



9EY31 (Brown)
9EY32 (Red)

FOR RECORD CHANGER SERVICE INFORMATION—REFER TO RP-168 SERIES SERVICE DATA.



RCA VICTOR

Portable 45 RPM Record Player

MODELS 9EY31, 9EY32

— Mfr. No. 274 —

SERVICE DATA

— 1949 No. 23 —

RADIO CORPORATION OF AMERICA
RCA VICTOR DIVISION
CAMDEN, N. J., U. S. A.

SPECIFICATIONS

Tube Complement

1. RCA 12SQ7 Amplifier
2. RCA 50L6GT Output
3. RCA 35Z5GT Rectifier

Loudspeaker (RA68)

Size and type 5 in. P.M.
Voice coil impedance 3.2 ohms at 400 cycles

Dimensions (overall)

Height, 11½" Width, 14" Depth, 9"

Power Supply Rating

115 volts, 60 cycles, A.C. 40 watts

Power Output

Undistorted 0.9 watt Maximum 1.3 watts

Record Changer

Turntable speed 45 r.p.m.
Records used 7" RCA Fine Groove
Record capacity Up to 10 records
Pickup Crystal (medium output)

REPLACEMENT PARTS

STOCK No.	DESCRIPTION	STOCK No.	DESCRIPTION
	AMPLIFIER ASSEMBLIES Stamped RA79		Resistor—Fixed, composition:
75050	Capacitor—Electrolytic, comprising 2 sections of 50 mfd, 150 volts, and 1 section of 20 mfd, 25 volts (C5A, C5B, C5C)		220 ohms, ±10%, ½ watt (R6)
73750	Capacitor—Tubular, paper, .002 mfd, 200 volts (C3)		560 ohms, ±10%, ½ watt (R7)
71926	Capacitor—Tubular, paper, .005 mfd, 200 volts (C7)		33,000 ohms, ±10%, ½ watt (R12)
71923	Capacitor—Tubular, paper, .01 mfd, 200 volts (C4, C6)		270,000 ohms, ±10%, ½ watt (R3)
71928	Capacitor—Tubular, paper, .02 mfd, 200 volts (C1)		470,000 ohms, ±10%, ½ watt (R5, R11)
70615	Capacitor—Tubular, paper, .05 mfd, 400 volts (C8)		1 megohm, ±10%, ½ watt (R10)
73784	Capacitor—Tubular, paper, 0.1 mfd, 200 volts (C2)		10 megohm, ±10%, ½ watt (R2)
30868	Connector—2 contact female connector for motor cable	33084	Socket—Tube socket, octal, wafer
75051	Control—Volume control and power switch (R1, S1)		SPEAKER ASSEMBLIES RA68
75052	Control—Tone control (R4)	75053	Speaker—5" P.M. speaker complete with cone and voice coil less transformer
71783	Cover—Insulating cover for electrolytic	75054	Transformer—Output transformer
35787	Jack—Phono cable input pin jack		MISCELLANEOUS
18469	Plate—Mounting plate for electrolytic	75056	Knob—Control knob
73237	Resistor—Fuse type 33 ohms (R8)	75057	Screw No. 8 x 7/8" cross recessed oval head wood screw to mount changer in cabinet (3 required)
48676	Resistor—Wire wound 150 ohms 5 watts (R9)	75055	Well—Knob well

APPLY TO YOUR RCA DISTRIBUTOR FOR PRICES OF REPLACEMENT PARTS

9EY31, 9EY32

Record Separators

In the out of cycle position the record separator knives or discs are normally concealed inside the center post. During service the position of the star wheel on the underside of the record changer may be accidentally shifted; this may cause the separator knives to be extended when they should be concealed.

If the separator knives are thus extended — turn the power on so that the turntable is revolving, gently press fingers against the extended knives until they disappear inside the center post — DO THIS ONLY WHILE MECHANISM IS OUT OF CYCLE.

Pickup Landing Adjustment

(Screw to left of pickup rest)

The pickup point should land half-way between the outer edge of the record and the first music groove.

If the pickup lands inside the starting grooves — turn screw slightly clockwise. If pickup lands outside the starting grooves — turn screw slightly counterclockwise.

Pickup Height Adjustment

(Screw to left of pickup arm pivot)

During cycle the pickup arm must rise high enough to clear a full stack of records on the turntable, but not high enough to cause the top of the arm to touch records resting on the record supports.

