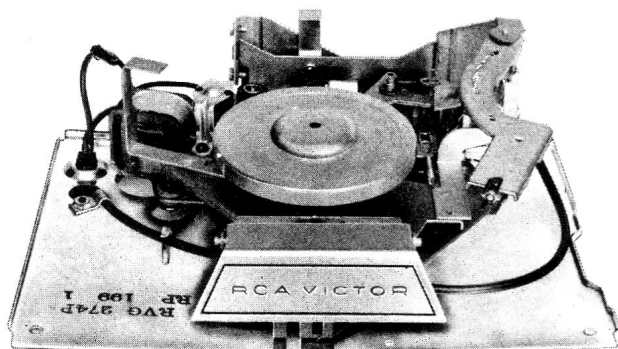




# RCA VICTOR



## Model RP-199

"Slide-O-Matic"

45 R.P.M. Manual Record Player

## SERVICE DATA

— 1955 No. 9 —

ISSUED BY

GENERAL SERVICE DEPARTMENT  
RCA VICTOR COMPANY, LTD  
MONTREAL, CANADA

### DESCRIPTION

The RP-199 "Slide-O-Matic" mechanism is a 45 rpm single play record player which is operated by simply sliding a record through a slot in the cabinet and then raising the play control.

Raising the play control starts the turntable rotating and automatically permits the pickup stylus to set on the record. Since the pickup arm is not accessible it is almost impossible to get out of adjustment.

The mechanism will stop automatically after the selection has been played and the record can easily be withdrawn. Should a person wish to stop the mechanism while in operation, simply push in on play control; withdraw the record after play control drops down.

The mechanism is made up of a lower and upper subassembly. The lower subassembly is provided with a power switch mounting bracket, pickup arm mounting bracket, pickup arm lever and a hinged support for the upper subassembly.

The upper subassembly provides the necessary facilities to mount the drive motor, turntable, idler wheel, trip lever, reject lever, latch, bumper, record stop and guides.

The turntable is driven by a conventional idler wheel assembly which gives additional speed reduction by coupling together two rubber drive wheels of different diameters.

### ADJUSTMENT

#### Tripping Adjustment

The mechanism is provided with a tripping adjustment screw that should be adjusted so the mechanism trips when the stylus is approximately  $1\frac{1}{4}$ " from the edge of the record center hole.

#### Pickup Inward Travel Limit

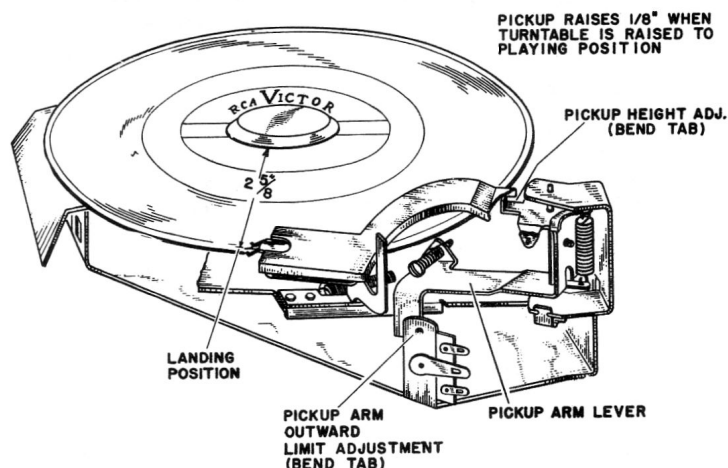
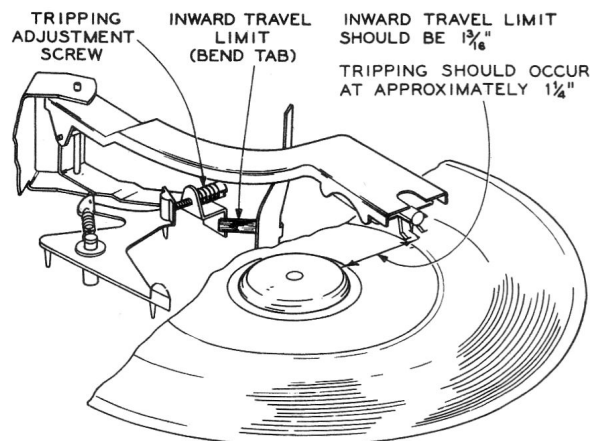
The inward travel of the pickup stylus should be limited to  $1\frac{3}{16}$ " from the edge of the center hole, so the stylus cannot enter the record label area. This limit is governed by bending of a metal tab.

