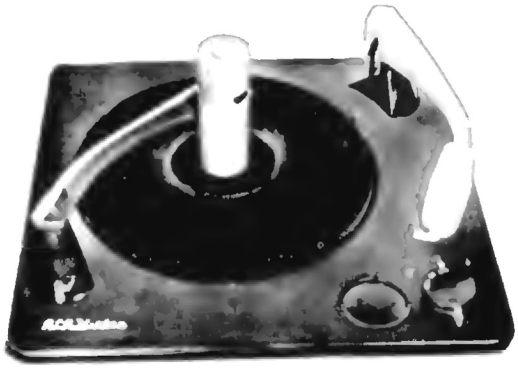


RCA VICTOR

930409 SERIES

Automatic Record Changer

SERVICE DATA

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
930409-3	115 v. 60 cycle motor convertible to 50 cycles. Ceramic pickup Stock No. S-5652.
930409-4	115 v. 25 cycle motor. Ceramic pickup Stock No. 162A001. Used in Model 35QU.
930409-5	115 v. 60 cycle motor. Crystal pickup Stock No. 75475. Used in Models 2ES3, 2ES31, 2ES38, 2ES38E, 2JS1, 2JS1E, 2S10, 2US7, 21T197DE, 21T242 and 21T244.
930409-6	115 v. 60 cycle motor convertible to 50 cycles. Ceramic pickup Stock No. 162A001. Used in Models 2ES31Q, 2ES38Q, 2JS1Q and 35QU.
930409-9	230 v. 50 cycle motor convertible to 60 cycles. Crystal pickup Stock No. 75044.
930409-10	Same as 930409-5 except light color. Used in Models 2S10, 2US7 and 21T242.
930409-11	115 v. 50 cycle motor convertible to 60 cycles. Crystal pickup Stock No. 75475. Used in Model 2US7.

INDEX

CONTROLS

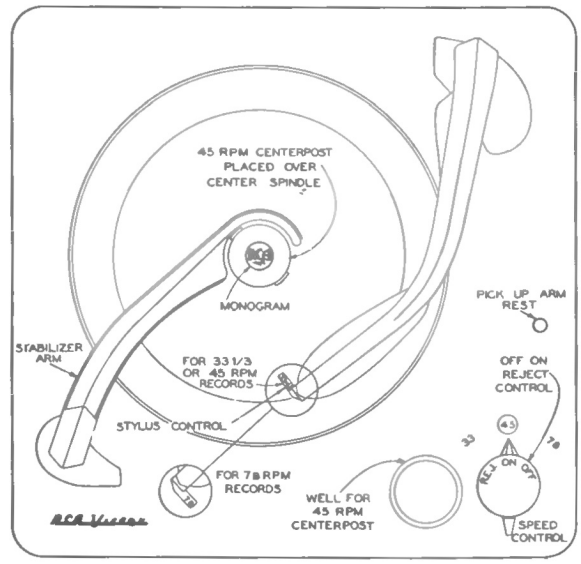
The record changer has a dual control on the motorboard and a stylus selector control on the pickup arm. The inner control (circular knob) is the OFF-ON-REJECT control. Turning this knob to the center position energizes the motor and starts the turntable, when turned to the right (clockwise) it starts 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.

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. When not in use it is placed in a well at the front of the motorboard.

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

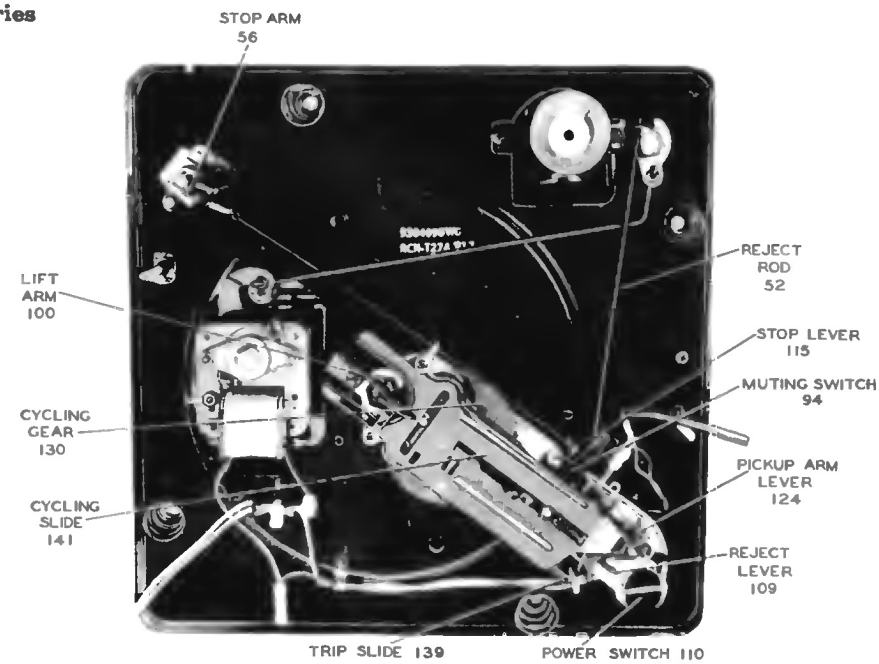


Figure 1—Bottom View

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 Lubriplate or STA-PUT No. 512 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

PICKUPS NO. 75044 and S-5652

The styli are held in position by small thumb nuts (one for each stylus). Loosen the nut to remove stylus.

PICKUP NO. 75475

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.

PICKUP NO. 162A001

The styli are held in position by pressure fit. To remove stylus, grip with tweezers and pull straight to the front of pickup.

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.

Although the 78 and the 45-33⅓ styli are mechanically interchangeable, they should be replaced in such manner that the stylus which is coded red will contact the record when "33-45" on the stylus selector knob is visible from the top.

Record Stabilizer Arm

Two types of stabilizer arms are in use. Type "A" when raised and moved outward will remain projected beyond the edge of the motorboard. Use Stock Number 76941 (plum) or Stock Number 76942 (beige) record stabilizer housing. Type "B" when raised and moved outward will return to within the edge of the motorboard. Use Stock Number 77256 (plum) record stabilizer housing, and Stock Number 77257 record stabilizer return spring.

The replacement stabilizer arm (plum) Stock Number 77255 can be used with either Type "A" or Type "B"

50/60 Cycle Conversion

Models 930409-3 and 930409-6 are made for 60 cycle operation but may be converted to 50 cycle operation.

