



## Model CV-10 Vibrator Power Unit

### TECHNICAL INFORMATION AND SERVICE DATA

SERVICE DIVISION • RCA VICTOR COMPANY LIMITED • MONTREAL

#### Electrical Specifications

Power Supply .....	6 volt storage battery tapped at + 4 volts
Output "B" voltage .....	90 volts
Output "B" current .....	9.5 to 14 MA
Vibrator Current drain for average 6 tube set .....	approx. .75 amps.
Fuse Rating .....	1 1/2 amps.
Length .....	7 inches
Width .....	3 1/4 inches
Depth .....	5 3/4 inches

#### General Description

The RCA Model CV-10 is a compact, self-contained, power conversion unit which operates from a 6 volt storage battery and supplies all "A" and "B" power required to operate up to and including 6 tube receivers using the 1.4 volt type tubes.

When installed, the receiver plugs are inserted in the sockets located on the side apron of the vibrator unit. Turning on the receiver power switch causes filament current to flow; this current energizes a relay which closes the vibrator circuit to provide "B" power.

#### General Operation

Three clip leads extend from the cable for connection to the storage battery. The brown lead connects to the (—) terminal, the blue and yellow leads connect to the + 4 volt terminal and the red lead to the + 6 volt terminal. It is important that the battery leads be connected correctly, as wrong connections to the battery will burn out the tubes.

This unit is suitable for operation on receivers having a common "A" (—) and "B" (—) circuit and receivers in which a bias resistor forms a part of the

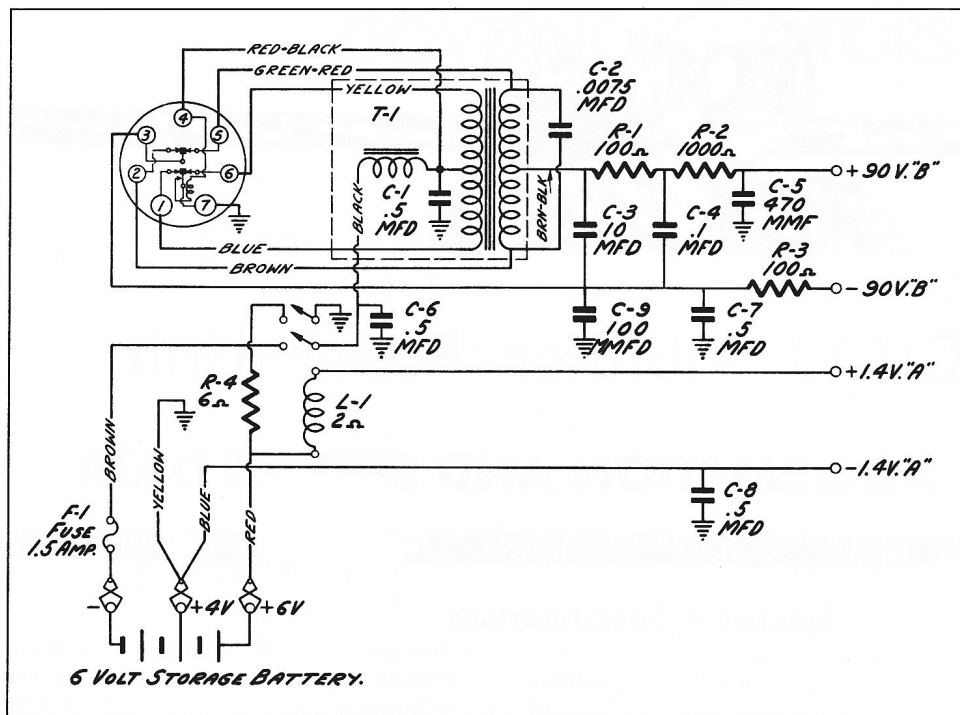
"B" (—) return (no "C" battery).

On some receivers (such as Model B-60) additional filtering may be necessary at the receiver to avoid hum due to the particular type of phase inverter circuit used. A capacitor of approximately 20 mfd. — 25 volt dry electrolytic should be connected, either internally or externally from "B" (—) to the chassis. The negative side of the electrolytic capacitor must be connected to the "B" (—) and the positive side to the receiver chassis.

