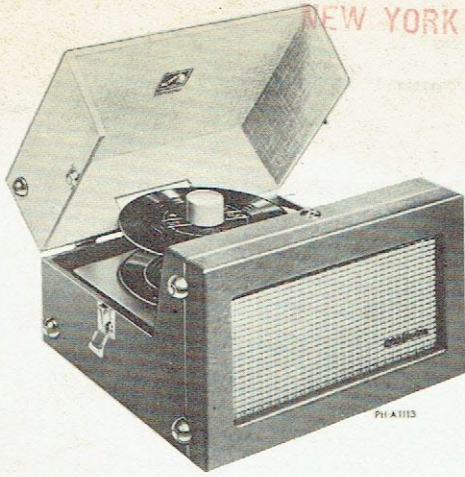


AMERICAN RADIO CO., INC.
 445 PARK AVENUE
 NEW YORK 22, N. Y.



RCA VICTOR



Two-tone Brown,
 Two-tone Green,
 Two-tone Blue

Automatic Record Players

6-EY-3A, 6-EY-3B, 6-EY-3C

Chassis Nos. RS-152A, RS-152B, RS-152D, RS-152E

Record Changers No. RP-190B-5, RP-190C-4

SERVICE DATA

— 1955 No. 27 —

PREPARED BY COMMERCIAL SERVICE SECTION
 RCA SERVICE CO., INC.
 CAMDEN 8, N. J.

FOR

RADIO CORPORATION OF AMERICA
 RCA VICTOR RADIO AND "VICTROLA" DIVISION

SPECIFICATIONS

Tube Complement

1. RCA 6AT6 (RS-152A, RS-152B) A.F. Amplifier
 RCA 6AV6 (RS-152D, RS-152E) A.F. Amplifier
2. RCA 25L6-GT Output
 A selenium rectifier is used.

Loudspeaker

Size and type 4" P.M.
 Voice coil impedance 3.2 ohms at 400 cycles

Dimensions (over-all)

Height, 7 1/8" Width, 13" Depth, 11 1/8"

Weight 11 lbs. net

Power Supply Rating

115 volts, 60 cycles A.C. 45 watts

Power Output

Undistorted 1 watt Maximum 1.5 watts

Record Changer

Turntable speed 45 r.p.m.
 Records used RCA-Type 7-inch fine groove
 Record capacity Up to 14 records
 Pickup for RP-190B-5 Crystal (Stock No. 74067)
 Equipped with synthetic sapphire stylus No. 74068
 Pickup for RP-190C-4 Ceramic (Stock No. 106837)
 (Plug-in cartridge only, including stylus)

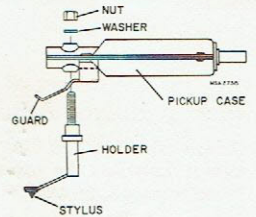
ADDITIONAL RECORD CHANGER
 SERVICE INFORMATION IS
 GIVEN ON PAGE 4

STYLUS REPLACEMENT — RP-190B-5 RECORD CHANGER

Remove the small nut and washer on the threaded shaft of the stylus holder and gently push the shaft through the hole in the armature shaft.

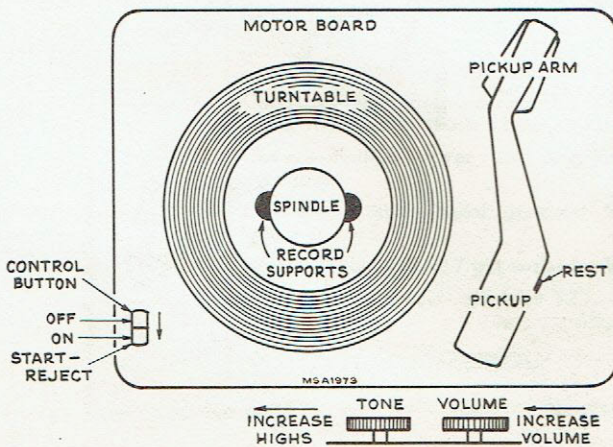
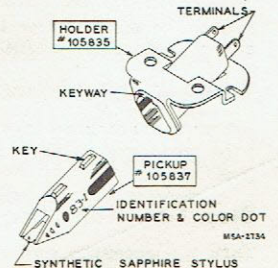
Extreme care should be used when loosening the nut so that the twisting motion does not break the crystal. Take hold of the lower end of the shaft with a pair of pliers while loosening or tightening the nut, being very careful so as not to break the internal crystal element.

