



RCA Victor

VICTORETTE

Five-Tube, Single-Band, A-C, Superheterodyne Receiver

TECHNICAL INFORMATION AND SERVICE DATA

SERVICE DIVISION • RCA VICTOR COMPANY LIMITED • MONTREAL

Electrical Specifications

Frequency Range 540 to 1,750 k.c.
 R.F. Alignment Frequency 1,500 k.c. (osc., ant.)
 Intermediate Frequency 455 k.c.

LOUDSPEAKER
 Type 5 inch Electrodynamic
 Voice-coil Impedance..... 3 ohms at 400 cycles

Tube Complement

(1) Type 6A8 First-Det., Osc.
 (2) Type 6K7..... Intermediate Frequency AMP.
 (3) Type 6Q7G..... Second-Det., A.V.C., A.F.

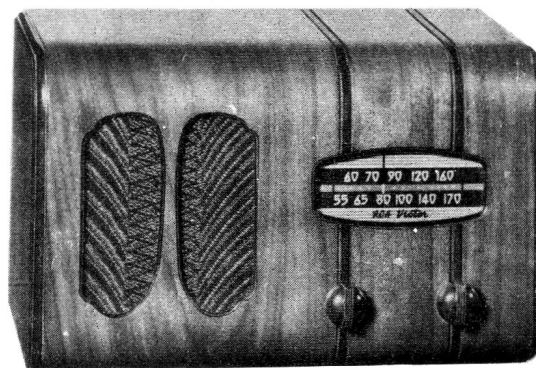
(4) Type 6F6-G Power Output
 (5) Type 5Y4G Full Wave Rectifier

POWER SUPPLY RATING

Rating A 105-125 volts, 50-60 cycle 50 watts
 Rating B 105-125 volts, 25-60 cycle 50 watts

POWER OUTPUT

Undistorted 1 watt
 Maximum 2 watts



Mechanical Specifications

	Height	Width	Depth
Cabinet Dimensions	8 $\frac{1}{4}$ inches	12 $\frac{1}{2}$ inches	7 $\frac{3}{8}$ inches
Chassis Base Dimensions	1 $\frac{7}{8}$ inches	9 $\frac{3}{4}$ inches	5 $\frac{7}{8}$ inches
Overall Chassis Height			4 inches
Weight (net)			10 $\frac{1}{2}$ pounds
Weight (shipping)			12 $\frac{3}{4}$ pounds
Operating Controls	(1) Power Switch—Volume, (2) Tuning		

General Description

This receiver employs a five-tube single band chassis. Features of design include:—Magnetite core I.F. transformers, stabilized oscillator circuit, electro-dynamic loudspeaker, and a large easy to read dial.

Alignment Procedure

Cathode-ray Alignment is the preferable method. Connections for the oscillograph are shown in the chassis drawing.

Output meter alignment. If this method is used, connect the meter across the voice coil, and turn the receiver volume control to maximum.

Test-oscillator. For all alignment operations, connect the low side of the test-oscillator to the receiver chassis, and keep the output as low as possible to avoid a-v-c action.

Pre-setting Dial. With gang condenser in full mesh position, move pointer to coincide with calibration mark at the low frequency end of dial.

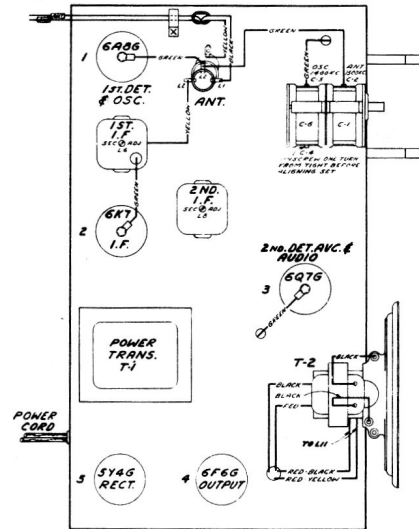


Fig. 1 Tube & Trimmer Locations.