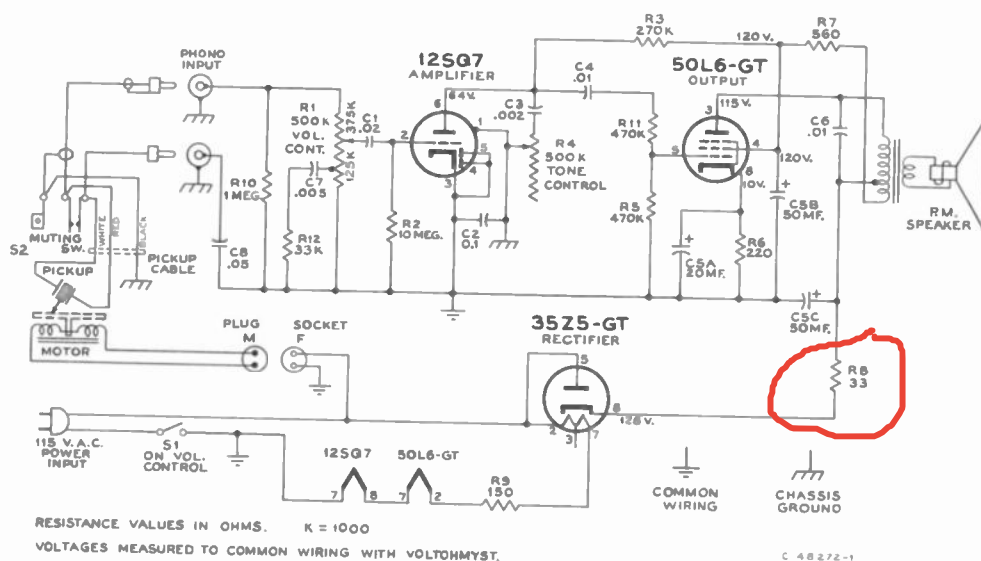
If pickup does not clear a full stack of records — turn screw slightly clockwise. If pickup touches records on record supports — turn screw slightly counterclockwise.

Removing Record Player

1. Remove the three screws mounting the motor board.
2. Lift the record changer, remove power cord, audio plug and lift assembly out.

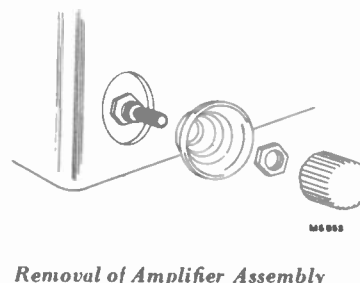
Removing Amplifier Assembly

1. Remove record player.
2. Remove two control knobs (just pull).
3. Remove control mounting nuts as shown in exploded view below.
4. Lift amplifier assembly out.

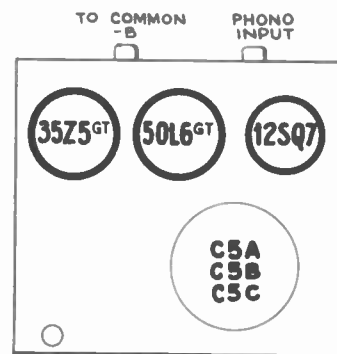


Schematic Diagram

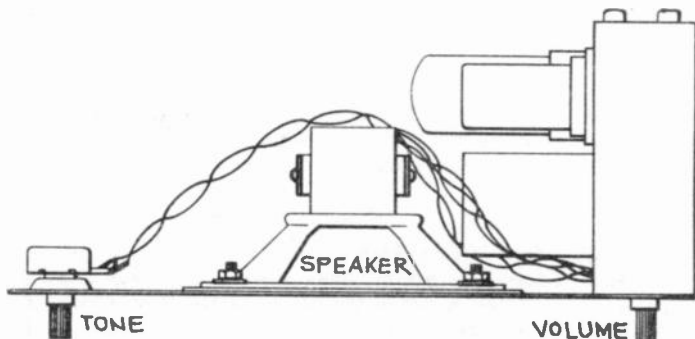
Note: In some instruments C8 and the muting switch S2 are omitted. These instruments will only have one plug connecting the amplifier.



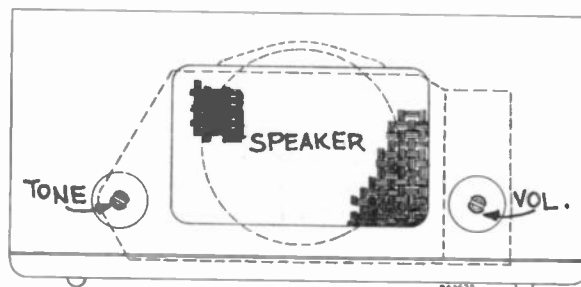
Removal of Amplifier Assembly



Top View Amplifier Chassis



Amplifier Speaker Assembly



Outline of Chassis Inside Cabinet