

# MODEL V4X RECORD PLAYER

# TECHNICAL INFORMATION AND SERVICE DATA

SERVICE DIVISION

RCA VICTOR COMPANY LIMITED

MONTREAL



# **Electrical and Mechanical Specifications**

MOTOR								
Type _				Se	lf-st	arting	Rim	drive
Turntab	ole	Speed					78	r.p.m
Turntal	ole	Diameter					. 9	inche
Power	Su	PPLY RATING						
Rating	A		105-125	volts,	60	cycles	14	watt
Rating	В		105-125	volts,	25	cycles	15	watt

#### General Description

The RCA Victor Record Player Model V4X includes a rim drive motor, and a new type, light weight, crystal pick-up. This record player can be adapted to play records through the audio amplifier and loudspeaker system of practically every type of radio receiver. The cabinet is of walnut veneer, with a hinged lid, which locks in the "open" position. It is recommended that the lid be closed while records are being played. This instrument is designed for 10-inch or 12-inch diameter records.

#### Service Data

The crystal pick-up unit is thoroughly sealed in a metal casing, against extreme changes of climate. The offset 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. To replace crystal: Remove two filister head screws. Lift crystal from arm. Remove plug-in cable. The crystal unit uses a removable type needle.

Type 100,000 ohms at 1,000 Volume Control Resistance 250,000 Average Output Voltage 1½ volts at 1,000 across 250,000 oh  CABINET DIMENSIONS	cycles ohms cycles
Height 7½	inches
Depth 13 1/4	inches
Width 15 1/2	inches

The turntable speed should be 78 R.P.M., and the speed may be checked by a stroboscopic disc. When unavailable, place a piece of paper between a record and the turntable, with the paper protruding beyond the edge of the record, and then count the number of revolutions of the turntable per minute.

The motor should be lubricated once or twice a year by placing a few drops of S.A.E. 20 (or equivalent) on the turntable spindle and saturating the oil retaining felt pads on the motor shaft with S.A.E. 10 oil. See Fig. #1.

It is important that the motor drive 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 output lead from the volume control is a single conductor shielded cable, terminating in a small, male, pin plug. This pin plug fits into the female jack receptacle provided on most RCA Victor radio receivers. If no receptacle is provided on the receiver the correct adaptor with No. S-3122 Switch may be used.

#### Motor and Pickup Data

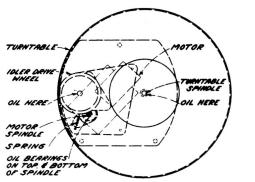


Figure 1-Motor Top View

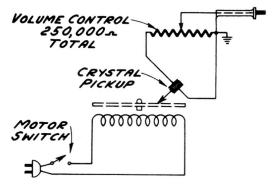


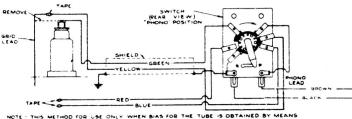
Figure 2-Motor and Pickup Schematic

## 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 output of the Record Player should be connected to the input of the first audio tube, and at the same time the output of radio receiver portion of the chassis should be shorted or opened, to prevent radio signals being heard while the Record Player is in operation.

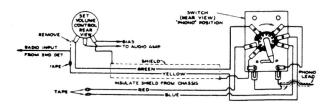
Methods of connecting the Record Player to various types of audio systems are given in the accompanying diagrams. The data given requires that a Stock No. S-3122 Radio-Phono switch be used for switching from radio to phonograph. For ease in connecting the "phono" lead to the Stock No. S-3122 switch, the male plug on the end of the lead should be removed by unsoldering or by cutting it off.

RADIO RECEIVERS WHERE FIRST AUDIO AMPLIFIER TUBE IS OF THE GRID CAP TYPE.

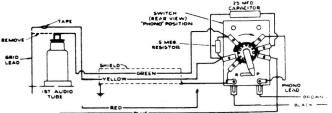


NOTE - THIS METHOD FOR USE ONLY WHEN BIAS FOR THE TUBE IS OBTAINED BY MEANS OF CATHODE RESISTOR

Radio Receivers Where the Volume Control is in the Audio Input Circuit.



RADIO RECEIVERS WHERE FIRST AUDIO TUBE IS OF THE GRID CAP TYPE, AND FIXED BIAS FOR TUBE IS OBTAINED THROUGH GRID LEAD.



NOTE - REMOVE BLUE AND RED LEADS CONNECT YELLOW LEAD TO TERMINAL SHOW!

### REPLACEMENT PARTS FOR MODEL V4X

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  Motor-ll0 volt,60 cycle motor Motor-ll0 volt,25 cycle motor Spindle-Turntable spindle Spring-Drive wheel tension spring	31054 S-3462 S-3465 S-3466	Grommet-Pickup base rubber grommet Screw-Pickup needle screw (Pkg.2) Screw-Pickup crystal retaining screw (Pkg.10) Spring-Pickup cable retaining spring (Pkg.2)	
	(Pkg.2) Turntable-Motor turntable Wheel-Rubber tired drive wheel		MISCELLANEOUS ASSEMBLIES	
5-5002	PICK-UP ASSEMBLIES	31986 S-3266 S-3464	Cable-Pickup cable	
S-3459 S-3460 S-3461	Arm-Pickup armBase-Pickup arm base Crystal-Pickup crystal cartridge	S-2865	Rest-Pickup arm rest (Pkg.2) Support-Cabinet lid support Volume control and "Off-on" switch.	

All parts subject to change or withdrawal without notice.