#### Landing Adjustment

The contact between the pickup arm lever and a metal tab extending upward from the lower subassembly, limits the outward travel of the pickup arm. This outermost position coincides with the landing position of the pickup. Bend the tab so the pickup stylus lands approximately  $2\frac{3}{8}$ " from the record center hole (Halfway between the outer edge and the recorded section of a standard record).

#### Pickup Height Adjustment

The pickup height should be adjusted so the pickup raises approximately  $\frac{1}{8}$ " when raising the play control to move the record into playing position. Adjust to desired height by bending of a metal tab.



## CYCLE OF OPERATION

### Inserting Record

Slide a record over the turntable (thru slot in cabinet) until the record touches the stop, at which time the record will set on the turntable correctly.

### Starting Mechanism

Raise the play control (38) that is mechanically connected to the upper subassembly; the upper subassembly (which is pivoted at the rear of the lower subassembly) raises with it. This action causes a small arm extending from the bottom of the upper subassembly to actuate the power switch and start the turntable rotating.

As the play control is raised up, the record on the rotating turntable gently meets the pickup stylus in the starting groove and the record starts playing.

When the play control is raised fully the upper subassembly becomes latched in the up position.

### Record Plays

As the record plays, the pickup arm moves inward and the pickup arm lever (7) contacts and gradually rotates the trip lever (20) inward toward the turntable.

### Mechanism Trips

When stylus has moved into finishing grooves of record, the trip lever has rotated sufficiently to make contact with the trip finger extending from the bottom of the rotating turntable. As the two meet, considerable force is transmitted from the rotating turntable to the trip lever. As a result the reject lever (coupled to the trip lever) is actuated and the latch, holding the upper subassembly in the up position, is released.

