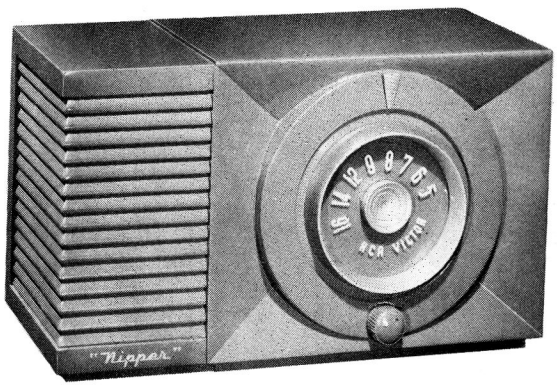


Nipper III

RCA VICTOR

"HIS MASTER'S VOICE"

AC-DC RADIO RECEIVER

Nipper II & Nipper III

SERVICE DATA

—1953 No. 3—

HOME INSTRUMENT SERVICE DIVISION
RCA VICTOR COMPANY, LTD.
MONTREAL, QUE.

Electrical and Mechanical Specifications

FREQUENCY RANGES

Standard Broadcast ("A" Band) ---------- 540-1,600 kc.

INTERMEDIATE FREQUENCY ----------455 kc.

TUBE COMPLEMENT

(1) RCA-12BE6 ----------1st Detector-Oscillator
(2) RCA-12BA6 ----------IF Amplifier
(3) RCA-12AV6 2nd Detector, A.V.C. and A-F Amplifier
(4) RCA-50C5 ----------Output
(5) RCA-35W4 ----------Rectifier

POWER SUPPLY RATINGS (D-C or 25/60 cycles A-C)

105-125 volts ----------30 watts

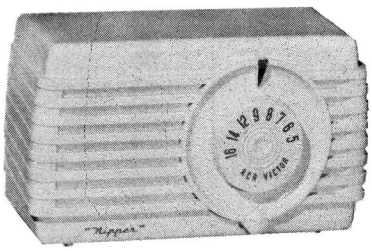
POWER OUTPUT RATING

Undistorted ----------1.0 watt
Maximum ----------1.5 watts

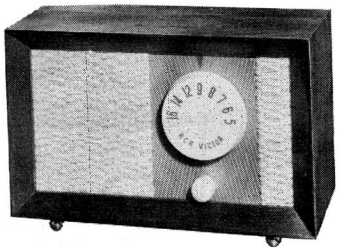
LOUDSPEAKER

Type ----------4-inch Permanent-Magnet Dynamic
Voice Coil Impedance ----------3.2 ohms at 400 cycles
Tuning Drive Ratio----------Direct Drive

POWER SUPPLY POLARITY—For operation on d-c, the power plug must be inserted in the outlet for correct polarity. If the set does not function, reverse the plug. On a-c, reversal of the plug may reduce hum.



Nipper II



Nipper II (Wood)

REPLACEMENT PARTS LIST FOR NIPPER II & NIPPER III

Insist on Genuine Factory Tested Parts, which are readily identified and may be purchased from Authorized Dealers.

STOCK NO.	DESCRIPTION
	CHASSIS ASSEMBLY
S-5685	Gang Condenser-Nipper II (C1,C2,C6,C7)
S-6918*	Gang " " III (C1,C2,C6,C7)
	Capacitor - 180 mmf. 20%, 300V (C3,C14)
	" 390 mmf. 20%, 350V (C17)
	" .005 mfd. 20%, 400V.(C18)
	" .01 " 20% 200V.(C16)
	" .01 mfd. 20% 400V.(C23)
	" .02 mfd. 10% 600V.(C20)
	" .05 mfd. 20% 200V.(C5)
	" .05 mfd. 20% 400V.(C9)
	" .1 mfd. 10% 400V.(C8)
S-6289	Capacitor-Electrolytic 30-50 mfd. (C21,C22)
S-4523	(Capristor) 56 mmf & 33 ohms (C4 & R3)
S-6280	Control-Vol.control NIPPER II (R-7)
S-6923*	Control-Vol.control Nipper III (R-7)
	Resistor - 150 ohms, 10%, ½ W. (R10,R4)
	" 1200 " 10% ½ W. (R11)
	" 22000 " 20% ½ W. (R2)
	" 220000 " 20% ½ W. (R12)
	" 470000 " 20%, ½ W. (R8,R9)
	" 1 megohm 20%, ½ W. (R6)
	" 10 megohm, 20%, 1/2w. (R5)
S-5682	Transformer - 1st I.F. Transformer
S-5683	" 2nd I.F. "
S-5686	" Output transformer
S-5687	Coil - Oscillator Coil (L-2)
	SPEAKER ASSEMBLY
S-6819*	Speaker 4"