Insert threaded shaft of replacement stylus assembly through armature shaft and replace the washer and nut. Make sure that the stylus is in the correct position. Before using, check to see that the stylus projects far enough beyond the guard so that the guard will not touch the record. If necessary, bend the guard a little.



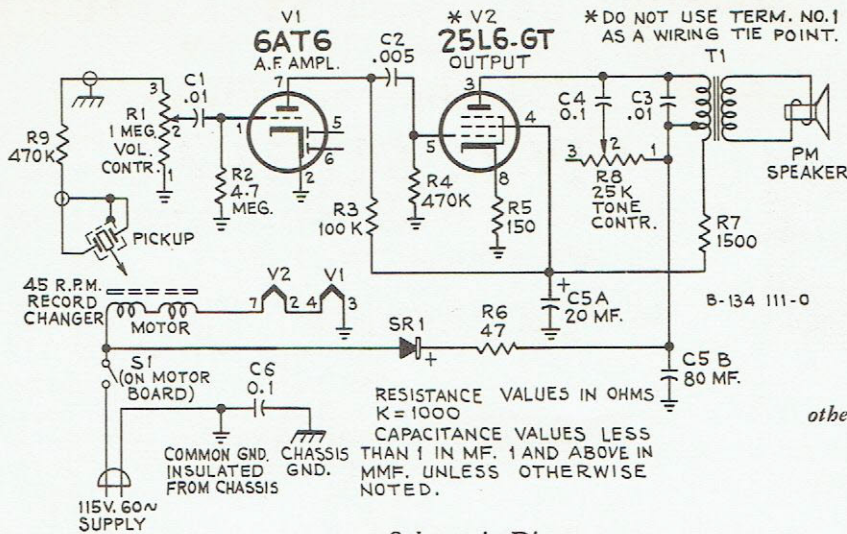
STYLUS REPLACEMENT — RP-190C-4 RECORD CHANGER

Refer to the illustration at right. Grasp the end of the pickup cartridge with thumb and finger — pull out of the holder. When re-inserting — match key with keyway and push in.



Controls

6-EY-3A, 6-EY-3B, 6-EY-3C

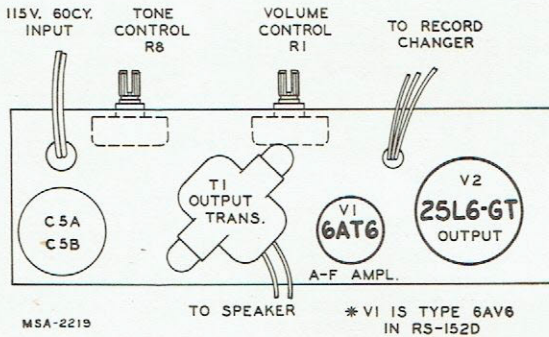


Schematic Diagram
Chassis No. RS-152A

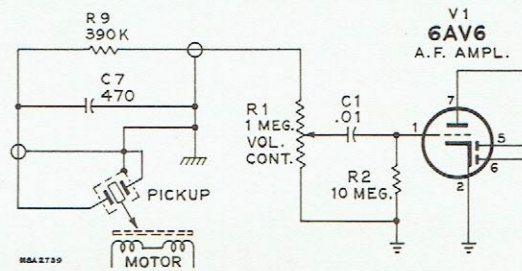
Chassis No. RS-152B
Same as shown for RS-152A
except C2 is .0047 mf

Chassis No. RS-152D
V1 (A.F. Ampl.) is type 6AV6
R9 is 820K
C2 is .0047
otherwise same as shown for Chassis No. RS-152A

Chassis No. RS-152E
V1 (A.F. Ampl.) is type 6AV6
R2 is 10 megohm
R9 is 390K
C7 (470 mf) is added as shown below
otherwise same as shown for Chassis No. RS-152A



Chassis Assembly (Top View)



Critical Lead Dress

1. Dress all leads away from R6 and SR1.
2. Dress filament leads down to chassis away from R2.
3. Dress leads from V2 plate away from C1.

Pickup Height Adjustment

Adjust knurled nut "A" until the distance (during change cycle) between the top of the turntable and the stylus point is approximately 1 1/8".