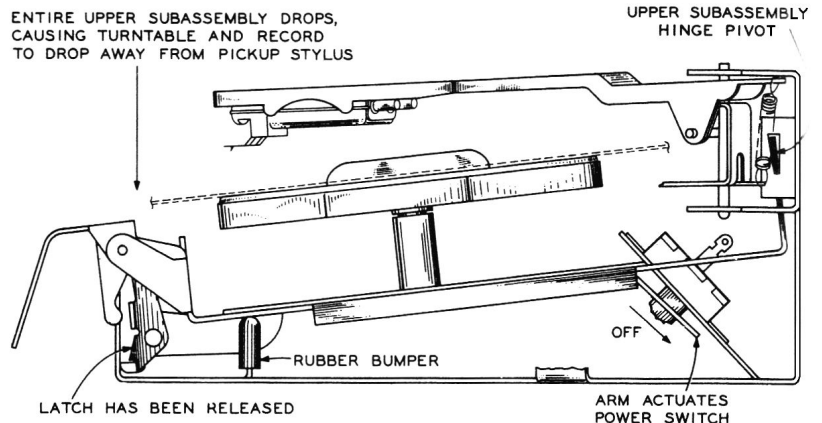
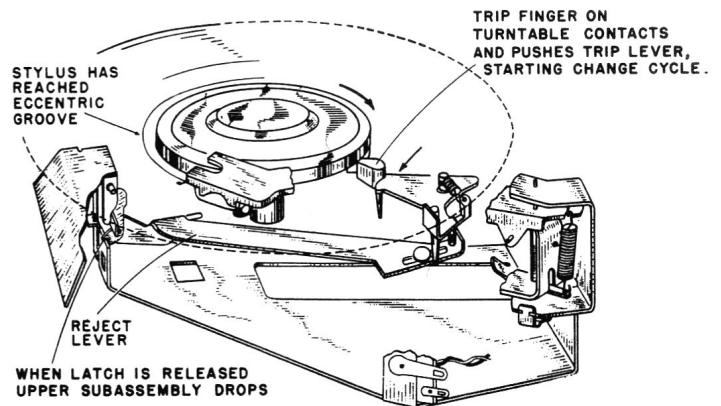
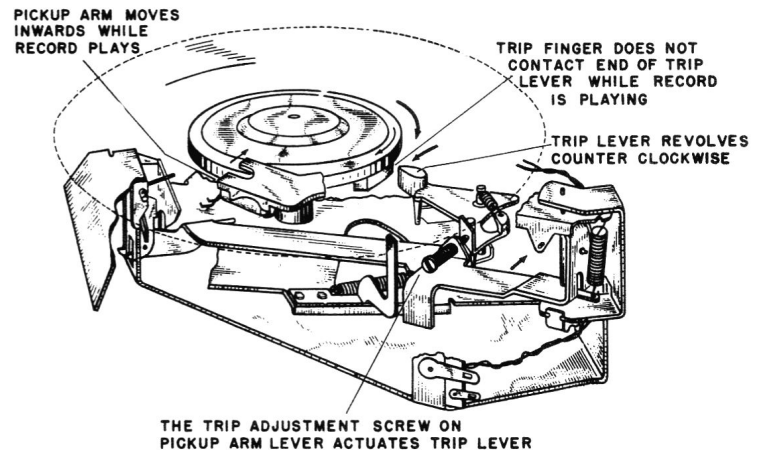
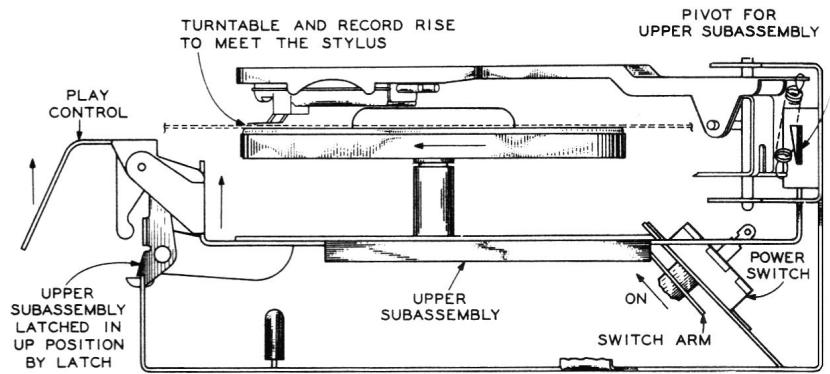
### Mechanism Stops Automatically