STOCK NO.	DESCRIPTION
	MISCELLANEOUS ASSEMBLY
S-6284	Cabinet-Brown -Nipper II
S-6844*	Cabinet-Blue- Nipper II
S-6845*	" Green "
S-6846*	" Grey "
S-6847*	" Ivory "
S-6848*	" Terra Cotta Nipper II
S-6849*	" White "
S-6535*	Cover-Bk.cover ass'y (Includes loop ant. (Nipper II Wood)
S-6910*	Cabinet-Brown - Nipper III
S-6911*	" Ivory " "
S-6912*	" Blue " "
S-6913*	" Lt.Green " "
S-6914*	" Terra cotta " "
S-6915*	" Yellow " "
S-6916*	" Grey " "
S-6917*	" Kitchen White " "
S-6922*	Cover-Bk. cover only (Nipper III)
S-6851*	Cord - Power cord
75495	FOOT- Cab.foor (Nipper II Wood)
S-6537	Grille Cloth-(Nipper II Wood)
S-6283	Loop-Ant. loop only
S-5680	Knob-Vol. control (Used on all models except White.)
S-6287	Knob-Vol. cont.knob (Used on white only)
S-6919*	Knob-Tuning (Used on all except Yellow & Ivory)
S-6920*	Knob-Tuning (Used on Ivory & Yellow only)
S-6921*	Knob-Tuning - (Used on White only)
S-6285	Knob-Tuning (Ivory-Nipper II)

