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RCA VICTOR

BERKSHIRE

Automatic Record Changer

(Thorens Mod. "CONCERT" CD. 40)

SERVICE DATA

—1948 . . . No. CCP-4—

RADIO CORPORATION OF AMERICA
CONSUMER CUSTOM PRODUCTS DEPT.
RCA VICTOR DIVISION
745 FIFTH AVE., NEW YORK 22, N. Y.

PH 325

See Last Page For Table of Contents

Features

1. This record changer is a center support intermix mechanism designed to play automatically a series of ten, ten-inch or eight, twelve-inch records of the standard 78 RPM type. It will also play a series of eight intermixed ten or twelve inch records automatically.
2. The mechanism is equipped with a light weight high quality variable reluctance type pickup having a long life sapphire point.
3. The mechanism will automatically stop and the tone arm return to rest position after the completion of the last selection.
4. The automatic tripping device depends upon the acceleration of the pickup as it leaves the recorded section of the record.
5. The mechanism has an accessible variable speed control.
6. A repeat action is provided which enables the record being played to be repeated.
7. A pause action is also provided, which produces a 2½ minute pause between each selection.

Automatic Operation

1. Raise the overarm from the center post.
2. Place a stack of records over the end of the center post having the edge of the records resting on the record support.
3. Lower the overarm down over the end of the center post.
4. Push the "start-stop" control to start position. (Make certain the control is pushed hard enough to remain engaged.)
5. To reject a record being played, move reject knob to reject position.
6. To repeat a selection being played, push repeat knob to repeat before the mechanism starts into change cycle.
7. To pause between records for 2½ minutes, move pause knob to pause position. The mechanism will pause between each selection until the pause lever is moved back to normal position.
8. To remove records from turntable, raise the overarm and remove center post. Records may then be raised easily from the turntable.

Manual Operation

This mechanism is primarily designed to play a series of records automatically, but a single record can be played. Place the record over the center post and proceed as for automatic operation.

Helpful Suggestions

Before servicing the automatic changer, inspect the assembly to see that all gears, cams, springs, levers, etc., are correctly assembled and in good working order.

1. Never use force to start or stop the motor or any part of the record changing mechanism.
2. If for any reason, the mechanism stalls, turn off the "on-off" switch, lift the overarm gently and remove the records from the center post. Remove the center post. The turntable should rotate very easily by hand if the "on-off" switch is in the "on" position.
3. A cracked or chipped record may damage the sapphire.
4. Warped records may slide on one another while playing and result in unsatisfactory reproduction.
5. Do not leave the records on the record posts or on the turntable as they may warp, particularly in warm climates. Most warped records may be flattened by placing them on a flat surface with a heavy flat article placed on top of them for a few days.

Power Consumption 15 watts.

Switch for adaption to following Voltages:

100 - 125
125 - 150 } Volts AC 50 to 60 cycles.
200 - 250

First Edition—1st Printing

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Printed in U. S. A.