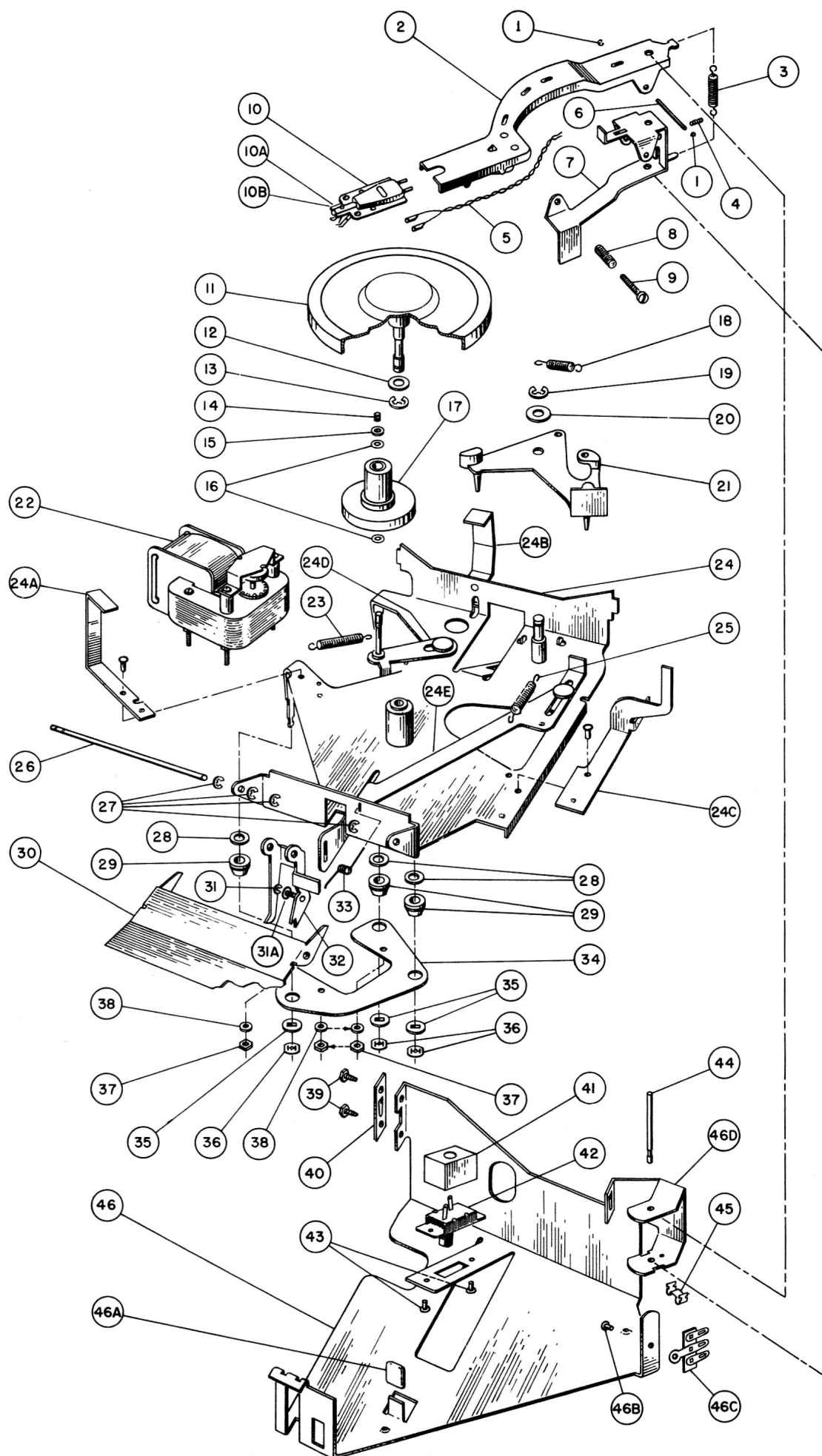
When the latch is released and the upper subassembly drops, the turntable and record drop away from the pickup stylus. At this time the power switch lever actuates the power switch and the mechanism stops.

The pickup arm is returned to its outermost position (landing position) as a result of a slight push derived from the reject lever return spring directing a force through the trip lever and pickup arm lever assemblies. There is however a tendency for the pickup arm to return to its outermost position because of its weight distribution and its slightly forward tilt.

