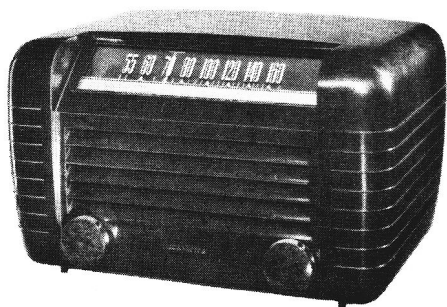




MODEL BT502



RCA VICTOR



BATTERY RECEIVER MODEL BT502 SERVICE DATA

—1950 No. 1—

GENERAL SERVICE DIVISION
RCA VICTOR COMPANY LIMITED
MONTREAL, QUE.

Electrical and Mechanical Specifications

FREQUENCY RANGES

"Standard Broadcast" -----540 kcs. to 1600 kcs.
Intermediate Frequency -----455 kcs.

RADIOTRON COMPLEMENT

- | | | |
|--------------|-------|---|
| (1) Type-1R5 | ----- | First Detector—Oscillator |
| (2) Type-1U4 | ----- | Intermediate Amplifier |
| (3) Type-1U5 | ----- | Second-Detector, A.V.C.,
and A-F Amplifier |
| (4) 1A5GT | ----- | Power Output |
| (5) 1A5GT | ----- | Power Output |

POWER OUTPUT RATING

Undistorted	-----	.2 watts
Maximum	-----	.4 watts

Batteries Required

OR "A"—one 1.4 Volt Air Cell or 1.5 Dry Cell. "B"—two 45 Volt heavy duty "B" Batteries. One No. 758T Eveready Pack.

LOUDSPEAKER

Type -----4" x 6" Elliptical P.M.
Voice-Coil Impedance -----3.2 Ohms at 400 Cycles

CABINET DIMENSIONS

Height	6 $\frac{3}{8}$ inches
Width	11 $\frac{3}{8}$ inches
Depth	7 inches

CURRENT CONSUMPTION

"A" at 1.4 Volts	250 Ma.
"B" at 90 Volts	12½ Ma.

55 60 70 80 100 120 140 170

The Dial Scale drawing shown is a full size reproduction. It can be used as a reference in alignment procedure.

Fig. 1—Dial Scale

REPLACEMENT PARTS FOR MODEL BT502

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)		
S-5128	Capacitor-Ceramic 4 MMF (C16)		73129	Transformer-1st I.F.trans.(C14,C15,L7,L8)	
S-5596	" " 5 MMF (C7)		73130	" -2nd I.F.trans.(C9,C20,L9,L10)	
71924	" " 56 MMF +- 20% (C10)		S-5400	" -Output transformer (T1)	
S-5560	" -Multi section 100 MMF(C25) 200 MMF(C22) .002 Mfd.(C23) .004 Mfd.(C26) .005 Mfd.(C24)		S-5402	Volume Control & power switch (R8,S2,S2A)	
	" -paper, .003 Mfd. 200 V. (C17)		SPEAKER ASSEMBLY		
	" -paper, .005 Mfd. 400 V. (C27)				
	" -paper, .01 Mfd.(disc type) (C13)		S-5315	Cone-Cone & voice coil assy.	
	" -paper, .05 Mfd. 200 V. (C6)				
S-3221	" -Electrolytic 10 Mfd. 150 V. (C28)		MISCELLANEOUS ASSEMBLY		
70463	Condenser-Variable (C8,C9,C11,C12)				
S-3529	Coil -Antenna coil (L1)				
S-5401	Coil -Oscillator coil (L2)		S-4313	Cord-Dial drive cord (standard)	
	Resistor,330 ohms +- 10% ½ watt(R13)		S-4246	Cable -Battery cable	
	" 22,000 ohms +- 10% ½ watt (R3)		S-5398	Cabinet	
	" 100,000 ohms +- 20% ½ watt(R2,R7)		S-5399	Dial scale	
	" 1.0 Megohm +- 20% ½ watt(R11)		S-3870	Knobs	
	" 3.3 Megohm +- 20% ½ watt(R4,R6, R10,R12)		70469	Pointer-Station selector pointer	
	" 6.8 Megohm +- 20% ½ watt(R5)		12827	Plug-"A" battery cable plug	
	" 10.0 Megohm +- 20% ½ watt(R9)		S-2398	Plug-"B" battery cable plug	

Only items listed under stock numbers are available as Replacement Parts.
All parts and prices subject to change or withdrawal without notice.