Pickup Landing Adjustment

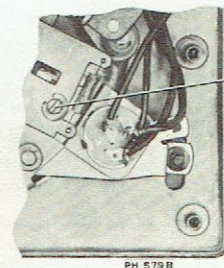
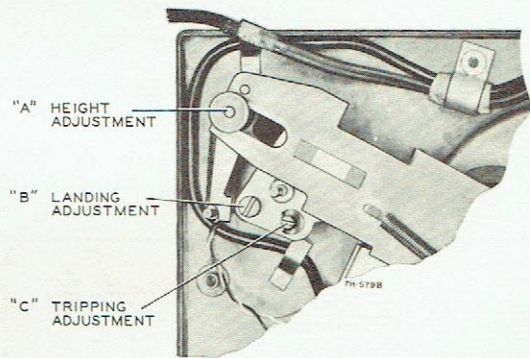
Adjust the screw driver landing adjustment stud "B" so the stylus lands 2 5/8" ± 1/64" from the side of the center post.

Tripping Adjustment

Adjust the eccentric tripping stud "C" until the mechanism trips when the stylus is 1 9/32" from the side of the center post.

Stop Dog Adjustment

Turn the eccentric screw "E" until the record drops to the turntable without striking the pickup arm.



Record Changer Adjustments

REPLACEMENT PARTS

SYMBOL NO.	STOCK NO.	DESCRIPTION	SYMBOL NO.	STOCK NO.	DESCRIPTION
		AMPLIFIER ASSEMBLIES RS-152A, RS-152B, RS-152D, RS-152E			MISCELLANEOUS
C1	73960	Capacitor — Fixed, ceramic, .01 mf., +100 —0%, 500 v.		102636	Baffle—Speaker baffle board — less grille cloth
C2	73473	Capacitor — Fixed, ceramic, .0047 mf., +100 —0%, 500 v.		X3927	Baffle—Speaker baffle board with black grille cloth (cabinet front Model 6-EY-3C)
C3	73561	Capacitor — Fixed, paper, .01 mf., ±10%, 400 v.		101431	Board—Compartment panel—with heat shield and plastic grille cloth—green
C4	73784	Capacitor—Fixed, paper, .1 mf., ±10%, 400 v.		101432	Board—Compartment panel—with heat shield and plastic grille cloth—brown
C5A, C5B	100269	Capacitor—Electrolytic, 80/20 mf., 150 v.		X3926	Board—Compartment panel—with heat shield and plastic grille cloth—white
C6	73784	Capacitor—Fixed, paper, .1 mf., ±10%, 400 v.		X4306	Cabinet—Two-tone blue cabinet — less speaker baffle and compartment panel
C7	105776	Capacitor—Fixed, ceramic, 470 mmf., ±10%, 500 v. Used on RS-152E only		X2867	Cabinet—Two-tone brown cabinet — less speaker baffle and compartment panel
R1	101436	Control—Volume control		X2866	Cabinet—Two-tone green cabinet—less speaker baffle and compartment panel
R2	30931	Resistor—Fixed, composition, 4.7 meg-ohms, ±20%, ½ w. Used on all except RS-152E		X3591	Cloth—Grille cloth—brown
R2	502610	Resistor—Fixed, composition, 10 meg-ohms, ±20%, ½ w. Used on RS-152E only		100162	Emblem—Trademark emblem
R3	502410	Resistor — Fixed, composition, 100,000 ohms, ±20%, ½ w.		75950	Eyelet—Metal eyelet to mount 45 RPM changer mechanism
R4	502447	Resistor — Fixed, composition, 470,000 ohms, ±20%, ½ w.		76891	Foot—Cabinet metal foot
R5	502115	Resistor—Fixed, composition, 150 ohms, ±20%, ½ w.		75697	Grommet—Rubber grommet to mount 45 RPM changer (3 req'd)
R6	103040	Resistor — Fixed, wire-wound surge type, 47 ohms, ±10%, 1 w.		100259	Handle—Carrying handle—clear plastic—with mounting brackets
R7	502215	Resistor — Fixed, composition, 1500 ohms, ±20%, ½ w.		101428	Handle — Carrying handle — brown plastic—with mounting brackets
R8	101437	Control—Tone control		104838	Handle—Carrying handle—blue plastic—less mounting support
R9	502447	Resistor — Fixed, composition, 470,000 ohms, ±20%, ½ w. Used on RS-152A and RS-152B		76889	Hinge—Cabinet lid hinge for brown or green cabinets
R9	502482	Resistor — Fixed, composition, 820,000 ohms, ±20%, ½ w. Used on RS-152D only		101390	Hinge—Cabinet lid hinge for blue cabinet
R9	502439	Resistor — Fixed, composition, 390,000 ohms, ±20%, ½ w. Used on RS-152E only		101434	Knob—Control knob—green (2 req'd)
				101435	Knob—Control knob—brown (2 req'd)
				103613	Knob—Control knob—white (2 req'd)
				101427	Latch—Cabinet lid latch
SR1	76871	Rectifier—Selenium rectifier—100 ma.		101429	Motorboard — Phono motorboard — green
T1	75939	Transformer—Output transformer		101430	Motorboard — Phono motorboard — brown
	70392	Cord—AC power cord and plug		X3701	Motorboard — Phono motorboard — white
	101727	Connector—Female connector for output transformer leads (2 required)		100569	Nameplate—"RCA Victor" nameplate—black
	100273	Cover — Bottom cover for amplifier chassis		101409	Nameplate—"RCA Victor" nameplate—white
	100270	Grommet — Strain relief grommet for power cord		73203	Nut—Speed nut for nameplate (3 req'd)
	100274	Socket—Tube socket, 7 pin wafer for V1		76204	Screw—#10-32 x 7/8" round hd. mach. screw to mount 45 RPM changer mechanism
	70827	Socket—Tube socket, octal for V2		75946	Spring—Pickup arm hold-down spring
		SPEAKER ASSEMBLY		104658	Support—Carrying handle support (2 req'd)
	79696A	Speaker — 4" P.M. speaker complete with cone			