### Remove Record

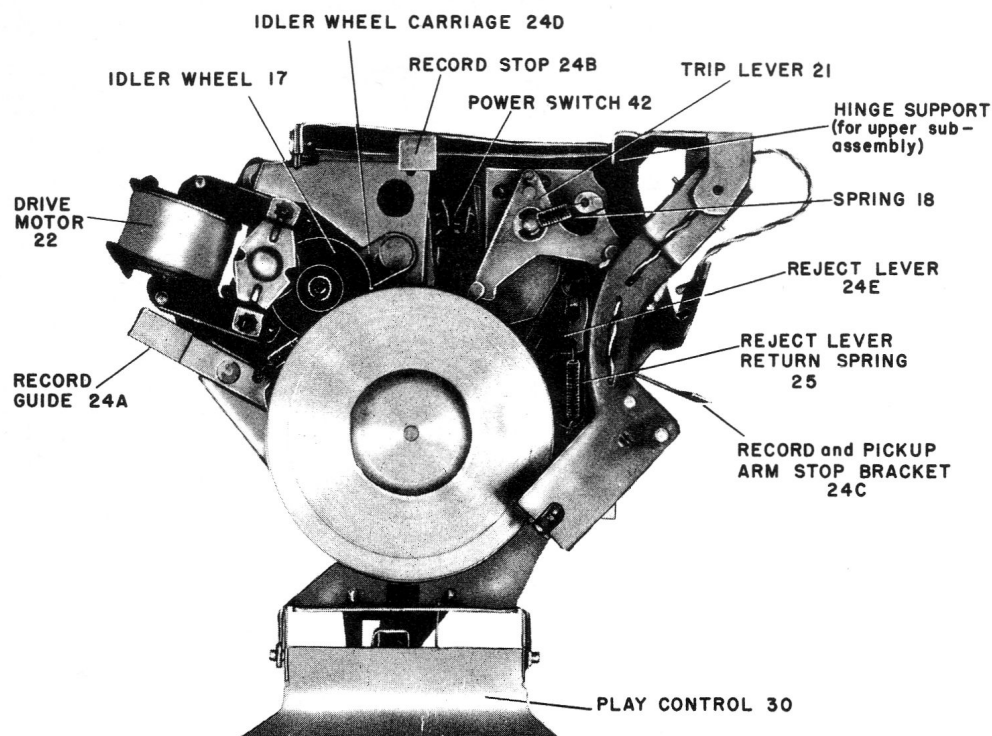
Simply pull the record forward out of the slot in the cabinet to remove it from the mechanism.

