



# RCA Victor

## MODEL V-2

### RECORD PLAYER

## TECHNICAL INFORMATION AND SERVICE DATA

SERVICE DIVISION • RCA VICTOR COMPANY LIMITED • MONTREAL



Model V-2

### Electrical and Mechanical Specifications

#### MOTOR

Type ..... Self-starting Induction  
Turntable Speed ..... 78 r.p.m.  
Turntable Diameter ..... 10 inches

#### POWER SUPPLY RATING

Rating A ..... 105-125 volts, 60 cycles, 10 watts  
Rating B ..... 105-125 volts, 25 cycles, 10 watts

#### PICKUP

Type ..... Crystal  
Impedance ..... 80,000 ohms at 1,000 cycles  
Volume Control Resistance ..... 250,000 ohms  
Average Output Voltage .....  $1\frac{1}{2}$  volts at 1,000 cycles  
across 250,000 ohm load

#### CABINET DIMENSIONS

Height ..... 7-13/16 inches  
Depth ..... 12-31/32 inches  
Width ..... 15 1/4 inches  
Net Weight ..... 12 3/4 pounds  
Shipping Weight ..... 18 pounds

### General Description

The RCA Victor Record Player Model V-1 consists of a self-starting motor turntable mechanism, a crystal pickup, an aurally compensated volume control, and a motor switch. This record player can be adapted to play records through the audio amplifier—loudspeaker system of practically every type of radio receiver. The cabinet is of walnut veneer, and has a hinged lid, which locks in the "open" position—but should be closed while records are being played. Any record up to and including the 12-inch diameter size may be played on this instrument. An automatic switch turns the motor "off" when the end of the record has been reached.

### Service Data

The crystal pickup unit is thoroughly sealed in a metal casing, against extreme changes of climate. The offset mounting of the crystal unit in the pickup arm insures ideal tracking between needle and record grooves. If failure occurs due to a defective crystal unit, no attempt should be made to repair the unit, but a new replacement crystal unit should be installed.

The motor speed should be 78 r.p.m., and may be checked by placing a piece of paper between a record and the turntable, with

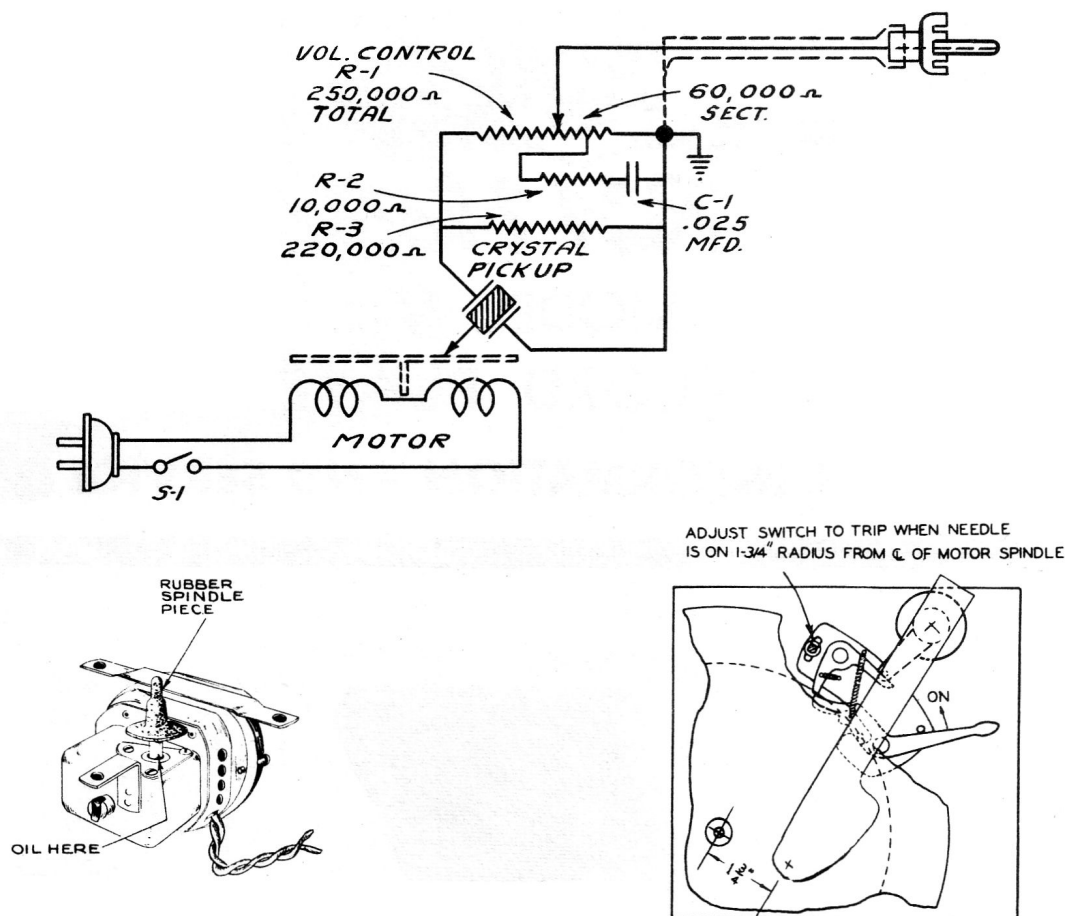
the paper protruding beyond the edge of the record, and then counting the number of revolutions of the turntable per minute. The motor is designed to be simple and foolproof in operation. Occasionally, however, lubrication and certain adjustments may be required.

