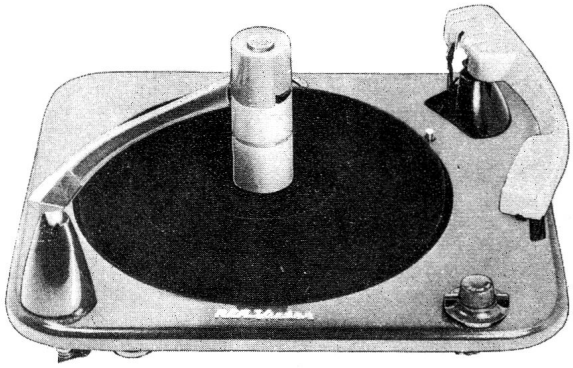

RCA VICTOR

124330 & 930800 Series

Automatic Record Changer

SERVICE DATA

—1953 No. 24—

HOME INSTRUMENT SERVICE DIVISION
RCA VICTOR COMPANY, LTD.
MONTREAL, CANADA

SPECIFICATIONS

Turntable speed ..... 33⅓, 45 or 78 r.p.m.
Record capacity ..... Up to 14 seven-inch or 12 ten-inch or 10 twelve-inch or 10 ten- and twelve-inch intermixed

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CONTROLS

The record changer has a dual control on the motorboard and a stylus selector control on the pickup arm. The inner control (circular knob) is the OFF-ON-REJECT control. Turning this knob to the center position energizes the motor and starts the turntable, when turned to the right (clockwise) it starts the mechanism into complete automatic operation. The mechanism will shut off automatically after the last record has been played but can be shut off manually by turning this knob to the left (counter-clockwise).

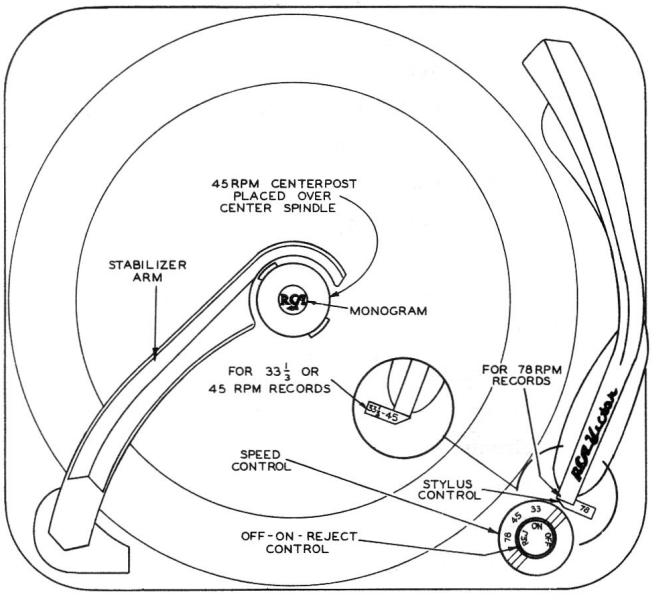
The outer control (double ended lever) is the speed control. It has three normal positions, "33", "45", "78" to select the turntable speed desired and a neutral position (midway between "45" and "78"). The control should be turned to this neutral position if the changer is not expected to be in use for an extended period of time.

The stylus control has two normal positions (right and left) and one shipping position (lever pointing up). When playing 33⅓ or 45 r.p.m. records the lever is turned so that "33-45" is visible on the TOP of the lever; likewise for 78 r.p.m. records "78" should be visible on the TOP.

On 930800-4 and -5 the stylus control lever is on the underside of the pickup arm; white dot indicates "78 r.p.m." stylus, and red dot indicates "33⅓ or 45 r.p.m." stylus.

The removable centerpost is for use with 45 r.p.m. records having the large centerhole. It must be placed over the center spindle with the "RCA" trademark monogram FACING to the FRONT.

To load or remove records, the record stabilizer is lifted and turned off-side. After loading it is turned to the center where it rests on top of the stack of records.



Controls

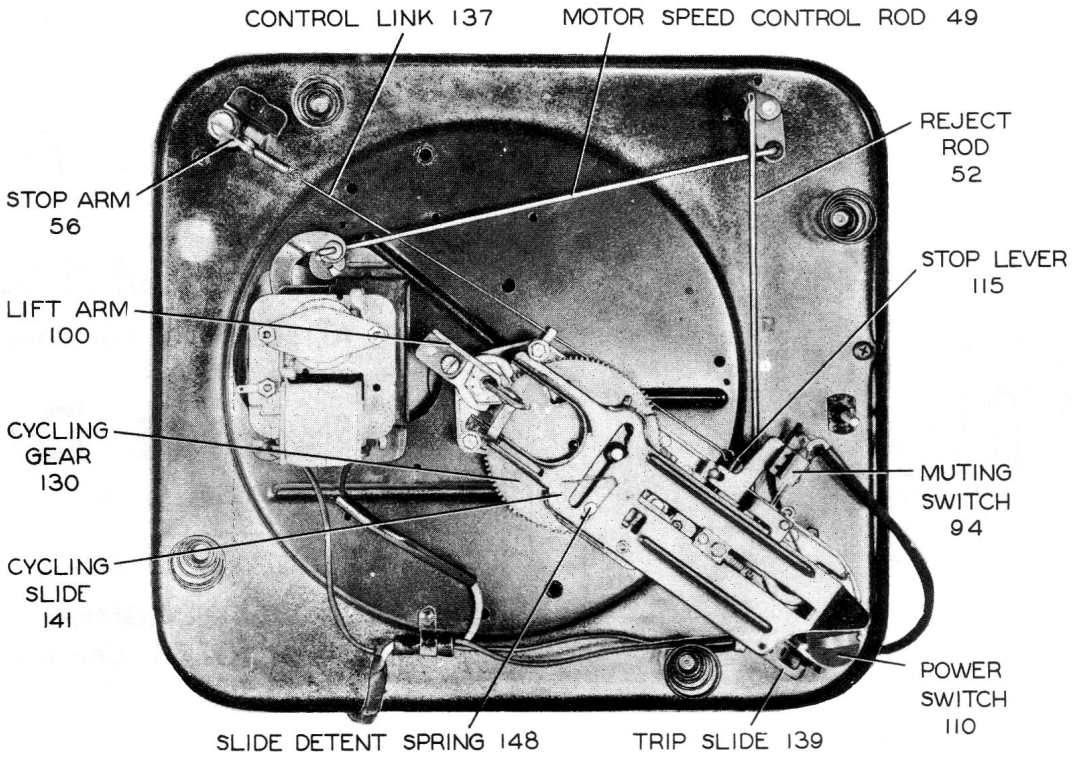


Figure 1—Bottom View

LUBRICATION

The mechanism is properly lubricated when it leaves the factory, additional lubrication should not be necessary for a long period of time. If the mechanism has unusual use or high operating temperatures, it may be necessary to lubricate more frequently.

It is suggested to use Lubricant S-5262 on:

1. Pickup arm pivot.
2. Points of sliding contact with cycling slide, including:
   a. elevating rod
   b. lift arm
   c. roller on cycling cam
   d. pickup arm return lever
   e. pickup arm lever
3. End of selector lever contacting tab on cycling gear.
4. Turntable thrust bearing.
5. Sparingly on a trip slide.
6. All points of sliding contact.

Apply a small quantity of light machine oil to:

1. Trip pawl pivot.
2. Cycling engagement pawl pivot.
3. Bearing of record stabilizer.
4. Elevating rod.
5. Bearing of lift arm.
6. Bearing of reject lever.
7. Bearing of stop lever.
8. Bearing of cycling gear.
9. Motor bearings.

NOTE: Keep oil or grease away from all rubber parts.

STYLUS REPLACEMENT

PICKUP NO. 77779

The styli are held in position by small hex nuts (one for each stylus). Remove the nut and push threaded end of stylus through the cartridge.

CAUTION:

The internal element of the pickups can be fractured by use of excessive force. It is advisable to grip stylus with pliers instead of holding pickup case while removing nuts.

PICKUP NO. 78748

The dual stylus is mounted on the end of a small diameter extension of the control lever. The control lever is held in position by a formed spring. The small diameter part of the control lever assembly rests in a saddle. To remove control lever and stylus assembly, press on the control lever in a direction to lift the small diameter extension out of the saddle and then pull sideways out of the formed spring.

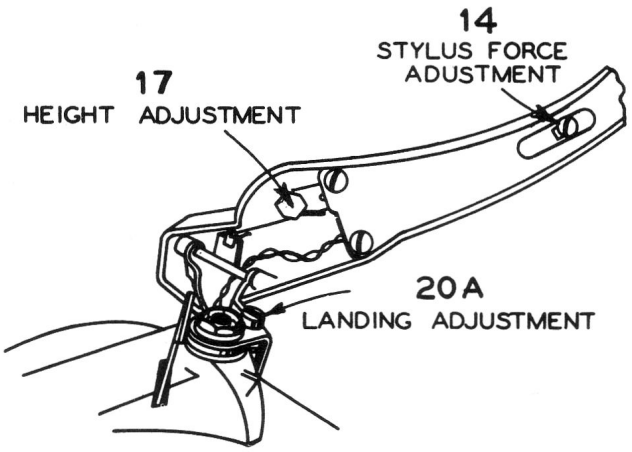


Figure 2—Adjustments

ADJUSTMENTS

LANDING ADJUSTMENT

Only one landing adjustment is necessary. The landing position of the stylus is adjusted by means of the eccentric stud (20A), mounted on the pickup arm support bracket. When adjusted for correct landing on one size of record, the landing position for other sizes of records is automatically corrected.