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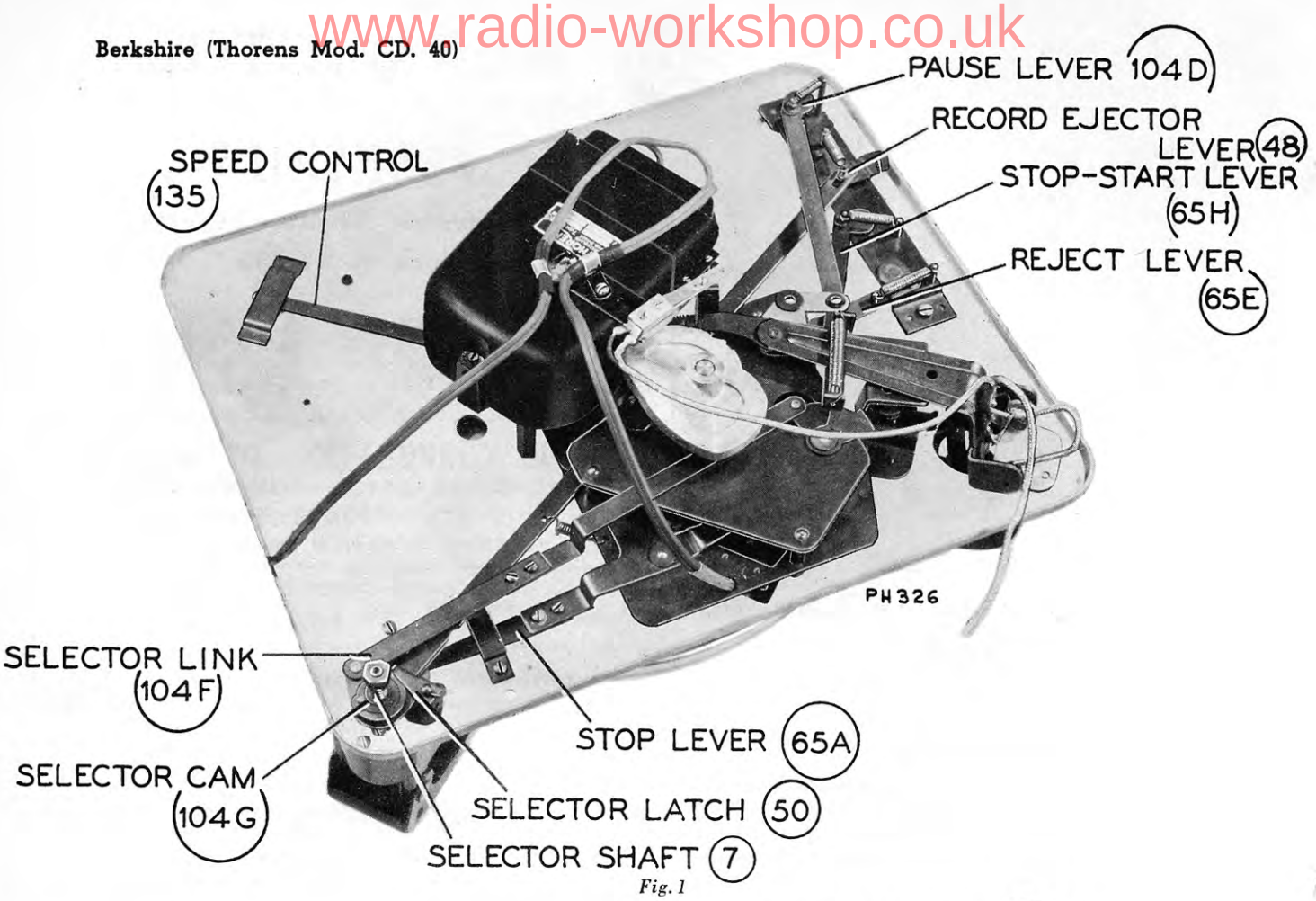

