



RCA Victor

MODEL BP-10A PERSONAL RADIO

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

TECHNICAL INFORMATION AND SERVICE DATA

— 1945 No. 5 —

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

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

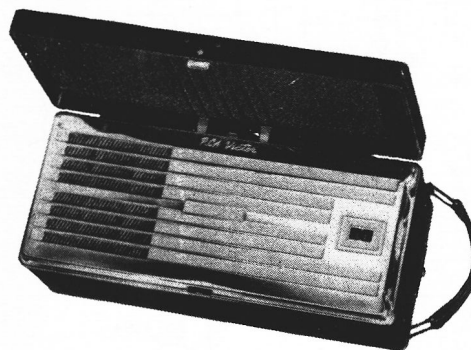
POWER OUTPUT

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 MODEL BP-10A

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

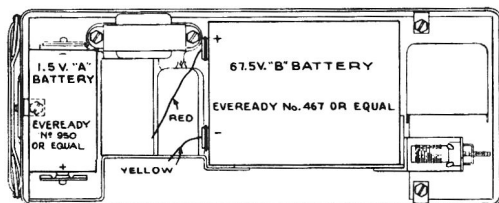
STOCK NO.	DESCRIPTION	LIST PRICE	STOCK NO.	DESCRIPTION	LIST PRICE
RECEIVER ASSEMBLIES			36498	Transformer-1st I.F.(L4,L5,C8,C9)..	
36717	Capacitor-20 mmfd.Temp.Comp.(C18).		36499	Transformer-2nd I.F.(L6,L7,C11,C12)	
36715	Capacitor-50 mmfd. " " (C3,C16)		SPEAKER ASSEMBLIES		
36716	Capacitor-100 " " " (C13).		39467	Cone-Speaker cone.....	
12488	Capacitor-270 " " " (C4)..		36504	3" P.M.Speaker,less output trans- former.....	
36163	Capacitor-.001 mfd. (C14,C19).....		36505	Transformer-Output T-1.....	
33584	Capacitor-.005 " (C20).....		MISCELLANEOUS ASSEMBLIES		
36248	Capacitor-.02 " (C10-C15).....		38204	Antenna-Loop antenna and cover.....	
32787	Capacitor-.05 " (C7).....		36507	Bottom-Receiver case bottom.....	
36718	Capacitor-Electrolytic 10 mfd.(C17)		36508	Centre-Receiver centre strip.....	
36496	Condenser-Variable tuning(C1,C6)..		37179	Clip-"B" Battery Clip.....	
36497	Coil-Oscillator (L2,L3).....		37180	Clip-"B" " ".....	
36495	Control-Volume control (R6).....		38207	Connector-Loop contact	
36606	Core-Adjustable core and stud,Osc. coil		36509	Handle-Carrying handle and bracket.	
36503	Holder-Battery holder complete....		37857	Hinge pins and hinge springs(1 set)	
36501	Knob-Tuning disc		37156	Latch-Bottom latch and rivets.....	
36502	Knob-Volume knob.....		38205	Latch-Top Latch and rivets.....	
30158	Resistor-820 ohms - 1/4 watt (R9).		37835	Lid and antenna with antenna cover and lid support.....	
36714	Resistor-15,000 ohms-1/4 " (R2).		S-3068	Lid-Lid only with lid support.....	
14983	Resistor-47,000 " -1/4 " (R5).		37854	Panel-Control panel.....	
3252	Resistor-100,000 " -1/4 " (R1).		S-3063	Rivet-Hinge rivet (Pkg.25).....	
30652	Resistor-1 Megohm -1/4 " (R7).		37811	Support-lid support	
31417	Resistor-3.3 " -1/4 "(R3-R10)				
30931	Resistor-4.7 " -1/4 " (R8).				
30992	Resistor-10. " -1/4 " (R4).				
36500	Socket-Tube socket.....				
S-3041	Socket-Cushion tube socket.....				
36069	Socket-IT4-Shield tube socket.....				
36506	Switch-Power Switch.....				

All prices and parts are subject to change or withdrawal without notice.