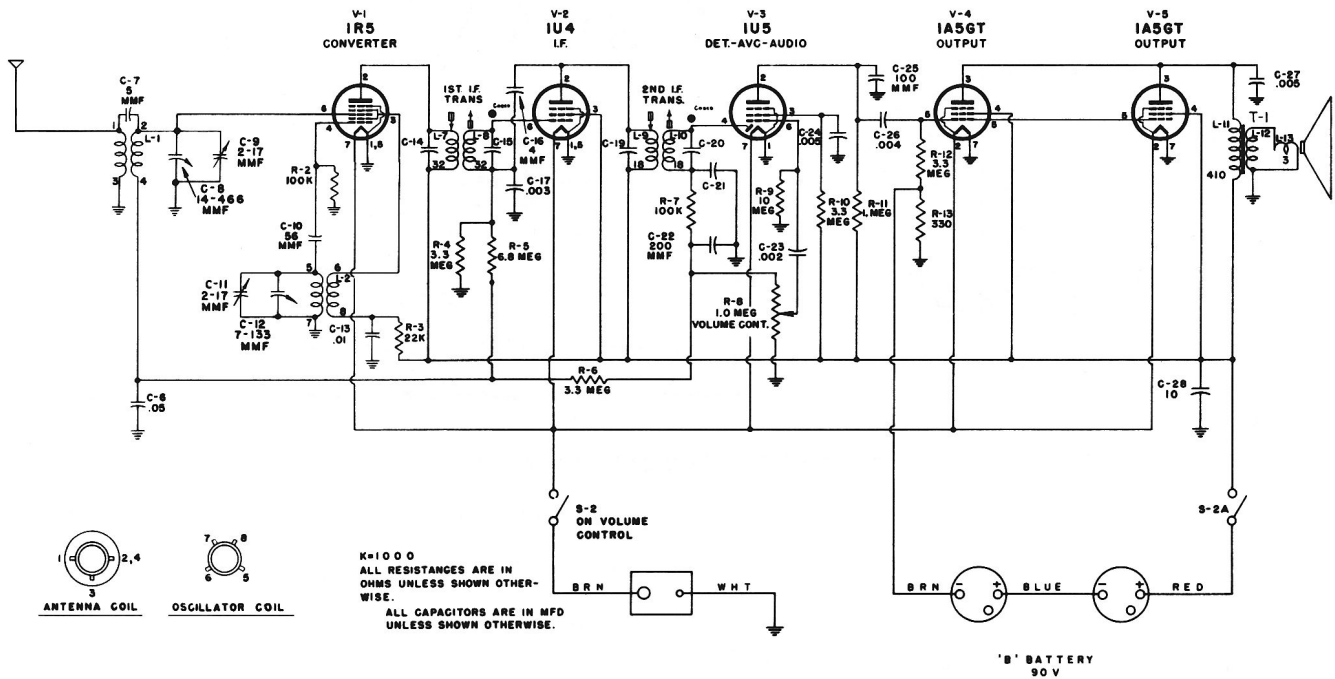


FIG. 2 — SCHEMATIC DIAGRAM

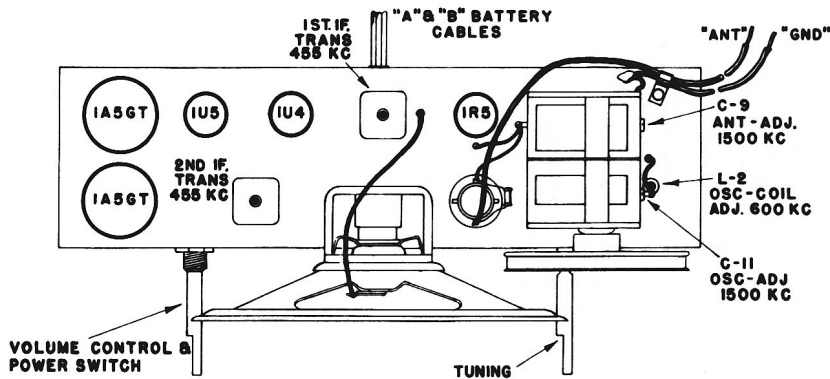


Fig 3—Chassis Layout & Alignment Adjustment

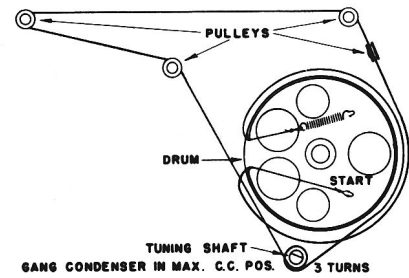


Fig. 4—Dial Cord Stringing

Alignment Chart

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-9, L-10	Max. Out
S.B. ALIGNMENT	2	"Ant." Lead	Gnd	220 Mmf	600 Kc	S.B.	600 Kc	Osc. (Rock In)	L-2	Max. Out
	3	Same	Same	Same	1500 Kc	Same	1500 Kc	Ant. & Osc.	C-9, C-11	Same
	4	Repeat Steps 2 and 3.								