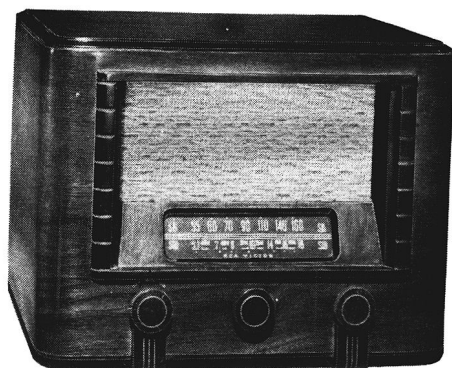




MODEL BT46



RCA VICTOR



BATTERY RECEIVER

MODEL BT46

SERVICE DATA

—1949 No. 10—

GENERAL SERVICE DIVISION
RCA VICTOR COMPANY LIMITED
MONTREAL, QUE.

Electrical and Mechanical Specifications

FREQUENCY RANGES

"Standard Broadcast" 540 kcs. to 1600 kcs.

"Short Wave" 5.7 mcs. to 18 mcs.

Intermediate Frequency 455 kcs.

RADIOTRON COMPLEMENT

(1) Type-1R5 First Detector—Oscillator

(2) Type-1T4 Intermediate Amplifier

(3) Type-1S5 Second-Detector, A.V.C.,
and A-F Amplifier

(4) Type-3Q4 Power Output

POWER OUTPUT RATING

Undistorted15 watts

Maximum35 watts

Batteries Required

OR "A"—one 1.4 Volt Air Cell or 1.5 Dry Cell. "B"—two 45 Volt heavy duty "B" Batteries.

LOUDSPEAKER

Type 4" x 6" Elliptical P.M.

Voice-Coil Impedance 3.4 Ohms at 400 Cycles

CABINET DIMENSIONS

Height 9¼ inches

Width 12⅞ inches

Depth 8½ inches

CURRENT CONSUMPTION

"A" at 1.4 Volts 250 Ma.

"B" at 90 Volts 13 Ma.

REPLACEMENT PARTS FOR MODEL BT46

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
Chassis Assembly:			Chassis Assembly (Cont'd)		
32830	Capacitor - trimmer (dual) (C10A-C10B)			Resistor -3.3 " " " (R5-R9-R11)	
31353	" - 15MMF Ceramic (C1)			" -10 " " " (R3-R8)	
39628	" - 100 " Mica (C5)		S-5235	Switch - Range Switch (S1)	
12724	" - 120 " " (C22)		S-3533	Shaft - Drive shaft	
S-5237	" - 180 " " (C3)		36500	Socket - Tube socket	
12952	" - 330 " " (C6)		S-3526	Transformer - 1st I.F. (L7-L8-C12-C13)	
S-5238	" -3900 " " (C7)		S-3527	" 2nd I.F. (L10-L11-C16-C17-C18-C19)	
	" -.007 MFD Paper 500V. (C24)		S-3530	Volume control - 1 meg. (R7-S2)	
	" -.0025 " " 500 V. (C20-C23)		Speaker Assembly 4x6 P.M.		
	" -.05 " " 400 V. (C21-C11-C14-C15)		35849	Dust Cap (Pkg. 3)	
S-3221	" Electrolytic - 10 MFD. (C25)		S-3569	Cone - Cone & Voice coil ass'y (L14)	
S-5232	Condenser - Variable (C2-C4-C8-C9)		S-3531	Output Transformer (L12-L13)	
S-3695	Choke - Filament choks (L9)		Miscellaneous Assembly		
S-3528	Coil - Oscillator coil (SB)-L6)		S-4313	Cord - Drive cord	
S-5233	" " " (SW) (L5)		S-3534	Cable - Battery cable	
S-5234	" Antenna coil (L1-L2-L3-L4)		S-5236	Dial - Dial scale	
S-3532	Indicator - Station Selector pointer		35814	Knob	
	Resistor - 330 ohms - 1/4 watt (R12)		35775	"	
	" - 10,000 " - " " (R3)		12827	Plug "A" battery cable plug	
	" - 22,000 " - " " (R6)		S-2398	" "B" battery cable plug	
	" - 39,000 " - " " (R4)				
	" -100,000 " - " " (R2)				
	" -1 Megohm " - " " (R1-R10)				

All Prices and Parts are subject to change or withdrawal without notice.

