

# MODEL V16 RECORD PLAYER

# TECHNICAL INFORMATION AND SERVICE DATA

SERVICE DIVISION

RCA VICTOR COMPANY LIMITED

MONTREAL



## **Electrical and Mechanical Specifications**

PICKUP

Motor	
Type	Self-starting Rim drive
Turntable Speed	78 r.p.m.
Turntable Diameter	8 inches
POWER SUPPLY RATING	
Rating A 105-125 vo	lts, 60 cycles, 14 watts
Rating B 105-125 vo	lts, 25 cycles, 15 watts

#### General Description

The RCA Victor Record Player Model V16 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 instrument is designed to play 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 fillister head screws. Lift crystal from arm. Remove plug-in cable. The crystal unit uses a removable type needle.

Type	C	rystal
Impedance 100,000 ohms at	1,000	cycles
Volume Control Resistance 25	0,000	ohms
Average Output Voltage 11/2 volts at	1,000	cycles
across 250,00	0 ohm	ı load
-		
CABINET DIMENSIONS		
Height		inches
Depth	10 1/4	inches

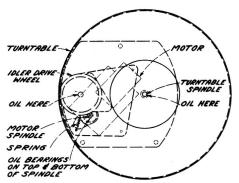
The turntable speed should be 78 R.P.M., and the speed may be checked by a stroboscopic disc. When unavailable place a piece of paper between a record and the turntable, with the paper protruding beyond the edge of the record, and then count the number of revolutions of the turntable per minute.

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 two conductor twisted 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





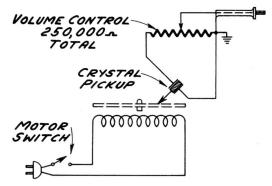


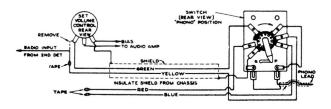
Figure 2-Motor and Pickup Schematic

### Connecting Record Player to Radio Receivers

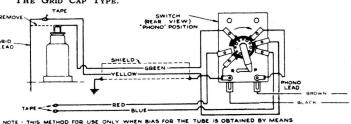
In general, the Record Player must be used with radio receivers having at least two stages of high-gain audio amplification. The output of the Record Player should be connected to the input of the first audio tube, and at the same time the output of radio receiver portion of the chassis should be shorted 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.

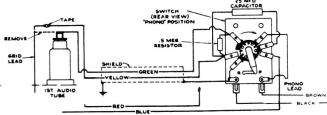
RADIO RECEIVERS WHERE THE VOLUME CONTROL IS IN THE AUDIO INPUT CIRCUIT.



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



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 S

REPLACEMENT PARTS FOR MODEL V16

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

STOCK NO.	DESCRIPTION	STOCK NO.	DESCRIPTION	
S-3688 S-3689 S-3079 S-3080 S-3690 S-3082	MOTOR ASSEMBLIES  Motor-110 Volts-60 cycle  Motor-110 Volts-25 cycle  Spindle-Turntable spindle  Spring-Drive Wheel tension spring (Pkg.2)  Turntable-Motor turntable  Wheel-Rubber tired drive wheel	31054 S-3484 S-3513 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)	
S-3481 S-3482 S-3693	PICK-UP ASSEMBLIES  Arm-Pickup arm (shell only)  Base-Pickup arm base & pivot shaft Crystal-Crystal cartridge	31986 S-2700 31048 S-2701 S-3691	Cable-pickup cable  Knob-Volume control knob  Plug-Pickup cable plug  Spring-Knob retaining spring(Pkg.5)  Volume Control and switch	

All parts and prices subject to change or withdrawal without notice.