Fig. 1

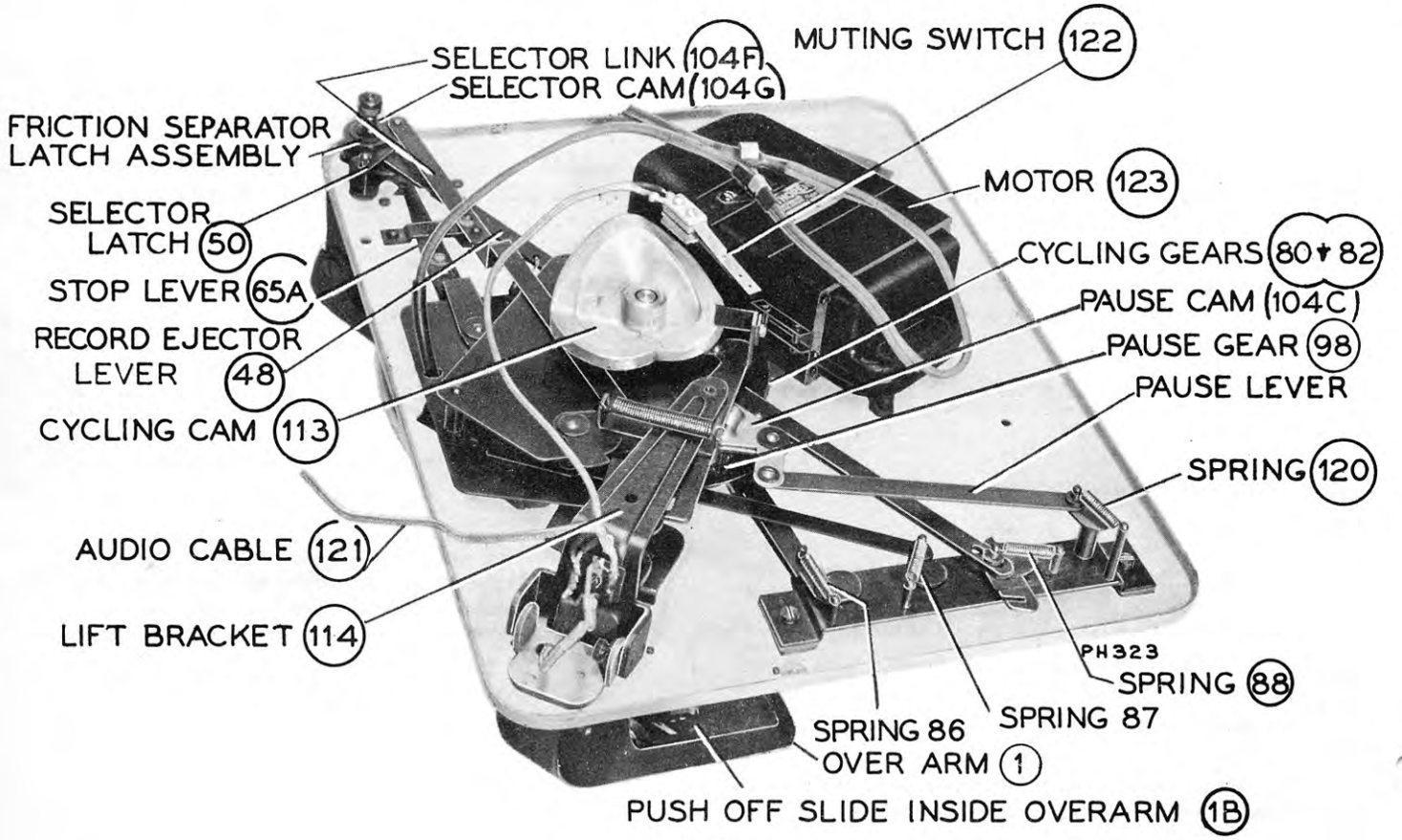

Fig. 2

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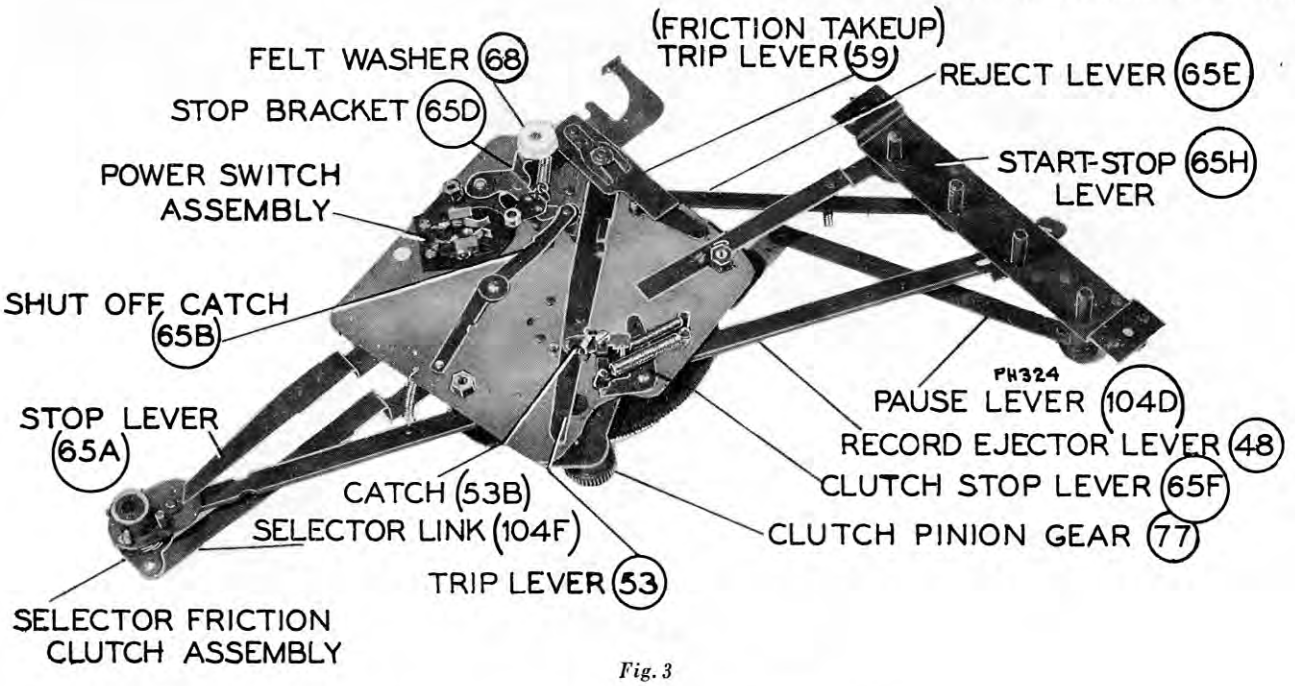

Fig. 3

FUNCTION OF PRINCIPAL PARTS

Overarm (1), Fig. 2

Overarm functions as a support for the center post, and houses the push-off slide which actuates the push-off lever during change cycle.

Push-off Lever (8A), Fig. 11

The push-off lever is the movable element in the top end of the center post which separates the records.

Push-off Slide (1B), Fig. 2

The push-off slide consists of a flat piece of metal located inside the overarm. It connects the selector shaft (7) to the push-off lever (8A) thereby transmitting the rotary motion of the selector shaft to a sliding action necessary for record separation.

Record Ejector Lever (48), Fig. 1

The record ejector consists of a long lever which transmits the action from the cycling gear to the record separator shaft.

Lift Bracket (114), Fig. 2

The lift bracket forms a link between the cycling cam and the tone arm, and governs the vertical movement of the tone arm.

Selector Link and Cam (104F and 104G), Fig. 1

The selector Link and Cam assembly transmits motion from the selector shaft assembly, regulating the landing position.

Selector Latch (50), Fig. 1

Selector latch consists of a small "U" shaped piece of metal which contacts and locks cam (104G). This locking action positions the tone arm for landing on 12 inch records.

Latch does not remain engaged when the tone arm assumes a position for landing on 10 inch records.

Cycling Cam (113), Fig. 2

The cycling cam consists of a channeled cam which directs the horizontal and vertical motion of the tone arm.

Muting Switch (122), Fig. 2

The muting switch functions as a device which automatically shorts out the pickup while the mechanism is going through change cycle.

Trip Lever (53), Fig. 3

The function of the trip lever is to automatically disengage the clutch stop lever (65F) and start the mechanism through change cycle.

Striker Pad (129) (Located on Motor Spindle), Fig. 11

The striker pad functions as part of the tripping device. Before the pickup enters the eccentric groove of the record the striker pad pushes the trip lever back with each revolution of the spindle, thereby preventing tripping. After the pickup enters the eccentric groove of the record, the trip lever latches and the striker pad strikes the trip lever as before, but this time it trips the mechanism.