Models 930409-9 and 930409-11 are made for 50 cycle operation but may be converted to 60 cycle operation.

To convert the above listed models it is necessary to remove the original spring sleeve from the motor shaft and install the alternate spring sleeve (in envelope attached to record changer). This is easily accomplished by holding the rotor of the motor while removing or installing the spring sleeve with a twisting motion.

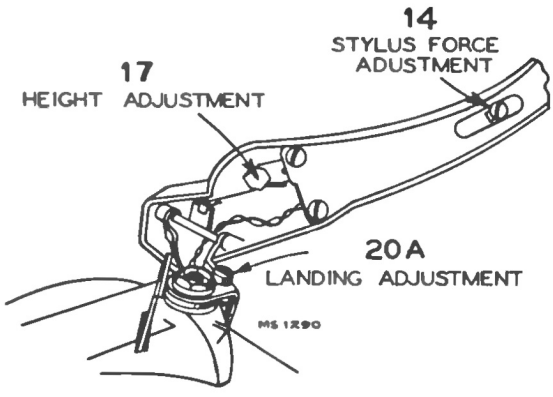


Figure 2—Adjustments

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.

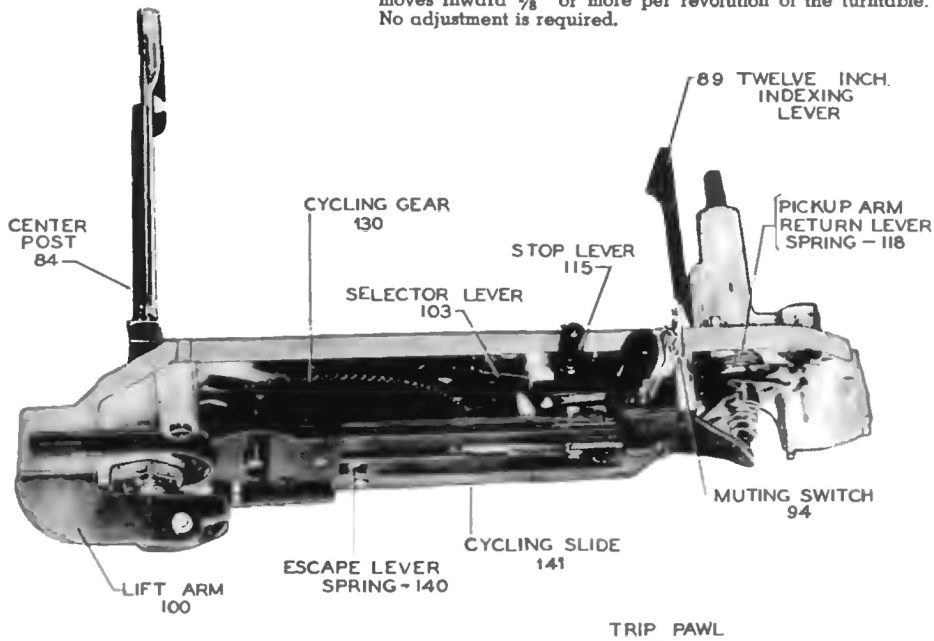


Figure 3—Slide Assembly (Complete)

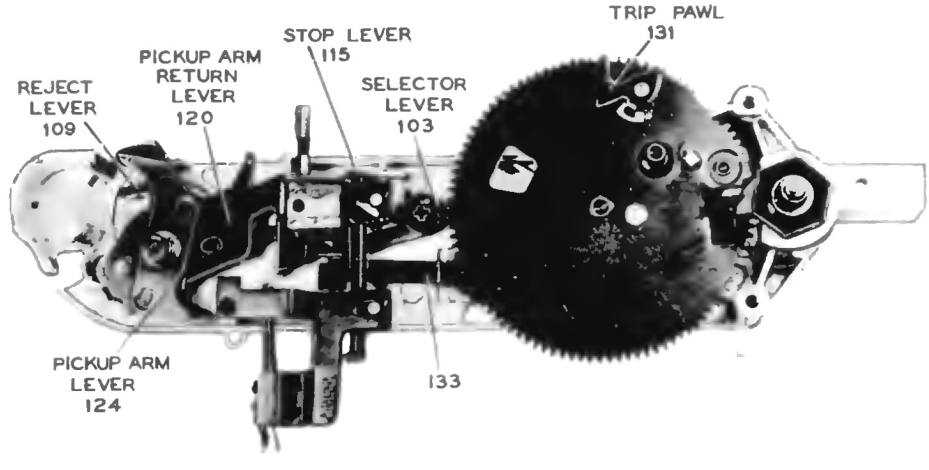


Figure 4—Slide Assembly (View with Slide Removed)

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.

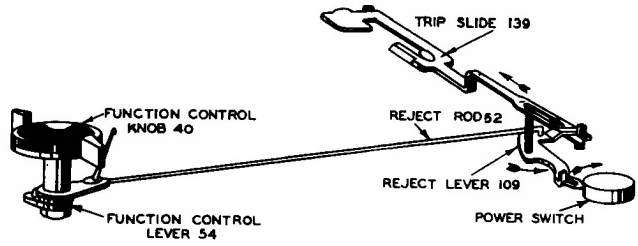


Figure 5

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.

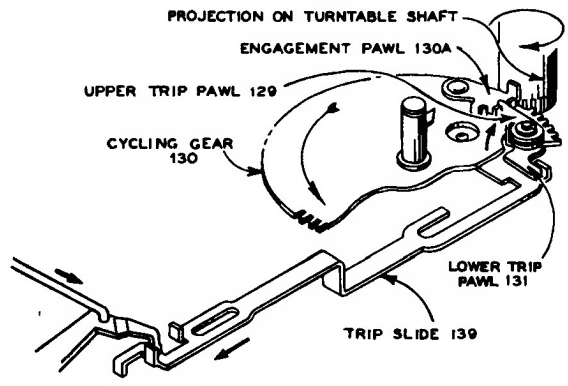


Figure 6

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.