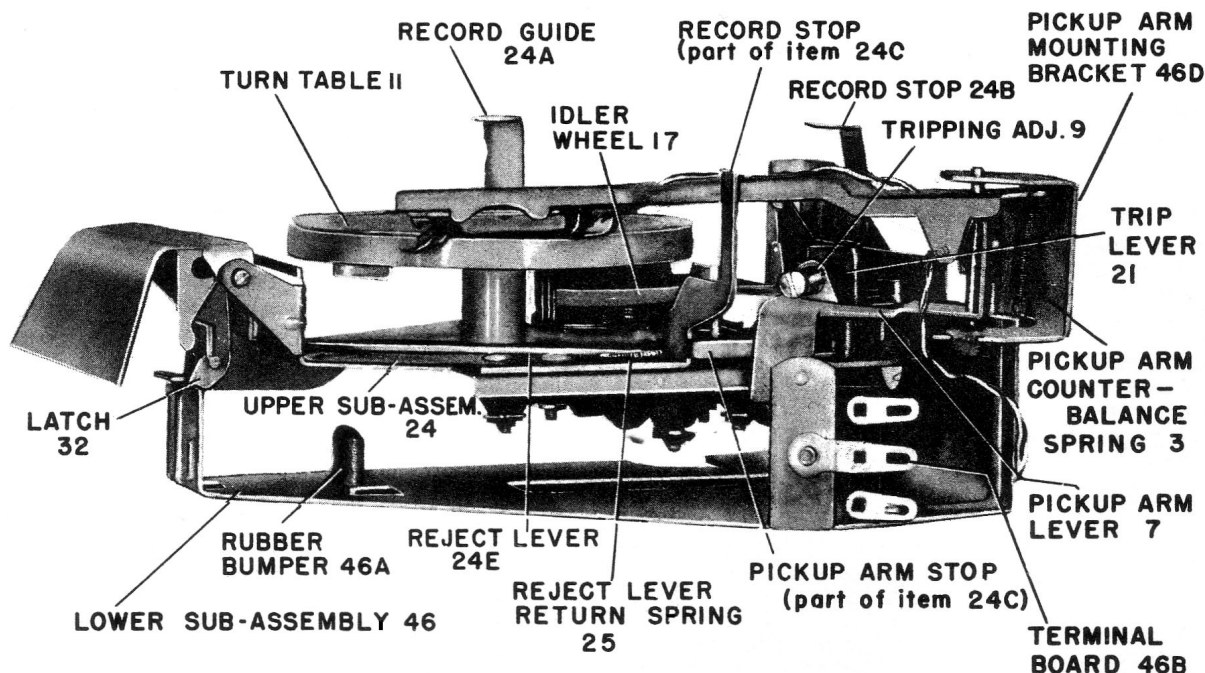




ILL. No.	STOCK No.	DESCRIPTION	ILL. No.	STOCK No.	DESCRIPTION
1	100174	Washer—Retainer, "C" washer for horizontal pickup arm shaft	24E	—	Lever—Reject lever
2	100172	Arm—Pickup arm complete with pickup retainer spring.	25	100192	Spring—Reject lever return spring
3	78698	Spring—Pickup arm counterbalance spring	26	100203	Shaft—Shaft for play control & latch assemblies
4	100200	Screw—Allen set screw for pickup arm horizontal mounting shaft	27	78652	Washer—"C" washer retainer for latch assembly shaft (4 Req'd)
5	100181	Cable—2 conductor pickup cable complete with contacts	28	100202	Washer—Flat washer over motor mounting grommet (3 Req'd)
6	100205	Shaft—Pickup arm horizontal mounting shaft	29	100175	Grommet—Rubber motor mounting grommet (3 Req'd)
7	100207	Lever—Pickup arm lever	30	100189	Latch—Latching assembly (Play Control)
8	100191	Spring—Lock spring for tripping adjustment screw	31	100173	Washer—"C" washer—retainer for latch assembly #32
9	—	Screw—Tripping adjustment screw	31A	100183	Washer—Flat washer for latch assembly
10	74067	Pickup—Crystal pickup cartridge complete with stylus	32	100180	Lever—Latch lever to hold upper subassembly in play position
10A	74230	Hardware—Washer and nut to mount sapphire assembly	33	100182	Spring—Play control tension spring
10B	74068	Stylus—Replacement sapphire stylus and holder for crystal pickup	34	—	Plate—Motor mounting plate
11	100194	Turntable—Turntable complete with shaft	35	100184	Washer—Motor mtg. washer rectangular hole (3 Req'd)
12	100197	Washer—Flat washer for turntable shaft	36	100188	Nut—Speed nut for mounting motor assembly to upper subassembly
13	77586	Washer—"C" washer for turntable shaft	37	—	Nut—Hex nut for mounting motor to motor mounting plate (3 Req'd)
14	100199	Spring—Retainer sleeve for idler wheel	38	—	Lockwasher—Lockwasher for securing motor hex nuts (3 Req'd)
15	100196	Washer—Retainer washer for idler wheel	39	—	Screw—Self tapping screw for mounting hinge plate
16	100198	Washer—Flat washer for idler wheel (fiber) (2 Req'd)	40	100178	Plate—Hinge plate for upper subassembly
17	100176	Wheel—Idler wheel	41	—	Insulator—Switch cover
18	100190	Spring—Trip lever return spring	42	100185	Switch—Power switch complete with insulator (41) and rivets (43)
19	77586	Washer—"C" washer for trip lever shaft	43	—	Rivet—Switch mounting
20	100202	Washer—Flat washer for trip lever complete Ill. No's 29 & 34	44	100204	Shaft—Pickup arm vertical mounting shaft
23	100193	Spring—Idler wheel carriage assembly	45	100179	Bearing—Thrust bearing for pickup arm vertical mounting shaft
21	100195	Lever—Trip lever	46	100209	Plate—Lower subassembly plate complete with Ill. No's 41, 42, 43, 46A, 46B, 46C
22	100206	Motor Assembly—105/125 volts, 60 cycle tension spring	46A	100177	Bumper—Rubber bumper to cushion landing for upper chassis
24	100208	Plate—Upper subassembly plate complete with Ill. No's: 24A, 24B, 24C, 24D, 24E	46B	—	Board—Terminal board for resistor and pickup cable assembly
24A	—	Guide—Record guide			
24B	—	Stop—Record stop			
24C	—	Bracket—Pickup arm bracket			
24D	—	Lever—Idler lever assembly—carriage for idler wheel			