Stop Lever (65A), Fig. 1

The stop lever assembly functions as a device to stop the mechanism automatically after last selection of the stack has been played. One end of the lever is held by contacting stop feeler (32B) while the other end is pushed outward momentarily from the contact made by stud (80A) located on cycling gear (80). The movement of the stop lever unlatches stop bracket (65D) allowing the felt washer to apply pressure against the rim of the turntable and at the same time opens power switch, removing power from the drive motor.

Clutch Pinion Gear (77), Fig. 3

The clutch pinion gear consists of a gear mounted on a movable carriage. This gear engages the main drive gear (128) during change cycle.

Speed Control (135), Fig. 1

The speed control is an accessible control to regulate the speed of the drive motor by acting on the pressure plate of the motor governor.

Pause Gear (98) (103), Fig. 2

The pause gear assembly consists of a star gear and a small flat gear mounted on the same shaft. It functions in conjunction with a small piece of spring steel (103) located on cycling gear (82). This spring steel piece contacts the star wheel once on each revolution. This momentary contact develops an intermittent motion which is transmitted to cycling gear (80) producing the timing device. For normal operation the pause gear acts as a tie between both upper and lower cycling gears.

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Cycle of Operation

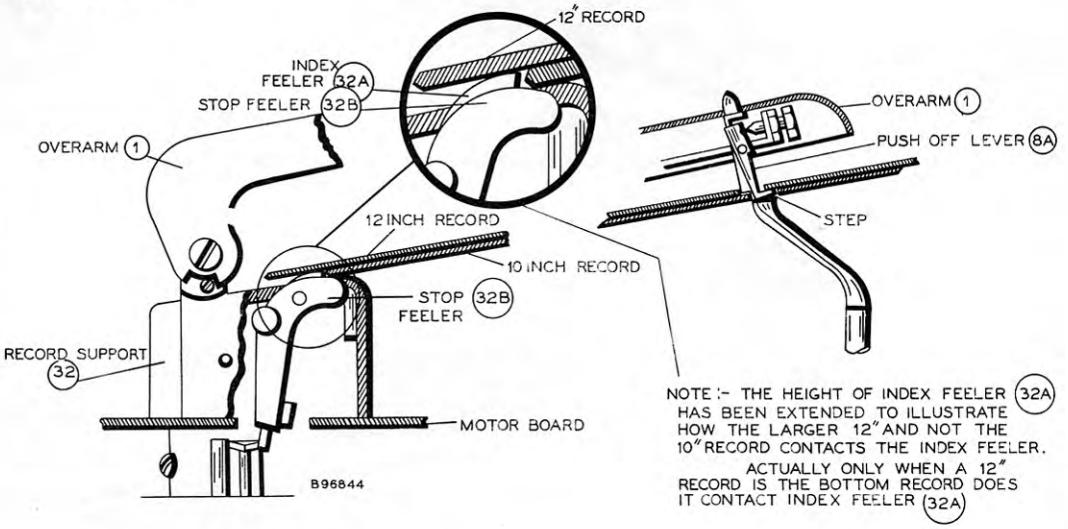
NOTE: In selecting the starting point for the following description, it is assumed that the mechanism has stopped automatically.

FUNCTION

Place a stack of 10 or 12 inch records over the center post. (Intermixed if so desired.)

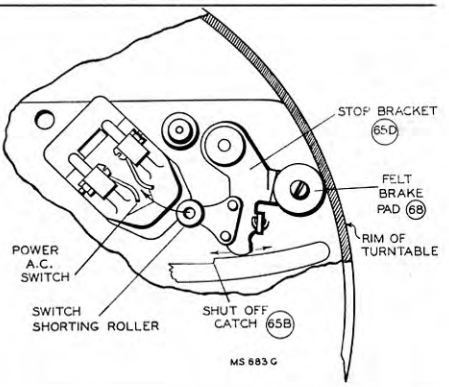
Rotate center post to such a position so as to permit the overarm to fit down over the end of the center post.