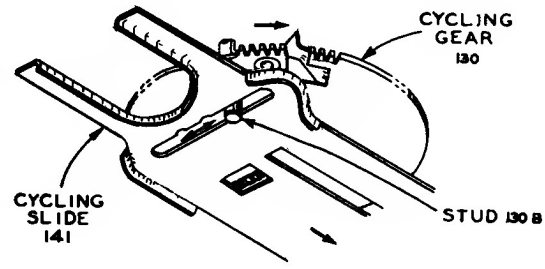


Figure 7

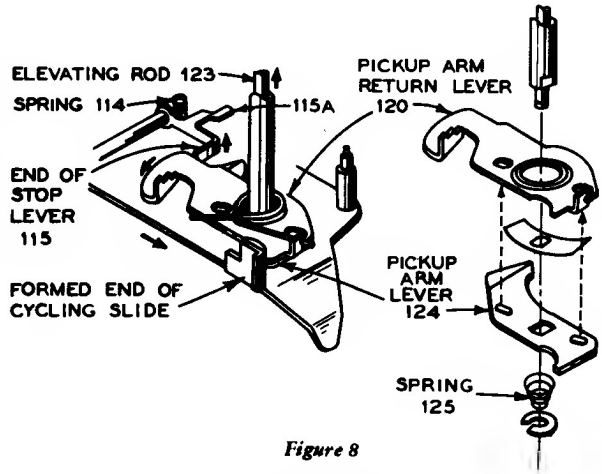


Figure 8

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.

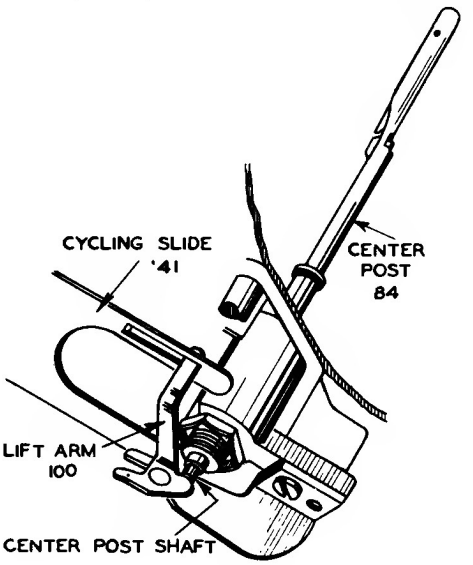


Figure 9

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.

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.

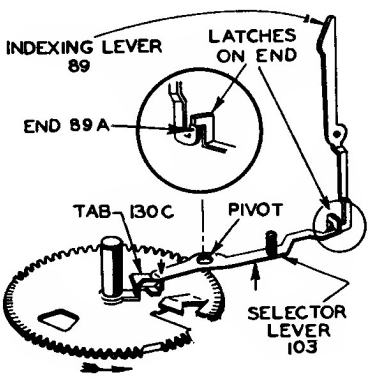


Figure 10

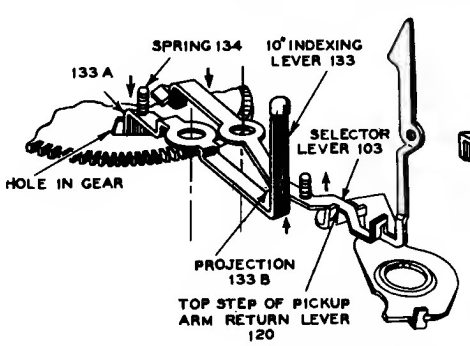


Figure 11

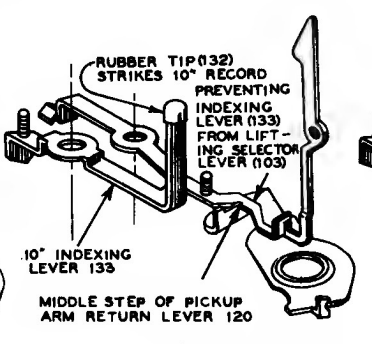


Figure 12

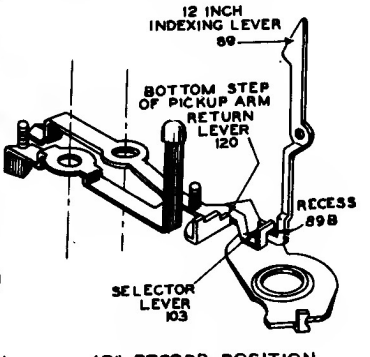


Figure 13

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.

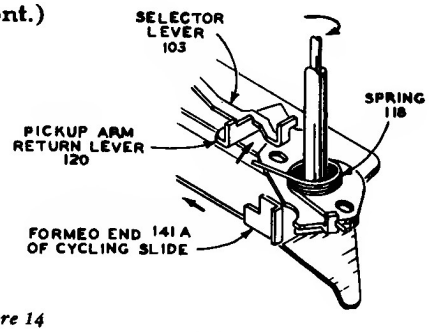


Figure 14

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.

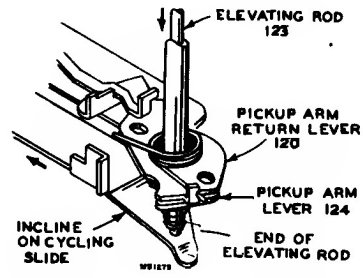


Figure 15

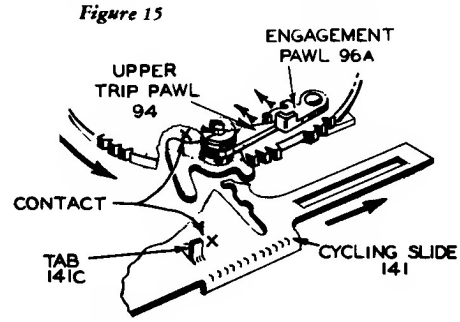


Figure 16

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.

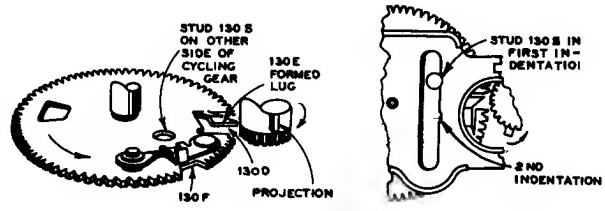


Figure 17

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.

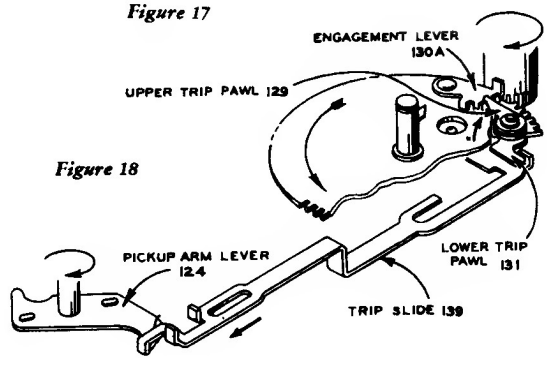


Figure 18

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.

