

RCA VICTOR

Model RP-199

"Slide-O-Matic"

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The mechanism will stop automatically after the selection has been played and the record can easily be withdrawn.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

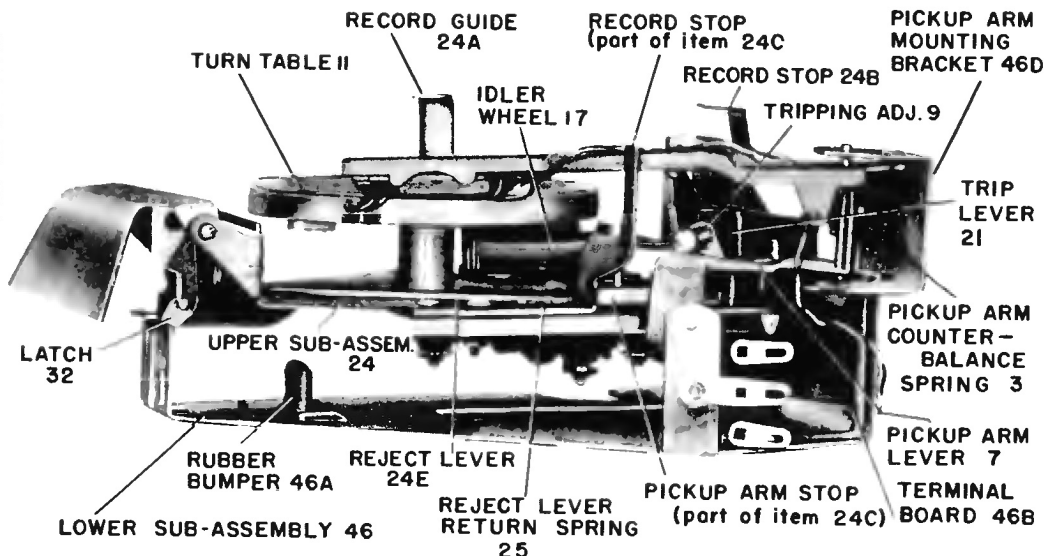
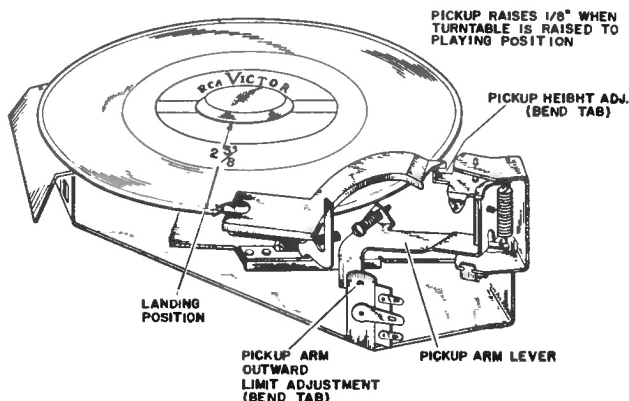
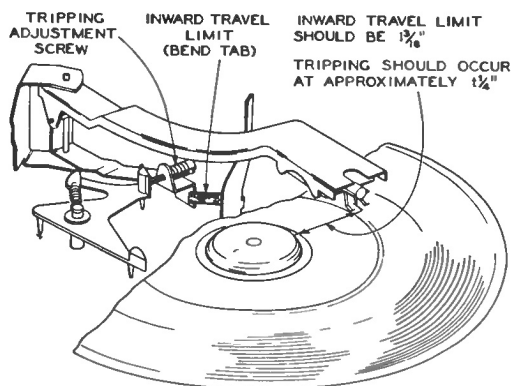
The inward travel of the pickup stylus should be limited to $1\frac{3}{16}$ " from the edge of the center hole, so the stylus cannot enter the record label area. This limit is governed by bending of a metal tab.

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 $2\frac{3}{4}$ " 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.



Continued
on the next
for pages.

RCA Victor Model RP-199 Record Player

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.