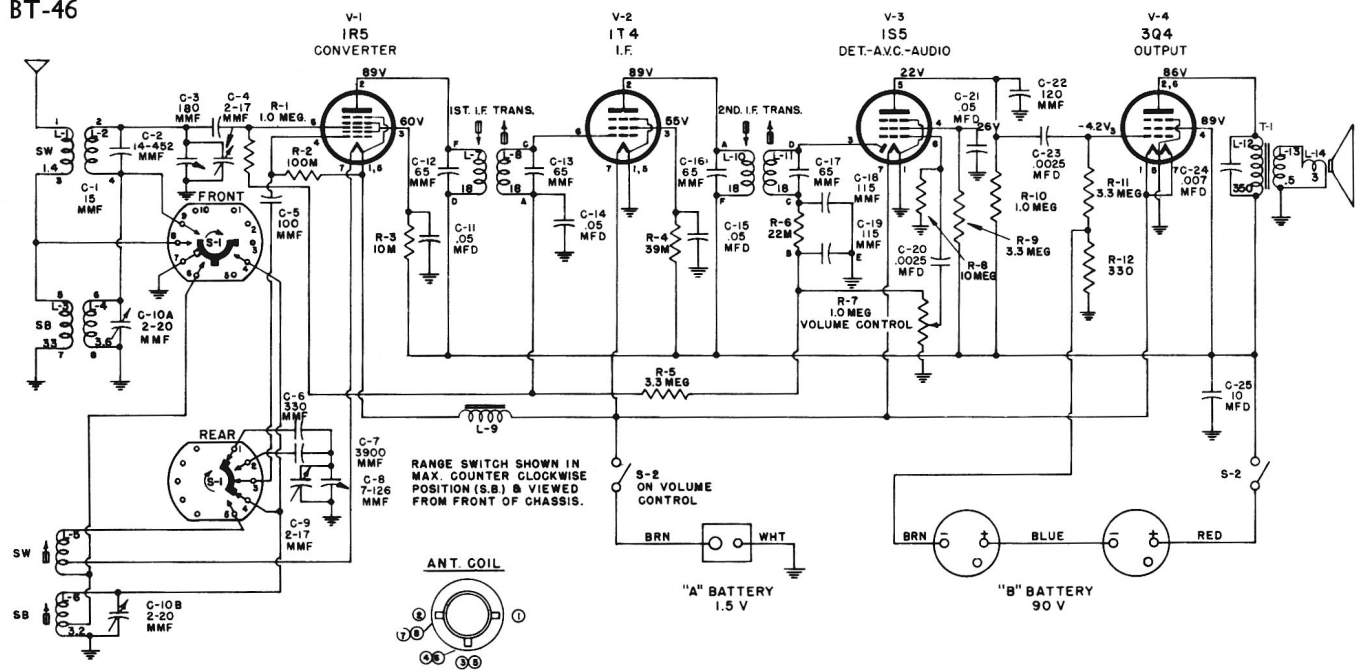


FIG. 1 SCHEMATIC DIAGRAM

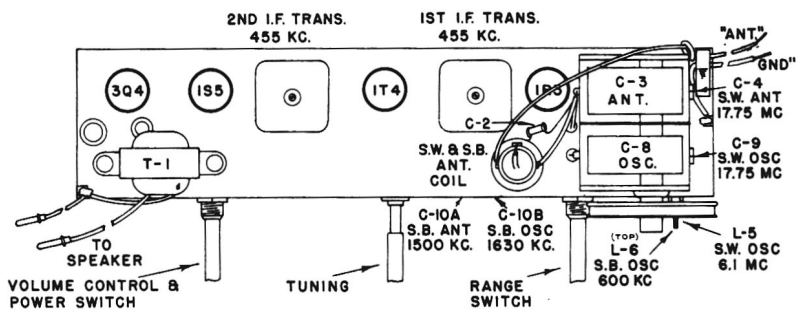


FIG. 2 CHASSIS LAYOUT & ALIGNMENT ADJUSTMENT

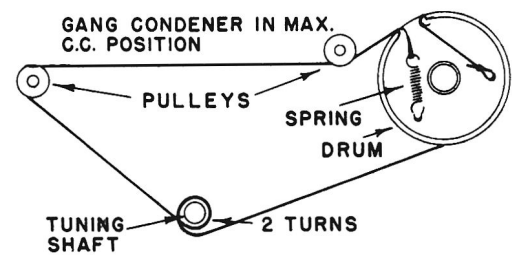


FIG. 3 DIAL CORD STRINGING

Alignment Procedure

Order of Alignment		TEST OSCILLATOR				RECEIVER				
		Connect "HI" Side to	Connect "LO" Side to	Dummy Antenna	Frequency Setting	Range Selector	Dial Setting	Circuit to Adjust	Adjustment Symbols	Notes
I.F. ALIGN.	1	1R5 Grid Pin #6	Gnd	.1 Mfd	455 Kc	S. B.	"HI" End	1st & 2nd I.F.	L-7, L-8, L-10, L-11	Max. Out.
S.B. ALIGNMENT	2	"Ant". Lead	Gnd	300 Ohm	6.1 Mc	S.W.	6.1 Mc	Osc.	L-5 (Rock In)	Max. Out.
	3	Same	Same	Same	17.75 Mc	Same	17.75 Mc	Osc.	C-9	Same
	4	Same	Same	Same	Same	Same	Same	Ant.	C-4	Same
	5	Repeat Steps 2, 3 and 4.								
S.W. ALIGNMENT	6	"Ant" Lead	Gnd	220 Mmf	600 Kc	S. B.	600 Kc	Osc.	L-6	Max. Out.
	7	Same	Gnd	Same	1630 Kc	Same	1630 Kc	Osc.	C-10B	Same
	8	Same	Same	Same	1500 Kc	Same	1500 Kc	Ant.	C-10A	Same
	9	Repeat Steps 6, 7 and 8.								