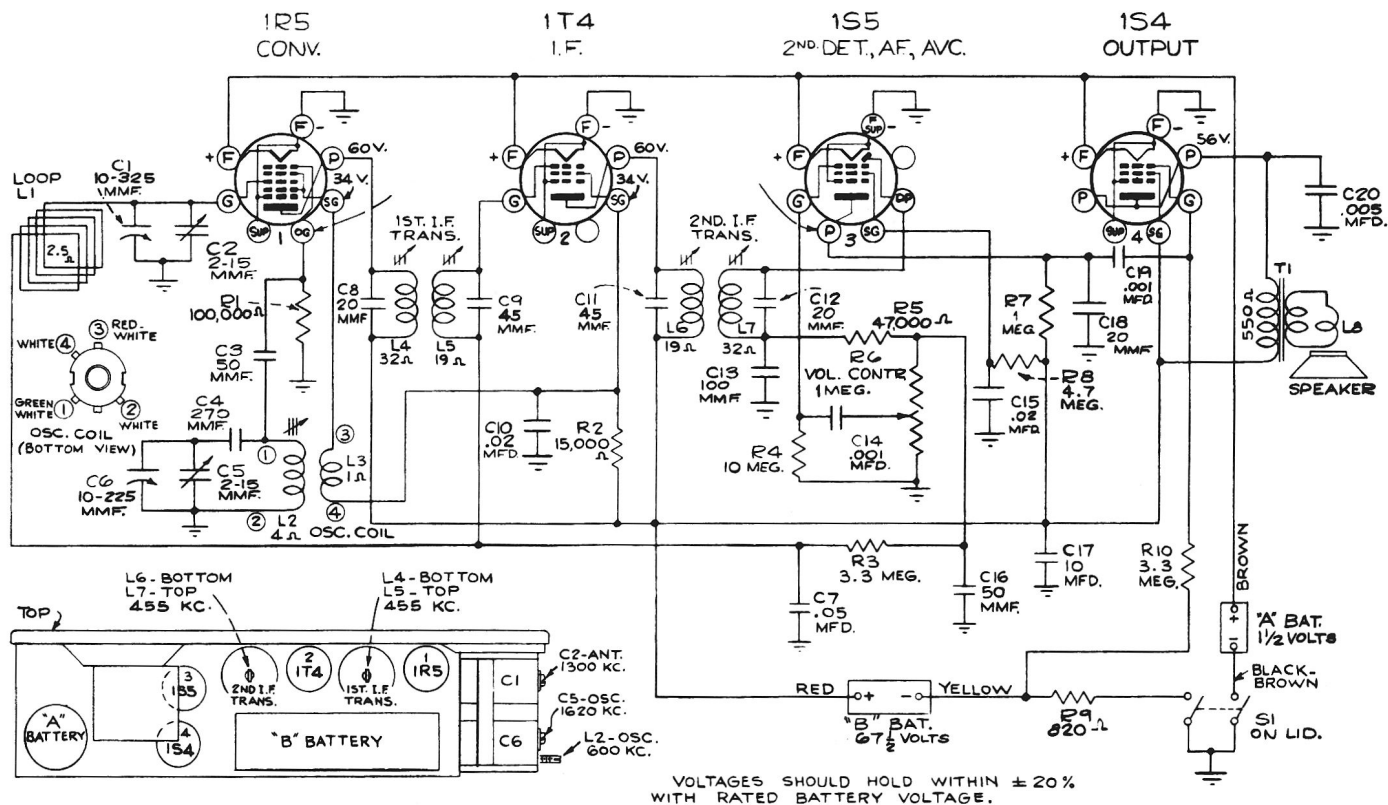
Alignment Procedure

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.			

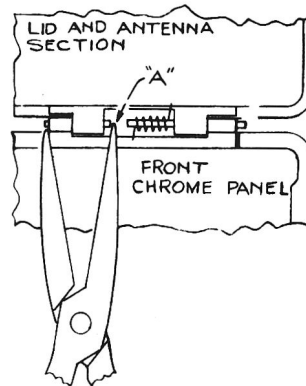


Model BP-10 Schematic Diagram

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