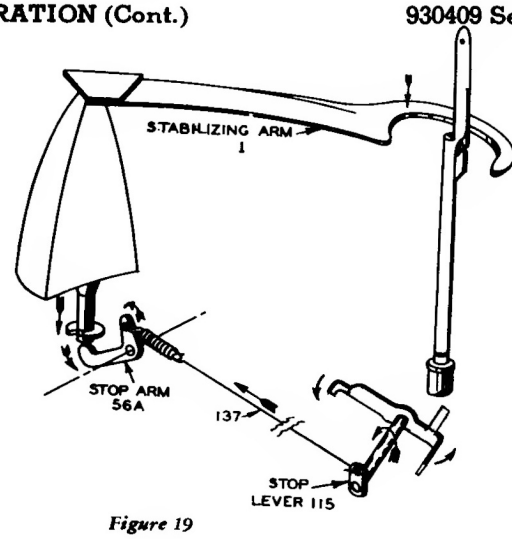


Figure 19

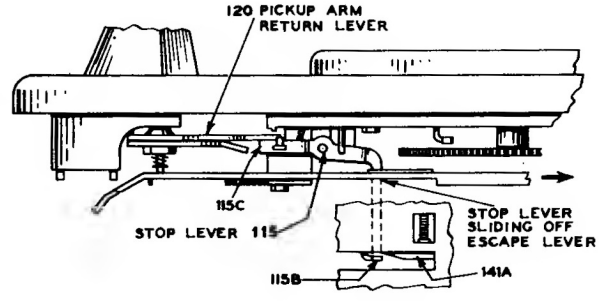


Figure 20

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.