APPLY TO YOUR RCA DISTRIBUTOR FOR PRICES OF REPLACEMENT PARTS

RP-190B-5 AND RP-190C-4 RECORD CHANGERS

The following listed items are used on RP-190B-5 and RP-190C-4 record changers. For all items not listed, refer to "RP-190 Series Service Data." "Illustration No." refers to items illustrated in Fig. 42 of RP-190 Series Service Data.

ILLUS. NO.	STOCK NO.	DESCRIPTION	ILLUS. NO.	STOCK NO.	DESCRIPTION
7	100159	Knob—Control knob, gray plastic	25	76298	Cable—3-wire twisted cable complete with connectors for pickup arm—for RP-190C-4
9	104586	Motorboard—Motorboard sub-assembly (rose gold finish) with welded and/or staked studs and pickup arm rest	26	74337	Nut—Speed nut to retain pickup cable—rear
14	100163	Cap—Spindle nose cap (smoked pearl gray)	27	32943	Nut—Speed nut to retain pickup cable—center
15	75753	Turntable—Black plastic turntable and shaft assembly — with finished disc	28	—	Not used
15A	75754	Disc—Finished disc for turntable	29	—	Not used
16	74067	Pickup—Crystal pickup cartridge complete with stylus—for RP-190B-5	31	75886	Spring—Counterbalance spring for RP-190B-5 (.180" O.D. x .600"—30 turns)
16	105837	Pickup—Ceramic pickup cartridge complete with stylus—less Holder No. 105835—for RP-190C-4	31	—	Not used on RP-190C-4
—	105835	Holder—Pickup holder only—less pickup No. 105837	32	77572	Swivel—Swivel and counterbalance for pickup arm
16A, B	—	Part of No. 74067 pickup	32A	76099	Collar—Pickup arm pivot shaft collar—less screw
16C	74068	Stylus—Synthetic sapphire stylus and holder for pickup No. 74067	33	76100	Screw—#6-32 x 1/8" hex head machine screw for pivot shaft collar
16C	—	Stylus for pickup No. 105837 — NOT AVAILABLE SEPARATELY	34	35969	Washer—"C" washer to mount early production trip lever #75767 (Illus. #77)
16D	74230	Nut—Nut and washer to mount No. 74068 stylus in No. 74067 pickup	34	101501	Ring—Grip ring to mount late production trip lever (Illus. #77)
18	—	Not used	43	79853	Spring—Idler wheel tension spring (.200" O.D. x 5 5/64"—31 1/2 turns)
19	—	Not used	48	105870	Motor—84 volt, 60 cycle motor
23	—	Not used	72A	—	Not used
24	101410	Arm—Pickup arm only, smoked pearl gray	73	—	Not used
24A, B	—	Not used	73A	—	Not used
25	78733	Cable—3-wire twisted cable complete with connectors for pickup arm—for RP-190B-5	83	75742	Spring—Trip lever spring (.180" O.D. x .535")

TRIP LEVER (Illus. #77)

Early type uses a "C" washer (Stock No. 35969) above the motorboard to hold lever assembly in position.

Late type uses a grip ring (Stock No. 101501) above the motorboard to hold lever assembly in position.

Replacement lever (Stock No. 75767) is early type, late type is not stocked (use #75767 lever and #35969 "C" washer).

FOR ADDITIONAL RECORD CHANGER
SERVICE INFORMATION, REFER
TO "RP-190 SERIES SERVICE DATA"