Steps	Connect the high side of test-oscillator to—	Tune test-osc. to—	Tune radio dial to—	Adjust the following for max. peak output
No. 1	6K7 I-F grid cap, in series with .01 mfd.	455 kc	Quiet point between 550-750 kc	L7 and L8 (2nd I-F Transformer)
No. 2	6A8 1st-det. grid cap, in series with .01 mfd.	455 kc		L5 and L6 (1st I-F Transformer)
No. 3	Antenna lead, in series with 200 mmfd.	1,500 kc	1,500 kc (Top of "1" in 150)	C6* (oscillator) C3 (antenna)

Radiotron Socket Voltages

Type	Plate	Screen Grid	Control Grid	Filament
6A8 det.	210 V	135 V	0 V	6.3 V. A.C.
6A8 osc.	210 V	...	...	
6K7	210 V	135 V	0 V	6.3 V. A.C.
6Q7G amp.	100 V	...	0 V	6.3 V. A.C.
6F6G	190 V	210 V	0 V	6.3 V. A.C.
5Y4G	Plate 1 or 2 to Chassis 282 V	...	...	5 V. A.C.

The above measurements are all made to chassis. Measurements made with set tuned to quiet point, volume control set at minimum, using 1,000-ohm-per-volt meter, having ranges of 10, 50, 250, and 500 volts. (Use nearest range above the specified measured voltage.)

All the above values should hold within approximately $\pm 20\%$ for 115 volt, 25-60 cycle supply.