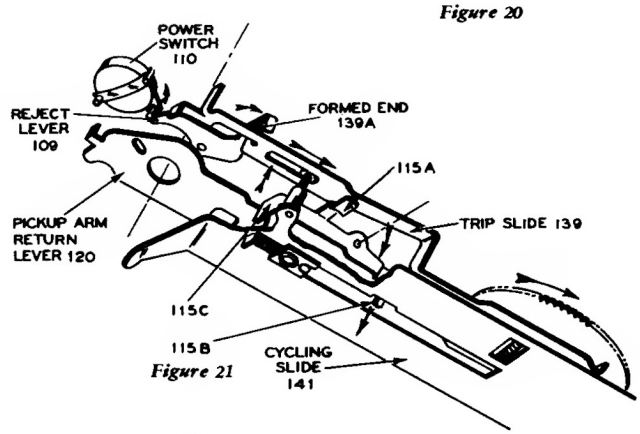


Figure 21

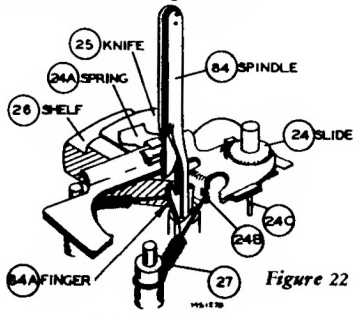


Figure 22

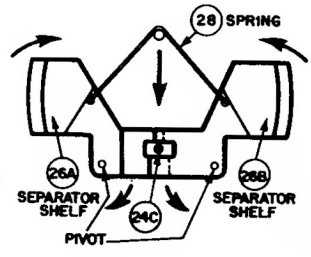


Figure 23

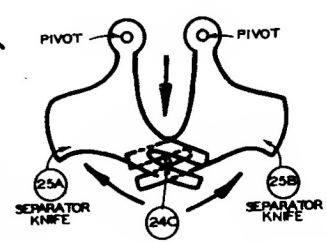


Figure 24

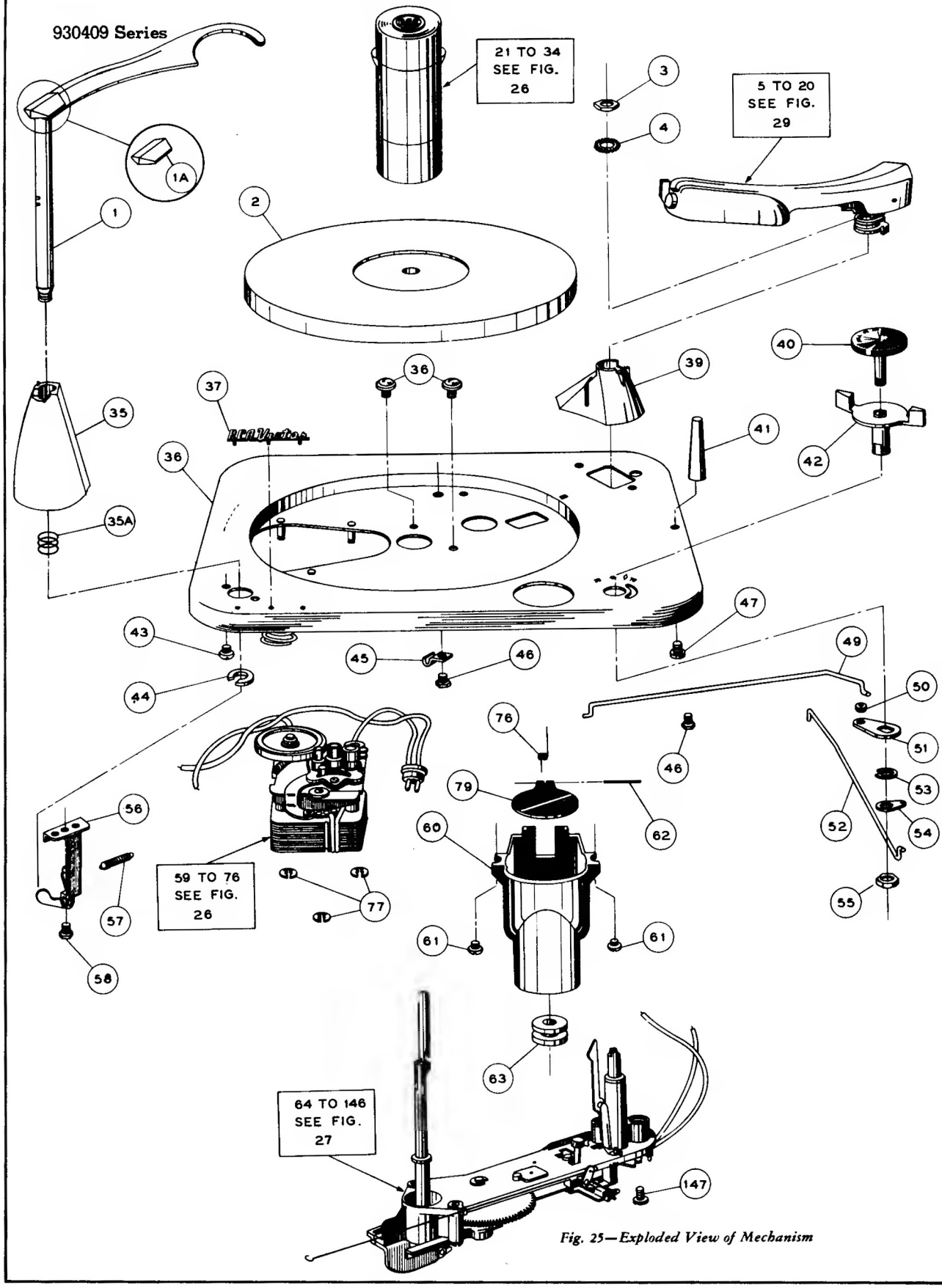


Fig. 25—Exploded View of Mechanism

ILL. NO.	STOCK NO.	DESCRIPTION
1	76913	Stabilizer—Record stabilizer—plum—complete with plastic cap for 930409-3, -4, -5, -6, -9 and -11
1	76914	Stabilizer—Record stabilizer—beige—complete with plastic cap for 930409-10
1A	75804	Cap—Plastic cap—maroon—for record stabilizer for 930409-3, -4, -5, -6, -9 and -11
1A	75805	Cap—Plastic cap—beige—for record stabilizer for 930409-10
2	77116	Turntable—Turntable and hub assembly—maroon flock.
2	77119	Turntable—Turntable and hub assembly—tan flock—for 930409-10
3	76905	Nut—¼—28 hex nut (jam) for pickup arm bracket
4	———	Lockwasher—¼ external type lockwasher for pickup arm shaft
35	76941	Housing—Record stabilizer housing—plum—Type "A" (see Page2) for 930409-3, -4, -5, -6, -9 and -11
35	77256	Housing—Record stabilizer housing—plum—Type "B" (see Page 2)
35A	77257	Spring—Record stabilizer return spring for use with Type "B" record stabilizer housing
35	76942	Housing—Record stabilizer housing—beige—for 930409-10
36	———	Motorboard—Motorboard—complete
37	74782	Emblem—"RCA Victor" emblem
38	———	Screw—#10-24 x ⅜" binding head machine screw and internal lockwasher
39	75829	Housing—Pickup arm pivot shaft housing—plum—for 930409-3, -4, -5, -6, -9 and -11
39	75873	Housing—Pickup arm pivot shaft housing—beige—for 930409-10
40	76915	Knob—Reject control knob and shaft—maroon—for 930409-3, -4, -5, -6, -9 and -11
40	76916	Knob—Reject control knob and shaft—beige—for 930409-10
41	75827	Rest—Pickup arm rest (maroon) for 930409-3, -4, -5, -6, -9 and -11
41	76928	Rest—Pickup arm rest (beige) for 930409-10
42	76937	Knob—Motor speed control knob and shaft
43	———	Screw—#6-32 x ¼" hex head screw
44	75385	Washer—"C" washer to mount record stabilizer
45	———	Clamp—Cable clamp
46	———	Screw—Screw for mounting cable clamp
47	75830	Screw—#10 x ½ cross recessed pan head screw to mount pickup arm rest
46	———	Screw—#6-32 x ¼" hex head screw
49	76920	Rod—Motor speed control rod
50	77229	Grommet—Rubber grommet for motor speed control rod
51	76916	Lever—Motor speed control lever
52	76919	Rod—"On-Off"—"Reject" rod
53	76928	Washer—"C" washer for motor speed control knob and shaft
54	76917	Lever—Switch control lever
55	77227	Nut—Pal nut for reject control knob and shaft
58	76927	Arm—Stop arm assembly
57	76928	Spring—Return spring (coil type) for stop arm (¼" I.D. x 19/32)
69	———	Screw—8-32 x 5/16" cross recessed round head screw
77	75876	Washer—"C" washer to mount motor
78	76925	Spring—Spring for 45 r.p.m. centerpost housing hinge pin
79	76922	Lid—45 r.p.m. centerpost housing lid—maroon—for 930409-3, -4, -5, -6, -9 and -11
79	76923	Lid—45 r.p.m. centerpost housing lid—beige—for 930409-10
20	76921	Housing—45 r.p.m. centerpost housing well—less lid and rubber bumper
61	———	Screw—#10-32 x 3/16" cross recess pan head screw to mount 45 r.p.m. centerpost housing
62	76924	Pin—Hinge pin for 45 r.p.m. centerpost housing lid
83	76940	Bumper—45 r.p.m. centerpost housing rubber bumper
147	———	Screw—#10-24 x ⅜" binding head machine screw and internal lockwasher
		45 RPM CENTERPOST ASSEMBLY
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
28	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	76938	Spring—Shelf return spring (formed)
29	———	Body—Spindle body assembly
30	76935	Screw—#4-40 x 7/8" fillister head screw for nose cap
31	———	Rotor—Die-cast rotor
32	76954	Spring—Rotor lift spring (coil) (1.169" O.D. x 1"—4-5 turns)
33	———	Lift—Rotor lift
34	76929	Bearing—Bottom bearing