The turntable is started by pushing to the rear the motor starting lever, which appears to the right of the turntable. The adjustment on the automatic motor stopping switch should be made so that the switch will snap to the "off" position when the needle in the pickup head is  $1\frac{3}{4}$  inches away from the center of the turntable.

The volume control is of the potentiometer type, tapped to give aural compensation at low volume settings. The output lead from the volume control is a single shielded wire, terminating in a small, male, pin plug. This pin plug fits into the female jack receptacle on most of the RCA Victor 1939 "90" series of radio receivers.

### Connecting Record Player to Radio Receivers

In general, the Record Player must be used with radio receivers having at least two stages of high-gain audio amplification. The Record Player output should be connected to the grid of the first audio tube, and at the same time the output of the radio receiver portion of the chassis should be shorted or opened, to prevent radio signals being heard while the Record Player is in operation.



**Motor Lubrication.**—Apply a few drops of light machine oil to the spindle bearing every six months.

The motor spindle is tapered, and a conical rubber piece fits snugly on the spindle. The hole in the turntable bushing is tapered to fit the rubber. This provides an excellent self-centering floating mounting.

A metal washer is placed on the spindle under the rubber piece. The washer has ears on the under side which fit over a pin that projects through the spindle.

The automatic stop should be adjusted so that the lever will snap to the "off" position when the pickup needle is 1 3/4 inches from the center line of the spindle.

## REPLACEMENT PARTS FOR MODEL V-2 DELUXE RECORD PLAYER

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

STOCK NO.	DESCRIPTION	STOCK NO.	DESCRIPTION
<b>MOTOR ASSEMBLIES</b>			
S-2285	Damper-Turntable damper plate and sleeve.....	S-2410	Pickup crystal and arm assembly complete.....
32558	Motor-110 Volt, 60 cycle motor complete (M1).....	31048	Plug-Pickup cable plug.....
32638	Motor-110 volt, 25 cycle motor complete (M1).....	31160	Screw-Pickup needle screw.....
S-2409	Mounting-Motor mounting assembly consisting of screws, washers, spacers and lock washers.....	<b>MISCELLANEOUS ASSEMBLIES</b>	
31463	Turntable-Motor turntable.....	4870	Capacitor-.025 mfd. (C1).....
<b>PICKUP AND ARM ASSEMBLIES</b>		9848	Cup-Needle cup, rest and lid complete.....
31469	Base-Pickup arm pivot shaft and base assembly.....	3961	Knob-Volume control knob.....
31156	Crystal-Pickup crystal cartridge and needle screw.....	12288	Resistor-10,000 ohms, 1/4 watt (R2)
31465	Mounting-Pickup arm mounting assembly comprising rubber grommet, washer, lock washer and nut.....	12264	Resistor-220,000 ohms, 1/4 watt (R3).....
		30100	Spring-Automatic brake latch spring (Pkg. 10).....
		31155	Spring-Needle cup lid tension spring (Pkg. 10).....
		S-2278	Switch-Automatic switch and trip assembly.....
		S-2268	Switch-Motor Switch (S1).....
		9824	Switch-Phone adapter switch assembly.....
		31194	Volume Control (R1).....