APPLY TO YOUR RCA DISTRIBUTOR FOR PRICES OF REPLACEMENT PARTS

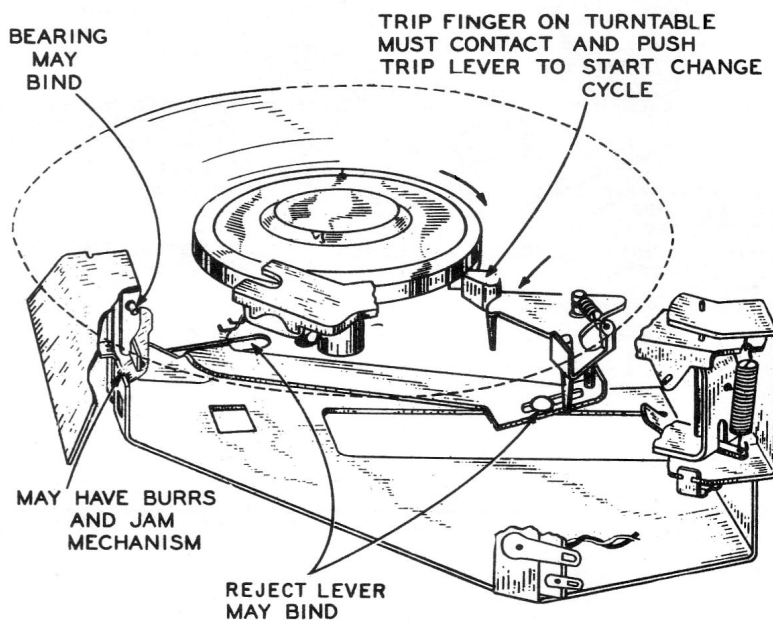
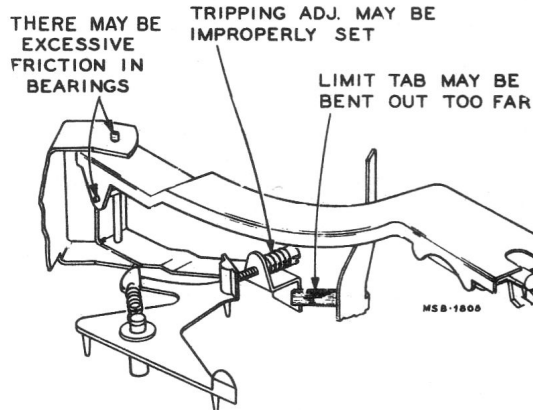




### SERVICE HINTS

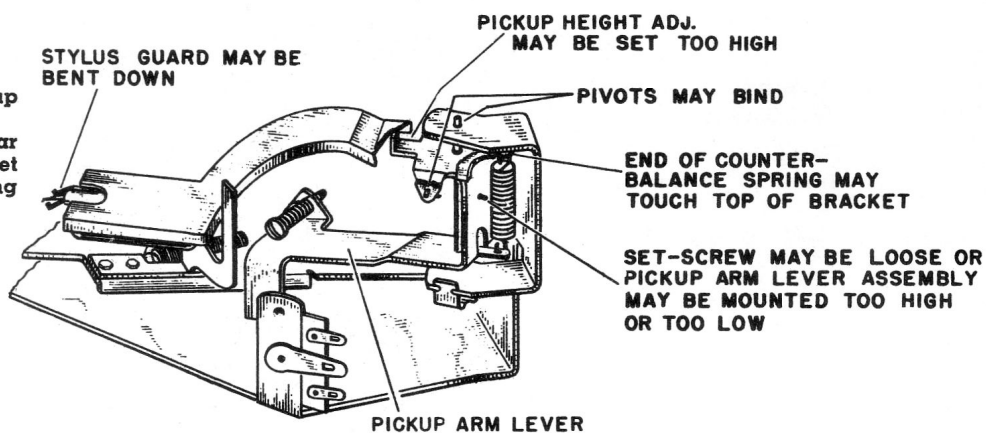
#### Fails To Trip

1. Trip adjustment improperly set
2. Limit tab bent out too far
3. Bind in trip slide
4. Defective trip lever
5. Bind in latch bearing
6. Burrs on latch



