



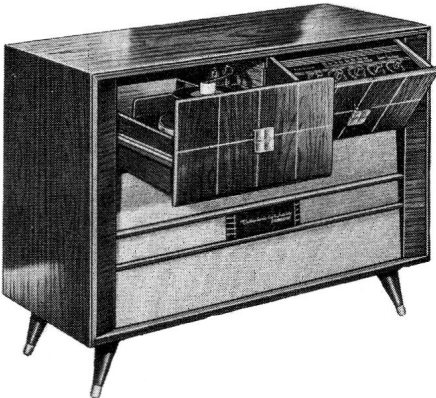
RCA VICTOR



HIGH FIDELITY RADIO-PHONOGRAPH COMBINATION MODEL VHF-829 (The Eden) SERVICE DATA

GENERAL DESCRIPTION

The model VHF-829 "Hi-Fi" Combination incorporates a ten tube Superheterodyne Radio (Standard Broadcast Band) with two new 12 inch speakers and two 3½ inch P.M. Speakers. The record changer is a 3-speed automatic RP197-C5 which has a variable reluctance pickup specially adapted for "Hi-Fi" reproduction.



MODEL VHF-829

Electrical and Mechanical Specifications

Standard Broadcast ----- 540 - 1600 Kc
Intermediate Frequency ----- 455 Kcs.

Tube Complement

Symbol No.	Tube No.	Function	Tuning Drive Ratio -----(17.1) or 8½ turns of Knob
V1	RCA 6BA6	R.F. Amplifier	POWER OUTPUT
V2	" 6BE6	Osc./Mixer	Undistorted ----- 8 watts
V3	" 6BA6	IF Amplifier	Maximum -----10 watts
V4	" 6AV6	Second Detector	LOUDSPEAKER
V5A	" ½ 12AX7	1st Audio Amplifier	Type -----(2) 12" PM—(2).
V5B	" ½ 12AX7	2nd Audio Amplifier	PHONOGRAPH RP197-C5 Series
V6A	" ½ 12AU7	3rd Amplifier	Turntable -----33-1/3, 45 & 78 RPM
V6B	" ½ 12AU7	Phase Inverter	CABINET DIMENSIONS
V7	" 6V6GT	Output	Height -----38¾"
V8	" 6V6GT	Output	Width -----30"
V9	" 5Y3GT	Rectifier	Depth -----20⅝"
V10	" 6C4	3rd Audio Amplifier	