1. Records are supported by notch or step in the center post.
2. Edge of records rest on support (32).
3. Both 10 and 12 inch records rest on and actuate the stop feeler (32B) which determines whether the records are played or whether the mechanism stops.
4. The 12 inch records rest on and actuate both the stop and indexing feelers (32B) and (32A). The action of index feeler (32A) determines whether the pickup lands in position for 10 or 12 inch records.



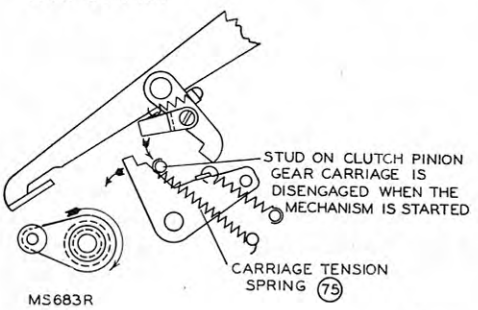
Push the "Start-stop" knob to start position.

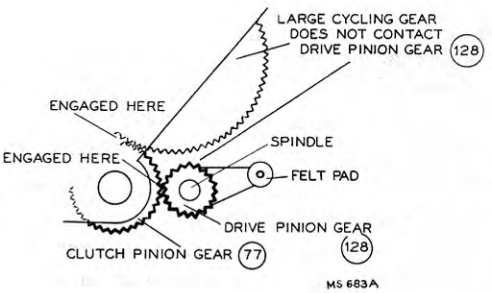
1. The "start-stop" control knob actuates the stop bracket (65D) thereby releasing the pressure applied against the rim of the turntable by the felt brake pad (68). At the same time the power switch is closed applying power to the drive motor.
2. The stop bracket is held in this operating position by the engagement with shut-off catch (65B).



Cycling starts.

1. Clutch pinion gear (77) meshed with both cycling gears start rotating.
2. Cycling gears (80), (82) and cycling cam (113) rotate in the same direction.





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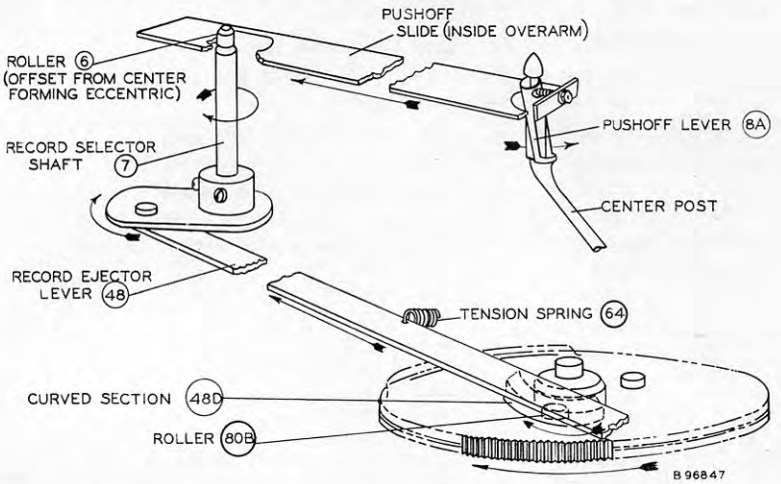
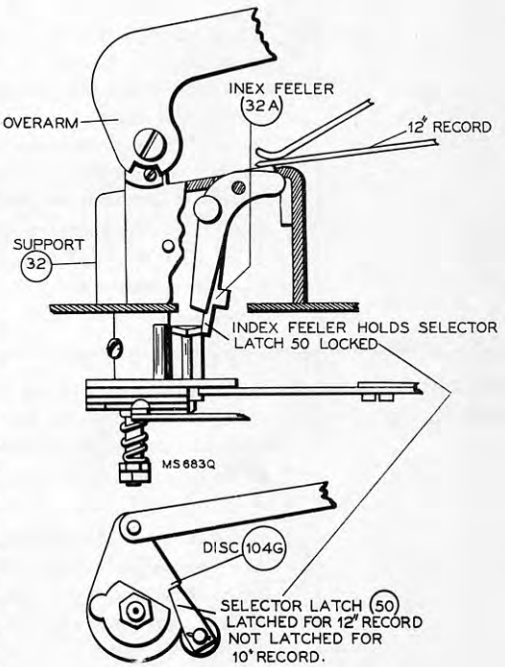
Record drops to the turntable.