#### Skips Grooves

1. Bind in pickup shaft
2. Height adjustment tab bent up too high
3. Stylus guard bent down too far
4. Pickup arm vertical pivot set too high (counterbalance spring touches bracket)

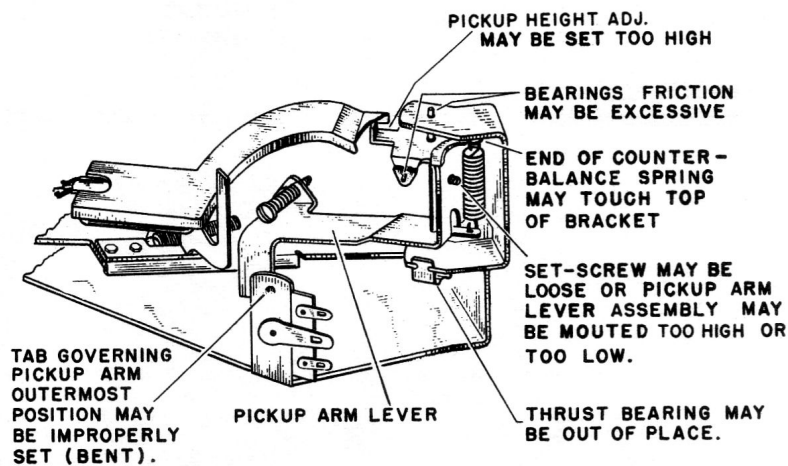




# SERVICE HINTS (Continued)

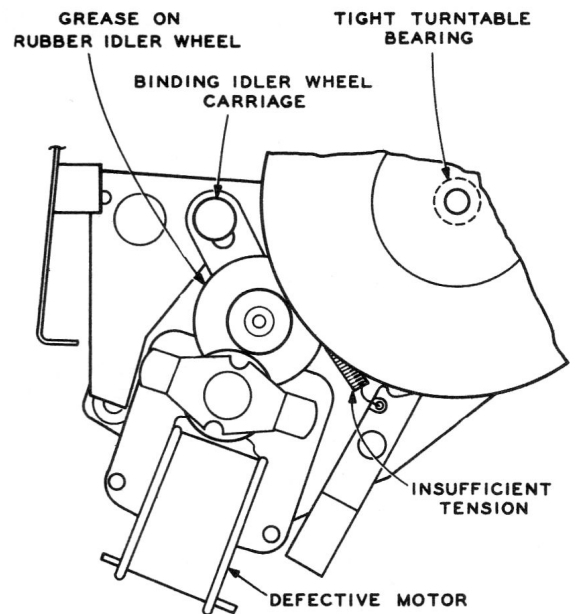
## Incorrect Landing

1. Outward travel limit tab bent to incorrect position
2. Excessive friction in vertical bearing of pickup arm
3. Thrust bearing may be out of place
4. Counterbalance spring touches pickup arm mounting bracket



## "Wow" and Slow Speed

1. Grease or oil on idler wheel
2. Bind in idler wheel carriage
3. Bind in turntable bearing
4. Insufficient tension in idler carriage spring
5. Excessive stylus pressure



"WOW" MAY ALSO BE CAUSED BY TOO MUCH STYLUS PRESSURE.  
(THIS WILL CAUSE PREMATURE RECORD WEAR)

## Play Control Will Not Latch

1. Bind in trip slide
2. Trip slide tension spring missing
3. Bind in latch pivot