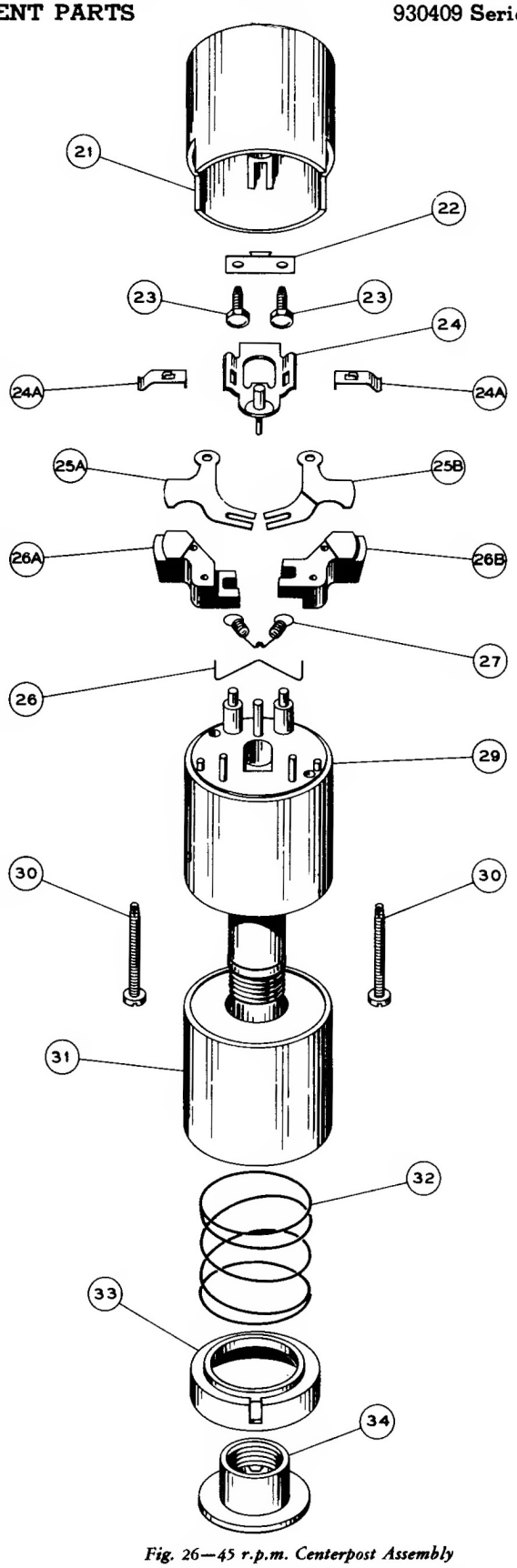


Fig. 26—45 r.p.m. Centerpost Assembly

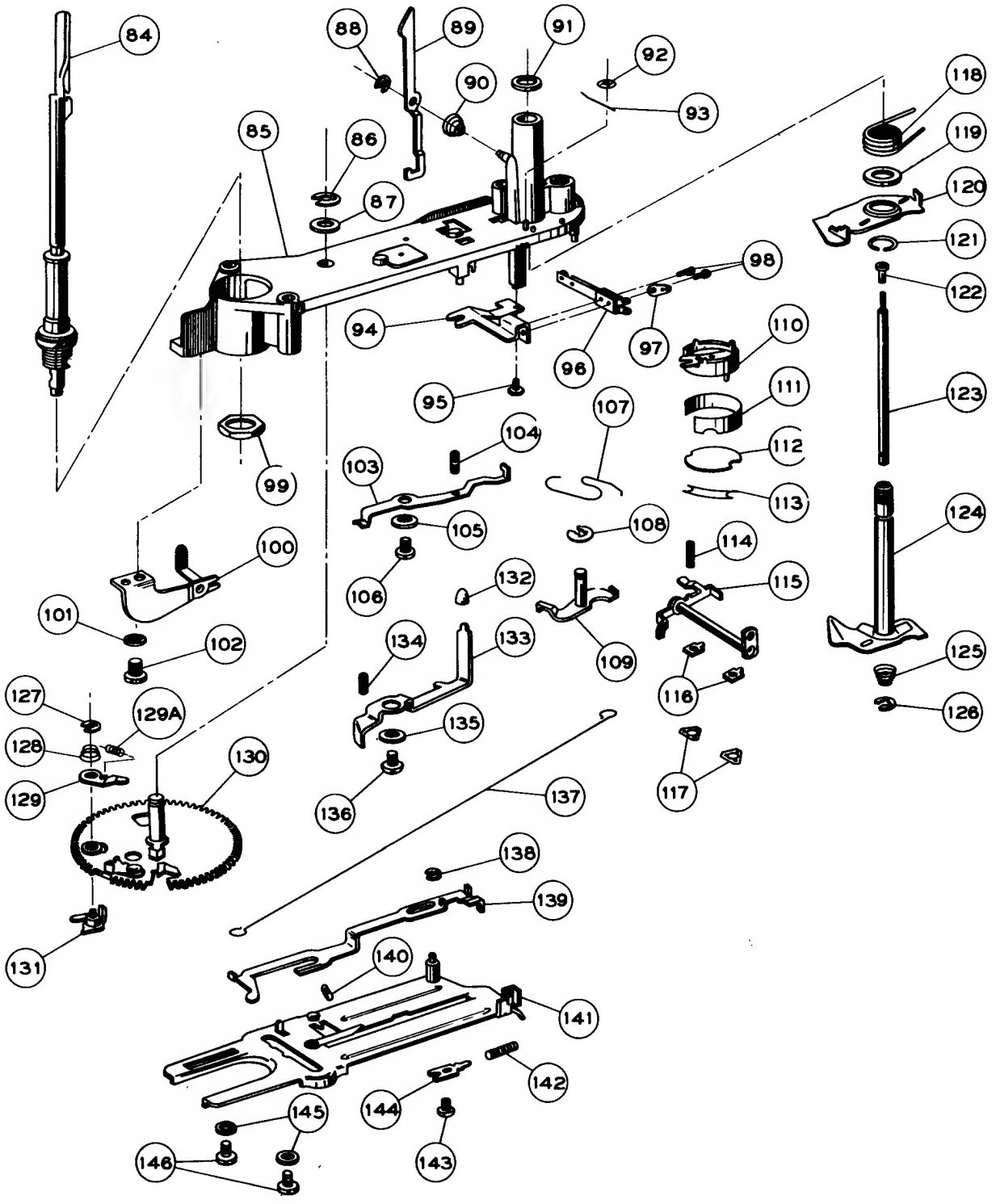


Fig. 27—Slide Assembly

ILL. NO.	STOCK NO.	DESCRIPTION
		MOTOR ASSEMBLIES Motors stamped: 5046 for 930409-3 & -6 5385 for 930409-5 & -10 5047 for 930409-9 5432 for 930409-11
69	76744	Spring—Hairpin spring for idler wheel
60	76743	Washer—Flat metal washer
61	76760	Wheel—Idler wheel for #5046, #5047 and #5432 motor (930409-3, -6, -9 & -11)
61	77130	Wheel—Idler wheel for #5385 motor (930409-5 & -10)
62	77132	Plate—Speed pulley mounting plate complete with three (3) pulleys
53	———	Screw—Screw to mount drive pulley plate
54	———	Lockwasher—Lockwasher for drive pulley plate screw
58	———	Lever—Speed shift lever for #6046 and #6047 motors (930409-3, -6 and -9)
58	77153	Lever—Speed shift lever for #5385 motor (930409-5 & -10)
65	77685	Lever—Speed shift lever for #5432 motor (930409-11)
58	77229	Grommet—Rubber grommet for speed shift lever
67	75432	Spring—Hairpin spring for idler wheel plate and support
58	77131	Plate—Idler wheel slide plate and support assembly
58	76745	Spring—Idler wheel tension spring
70	76751	Grommet—Rubber grommet
71	76743	Washer—Flat metal washer
72	76749	Pulley—Spring pulley for 60 cycle operation for motor #5385 and #5432 (930409-5, -10 & -11)
72	77686	Pulley—Spring pulley for 60 cycle operation for motor #5432 and #5046 (930409-3, -6 & -11)
72	———	Pulley—Spring pulley for 60 cycle operation for motor #5047 (930409-9)
72	———	Pulley—Spring pulley for 60 cycle operation for motor #5046 and #5047 (930409-3, -6 & -9)
73	30970	Connector—2 contact male connector
74	———	Motor—117 volt, 60 cycle motor for 930409-3 & -6
74	77135	Motor—117 volt, 60 cycle motor complete with mounting plate—less pulleys and idler wheel for 930409-5 & -10
74	———	Motor—234 volt, 60 cycle motor for 930409-9
74	77687	Motor—117 volt, 60 cycle motor complete with mounting plate, speed pulleys and idler wheel for 930409-11
75	76758	Spring—Detent spring
76	77134	Collar—Speed shift lever collar
		MOTOR ASSEMBLIES For 930409-4 Order by description

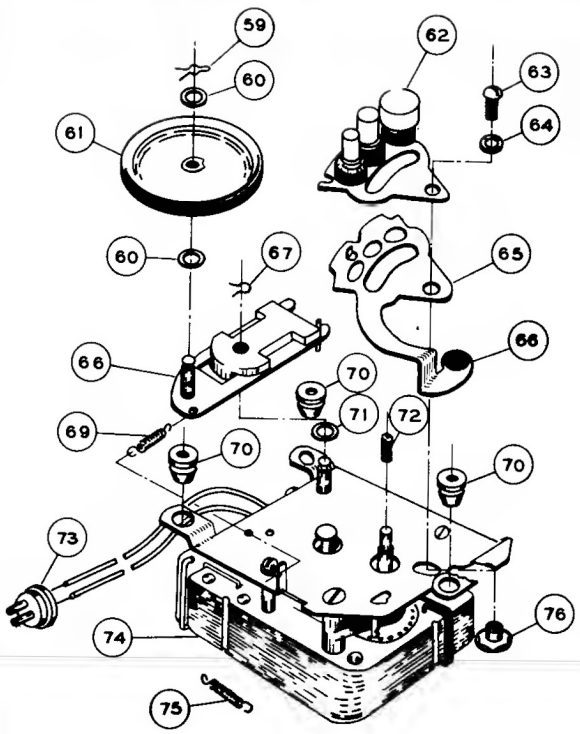


Fig. 28—Motor Assembly

ILL. NO.	STOCK NO.	DESCRIPTION
		SLIDE ASSEMBLIES
64	76904	Centerpost—33⅓-76 r.p.m. centerpost complete with bearing
