



RCA Victor

MODEL V-4

RECORD PLAYER

TECHNICAL INFORMATION AND SERVICE DATA

SERVICE DIVISION • RCA VICTOR COMPANY LIMITED • MONTREAL



Electrical and Mechanical Specifications

MOTOR

Type Self-starting Rim drive
Turntable Speed 78 r.p.m.
Turntable Diameter 9 inches

POWER SUPPLY RATING

Rating A 105-125 volts, 60 cycles, 15 watts
Rating B 105-125 volts, 25 cycles, 15 watts

General Description

The RCA Victor Record Player Model V-4 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—loud-speaker 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, 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.

PICKUP

Type Crystal
Impedance 100,000 ohms at 1,000 cycles
Volume Control Resistance 250,000 ohms
Average Output Voltage 1½ volts at 1,000 cycles across 250,000 ohm load

CABINET DIMENSIONS

Height 7-13/16 inches
Depth 12-31/32 inches
Width 15¼ inches
Net Weight 12¾ pounds
Shipping Weight 18 pounds

It is important that the drive motor spindle, and rubber tires be kept clean and free from oil, grease, dirt, or any foreign matter at all times. Any quick-drying naphtha is satisfactory for cleaning these parts.

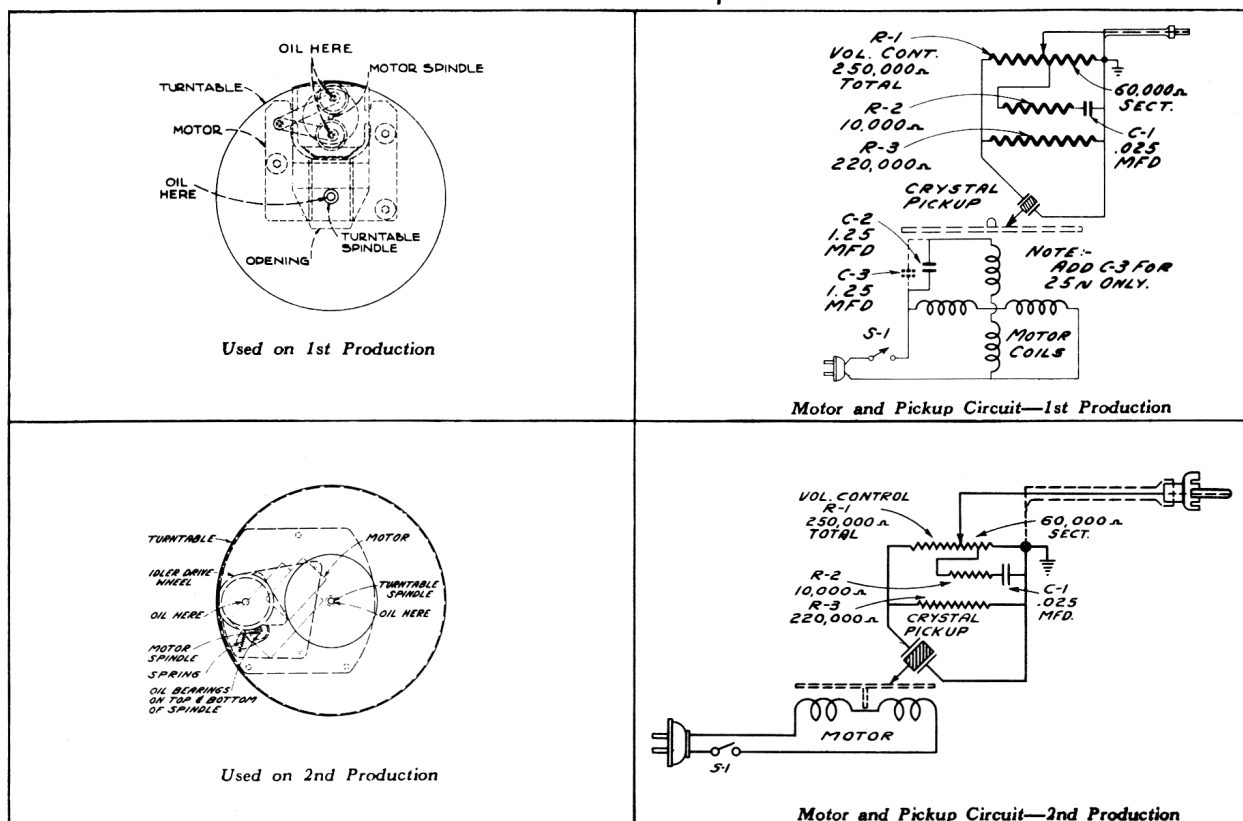
The motor is started by moving the pickup arm towards the turntable. The adjustment on the automatic motor switch should be made so that the switch will be in the "off" position when the needle in the pickup head is 1¾ inches away from the center of the turntable.

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 provided on most of the RCA Victor radio receivers. If no receptacle is provided on the receiver the correct adaptor and a transfer switch stock No. 9824 may be used.

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 and Pickup Data



Turntable Lubrication.—Apply a few drops of medium machine oil to the turntable spindle bearing every six months.

REPLACEMENT PARTS FOR MODEL V-4 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
MOTOR ASSEMBLIES (1st Prod.)		PICKUP AND ARM ASSEMBLIES	
36986	Arm-Drive wheel or idler arm for 60 cycle.....	S-3043	Arm-Pickup arm.....
S-3261	Arm-Drive wheel or idler arm for 25 cycle.....	S-3233	Base-Pivot shaft and base assembly
36989	Bushing - Motor mounting rubber bushing.....	34307	Crystal-Pickup crystal and needle screw.....
36990	Capacitor-1.25 mfd motor capacitor (2 used on 25 cycle).....	33529	Screw-Needle screw.....
36984	Motor-110 volt 60 cycle(motor only).....	AUTOMATIC SWITCH ASSEMBLIES	
S-2872	Motor-110 volt 25 cycle(motor only).....	36772	Cam-Cam assembly comprising main and auxiliary cam, hub and set screw.....
36995	Plate-Motor support plate 60 cyc.	32869	Screw-Set screw for cam hub(Pkg.10)
S-3262	Plate-Motor support plate 25 cyc.	36521	Spring-Actuating lever tension spring (Pkg.2).....
36996	Spindle-Turntable spindle.....	36529	Switch-Contact and plunger (S1)...
36997	Spring-Idler tension spring (60 cycle) (Pkg.2).....	MISCELLANEOUS ASSEMBLIES	
S-3263	Spring-Idler tension spring (25 cycle) (Pkg.2).....	4391	Box-Used needle box with cover....
34422	Turntable (9 in. diameter).....	4870	Capacitor-.025 mfd. (C1).....
36994	Wheel-Rubber tired idler or drive wheel.....	36246	Holder-Needle package holder.....
MOTOR ASSEMBLIES(2nd Prod.)		3961	Knob-Volume control knob.....
S-3077	Motor-110 volt 60 cycle motor....	14559	Resistor-10,000 ohm 1/4 watt (R2).....
S-3078	Motor-110 volt 25 cycle motor....	12264	Resistor-220,000 ohm, 1/4 watt (R3).....
S-3079	Spindle-Turntable spindle.....	33673	Support-Pickup arm support.....
S-3080	Spring-Drive wheel tension spring (Pkg.2).....	9824	Switch-Phono adaptor switch.....
S-3081	Turntable (9 in. diameter).....	31108	Volume control (R1).....
S-3082	Wheel-Rubber tired drive wheel...	* * * *	