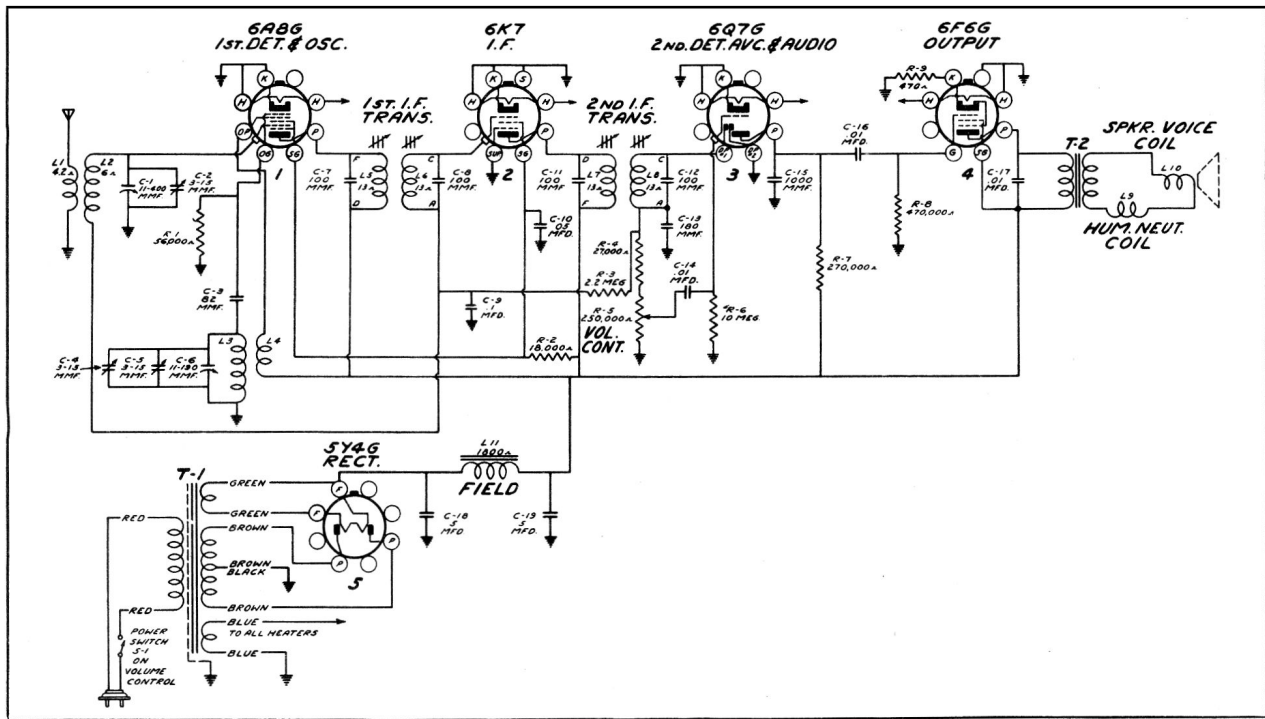


Figure 2. Schematic Circuit Diagram.

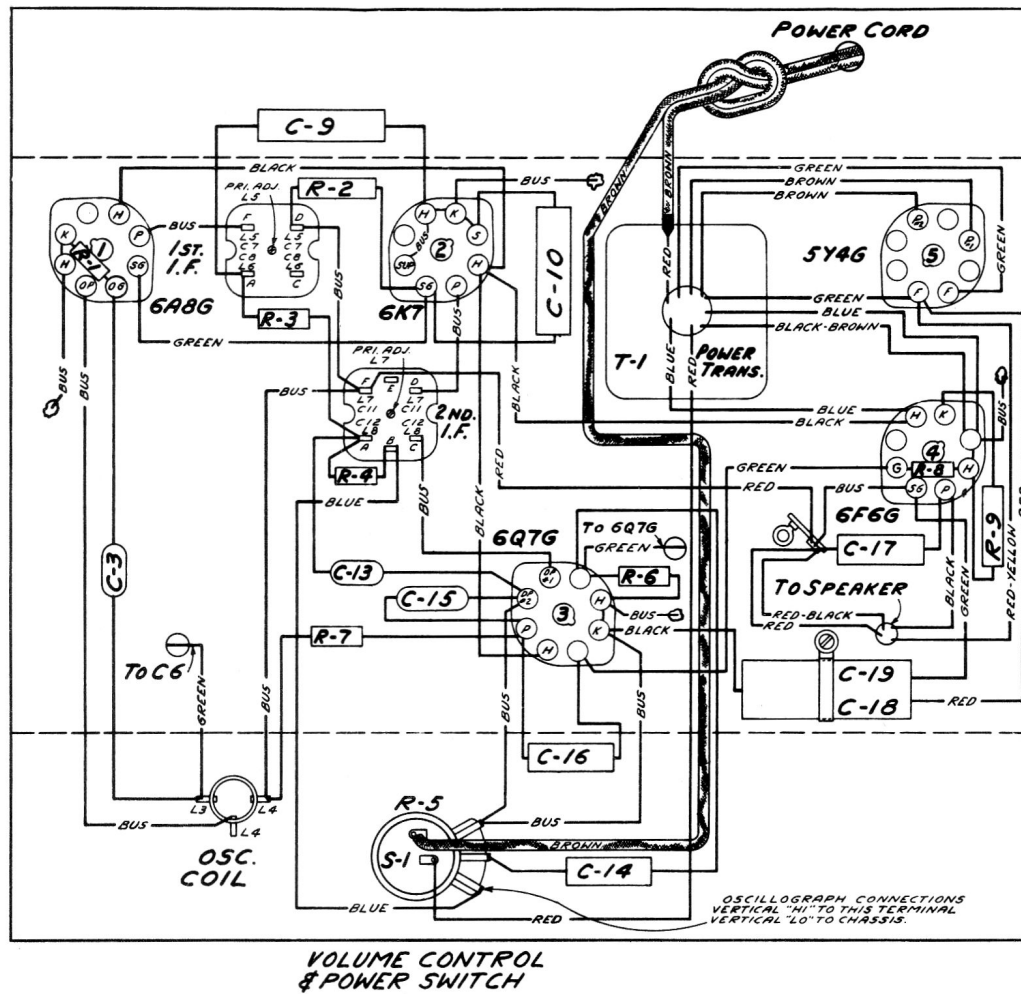


Figure 3. Chassis Wiring Diagram.

