



RCA VICTOR

BABY NIPPER



Five-Tube, Single-Band, AC-DC Superheterodyne Receiver

TECHNICAL INFORMATION AND SERVICE DATA

1948 No. 16

GENERAL SERVICE DIVISION

RCA VICTOR COMPANY LTD.

Electrical and Mechanical Specifications

FREQUENCY RANGE

Standard Broadcast S.B. 540—1720 k.c.
Intermediate Frequency 455 k.c.

RADIOTRON COMPLEMENT

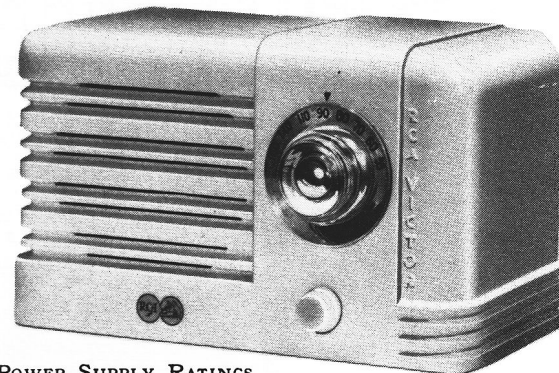
- (1) Type 12SA7 Converter
(2) Type 12BA6 I.F. Amplifier
(3) Type 12SQ7 Det. A.V.C. & 1st A.F.
(4) Type 50L6GT Power Output
(5) Type 35Z5GT Rectifier

POWER OUTPUT

Undistorted75 Watts
Maximum 1.5 Watts

LOUDSPEAKER

Type 4 inch Round P.M.
Voice coil impedance 3.4 ohms at 400 cycles



POWER SUPPLY RATINGS

Rating A 105—125 volts, 25 or 60 cycle, 30 watts

CABINET DIMENSIONS (Inches)

Height 5 $\frac{7}{8}$ inches
Width 8 $\frac{5}{8}$ inches
Depth 4 $\frac{1}{2}$ inches

CAUTION

REMOVE POWER PLUG FROM OUTLET BEFORE SERVICING THIS RECEIVER. AVOID CONTACT OF CHASSIS OR COMPONENT PARTS TO EXTERNAL GROUND.

REPLACEMENT PARTS FOR BABY NIPPER

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

STOCK NO.	DESCRIPTION	STOCK NO.	DESCRIPTION
CHASSIS ASSEMBLY		SPEAKER ASSEMBLY	
S-4817	Capacitor - 56 mmf. 10% mica (C4)	35849	Dust Cap (Pkg. 3)
S-4818	" -270 mmf. 20% " (C14-C15)	S-4330	Cone - cone & voice coil assy (L10)
S-4819	" -470 mmf. 20% " (C1)	S-4405	Speaker
S-3646	" .005 mfd. (C16-C17)	S-4406	Output transformer (L8-L9)
70615	" .05 mfd. (C11)	MISCELLANEOUS ASSEMBLY	
S-3651	" .025 mfd. (C19)	S-4822	Cabinet - Brown
S-3648	" .01 mfd. (C18-C5)	S-4823	" - Rose
S-3655	" .1 mfd. (C8)	S-4824	" - Green
S-4419	" Electrolytic (50-30 mfd.) (C20-C21)	S-4415	" - Ivory
S-4414	Condenser - variable (C2-C7-C3-C6)	S-3467	Cord - power cord
S-4410	Coil - antenna coil (L1-L2)	S-4417	Cover - back cover assembly
32962	Coil - oscillator coil (L3)	S-4778	Decal
30189	Resistor - 120 ohms 1/4 watt (R9)	S-4416	Disc - Dial back
30880	" - 150 " " (R3)	S-4409	Knob - dial knob
S-4681	" -1200 " 1 " (R10)	S-3903	" - Vol. control (Ivory)
30492	" -22,000 ohms 1/2 " (R1)	S-4825	" - " (Brown)
14583	" 220,000 " " (R1-R2)	11891	Lamp - pilot lamp (Mazda 44)
30648	" 470,000 " " (R8)	S-4781	Button - brass button for tuning dial
30649	" 2.2 megohms " " (R4)	S-4782	Spring - to hold disc to tuning dial (Pkg. 3)
30992	" 10 " " (R6)		
S-4418	Socket - tube socket		
S-4777	" - " "		
S-4411	Transformer 1st I.F. (L4-L5-C9-C10)		
S-4412	" 2nd I.F. (L6-L7-C12-C13)		
S-4413	Volume control - 1/2 meg. (R5-S1)		

