

MODEL V-4A RECORD PLAYER TECHNICAL INFORMATION AND SERVICE DATA

SERVICE DIVISION • RCA VICTOR COMPANY LIMITED • MONTREAL



Electrical and Mechanical Specifications

MOTOR						
Type		_ Self	f-starti	ing F	lim	drive
Turntable Speed					78 1	r.p.m.
Turntable Diameter					9 i	nches
Power Supply Rating						
Rating A	105-125 v	olts,	60 су	cles,	15	watts
Rating B	105-125 v	olts,	25 су	cles,	15	watts

General Description

The RCA Victor Record Player Model V-4A consists of a self-The RCA Victor Record Player Model V-4A consists of a self-starting motor turntable mechanism, a crystal pickup incorporating a long life stylus, an aurally compensated volume control, and an automatic 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, 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—Permanent Stylus	(Crystal
Impedance 100,000 ohms at	1,000	cycles
Volume Control Resistance 25		
Average Output Voltage1 volts at	1,000	cycles
across 250,00	00 ohr	n load
CABINET DIMENSIONS		
Height	71/8	inches
Depth		
Width	151/2	inches

It is important that the drive motor spindle, and rubber tire 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.

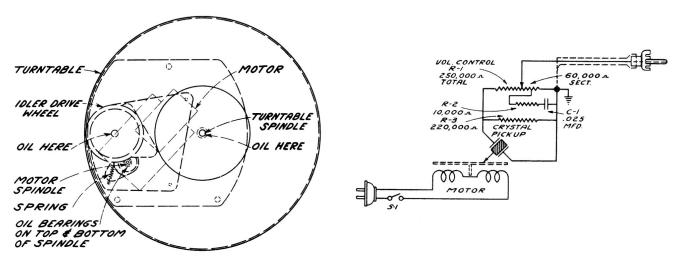
The motor is started by moving the pickup arm towards the turntable. The adjustment on the automatic motor switch cam should be made so that the switch will be in the "off" position when the needle in the pickup head is 13/4 inches away from the center of the turntable.

The volume control is of the potentiometer type, tapped to be aural compensation at low volume settings. The output lead 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 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

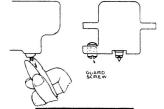


Motor Lubrication Points

Motor and Pickup Circuit

Replacement of Pickup Stylus

As an additional precaution against rough handling, the top of the stylus is dipped in a rubber cement before being inserted in the pickup. To remove the stylus, grasp it firmly with a pair of tweezers, give it a few turns to loosen the cement and then pull it out. Much easier handling of the stylus will result if the tweezers are



notched with a file as shown. Naptha may be used as a thinner should difficulty with the rubber cement be experienced. Before inserting the new stylus it should be dipped in the rubber cement previously thinned with naptha. After insertion clean the point with naptha if there is any doubt

To Remove Pickup Arm .--

One of the tone arm bearings has a slotted head and can be turned out to facilitate removal of the tone

arm. Raise the tone arm and loosen the bearing set screw. Turn the bearing partly out through the hole in the side of the tone arm and lift the arm off.

as to the presence of cement.

REPLACEMENT PARTS FOR MODEL V-4A

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

			4		
STOCK NO.	DESCRIPTION		STOCK NO.	DESCRIPTION	
	MOTOR ASSEMBLIES		39388	Comer: No. 4, 40=2/16 in general for	
0.0000			39300	Screw-No.4-40x3/16 in.screw for	
S-3077				pickup arm bottom plate(Pkg.25)	
S-3078	Motor-110 volt,25 cycle Motor		38608	Screw-No.6-32x9/32 in.headless set	
S-3079	Spindle-Turntable Spindle			screw for pickup arm (Pkg.15)	
S-3080	Spring-Drive wheel tension spring			Spring-Pivot arm spring (Pkg.2)	
	(Pkg.2) Turntable-Motor Turntable		39564	Stylus-Permanent Stylus	
S-3081 S-3082	Turntable-Motor Turntable Wheel-Rubber tired drive wheel			AUTOMATIC MOTOR SWITCH ASSEMBLIES	
5-5002	Wheel-Rabber Wilda arry wheelitter	l	36772	Cam-Cam Assembly comprising main	
1	PICKUP ASSEMBLIES		00112	and auxiliary cam, hub and set screw	
38602	Arm-Pickup arm-shell only		32869		
		l	36521	Spring-Actuating lever tension	
38610	Crystal-Crystal cartridge with			spring (Pkg.2)	
	permanent stylus		36529	Switch-Contact and plunger assembly	
39949		l			
31054			li .	MISCELIANEOUS ASSEMBLIES	1
38458	Nut-Speed nut to hold cable in arm				
	(Pkg.2)	l	4870	Capacitor 025 mfd. (Cl)	
39387	Plate-Bottom plate for pickup arm,		S-3407	Knob-Volume control knob	
	less screws	l	31048	Plug-Pickup cable plug	
38609	Screw-No.4-40x1/4 in.headless set	1	3078	Resistor-10,000 ohm 1/4 watt (R2).	
30000	screw for pickup arm (Pkg.10)		14583	Resistor-220,000 ohm 1/4 watt(R3).	
38605			9824	Switch-Phono adaptor switch and	
23000	screw for pickup crystal (oval			cable	
	noint) (Pkg.5)		31041	Tip-Pickup rest rubber tip (Pkg.2)	
38611	Screw-No.4-40x3/16 in.headless set		S-3395	Volume Control (R1)	1
	screw for pickup crystal (oval				
	point) (Pkg.5)				