Precautionary Lead Dress

- (1) Keep a-c leads away from volume-control wiring.
- (2) Keep lead from high side of volume control away from plate circuit of 6Q7G tube.
- (3) Dress speaker leads to front of chassis away from 6F6G tube.

REPLACEMENT PARTS FOR VICTORETTE

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

STOCK NO.	DESCRIPTION	STOCK NO.	DESCRIPTION
RECEIVER ASSEMBLIES		31251	Socket-Radiotron socket.....
		31418	Spring-Drive cord tension spring (Pkg.of 3).....
		S-2314	Transformer-1st I.F.Transformer (L5,L6,C7,C8).....
		S-2315	Transformer-2nd I.F.Transformer (L7,L8,C11,C12).....
		S-2316	Transformer-Power Transformer 105-125 volt,25-60 cycle (T1)...
		S-2317	Transformer-Power Transformer 105-125 volt,50-60 cycle (T1)...
		S-2318	Volume control and power switch (R5,S1).....
		REPRODUCER ASSEMBLIES 100696-1	
		S-2320	Cone-Reproducer cone and voice coil (L10).....
		S-2321	Reproducer complete.....
		S-2322	Transformer-Output Transformer (T2).....
		MISCELLANEOUS ASSEMBLIES	
		S-2327	Crystal-Station selector dial crystal.....
		14269	Knob-Volume control or tuning knob.....
		S-2323	Screw-Chassis mounting screw and washer assembly (Pkg.of 4).....
		14270	Spring-Retaining spring for knob (Pkg.of 10).....
S-2301	Cap-Grid connector cap (Pkg.of 5)...		
12813	Capacitor-82 mmfd. (C3).....		
12720	Capacitor-100 mmfd. (C5,C6,C11,C12)...		
13003	Capacitor-180 mmfd. (C13).....		
12725	Capacitor-1,000 mmfd. (C15).....		
4858	Capacitor-.01 mfd. (C14).....		
14393	Capacitor-.01 mfd. (C16,C17).....		
30847	Capacitor-.05 mfd. (C10).....		
4839	Capacitor-0.1 mfd. (C9).....		
S-2302	Capacitor-Electrolytic capacitor consisting of two 5 mfd. sections (C18,C19).....		
30894	Coil-Antenna coil (L1,L2).....		
30895	Coil-Oscillator coil (L3,L4).....		
S-2303	Condenser-2 gang variable tuning condenser (C1,C2,C4,C5,C6).....		
S-2305	Cord-Variable condenser drum drive cord.....		
30905	Core-Adjustable core for I.F.Transformer.....		
S-2307	Dial-Station selector dial scale assembly.....		
S-2309	Drum-Variable condenser drive drum assembly.....		
31420	Indicator-Station selector indicator pointer.....		
31373	Pulley-Indicator drive cord pulley..		
30499	Resistor-470 ohm, 1/2 watt (R9).....		
S-2060	Resistor-18,000 ohm,1 watt (R2).....		
14390	Resistor-27,000 ohm,1/10 watt (R4)...		
12286	Resistor-56,000 ohm,1/4 watt (R1)...		
11323	Resistor-270,000 ohm,1/4 watt (R7)...		
S-1690	Resistor-470,000 ohm,1/4 watt (R8)...		
12579	Resistor-2.2 meg. 1/4 watt (R3).....		
13601	Resistor-10 meg., 1/4 watt (R6).....		
14887	Retainer-Pulley or drive shaft retainer (Pkg.of 20).....		
S-1469	Screw-Variable capacitor drum set screw (Pkg.of 10).....		
S-2312	Shaft-Variable capacitor drum drive shaft.....		