95	76910	Frame—Main frame—(die-cast)
66	75373	Washer—"C" washer for mounting cycling gear
67	75845	Washer—Fibre washer for mounting cycling gear
69	75397	Washer—"C" washer for 12" indexing lever
69	76944	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
65	77191	Switch—Muting switch—less mounting bracket
97	———	Terminal—#4 locking terminal for muting switch assembly
98	———	Screw—#3-45 x 13/32" binding head machine screw for muting switch
98	———	Nut—½-20 pal nut for mounting 33½-76 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	75312	Spring—Reject spring (special)
106	75392	Washer—"C" washer for mounting reject lever
109	75858	Lever—Reject lever
110 111 112	75857	Switch—"On-Off" switch complete with insulating strip (111) and cover (112)
113	76909	Retainer—Switch cover retainer (flat)
114	75314	Spring—Return spring (coil type) (.128" O.D. x 7/16"—14 turns)
115	75313	Lever—Stop lever
116	77258	Strip—Bearing strip for stop lever shaft
117	75812	Nut—Speed nut for mounting stop lever bearing shafts
116	75844	Spring—Pickup arm return lever spring (coil) (.583" O.D.—3½ turns)
119	75849	Washer—Fibre washer for pickup orm pivot shaft
120	75849	Lever—Pickup arm return lever
121	75860	Retainer—Retaining ring for pickup arm return lever
122	76952	Nut—Elevating rod adjustment nut
123	76951	Rod—Elevating rod
124	75845	Shaft—Pickup arm pivot shaft and lever
128	76906	Spring—Thrust spring (conical) for elevating rod
128	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	75858	Gear—Cycling gear complete with shaft and engagement pawl 130A
131	75853	Pawl—Trip pawl—lower
132	76900	Bumper—Rubber bumper for 10" indexing lever
133	76901	Lever—10" indexing lever
134	75314	Spring—Return spring (coil type) (.128" O.D. x 7/16"—14 turns)
135	———	Washer—Metal washer (steel) (1/32" x 7/16" O.D. x .140)
135	———	Screw—#6-32 x ¼" hex head screw
137	75862	Link—Control link
135	75397	Washer—"C" washer
139	75860	Slide—Trip slide
140	75861	Spring—Escape lever spring (coil) (.120" O.D. x ½"—21 turns)
141	75856	Slide—Cycling slide and cam assembly—less escape lever spring
142	77228	Spring—Stabilizing spring (coil) for cycling slide (.140" O.D. x ⅜"—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

REPLACEMENT PARTS (Cont.)