PICKUP ARM HEIGHT ADJUSTMENT

The pickup arm height during cycle is adjusted by means of the hex head screw (17), located in the pickup arm.

Turn control knob to "REJ" and rotate turntable by hand until arm has risen to its maximum height. Adjust screw so that stylus is 1⅜" above turntable.

STYLUS FORCE ADJUSTMENT

Stylus force should be 7½ to 9½ grams. Loosen screw (14), and move slide until the correct force is obtained.

TRIPPING

The tripping method used in this mechanism is a combination of velocity and fixed diameter. Velocity tripping is effective between 4¾" and 3¼" diameters, when the stylus moves inward 1/8" or more per revolution of the turntable. No adjustment is required.

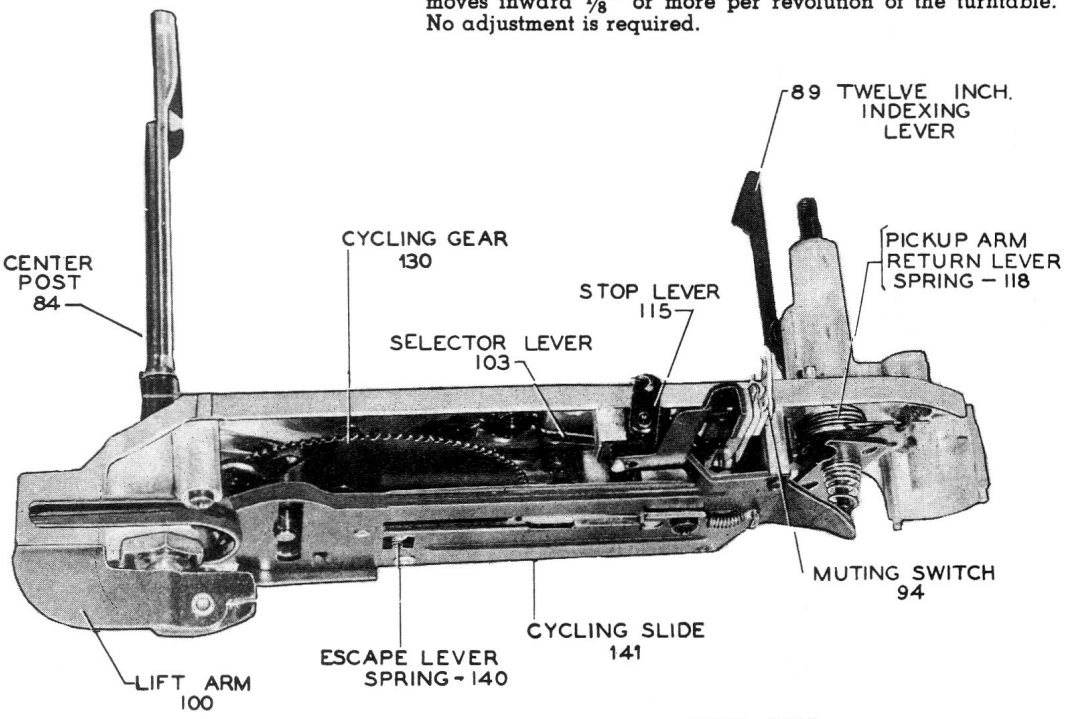


Figure 3—Slide Assembly (Complete)

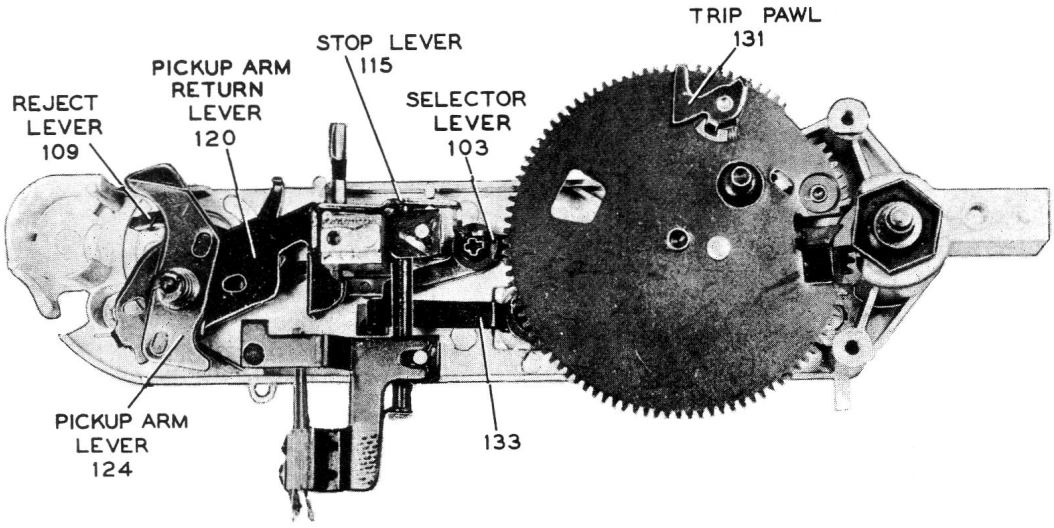


Figure 4—Slide Assembly (View with Slide Removed)

CYCLE OF OPERATION

TURN ON-OFF-REJECT CONTROL KNOB TO REJECT POSITION & RELEASE

1. The on-off-reject control knob, through the linkage of the function control lever (54), reject rod (52), and reject lever (109) actuates the power switch and the trip slide (139).
2. The closing of the power switch energizes the motor and starts the turntable rotating.

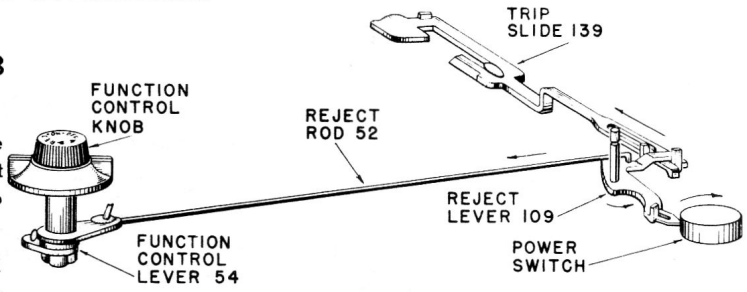


Figure 5

CYCLING STARTS

1. The trip slide (139) in its movement contacts the lower trip pawl (131) and moves both the lower and the upper trip pawls which are linked together. The movement of the upper trip pawl (129) actuates the cycling engagement pawl (130A) sufficiently to cause it to engage with the projection on the hub of the rotating turntable.
2. The contact between the cycling engagement pawl (130A) and the projection on the turntable hub gives the necessary push for the teeth in the cycling gear (130) to engage the teeth in the shaft of the turntable and thus start the change cycle.

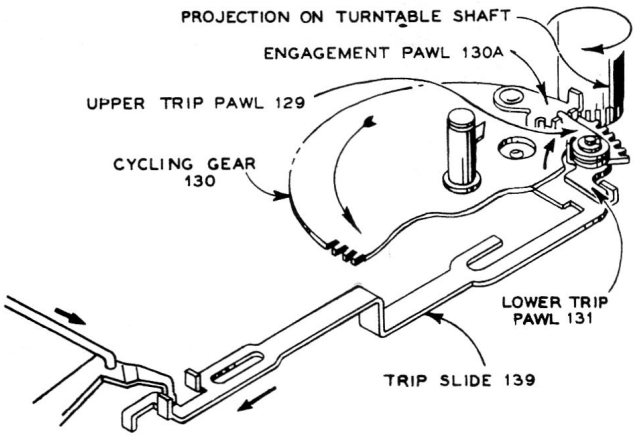


Figure 6

PICKUP ARM RISES & MOVES OUTWARD

1. As the cycling gear rotates, the stud (130B) mounted on the underside of the gear, rides inside a slot cut in the cycling slide (141). The rotation of the cycling gear pushes the cycling slide back, and later, allows it to return.
2. As the slide moves away from the center post, an incline formed on the end of the slide causes the elevating rod (123) to rise and lift the pickup arm.
3. At the same time that the elevating rod is pushed upward, the pickup arm lever (124) is also pushed up by the force transferred through the spring (125). The raising of the pickup arm lever causes the two formed dimples in the pickup arm lever to engage the two holes in the pickup arm return lever (120), and couple them together. This directs the movement of the pickup arm during change cycle.
4. The cycling slide continues to move away from the center post until the formed end of the slide pushes against the pickup arm return lever. This relieves the force of pickup arm return lever against stop lever (115). This permits the stop lever return spring (114) to return the stop lever to the normal (raised) position.
5. The end (115A) of stop lever (115) pushes trip slide back ready for the next change cycle.