* Indicates New Stock Items

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

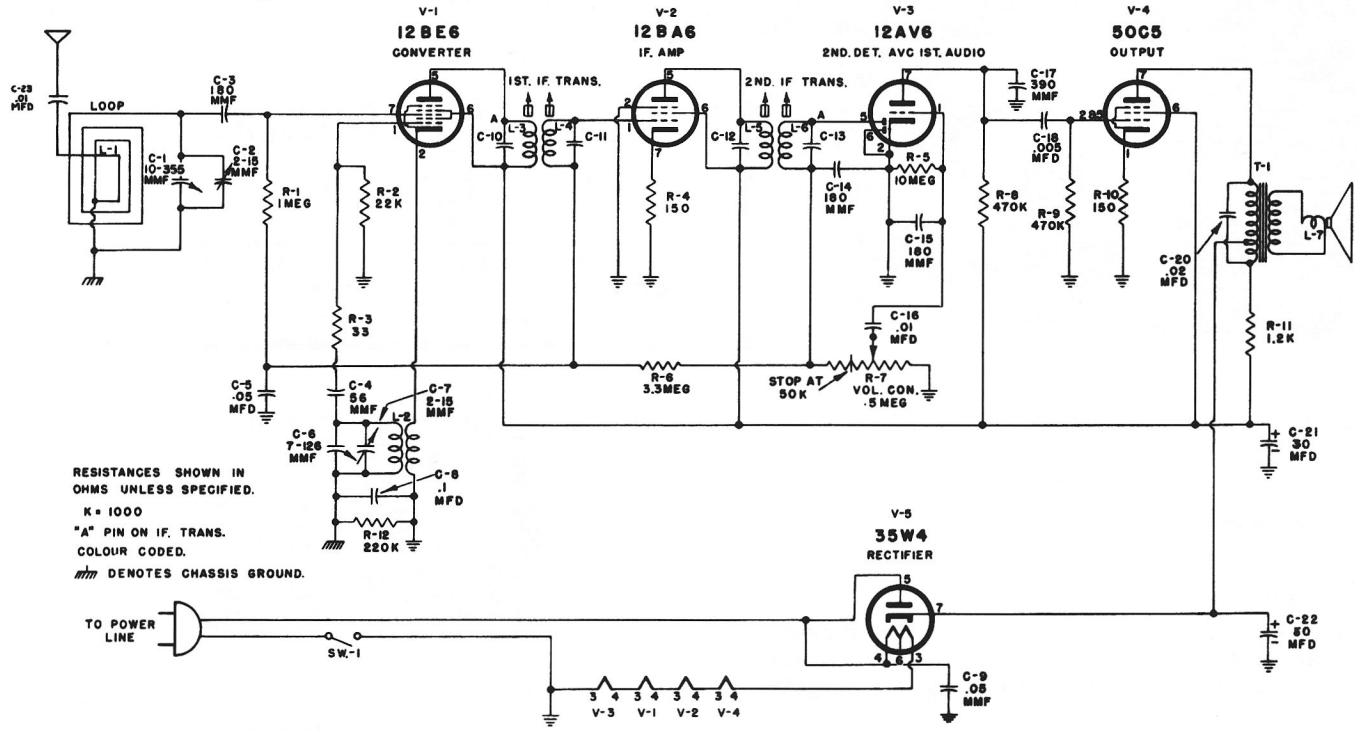


Fig. 1—Schematic Diagram

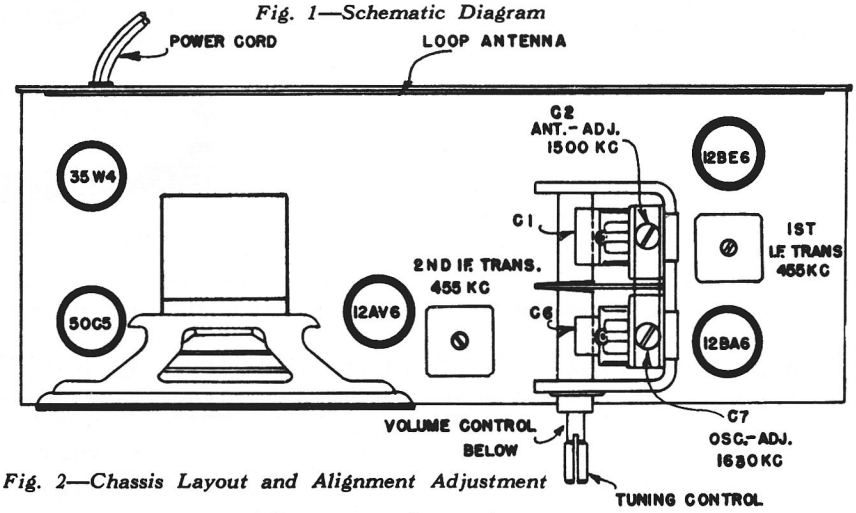


Fig. 2—Chassis Layout and Alignment Adjustment

Alignment Procedure

Before aligning the receiver, set the gang condenser for maximum capacity and then set the dial knob opposite 55 on left hand end of the dial.

When only a portion of the circuit is to be aligned select the required portion and perform all the remaining steps.

In order to obtain best results, it is advisable to align the 455 KC I.F.'s with the help of a cathode ray ocilloscope. The scope should be connected across the volume control. If this equipment is not available, use the method outlined below in the alignment chart.

NOTE: If the test-ocillator is ac/dc operated, it may be necessary to use an isolation transformer (117 v./117 v. for the receiver during alignment.)

Alignment Chart

		TEST OSCILLATOR				RECEIVER				
Order of Alignment		Connect "HI" Side To	Connect "LO" Side To	Dummy Antenna	Frequency Setting	Range Selector	Receiver Dial Setting	Circuit To Adjust	Adjust Adjustment Symbols	Notes
I.F. ALIGNMENT	1	12BA6 Pin #1	Gnd.	.1 Mfd	455 KC		"HI" End	2nd I.F. Trans.	Top & Bottom cores	Max. Out.
	2	12BE6 Pin #7	Same	Same	Same	Same	Same	1st I.F. Trans.	Top & Bottom cores	Same
S.B. ALIGNMENT	3	Radiate signal			1600 KC		1600 KC	Osc.	C-7	Same
	4	Same			1500 KC		1500 KC	Osc.	C-2	Same
	5	Repeat Steps 3 & 4.								