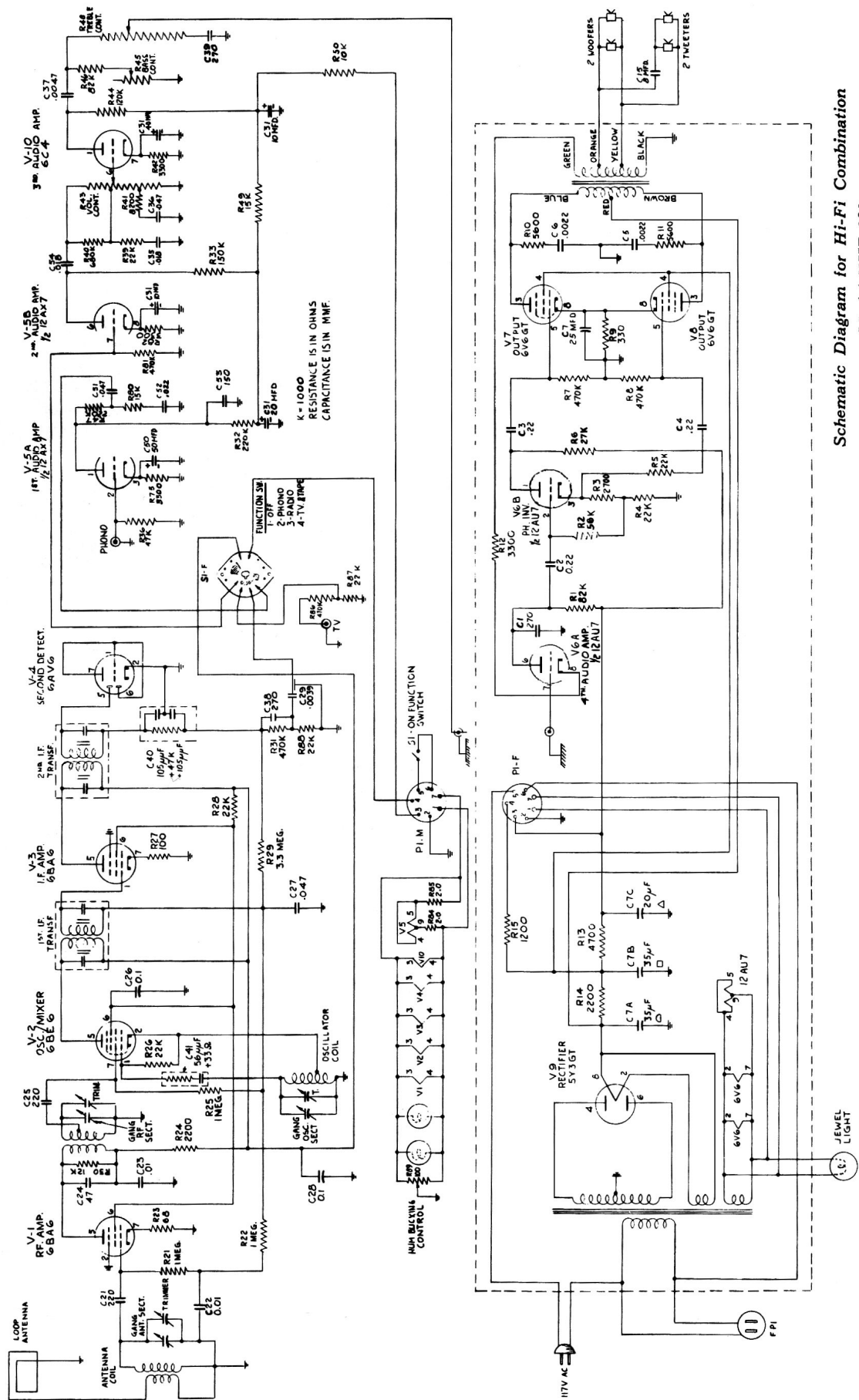
For Record Changer mechanism, please refer to the RP197 Series Record Changer Service Note.



DIAL SCALE VHF-829

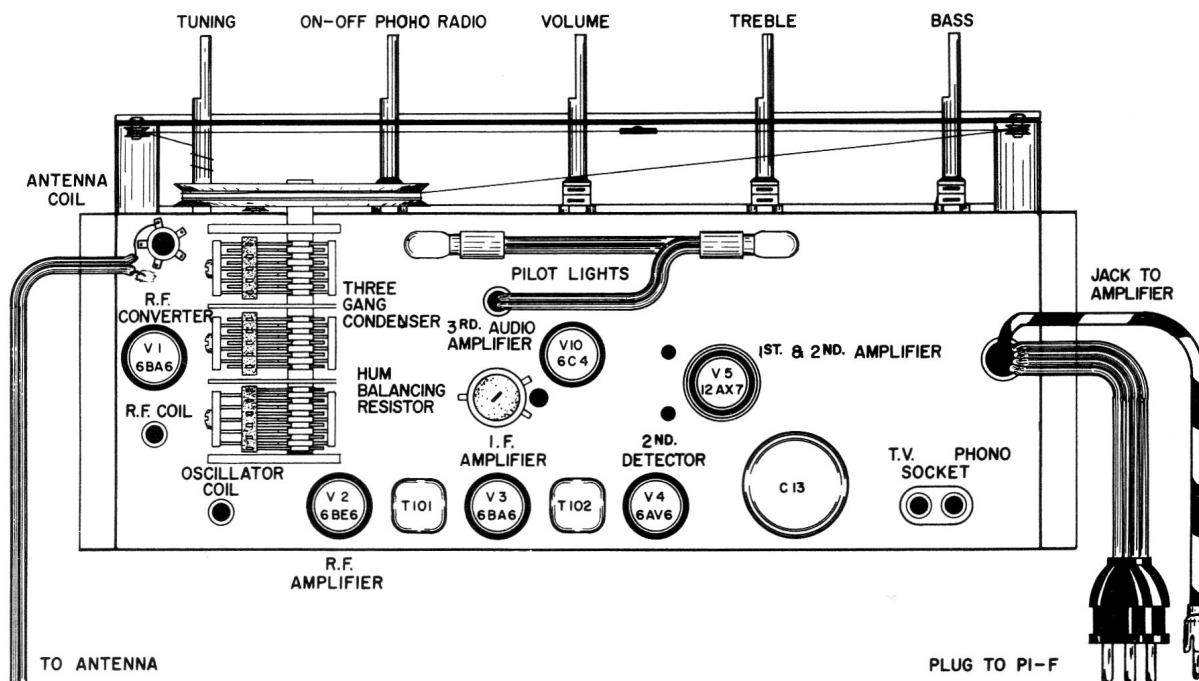
The Dial Scale Drawing shown is a full size reproduction. It can be used as a reference in alignment procedure.