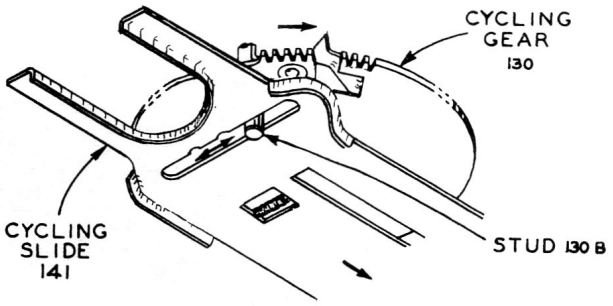


Figure 7

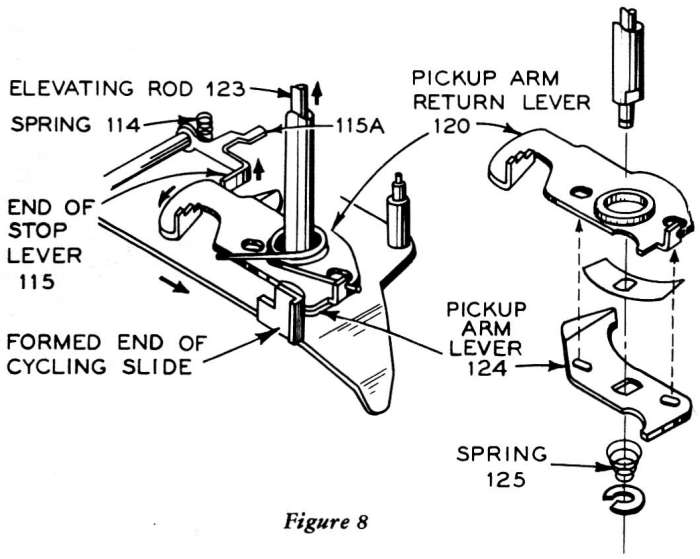


Figure 8

RECORD DROPS TO TURNTABLE

1. After the cycling slide has raised the pickup arm and is moving it outward, the lift arm (100) is actuated by the cycling slide.
2. The lift arm pushes up on the shaft extending from the bottom end of the center post. This shaft actuates the push-off mechanism inside the center post, and the record drops to the turntable.

SELECTION OF LANDING POSITION

1. During rotation of the cycling gear the riveted tab (130C) near the center of the gear, pushes down on one end of the selector lever (103) (which is pivoted in the center) thereby raising the other end causing it to latch on the end (89A) of the twelve-inch indexing lever (89).
2. The mechanism is thus automatically indexed to land on a ten inch record unless the selector lever (139) is disengaged from the end of the twelve-inch indexing lever.

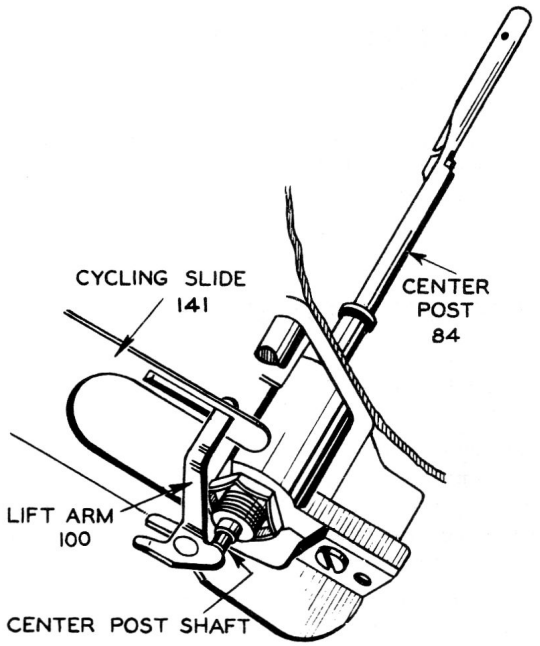


Figure 9

7 Inch Indexing:

The ten-inch indexing lever (133) is pivoted in the center and one end (133A) is held (by tension of spring) against the top surface of the cycling gear. A hole in the gear will permit the end of the indexing lever to lower and thus raise the opposite end of the lever. A projection (133B) on the lever will at the same time lift the selector lever, permitting it to engage the top step of the pickup arm return lever (120). This position allows the pickup arm to land on the edge of the seven-inch record.

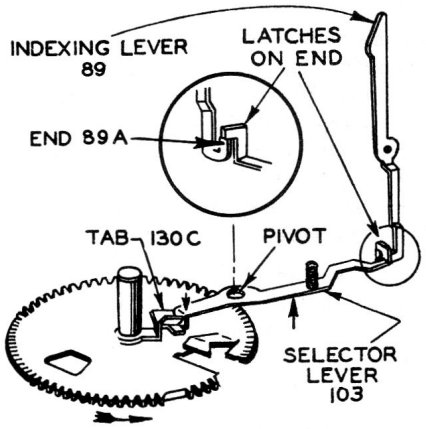


Figure 10

10 Inch Indexing:

The ten-inch indexing lever will lift the selector lever unless a record on the turntable contacts the rubber tip of the ten-inch indexing lever (133), and prevents it from rising. When the lever is prevented from rising, the selector lever will remain in position to engage the middle step of the pickup arm return lever.

12 Inch Indexing:

When a twelve-inch record drops to the turntable, it strikes the twelve-inch indexing lever (89) and forces it backward. This disengages the end of the selector lever (103) from the edge of the indexing lever and permits the selector lever to drop down into the recess (89B) at the end of the indexing lever. This position of the selector lever causes it to engage the bottom step of the pickup arm return lever (120) and will push the pickup arm to land on the edge of a twelve-inch record.

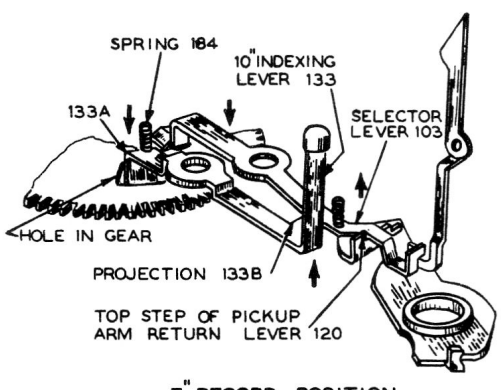


Figure 11

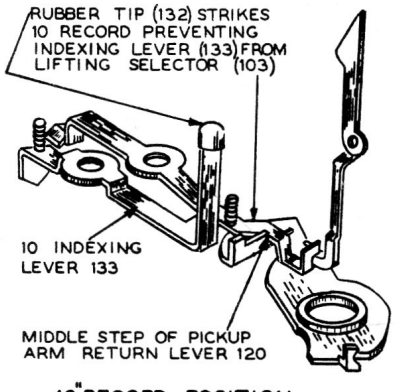


Figure 12

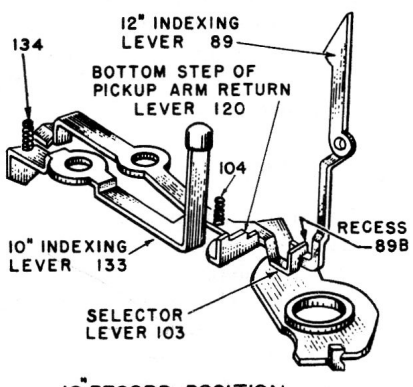


Figure 13

CYCLE OF OPERATION (Cont.)

PICKUP MOVES IN FOR LANDING

1. As the cycling slide returns, the formed end (141A) on the slide moves back, permitting the pickup arm return lever spring (118) to expand. This causes the pickup arm return lever (120) to move the pickup inward until the pickup arm return lever comes against the selector lever (103). The pickup is now directly above the point of landing.

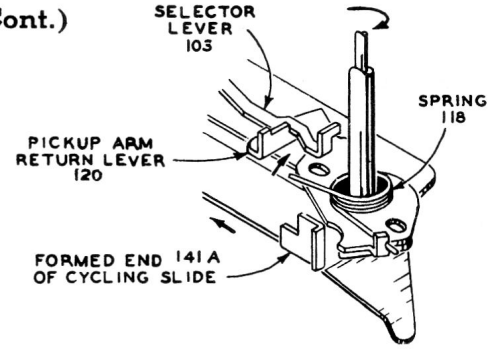


Figure 14

PICKUP LANDS ON RECORD

1. The elevating rod (123) slides down the incline on the slide permitting the pickup to land on the start of the record.
2. A cut-away portion (130D) of the teeth of the cycling gear stops the return movement of the slide before completion of cycle. The stud (130B) in the cycling gear rests in the first indentation (offset from center) of the slide to stabilize it in this position.
3. Just before the cycling gear completes cycle, a small tab (141C) on cycling slide makes contact with lower trip pawl (131) thereby moving upper trip pawl and cycling engagement pawl back. This prevents the re-engagement with the projection on the turntable hub which would start a new change cycle.
4. On the next revolution the projection on the hub of the turntable engages with a formed lug (130E) on the outer edge of the cycling gear. The cycling gear will then rotate until the second cut-away portion (130F) of the teeth again stops the movement of the slide, this time at completion of the cycle. The stud on the cycling gear rests in the second indentation (center) of the slide to stabilize it in this position.

   The purpose of this pause in the cycle is to allow the pickup to enter the starting groove of the record before the full effect of the feed-in spring is applied to the pickup arm.