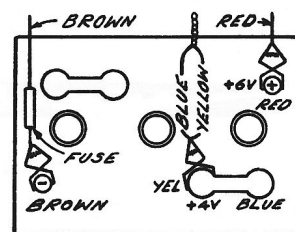
### REPLACEMENT PARTS FOR MODEL CV-10

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

STOCK NO.	DESCRIPTION	STOCK NO.	DESCRIPTION
S-3224	Cable-Battery cable complete with fuse holder & battery connectors	S-3220	Resistor-6 ohm, flexible wire (R4).
12720	Capacitor-100 mmfd. (C9).....	30540	Resistor-100 ohm, 1/2 watt (R1,R3).....
30433	Capacitor-470 mmfd. (C5).....	34766	Resistor-1000 ohm, 1/2 watt (R2).....
35573	Capacitor-.0075 mfd. (C2).....	12184	Socket-Vibrator socket.....
4839	Capacitor-.1 mfd. (C4).....	S-3219	Socket-2 contact receiver plug socket.....
12741	Capacitor-.5 mfd. (C6,C7,C8)....	S-3222	Socket-3 contact receiver plug socket.....
S-3221	Capacitor-10 mfd.electrolytic(C3)	S-3223	Transformer-Vibrator transformer (T1,C1).....
14289	Clip-Two battery clips..... (one marked +, one unmarked)	S-3217	Vibrator-Plug in vibrator.....
6516	Connector-Fuse connector complete		
2725	Fuse-1 1/2 amp. fuse (Pkg.2) (F1)...		
S-3218	Relay-Control relay (L1).....		



**Fig. 1—Schematic Circuit Diagram.**



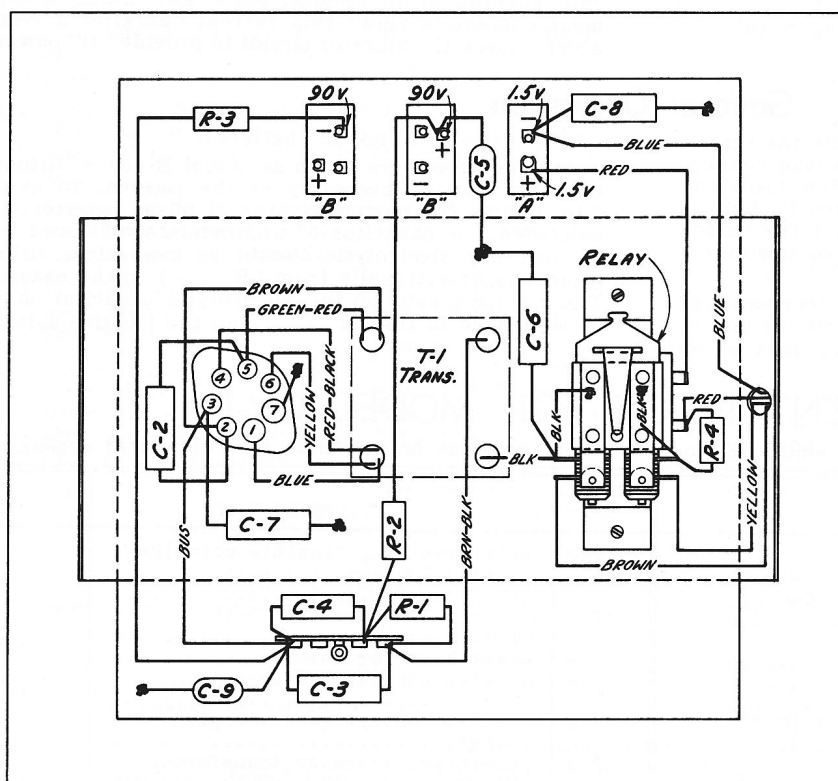
**Fig. 3 Storage Battery Connections**

**Turn the radio receiver off before making the installation, otherwise a wrong connection or careless touch with a connecting wire will burn out the radio tubes.**

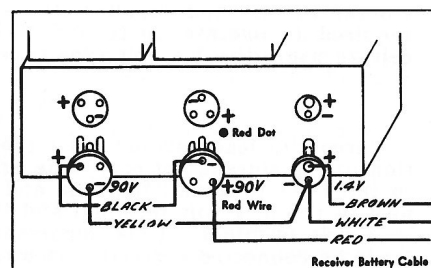
Clip the brown wire, the "—A" metal marker tag and the fuse receptacle, onto the negative terminal of the battery.

Clip the yellow and blue wires with the "+4V" metal marker tag onto the end of the 4-volt battery terminal bar, adjacent to the negative terminal.

Clip the red wire with the "+6V" metal marker tag onto the positive terminal of the battery.



**Fig. 2—Chassis Wiring Diagram.**



**Fig. 4 Receiver Battery Cable**

Three sockets are provided on the side apron of the VIBRATOR unit for ease of installation. The three plugs on the receiver cable are to be connected to the VIBRATOR unit as follows:—The three prong plug connected to the red lead of the cable must be inserted in the three contact socket designated by a red dot and located in the centre of the side apron on the power unit. The three prong plug connected to the yellow lead must be inserted in the socket located next to the centre socket.

The two prong plug on the receiver cable must be inserted in the two contact socket.

Refer to the diagram Fig. 4 for installation details.