ILL. NO.	STOCK NO.	DESCRIPTION
		PICKUP ASSEMBLIES For 930409-3 and 930409-9
10	S-5652	Pickup—Ceramic pickup complete with two styli —for 930409-3
10	75044	Pickup—Crystal pickup complete with two styli —for 930409-9
10A	75046	Stylus—Osmium tip stylus and holder (.003" r., uncoded) for 76 r.p.m.
10B	75045	Stylus—Osmium tip stylus and holder (.001" r., coded red) for 45-33⅓ r.p.m.
10C	75274	Nut—Knurled nut to mount stylus
		PICKUP ASSEMBLIES For 930409-4 and 930409-6
10	162A001	Pickup—Ceramic pickup complete with two styli
10A	490B001	Stylus—Osmium tip stylus (.003" r., uncoded) for 78 r.p.m.
10B	490A001	Stylus—Osmium tip stylus (.001" r., coded red) for 45-33⅓ r.p.m.
		PICKUP ASSEMBLIES For 930409-5, 930409-10 and 930409-11
10	75475	Pickup—Crystal pickup complete with two styli
10A	75497	Stylus—Osmium tip stylus (.003" r., uncoded) for 78 r.p.m.
10B	75496	Stylus—Osmium tip stylus (.001" r., coded red) for 45-33⅓ r.p.m.
10C	74230	Nut—#00-112 nut and washer to mount stylus
		PICKUP ARM ASSEMBLIES
5	76902	Knob—Stylus selector knob less screw
6	76998	Screw—#2-56 x 3/16" headless set screw for stylus selector knob
7	76949	Arm—Pickup arm shell (plastic) for 930409-5, -10 and -11
7	100A001	Arm—Pickup arm shell (plastic) for 930409-3, -4, -6 and -9
7A	76948	Screw—Pickup arm mounting bracket pivot screw
7B	76947	Bearing—Pickup arm mounting bracket pivot bearing
6	75606	Cable—Three (3) wire pickup cable complete with connectors for 930409-5, -10 and -11
8	163A001	Cable—Three (3) wire pickup cable complete with connectors for 930409-3, -4, -6 and -9
9	———	Screw—#4-40 x ⅛" fillister head screw to mount pickup cartridge
11	76957	Swivel—Pickup cartridge mount and swivel assembly for 930409-5, -10 and -11
11	130A001	Swivel—Pickup cartridge mount and swivel assembly for 930409-3, -4, -6 and -9
12	75809	Spring—Pickup arm counterbalance spring
13	75810	Bracket—Pickup arm weight adjustment bracket (slide)
14	76999	Screw—#6-32 x ⅛" round head screw for pickup arm weight adjustment bracket
15	76996	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	76913	Screw—Height adjustment screw (hex head—#5-40 thread)
16	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

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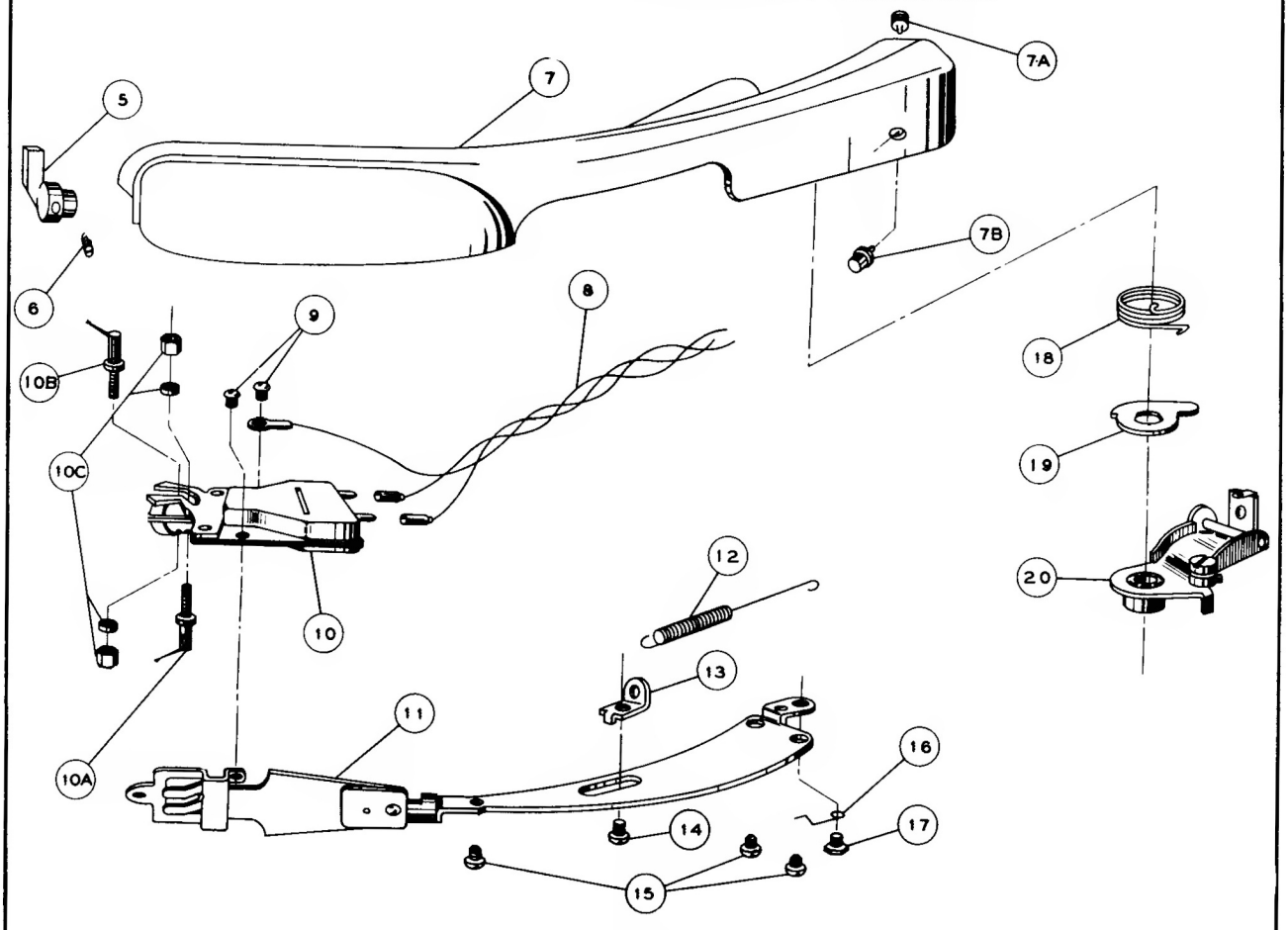

Fig. 29—Pickup Arm Assembly for 930409-5 and -10