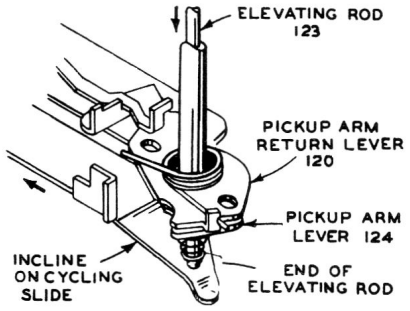


Figure 15

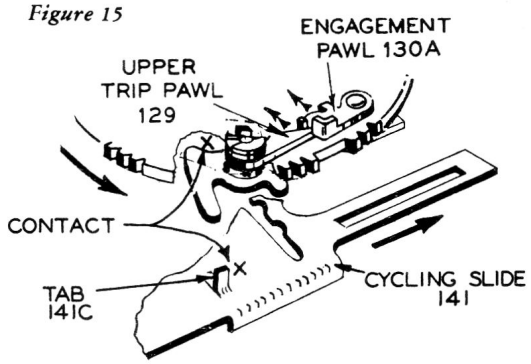


Figure 16

RECORD PLAYS

1. As the record plays, the pickup moves in toward the center of the record carrying the trip slide along. This is due to the contact made with the pickup arm lever which turns with the pickup arm pivot.
2. The trip slide contacts the lower trip pawl, causing both (lower and upper) trip pawls and the cycling engagement pawl to move slightly with each revolution of the record. This slight movement of the pawls is reversed each time the projection on the turntable hub comes in contact with the cycling engagement pawl. The back movement is taken up in the friction connection between the upper and lower trip pawls.

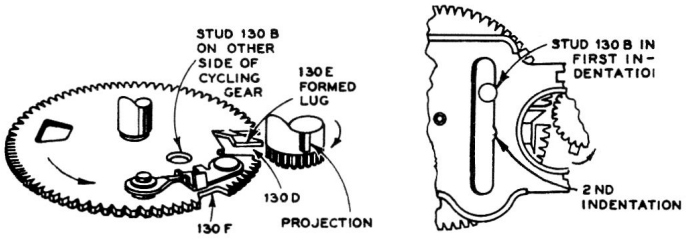


Figure 17

TRIPPING

This slight movement of the pawls continues as long as the pickup moves in at a constant rate of speed. When the stylus leaves the recorded section of the record, the rapid acceleration results in rapid movement of the cycling engagement pawl. The cycling engagement pawl assumes a position in which the projection on the turntable hub makes a positive contact and the cycling cam is pushed sufficiently for engagement between the teeth of the cycling gear and the teeth on the turntable hub. This starts change cycle.

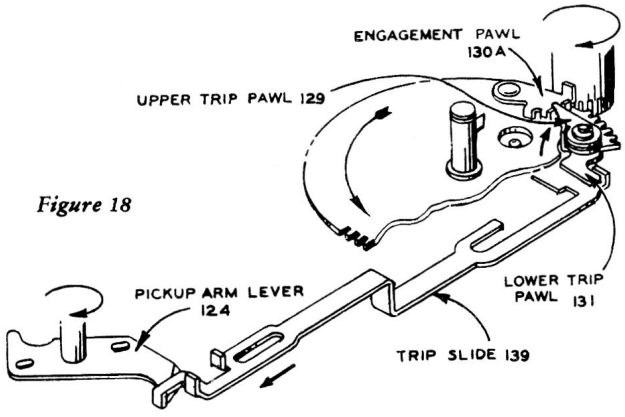


Figure 18

MECHANISM STOPS AFTER PLAYING OF LAST RECORD

After the mechanism has been tripped it again follows the preceding sequence of cycling and playing the records until the last record of the stack has been played.

1. As the last record of the stack drops to the turntable the record stabilizer drops and actuates the stop arm (115) This stop arm in turn applies force to stop lever (115) through spring (115B) and connecting wire (137). At this moment the cycling slide is in the outermost position (away from centerpost) and the end (115B) of stop lever is forced against escape lever (141B) which prevents it from lowering any further.
2. As the cycling slide returns to the out of cycle position the end (115B) of stop lever slides off the escape lever permitting the end to extend down through the slot in the cycling slide. At this time the pickup arm return lever has rotated too far to be blocked by the other end (115C) of the stop lever and the pickup is permitted to land on the record.
3. After the last selection has been played the mechanism again goes into change cycle, and the cycling slide moves into its outermost position. At this moment the force which has been applied to the stop lever from the record stabilizer causes the end (115B) to lower, thus extending further through the cycling slide. The other end (115C) of stop lever raises and blocks the pickup arm return lever which at this moment is held back by the cycling slide.
4. As the cycling slide moves back, it carries the raised trip slide along until finally the formed end (139A) of the trip slide pushes reject lever which in turn actuates the power switch (110). This removes the power from the drive motor and mechanism stops.
5. The elevating rod (124) lowers the pickup arm to the rest.

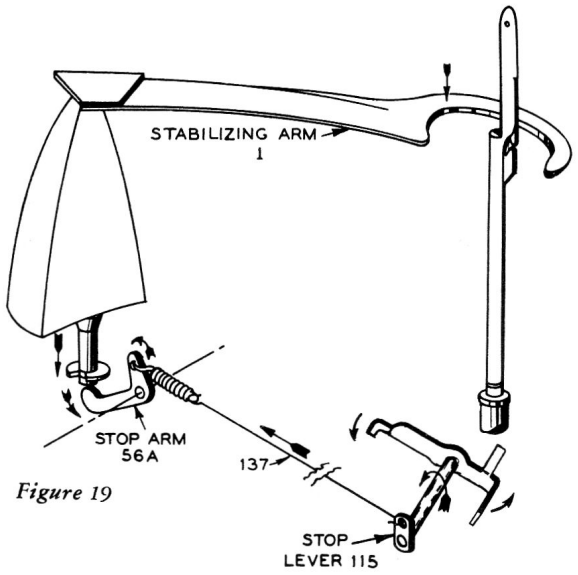


Figure 19

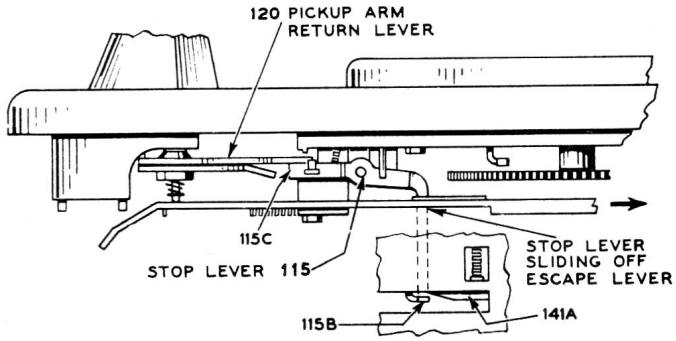


Figure 20

45 R.P.M. CENTERPOST

For playing of 45 r.p.m. records which have a 1½ inch center hole, the 45 r.p.m. centerpost is placed over the ¼ inch centerpost. The push-off finger (84A), which is part of the ¼ inch centerpost actuates the slide (24), this slide actuates the separator knives (25A & 25B) and separator shelves (26A & 26B) of the 45 r.p.m. centerpost.

As the push-off finger moves up it engages a finger (24B) of the slide (24) in the 45 r.p.m. centerpost; and, as it moves horizontally, it pushes the slide against the tension of the slide return spring (27). A projecting pin (24C) on the bottom of the slide engages both shelves and both knives and forces them to turn on their pivots. The shelves are pivoted near their center and are caused to retract as the slide is forced to move by the push-off finger. The knives are pivoted at their ends and are forced outward at the same time that the shelves are retracted. A formed spring (28) returns the shelves to the extended position.

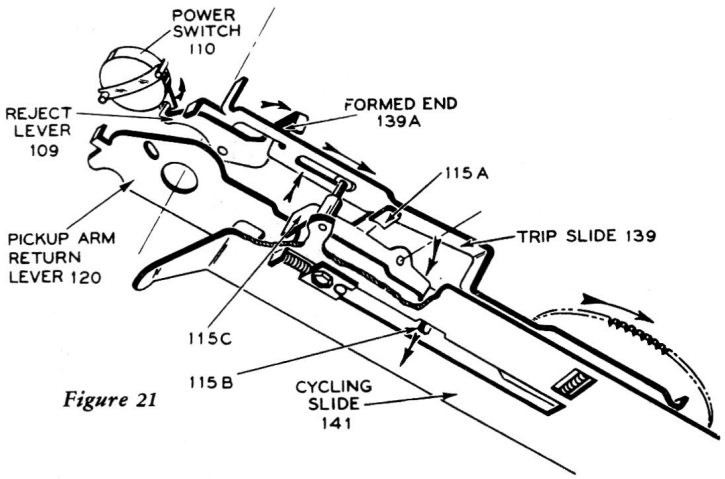


Figure 21

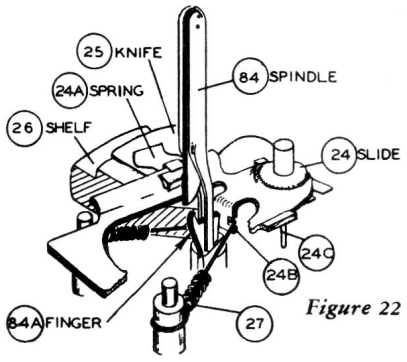
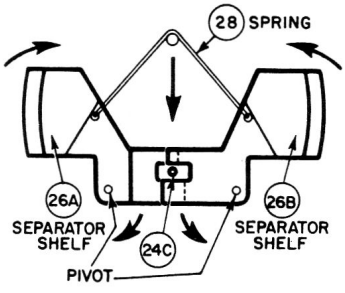