ISSUED BY
GENERAL SERVICE DEPARTMENT
RCA VICTOR COMPANY, LTD.
MONTREAL, CANADA
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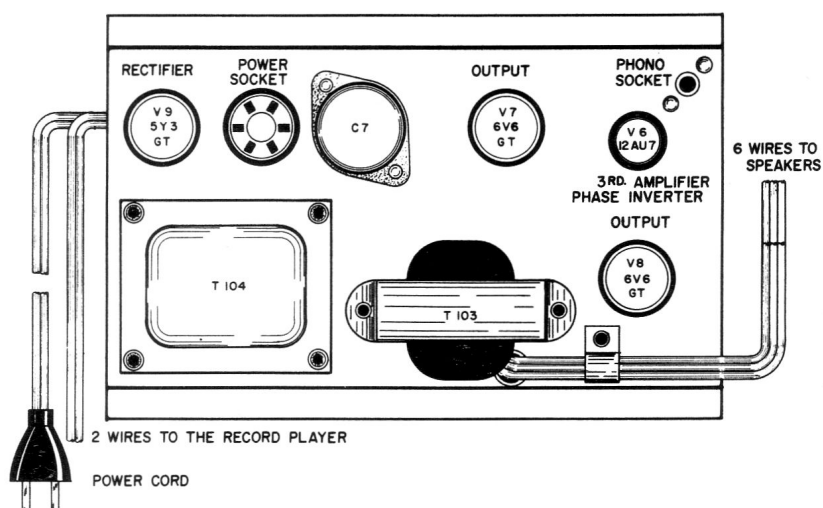


Schematic Diagram

Schematic Diagram for Hi-Fi Combination
Model VHF-829



Chassis Layout and Dial Stringing



Power Supply Layout

Alignment Procedure

Line Voltage -----117 volts
 Standard Output -----1.4 volts across 4.0 ohm voice coil
 Dummy antenna -----10 mmf and dummy loop.

1. With range switch in radio position, gang wide open, and oscilloscope connected at junction of R29 and R31, apply 455 kc sweep signal to 6BA6 I.F. Grid (Pin #1), through 0.1 mfd. capacitor. Adjust second I.F. transformer for symmetrical curve.
2. Apply 455 kc sweep signal to 6BE6 grid (pin #7), through 0.1 mfd capacitor, and adjust first I.F. transformer for symmetrical curve.
3. Disconnect scope and sweep generator.
4. Connect AC output meter across voice coil, turn tone and volume controls to maximum clockwise, connect dummy loop to the black and green antenna leads, and apply R.F. signals to the green lead (through a 10 mmf capacitor). Connect low side of signal to chassis.
5. With dummy dial scale in place and gang fully closed, adjust pointer to start point.
6. Turn gang until pointer is over the 600 kc point. Feed in 600 kc signal and adjust oscillator, R.F., and antenna cores for maximum output.
7. Turn gang until pointer is over the 1500 kc point and adjust oscillator, R.F., and antenna trimmers for maximum output.
8. Repeat steps 6 and 7 until no further improvement in sensitivity can be made.

REPLACEMENT PARTS

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

[illegible]

* Indicates New Stock Items.

Only items listed under stock numbers are available as Replacement Parts.

All parts subject to change or withdrawal without notice.