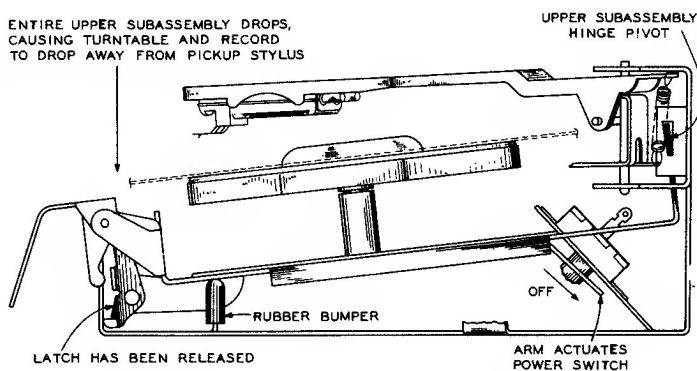
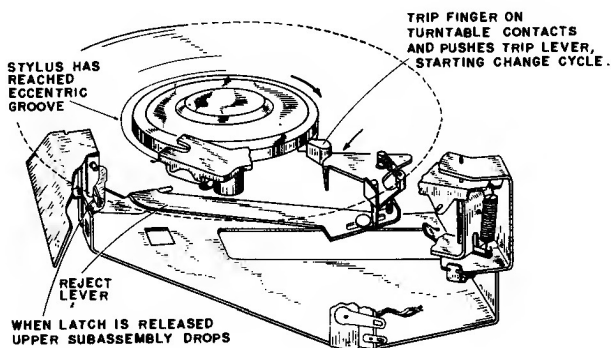
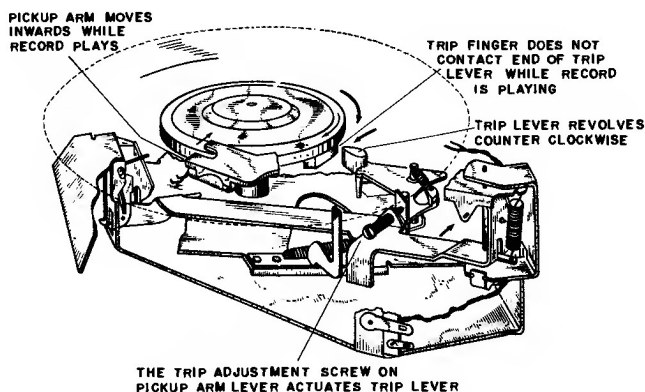
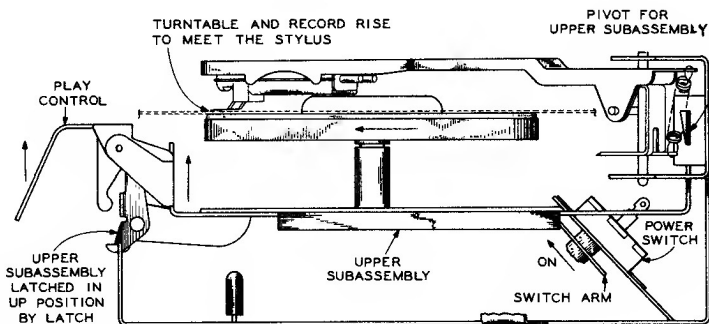
Mechanism Stops Automatically

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.