Figure 22

Figure 23



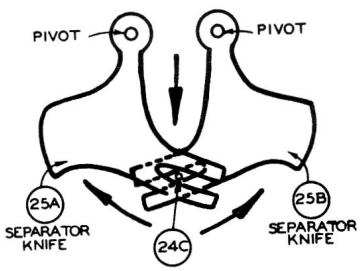


Figure 24

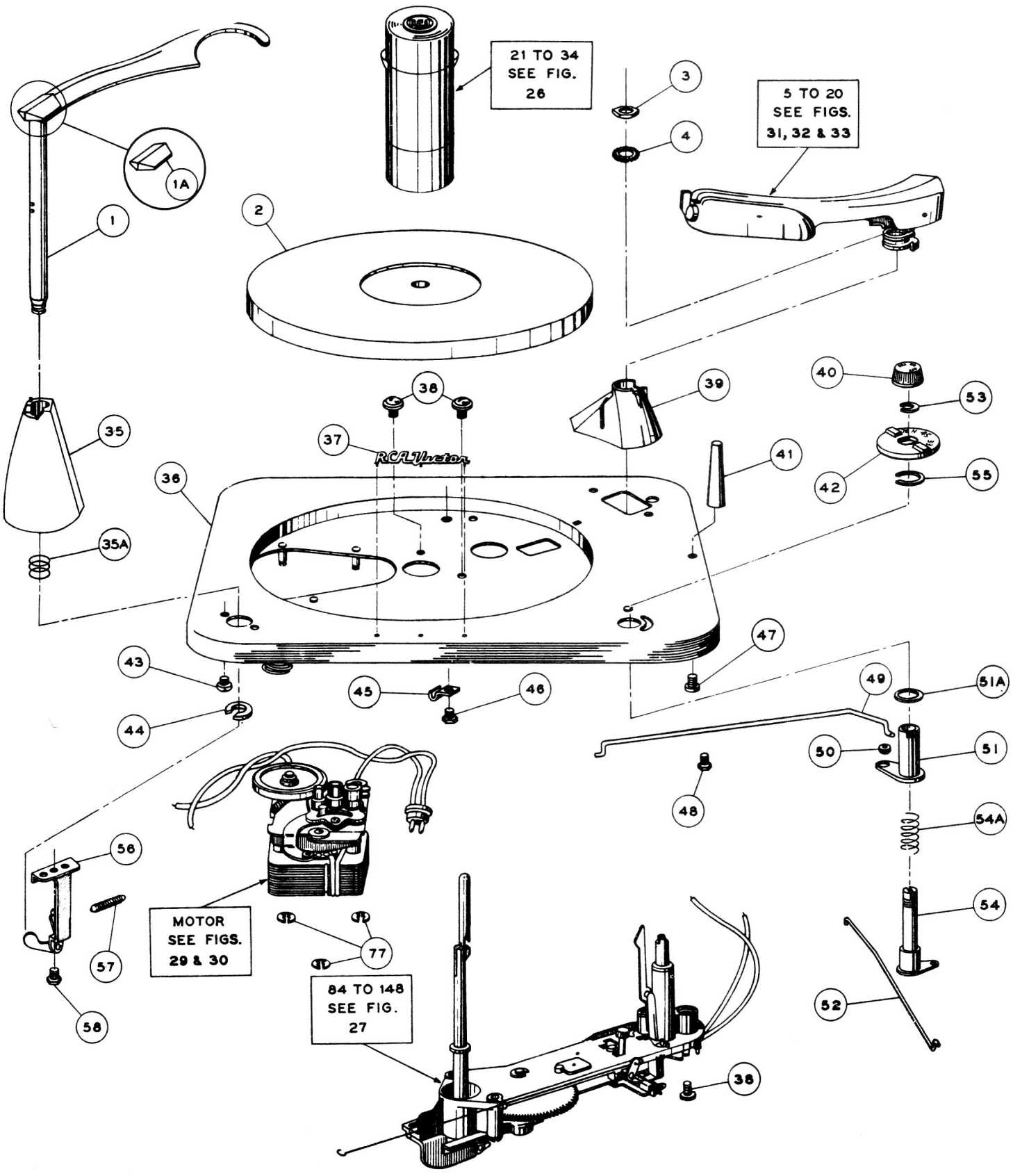


Fig. 25—Exploded View of Mechanism

ILL. NO.	STOCK NO.	DESCRIPTION
1	78469	Stabilizer — Record stabilizer — dark brown—complete with plastic cap—for 124330-1,-2
1	77255	Stabilizer — Record stabilizer — plum — complete with plastic cap—for 930800-4
1	78788	Stabilizer — Record stabilizer — beige — complete with plastic cap—for 930800-5
1A	78470	Cap—Plastic cap—plum—for record stabilizer
1A	75805	Cap—Plastic cap—beige—for record stabilizer
2	77118	Turntable — Turntable and hub assembly — maroon flock—for 930800-4, 124330-1,-2
2	77119	Turntable—Turntable and hub assembly—tan flock—for 930800-5
3	76905	Nut—¼"-28 hex nut for pickup arm bracket
4	———	Lockwasher—¼" external tooth lockwasher for pickup arm shaft
35	78471	Mounting—Record stabilizer mounting—autumn gold
35	77256	Mounting—Record stabilizer mounting—plum
35	78820	Mounting—Record stabilizer mounting—biege
35A	77257	Spring—Record stabilizer return spring
36	77850	Motorboard—Motorboard—autumn gold—less detachable parts
36	78837	Motorboard—Motorboard—plum—less detachable parts
36	78838	Motorboard—Motorboard—beige—less detachable parts
37	78760	Emblem—"RCA Victor" emblem
38	———	Screw—#10-24 x ⅜" binding head machine screw and internal lockwasher
39	78472	Housing—Pickup arm pivot shaft housing—autumn gold—for 930800-1, -2, -3
39	75829	Housing—Pickup arm pivot shaft housing—plum—for 930800-4
39	75873	Housing—Pickup arm pivot shaft housing—autumn gold — for 124330-1,-2
40	78473	Knob—Reject control knob—maroon
40	78821	Knob—Reject control knob—beige
41	78474	Rest—Pickup arm rest—maroon
41	75828	Rest—Pickup arm rest—beige
42	78475	Knob—Motor speed control knob—maroon
42	78822	Knob—Motor speed control knob—beige
43	———	Screw — #6-32 x ¼" hex head screw
44	75385	Washer—"C" washer to retain record stabilizer
45	———	Clamp—Cable clamp
46	———	Screw—Screw for mounting cable clamp
47	75380	Screw—#10 x ½" cross recessed pan head screw to mount pickup arm rest
48	———	Screw—#6-32 x ¼" hex head screw
49	78476	Rod — Motor speed control rod for motor stamped #5684, #5686 or #5687 for 930800
49	78477	Rod — Motor speed control rod for motor stamped #4638, or #5434 for 930800
49	———	Rod — Motor speed control rod for 25 and 50 cycle motor on 124330
49	———	Rod — Motor speed control rod for 60 cycle motor on 124330
50	77229	Grommet—Rubber grommet for motor speed control rod
51	75863	Lever—Motor speed control lever and shaft
51A	76903	Washer—Fiber bearing washer for control shaft
52	75840	Rod—"On-Off"—"Reject" control rod
53	75399	Washer—"C" washer to retain switch control lever and shaft
54	75839	Lever—Switch control lever and shaft
54A	75838	Spring—Compression spring for control shaft
55	75825	Washer—"C" washer for motor speed control lever and shaft
56	76927	Arm—Stop arm assembly
57	76926	Spring—Return spring (coil type) for stop arm (⅛" I.D. x 19/32")
58	———	Screw—6-32 x 5/16" cross recessed round head screw
59	75876	Washer—"C" washer to mount motor
60 to 83	———	Not used
		45 RPM CENTERPOST ASSEMBLY
	S-20023	Centerpost—45 r.p.m. centerpost complete
21	76928	Cap—Nose cap
22	76930	Spring—Nose spring (formed)
23	76909	Screw—#4-40 x ¼" cross recessed binding head screw for nose spring
24	76933	Plate—Slider plate assembly complete with springs 24A
25	76932	Knife—Record separator knife (1 set)
26	76931	Shelf—Record support shelf (1 set)
27	76934	Spring—Slider return spring (coil type—2 in 1)
28	76935	Spring—Shelf return spring (formed)
29	———	Body—Spindle body assembly
30	76936	Screw—#4-40 x ⅞" fillister head screw for nose cap
31	———	Rotor—Die-cast rotor
32	76954	Spring—Rotor lift spring (coil) (1.168" O.D. x 1"—4-5 turns)
33	———	Lift—Rotor lift
34	76929	Bearing—Bottom bearing

