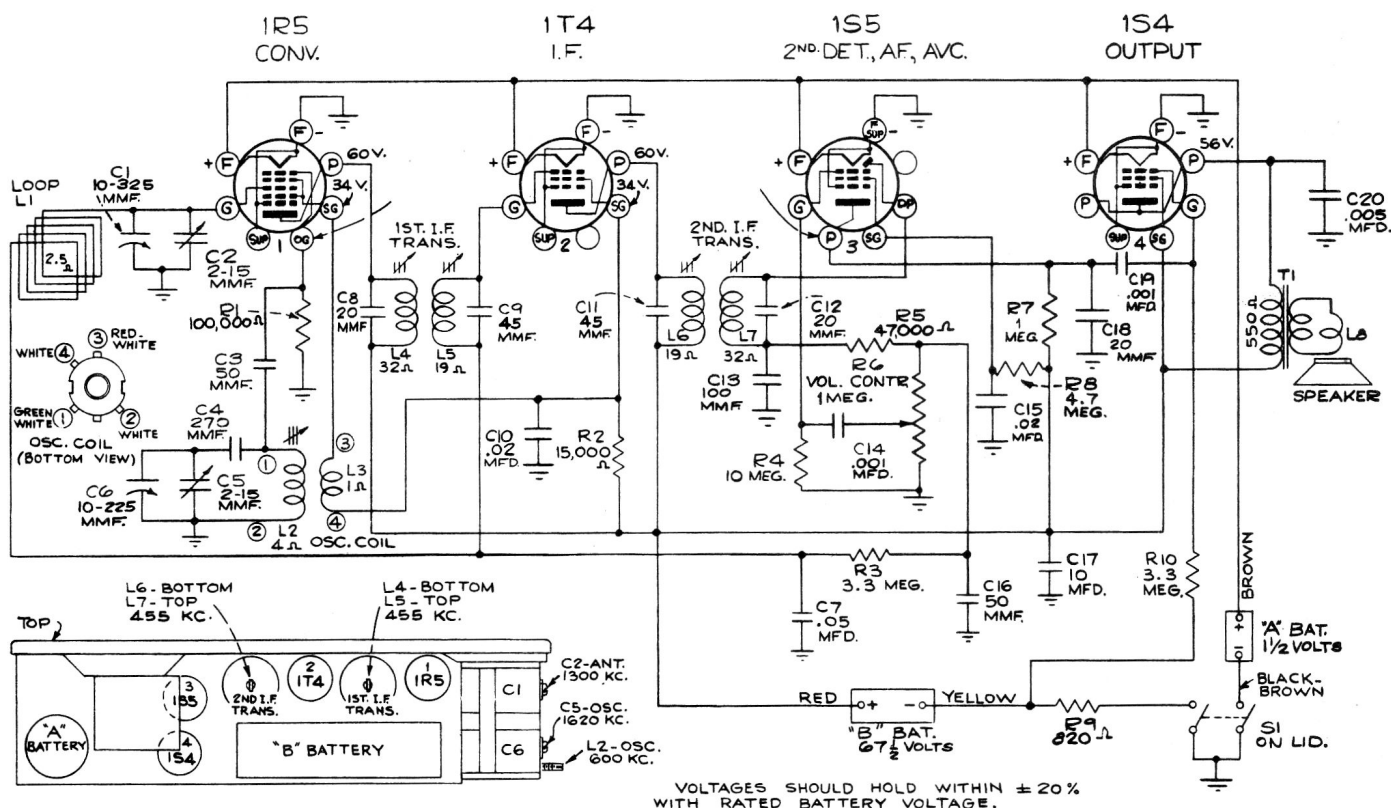
Alignment Procedure

Output Meter Alignment.—If this method is used, connect the meter across the voice coil, and turn the receiver volume control to maximum.

Test-Oscillator.—For all alignment operations, keep the output as low as possible to avoid a-v-c action.



Steps	Connect the high side of test-osc. to—	Tune test-osc. to—	Turn radio dial to—	Adjust the following for max. peak output—
1	Tuning condenser stator (ant.) in series with .01 mfd.	455 kc	Quiet point at 1,600 kc end of dial	L7, L6, L5, L4 (2nd and 1st I-F transformers)
2	Radiated signal 1,620 kc	1,620 kc	Full clockwise (out of mesh)	C5 (oscillator)
3	Radiated signal 1,300 kc	1,300 kc	1,300 kc	C2 (antenna)
4	Radiated signal 600 kc	600 kc	600 kc	L2 (osc.)
5	Repeat steps 2, 3 and 4.			

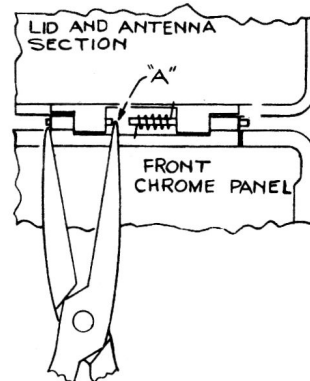


Model BP-10 Schematic Diagram

Installation instructions for lid or control Panel

First remove the three self-tapping screws that hold the chassis in the centre case, and remove the case. Unsolder the leads from the loop lugs.

- With lid closed, cut hinge pins at point "A" with sharp cutters.
- Start removal of pin sections as shown, using long-nose pliers.
- Grasp end of pin section with long-nose pliers and pull out of hinge.
- Install new lid, or new front panel, using replacement hinge pins and springs. Arrange springs as shown. Apply a small amount of cement near outer end of each pin to insure tight and permanent fit.



Replacing Lid or Control Panel