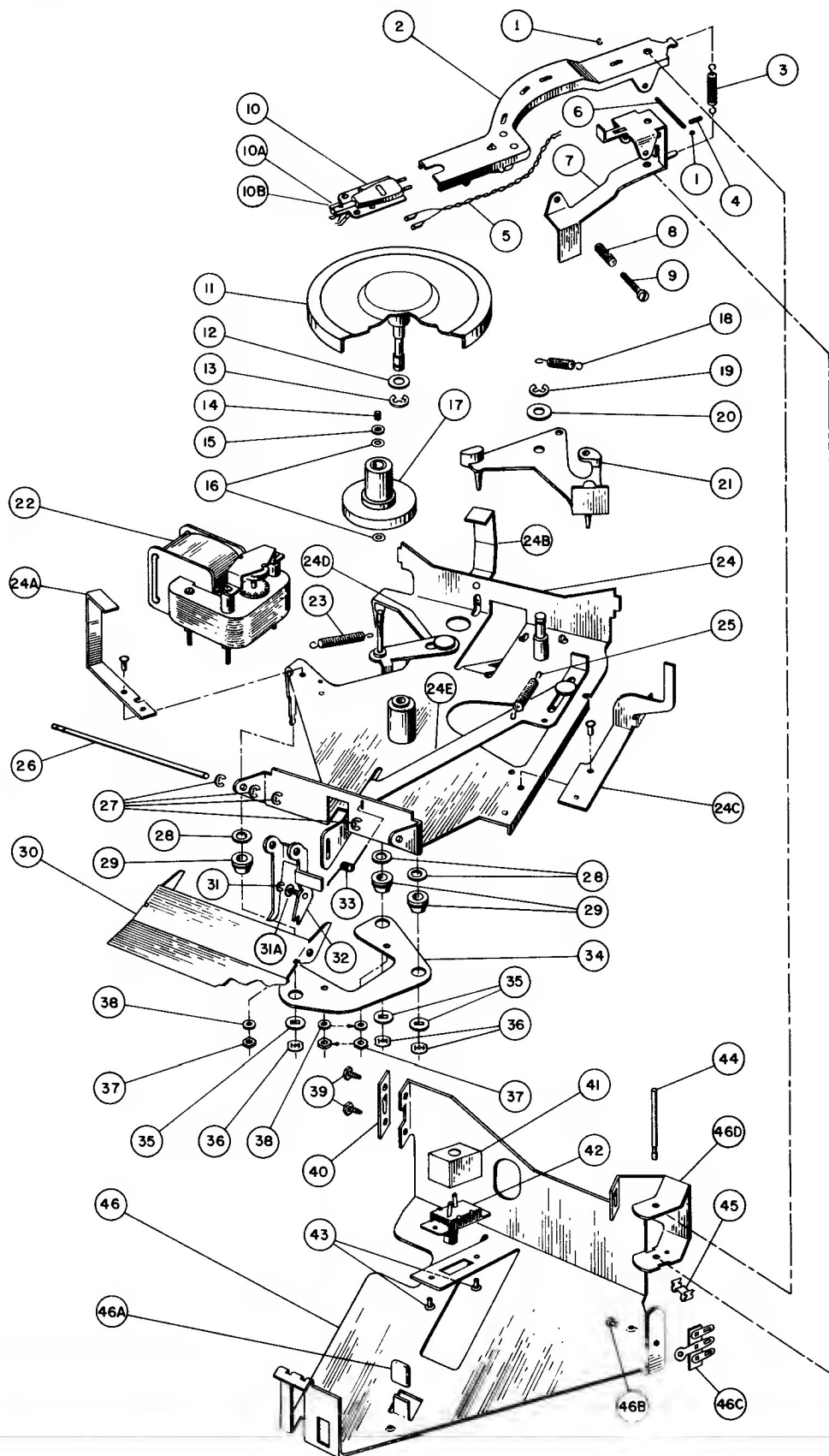
The pickup arm is returned to its outermost position (landing position) as a result of a slight push derived from the reject lever return spring directing a force through the trip lever and pickup arm lever assemblies. There is however a tendency for the pickup arm to return to its outermost position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



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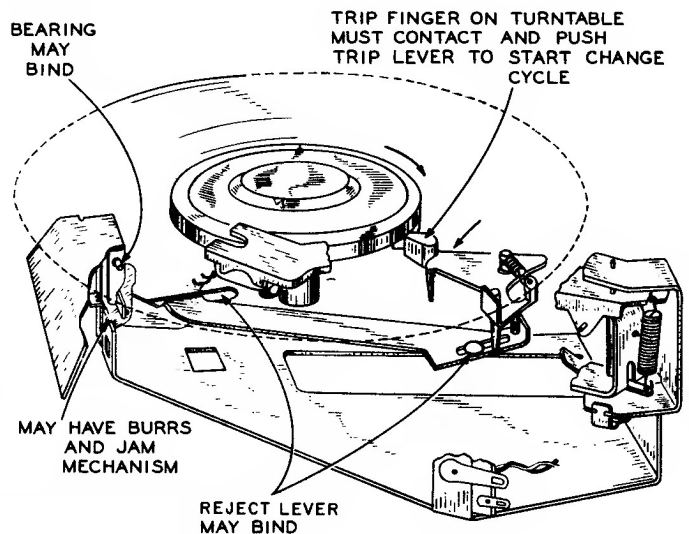
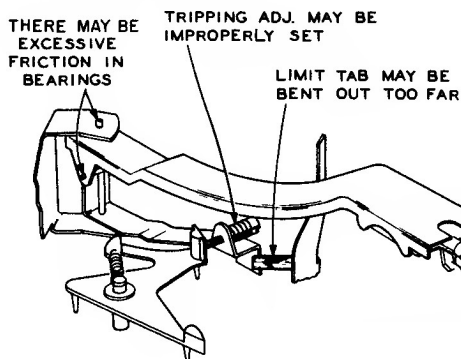
REPLACEMENT PARTS