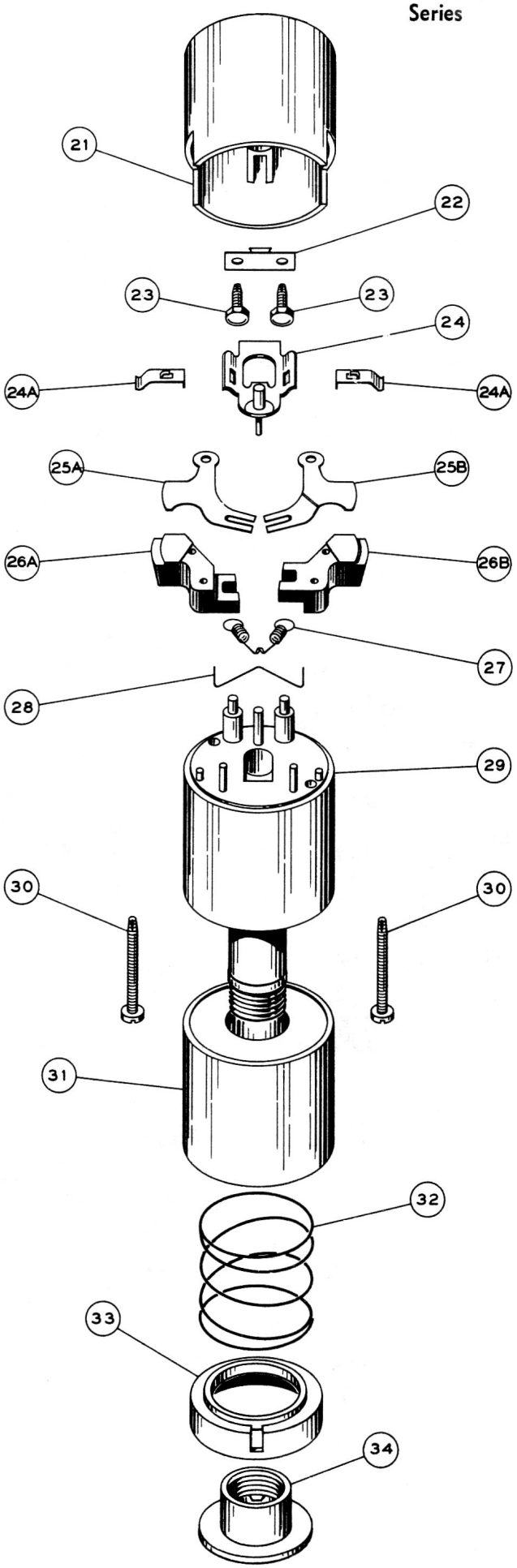


Fig. 26—45 r.p.m. Centerpost Assembly

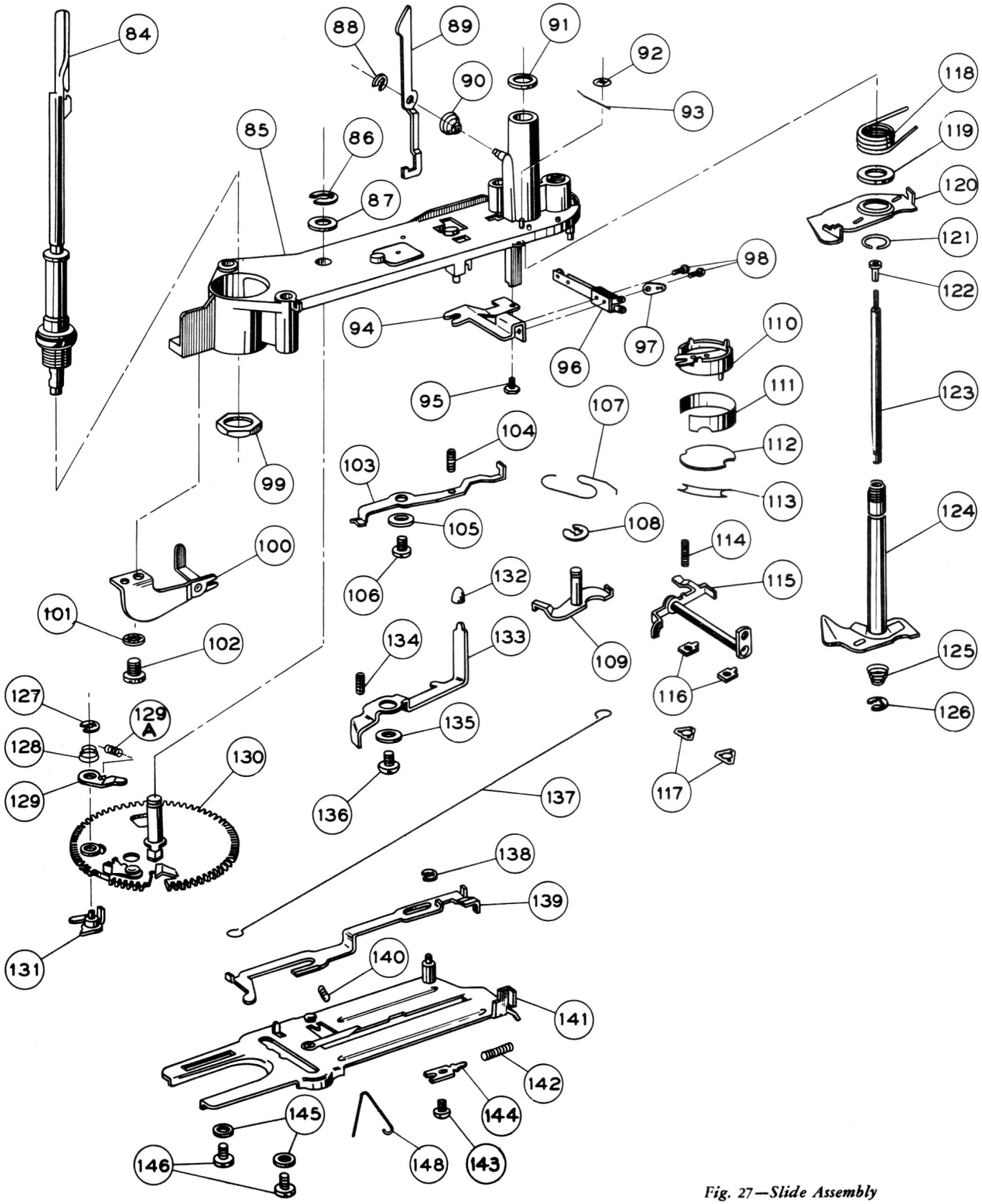


Fig. 27—Slide Assembly

ILL. NO.	STOCK NO.	DESCRIPTION
		SLIDE ASSEMBLIES
84	76904	Spindle — 33 1/3-78 r.p.m. spindle complete with bearing for 124330-1, 2
84	78793	Spindle—33⅓-78 r.p.m. spindle complete with bearing for 930800-4 and -5
85	78635	Frame—Main frame—(die-cast)
86	75373	Washer—"C" washer for mounting cycling gear
87	75845	Washer—Fibre washer for mounting cycling gear
88	75397	Washer—"C" washer for 12" indexing lever
89	75844	Lever—12" record indexing lever
90	76309	Spring—12" record indexing lever spring
91	76903	Washer—Pickup thrust washer (fibre)
92	75841	Nut—Speed nut for 12" indexing lever return spring
93	75842	Spring—12" indexing lever return spring (formed)
94	———	Bracket—Muting switch bracket
95	———	Screw—#4-40 x ¼" hex head (indented) thread cutting screw to mount muting switch assembly
96	77191	Switch—Muting switch—less mounting bracket
97	———	Terminal—#4 locking terminal for muting switch assembly
98	———	Screw—#3-48 x 13/32" binding head machine screw for muting switch
99	———	Nut—½-20 pal nut for mounting 33⅓-78 r.p.m. spindle
100	75864	Arm—Lift arm
101	———	Screw—#10-24 x ⅜" binding head machine screw and internal lockwasher
102	———	Screw—#10-24 x ⅜" binding head machine screw and internal lockwasher
103	75859	Lever—Landing selector lever
104	75860	Spring—Return spring (coil type) for landing selector lever (.110" O.D. x ⅜"—14 turns)
105	———	Washer—Metal washer (steel) (1/32" x 7/16" O.D. x .140)
106	———	Screw—#6-32 x ¼" hex head screw
107	76312	Spring—Reject spring (special)
108	75392	Washer—"C" washer for mounting reject lever
109	75856	Lever—Reject lever
110, 111, 112	76301	Switch—"On-Off" switch complete with insulating strip (111) and cover (112)
113	76908	Retainer—Switch cover retainer (flat)
114	76314	Spring—Return spring (coil type) (.125" O.D. x 7/16" —14 turns)
115	76313	Lever—Stop lever
116	77258	Strip—Bearing strip for stop lever shaft
117	76912	Nut—Speed nut for mounting stop lever bearing shafts
118	76944	Spring—Pickup arm return lever spring (coil) (.593" O.D.—3½ turns)
119	———	Not used
120	78636	Lever—Pickup arm return lever
121	78637	Retainer—Retaining ring for pickup arm return lever
122	76952	Nut—Elevating rod adjustment nut
123	76951	Rod—Elevating rod
124	76946	Shaft—Pickup arm pivot shaft and lever
125	76906	Spring—Thrust spring (conical) for elevating rod
126	77269	Ring—Retaining ring
127	75397	Washer—"C" washer
128	76309	Spring—Trip pawl spring
129	77250	Pawl—Trip pawl—upper
129A	77249	Spring—Trip pawl cushion spring (coil)
130	76955	Gear—Cycling gear complete with shaft and engagement pawl 130A
131	76953	Pawl—Trip pawl—lower
132	76900	Bumper—Rubber bumper for 10" indexing lever
133	76901	Lever—10" indexing lever
134	76314	Spring—Return spring (coil type) (.125" O.D. x 7/16" —14 turns)
135	———	Washer—Metal washer (steel) (1/32" x 7/16" O.D. x .140)
136	———	Screw—#6-32 x ¼" hex head screw
137	75862	Link—Control link
138	75397	Washer—"C" washer
139	76950	Slide—Trip slide
140	75861	Spring—Escape lever spring (coil) (.120" O.D. x ½" —21 turns)
141	76956	Slide—Cycling slide and cam assembly—less escape lever spring
142	77228	Spring—Stabilizing spring (coil) for cycling slide (.146" O.D. x ¾"—14½ turns)
143	———	Screw—#6-32 x ¼" hex head screw
144	75872	Plate—Bearing plate for cycling slide
145	76897	Washer—Metal washer (brass) for cycling slide
146	———	Screw—#6-32 x ¼" hex head screw
147	———	Not used
148	77934	Spring—Slide detent spring

MOTOR ASSEMBLIES
For 930800 Mechanisms

Motors stamped 5686 are made for 60 cycle operation only. It is not advisable to operate these motors on 50 cycles.