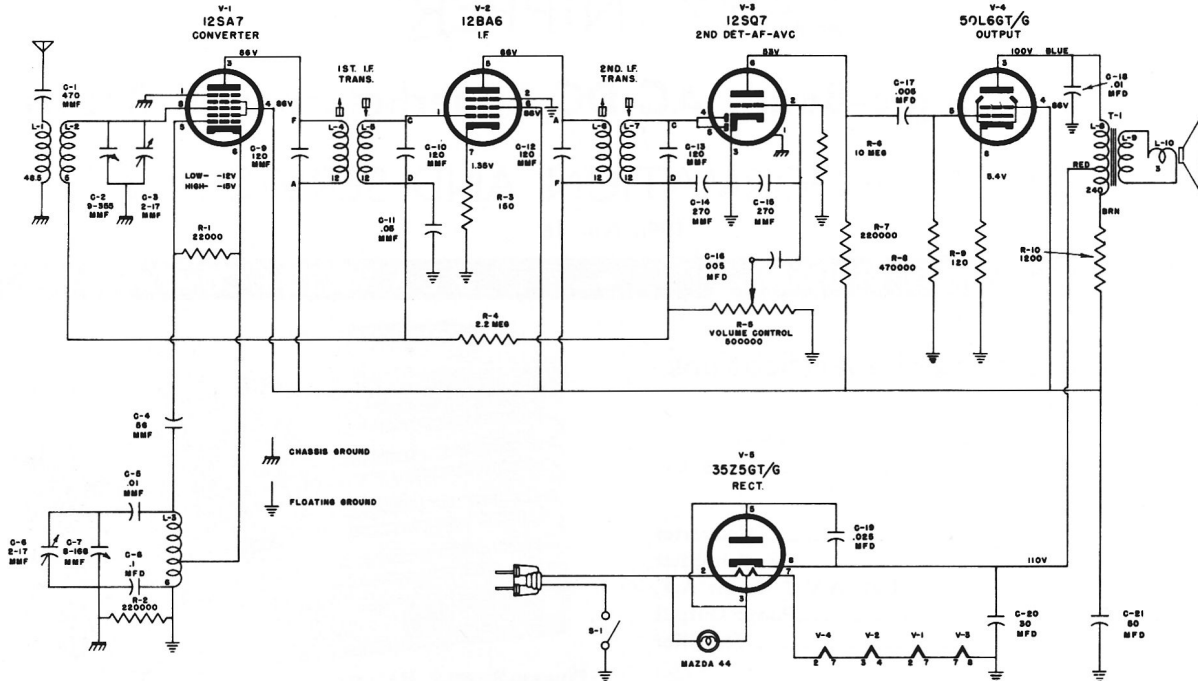
All prices and parts are subject to change or withdrawal without notice.

Baby Nipper

GENERAL DESCRIPTION

The RCA Victor Baby Nipper is a five-tube, single band, AC/DC Superheterodyne chassis housed in a plastic cabinet of pleasing design. Features include a stable oscillator circuit, efficient I.F. transformers, attached

"hank" antenna; Beam power output tube; a well-filtered power supply and a 4 inch round P.M. speaker capable of handling the undistorted output of the receiver.



Schematic Circuit Diagram

POWER SUPPLY POLARITY.—For operation on DC, the power plug must be inserted in the outlet for correct polarity. If the set does not operate, reverse the plug. On AC, reversal of the plug may reduce hum.

NOTE:—All voltages are measured to common wiring insulated from chassis with a line voltage of 117 volts.

CRITICAL LEAD DRESS

(Make lead dress before alignment)

1. Dress all heater leads to chassis.
2. Dress green lead from 2nd I.F. transformer to 12SQ7 diode plate away from oscillator coil.
3. Dress white lead from oscillator coil tap to 12SA7 cathode toward rear of chassis.
4. Some receivers have antenna section at front of tuning condenser. On these receivers, pass both leads to tuning condenser through hole below rear (oscillator) section.

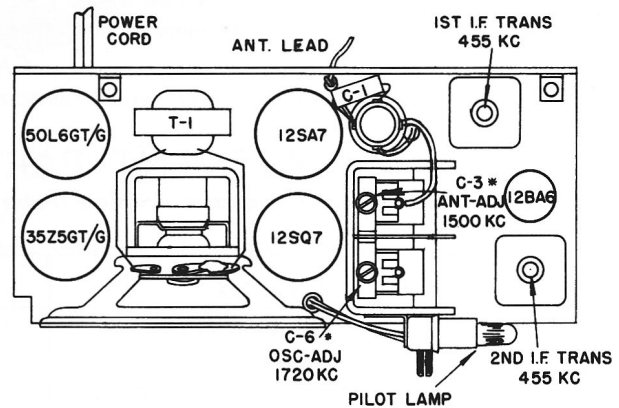
ALIGNMENT PROCEDURE

Test Oscillator:

Connect the low side of the test oscillator to the receiver chassis through a .01 mfd. capacitor. Keep the output as low as possible to avoid AVC action.

Pre-setting Dial:

With the gang condenser in full mesh, the dial should be positioned so that the small dot at the low frequency end is adjacent to the index mark on the cabinet.



Chassis Layout and Alignment Adjustments

* Some receivers have antenna section (C3) at front of tuning condenser.

Order of Alignment	TEST OSCILLATOR				Range Selector	Receiver Dial Setting	Circuit To Adjust	Adjustment Symbols	Notes
	Connect "HI" Side To	Connect "LO" Side To	Dummy Antenna	Frequency Setting					
A.M. I.F. ALIGNMENT	1 12BA6 1st I.F. Grid	Ground thru .01 mfd.	.01 mfd.	455 K.C. 30% mod. 400 Cy. A.M.		High freq. end of dial	2nd I.F. Trans.	L6, L7	Adjust for max. A.C. voltage across voice coil.
	2 12SA7 Converter Grid	Same	Same	Same		Same	1st I.F. Trans.	L4, L5	Same
S.B. ALIGNMENT	3 Ant. Lead	Ground thru .01 mfd.	47 m.m.f.	1720 K.C. 30% mod. 400 Cy. A.M.		High freq. end of dial	Oscillator	C6	Adjust for max. A.C. voltage across voice coil.
	4 Same	Same	Same	1500 K.C. 30% mod. 400 Cy. A.M.		1500 K.C. on dial	Ant.	C3	Same