| 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 |
| 21 | 100193 | Spring—Idler wheel carriage assembly | 45 | 100179 | Bearing—Thrust bearing for pickup arm vertical mounting shaft |
| 22 | 100206 | Lever—Trip lever | 46 | 100209 | Plate—Lower subassembly plate complete with Ill. No's 41, 42, 43, 46A, 46B, 46C |
| 23 | 100195 | 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 | | | |

SERVICE HINTS

Fails To Trip

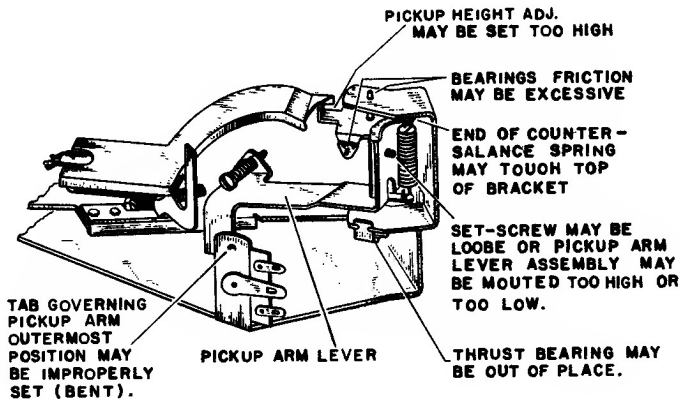
1. Trip adjustment improperly set
2. Limit tab bent out too far
3. Bind in trip slide
4. Defective trip lever
5. Bind in latch bearing
6. Burrs on latch



SERVICE HINTS (Continued)

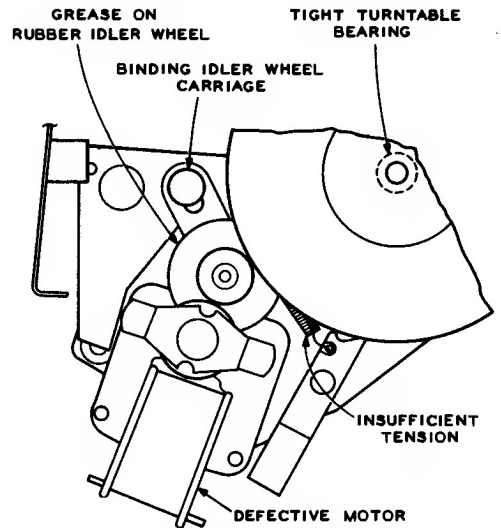
Incorrect Landing

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

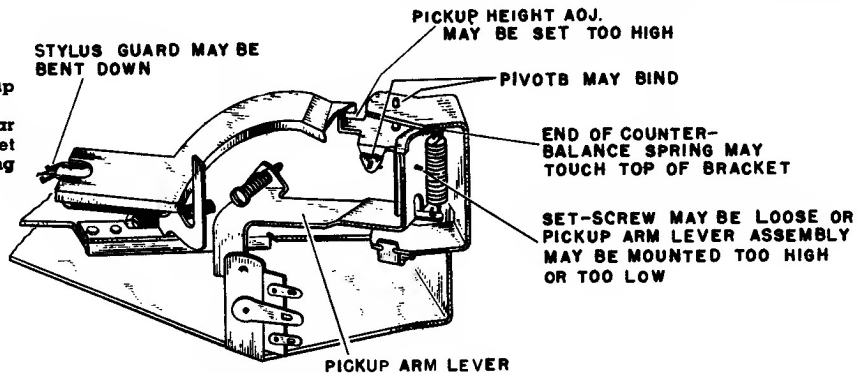
1. Grease or oil on idler wheel
2. Bind in idler wheel carriage
3. Bind in turntable bearing
4. Insufficient tension in idler carriage spring
5. Excessive stylus pressure



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

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)



Play Control Will Not Latch

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

