

RCA Victor

MODELS V5, V5-1 and V5-A RECORD PLAYERS

TECHNICAL INFORMATION AND SERVICE DATA

SERVICE DIVISION • RCA VICTOR COMPANY LIMITED • MONTREAL







Model V5-A

Electrical and Mechanical Specifications

Type		(Self-starting)	Synch	ronous
Turntable	Speed		_ 78	r.p.m.
Turntable !	Diameter		9	inches

Morop

POWER SUPPLY RATING Rating A _____ 105-125 volts, 60 cycles, 14 watts Rating B _____ 105-125 volts, 25 cycles, 14 watts

General Description

The RCA Victor Record Player Models V5 and V5-1 consist of a rim drive motor turntable mechanism and a new type, light weight, crystal pickup housed in a compact, modern styled, cabinet of walnut veneer. These record players are designed to play records through the audio amplifier-loudspeaker system of practically every type of radio receiver.

Model V5-A is similar to Models V5 and V5-1 with the exception of the pickup assembly which is an improved type provided with a permanent stylus.

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 the 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.

PICKUP Type _____ Impedance ____ across 250,000 ohm load CABINET DIMENSIONS Height _____ 27/8 inches Width 11% inches Net Weight 6 pounds Shipping Weight 8 pounds

To Remove Pickup Arm on Model V5-A:-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 one arm and lift the arm off.

Phonograph Motor Service Data:-

The phonograph motor is of the self starting synchronous type and

The phonograph motor is of the self starting synchronous type and operates the turntable through friction drive between the motor drive spindle and the rubber tired idler on the rim of the turntable.

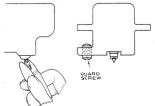
The motor should be lubricated once or twice a year by placing a few drops of S. A. E. 20 (or equivalent) on the turntable spindle and saturating the oil retaining felt pads on the motor shaft with S. A. E. 10 oil. Caution—The motor drive spindle and the rubber tire on the idler must be kept clean and entirely free from oil and grease all times. Any quick drying naphtha is satisfactory for cleaning at all times. Any quick drying naphtha is satisfactory for cleaning

Connecting Record Player to Radio Receivers

Plug male connector on the end of the "phono" lead into the female connector on the receiver chassis. Push or turn the "Phono" switch to "Phono" position, and operate the Record Player Attachment according to instructions.

Replacement of Permanent Stylus

As an additional precaution against rough handling, the top of the permanent 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.



Naphtha 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 naphtha. After insertion clean the point with naphtha if there is any doubt as to the presence of cement.

Motor and Pickup Data

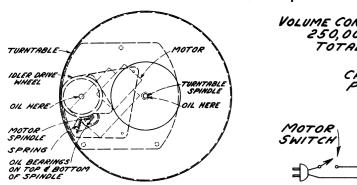


Figure 1-Motor Top View

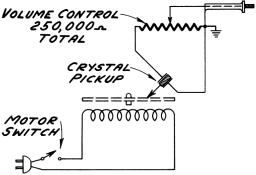


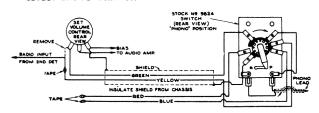
Figure 2-Motor and Pickup Schematic

Connecting Record Player Attachment to Radio Receivers

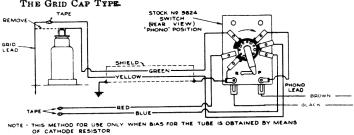
In general, the Record Player Attachment must be used with radio receivers having at least two stages of high-gain audio amplification. The output of the Record Player Attachment should be connected to the input of the first audio tube, and at the same time the output of radio receiver portion of the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

Methods of connecting the Record Player Attachment to various types of audio systems are given in the accompanying diagrams. The data given requires that a Stock No. 9824 Radio-Phono switch be used for switching from radio to phonograph. For ease in connecting the "phono" lead to the Stock No. 9824 switch, the male plug on the end of the lead should be removed by unsoldering or by cutting it off.

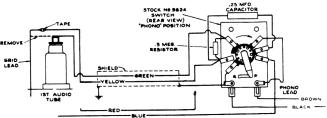
RADIO RECEIVERS WHERE THE VOLUME CONTROL IS IN THE AUDIO INPUT CIRCUIT.



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



RADIO RECEIVERS WHOSE 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 SHOWN

REPLACEMENT PARTS FOR MODELS V5, V5-1, V5-A

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

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STOCK NO.			STOCK			
NO.	DESCRIPTION		NO.	DESCRIPTION	_	
	MOTOR ASSEMBLIES		20040	Demper-Viscaloid damper		
S-3077	Motor-110 volt, 60 cycle Motor			Grommet-Pickup base rubber grommet		
	Motor-110 volt, 25 cycle Motor			Nut-Speed nut to hold cable in arm		
	Spindle-Turntable spindle		30430	(Pkg.2)		
	Spring-Drive wheel tension spring(Pkg.2)		39387	Plate-Bottom Plate for pickup arm,		
	Turntable-Motor Turntable		5555.	less screws	- 1	
S-3082	Wheel-Rubber tired drive wheel	l	38609	Screw-No.4-40x1/4 in. headless set	- 1	
	(GENERATE (M. 1. 1. 1. 1. 1.	ł		screw for pickup arm (Pkg.10)	- 1	
	PICKUP ASSEMBLIES (Model V-5)		38605	Screw-No.4-40x1/4 in. screw to mount	- 1	
	Arm-Pickup arm less crystal, base & cable.			crystal (Pkg.25)		
	Base-Pickup arm mounting base & pivot shaft		38611	Screw-No.4-40x3/16 in.headless set		
33217	Crystal-Pickup crystal cartridge & needle			screw for pickup crystal (oval point)		
	screw			(Pkg.5)		
	Damper-Viscaloid damper for pickup armatur		39388	Screw-No.4-40x3/16 in.screw for		
31160	Screw-Pickup needle screw	1		pickup arm bottom plate (Pkg. 25)		
	PICKUP ASSEMBLIES (Model V5-1)		38608	Screw-No.6-32x9/32 in.headless set		
0000		l	20505	screw for pickup arm (Pkg.15)	- 1	
	Arm-Pickup arm, less crystal, base & cable. Base-Pickup arm mounting base & pivot shaft	l	30563	Spring-Pivot arm spring (Pkg.2) Stylus-Permanent stylus	- 1	
	Crystal-Pickup crystal cartridge and	l	39364	Stylus-relmanent Stylus		
31030	needle screw			MISCELLANEOUS ASSEMBLIES		
33114	Damper-Viscaloid damper for pickup armature		S-3266	Knob-Volume control knob		
	Screw-Pickup needle screw	í		Plug-Pickup cable plug	-	
02100		l		Support-Pickup arm support		
	PICKUP ASSEMBLIES (Model V5-A)	1		(used on Models V5 and V5-1)	- 1	
38602	Arm-Pickup Arm-shell only	1	9824	Switch-Radio Record Switch and Cable		
	Base-Pickup arm base and pivot shaft	l	31041	Tip-Pickup rest rubber tip(Model V5A)	1	
	Crystal-Crystal cartridge with per-	1	l	(Pkg. 2)		
	manent Stylus		S-3268	Volume Control and off-on switch		