Motors stamped 4638 or 5684 are made for 60 cycle operation but may be converted for 50 cycle operation by changing the spring sleeve on the motor shaft.

Motors stamped 5687 or 5434 are made for 50 cycle operation but may be converted for 60 cycle operation by changing the spring sleeve on the motor shaft.

Parts for the above motors are listed on the following page. It should be noted that there are two motor types.

Complete motors may be interchanged provided that the proper speed control rod (Ill. No. 49) is employed. The listing of complete motors is given below.

MOTOR FOR 930800 MECHANISMS

STOCK NO.	DESCRIPTION
78531	Motor—Motor assembly (#4638) COMPLETE—less mounting grommets and plug—for 115 volts, 60 cycles.
78372	Motor—Motor assembly (#5686) with mounting plate and idler support—LESS idler wheel, speed shift lever and pulley mounting plate for 115 volts, 60 cycles.
78373	Motor—Motor assembly (#5687) COMPLETE for 115 volts, 50 cycles.

MOTORS FOR 124330 MECHANISMS

S 6886	Motor—25 cycle complete
S-6969	Motor—50 cycle complete
S-6956	Motor—60 cycle complete

REPLACEMENT PARTS (Cont.)

ILL. NO.	STOCK NO.	DESCRIPTION
		MOTOR ASSEMBLIES Stamped: 5684—for 115 v. 60 cycles 5686—for 115 v. 60 cycles 5687—for 115 v. 50 cycles
1	76750	Wheel—Idler wheel
2	75433	Washer—Fibre washer
3	76744	Retainer—Idler wheel retainer (hairpin spring)
4	78645	Support—Idler wheel support
5	78646	Retainer—Support retainer (hairpin spring)
6	78647	Washer—Bearing washer
7	78648	Link—Idler wheel support link
8	78464	Spacer—Metal spacer for link mounting
9	78374	Spring—Idler wheel tension spring
10	————	Screw—Screw for mounting plate
11	————	Lockwasher—Lockwasher for mounting plate
12	76751	Grommet—Rubber grommet for motor mounting
13	30870	Plug—Two (2) prong male plug
14	76755	Spring—Detent spring
15	77134	Collar—Speed shift lever collar (nut)
16	78371	Plate—Mounting plate assembly includes items 4, 5, 6, 7, 8, and 9
17	76749	Sleeve—Spring sleeve pulley for 60 cycle operation of #5684, #5686 and #5687
17	77686	Sleeve—Spring sleeve pulley for 50 cycle operation of #5684 and #5687
18	77685	Lever—Speed shift lever
19	77229	Grommet—Rubber grommet for shift lever
20	77132	Plate—Speed pulley mounting plate with 3 pulleys
20A	76748	Pulley—33⅓ r.p.m. speed pulley
20B	76747	Pulley—45 r.p.m. speed pulley
20C	76746	Pulley—78 r.p.m. speed pulley
20D	75428	Washer—Felt washer
20E	75427	Retainer—Retainer for speed pulleys
21	————	Screw—Screw for mounting pulley plate
22	————	Lockwasher—Lockwasher for pulley plate

ILL. NO.	STOCK NO.	DESCRIPTION
		MOTOR ASSEMBLIES Stamped: 4638—for 115 v. 60 cycles 5434—for 115 v. 50 cycles
1	78508	Wheel—Idler wheel with fibre washer
2	78509	Washer—Fibre washer
3	78510	Washer—Felt washer
4	78511	Washer—"C" washer
5	78512	Spring—Idler spring
6	————	Screw—Holddown plate mounting screw
7	————	Lockwasher—Holddown plate mounting screw lock washer
8	78513	Plate—Holddown plate
9	78514	Grommet—Motor mounting grommet
10	78515	Washer—Blued steel washer
11	78516	Plate—Idler plate assembly
12	78517	Link—Idler link
13	78518	Arm—Pulley plate latch arm
14	78519	Spring—Pulley latch spring
15	78520	Spring—Shifter latch spring
16	78521	Lever—Latch arm lever
17	78522	Sleeve—Sleeve pulley for 60 cycle operation
17	78523	Sleeve—Spring pulley for 50 cycle operation
18	78524	Plate—Speed pulley mounting plate—less pulleys
18A	78525	Pulley—33⅓ r.p.m. pulley
18B	78526	Pulley—45 r.p.m. pulley
18C	78527	Pulley—78 r.p.m. pulley
18D	78528	Washer—Speed pulley fibre washer
19	78529	Lever—Speed shift lever
20	78530	Grommet—Speed shift lever grommet
21	30870	Plug—2 prong male plug

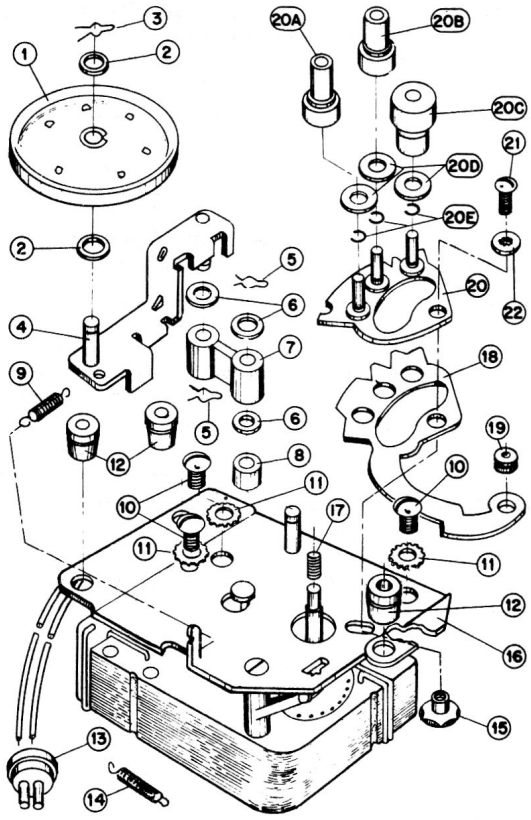


Fig. 29—Assembly of Motors Stamped 5684, 5686 and 5687

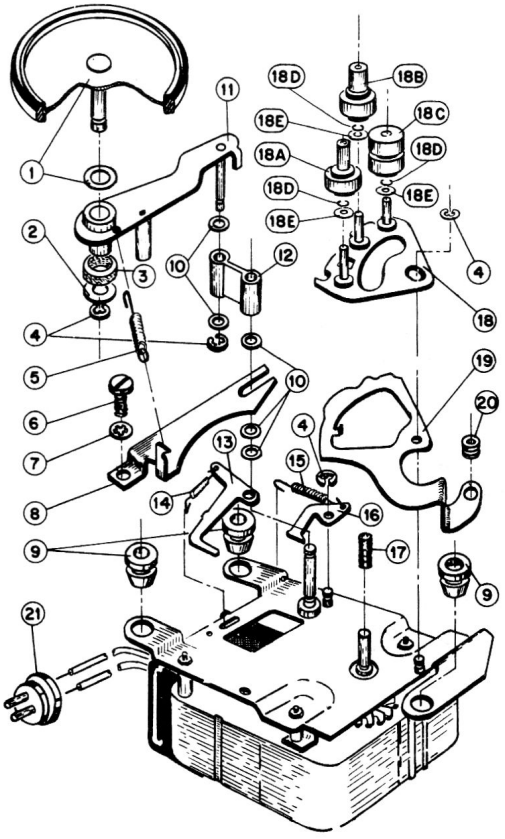


Fig. 30—Assembly of Motors Stamped 4638 or 5434

ILL. NO.	STOCK NO.	DESCRIPTION
		PICKUP ASSEMBLY 124330-1,-2
10	77779	Pickup—Crystal pickup complete with two styli
10A	75497	Stylus—Osmium tip stylus (.003″ r. uncoded) for 78 r.p.m.
10B	77899	Stylus—Sapphire tip stylus (.001″ r. coded RED) for 33⅓-45 r.p.m.
10C	74230	Nut—#00-112 nut and washer to mount stylus
		PICKUP ARM ASSEMBLIES For 124330-1,-2
5	78481	Knob—Stylus selector knob—less screw
6	76898	Screw—#2-56 x 3/16″ headless set screw for stylus selector knob
7	78482	Arm—Pickup arm shell (plastic)
7A	76948	Screw—Pickup arm mounting bracket pivot screw
7B	76947	Bearing—Pickup arm mounting bracket pivot bearing
8	75808	Cable—Three (3) wire pickup cable complete with connectors for 124330-1,-2

ILL. NO.	STOCK NO.	DESCRIPTION
9	———	Screw—#4-40 x ⅛″ fillister head screw to mount pickup cartridge
11	76957	Swivel—Pickup cartridge mount and swivel assembly for 124330-1-2
12	75809	Spring—Pickup arm counterbalance spring
13	75810	Bracket—Pickup arm weight adjustment bracket (slide)
14	76899	Screw—#6-32 x ⅛″ round head screw for pickup arm weight adjustment bracket
15	76896	Screw—#4 x ¼″ binding head sheet metal screw to mount swivel assembly in arm
16	75812	Spring—Lock spring (coil type) for height adjustment screw
17	75813	Screw—Height adjustment screw (hex head—#5-40 thread)
18	76943	Spring—Tension spring (coil) for landing adjustment stud
19	76911	Cam—Landing adjustment cam
20	76907	Bracket—Pickup arm mounting bracket complete with pin
20A	75816	Stud—Landing adjustment stud (eccentric)
20B	75818	Nut—Speed nut for landing adjustment stud

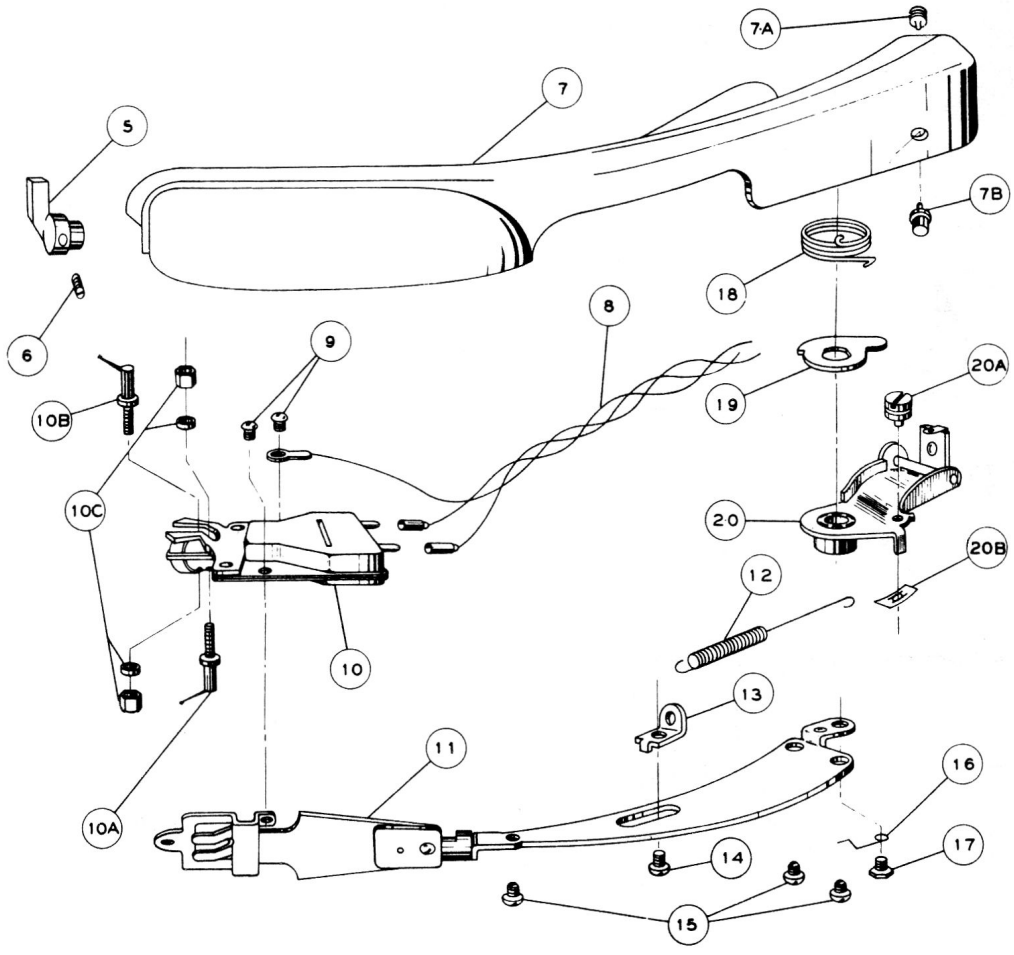


Fig. 31 — Pickup Arm Assembly for 124330-1,-2

REPLACEMENT PARTS (Cont.)

ILL. NO.	STOCK NO.	DESCRIPTION
		PICKUP ASSEMBLY For 930800-4 and -5
10	78748	Pickup—Ceramic pickup complete with dual stylus
10A	78827	Stylus—Dual stylus (.003″ r. and .001″ r.) complete with control arm
		PICKUP ARM ASSEMBLY For 930800-4 and -5
7	78775	Arm—Pickup arm shell (aluminum)—less cartridge housing
7A	76948	Screw—Pickup arm mounting pivot screw
7B	76947	Bearing—Pickup arm mounting pivot bearing
7C	78826	Housing—Pickup cartridge housing
7D	78811	Spacer—Pickup cartridge mounting spacers
8	78779	Cable—Shielded pickup cable—less connectors
8A	78824	Clip—Pickup connecting clips
9	———	Screw—Fillister head screw to mount pickup cartridge (#4-40 thread)
11	78880	Clip—Retaining clip (formed wire) for pickup cartridge housing
12	78881	Spring—Pickup arm counterbalance spring
13	78784	Bracket—Pickup arm weight adjustment bracket (slide)
14	78786	Screw—Round head screw for mounting weight adjustment bracket
14A	———	Washer—Lockwasher for weight adjustment bracket
15	78781	Screw—#4-40 x ¼″ hex head screw for pickup cartridge housing retaining clip
15A	76897	Washer—Flat metal washer for retaining clip
16	75812	Spring—Lock spring for height adjustment screw
17	75813	Screw—Height adjustment screw (#5-40 thread)
18	76943	Spring—Tension spring for landing adjustment cam
19	76911	Cam—Landing adjustment cam
20	78787	Bracket—Pickup arm mounting bracket complete with pin and landing adjustment stud

EARLY PRODUCTION ASSEMBLY

Early production of 930800-4 and -5 used an arm assembly which permitted the pickup cartridge housing to be removed from the arm by a slight pull.

A plate type of spring clamp was used to hold the housing to the arm. A plug and socket was used in series with the pickup cable. These parts are as follows:

78780 Clamp—Pickup cartridge housing clamp (spring plate)
78778 Connector—Pickup cable female connector
78776 Connector—Pickup cable male connector

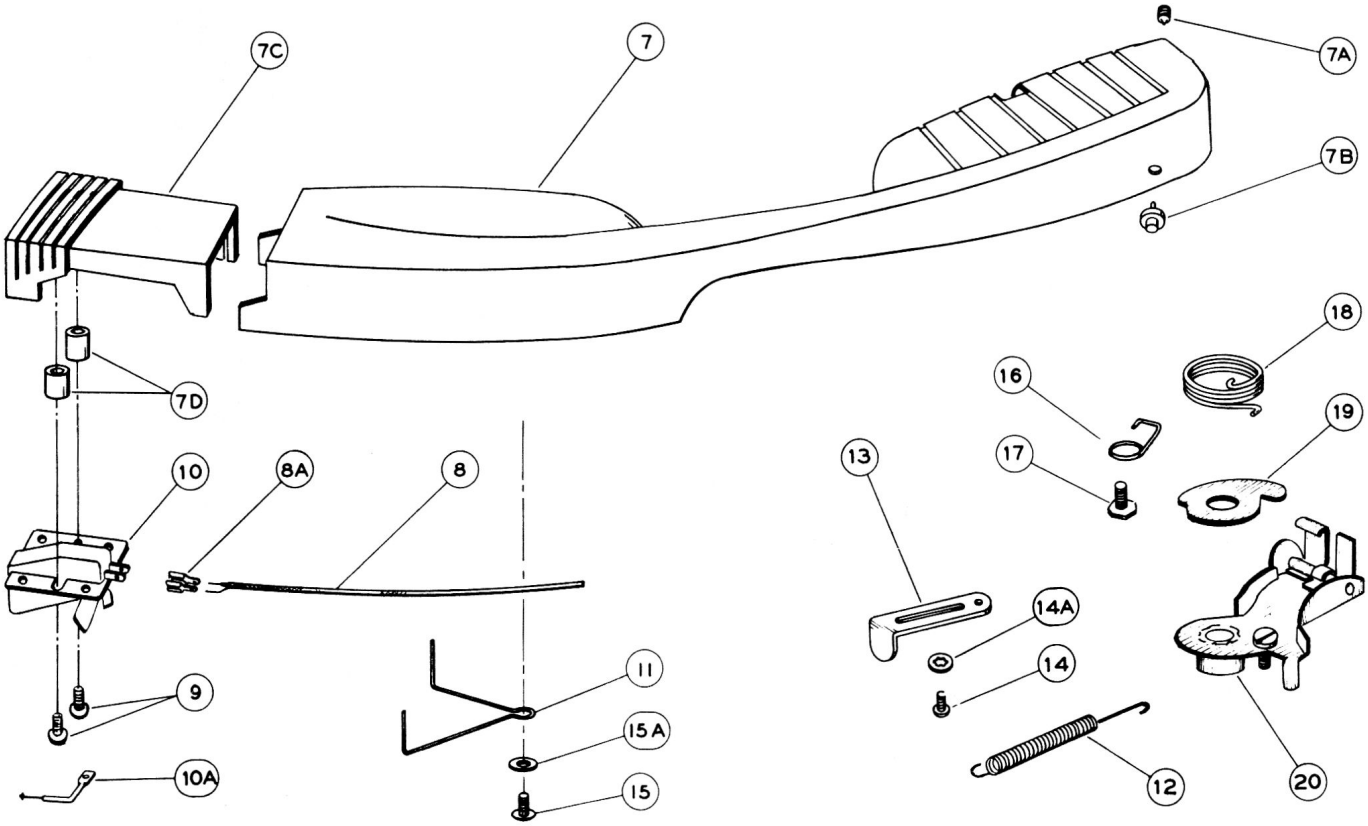


Fig. 33—Pickup Arm Assembly for 930800-4 and -5