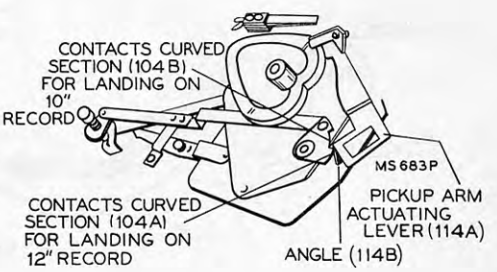
1. Roller (80B) on upper cycling gear (80) slides along curved section (48D) pushing the record ejector lever (48) outward away from the center of the gear.
2. The outward movement of the record ejector lever (48) which has one end connected to separator clutch assembly (located beneath support post) causes the rotation of the record selector shaft (7).
3. The rotation of record selector shaft (7) actuates the push-off slide inside the over-arm. This action is produced by the small roller (6) offset from the center of the shaft. This forms an eccentric on the end of the shaft.
4. The sliding action of the push-off slide actuates push-off lever (8A) thereby pushing records off step in center post.



Tone arm moves in for landing.

1. As the innermost roller (80B) on the upper drive gear slides off the curved section (48D) on the record ejector lever (48) the clutch and shaft assembly snap back from force applied by spring (64).
2. While the clutch and shaft assembly is snapping back, the record push-off lever (8A) is returning to normal position. This allows the next record to drop down into position on the step in the center post.
3. The controlling elements in pickup landing for 10 or 12 inch records are determined by the contact between the angle (114B) and portions of the cam designated by (104B) and (104A). The 12 inch record resting on support, pushes feeler (32A) down thus holding selector latch (50) in position for engagement with the notch, in the lower disc (104G) of the clutch assembly. This engagement between selector latch (50) and the lower disc (104G) of clutch assembly, positions selector link assembly, so the angle (114B) contacts at portion of the cam designated by (104A). This contact causes the pickup to assume the position for landing on 12 inch records. At this point it is important to understand that the engagement between selector latch (50) and the lower disc (104G) of the clutch assembly is only maintained while the pickup is landing. The next instant before the cycling is completed the outer stud (80A) on upper cycling gear momentarily contacts the outside of the curved section (48D) of the record ejector lever, pushing the ejector lever inward. This second snap action unlatches selector latch (50). When a 10 inch record rests on the record support it does not extend sufficiently to contact feeler (32A) so the feeler (32A) remains undisturbed. As the clutch assembly snaps back selector latch (50) does not engage notch in disc (104G). In this case the angle (114B) contacts portion of the cam designated by (104B). This causes the pickup to assume the position for landing on 10 inch records. Selector latch (50) never contacts notch in lower disc (104G) when playing a complete stack of 10 inch records. Therefore the snap back action of the record ejector lever is completed in one motion since the curved section (48D) has moved sufficiently to allow stud (80A) to pass without making contact.





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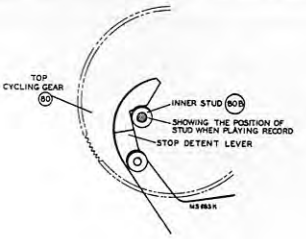
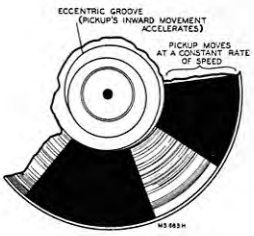
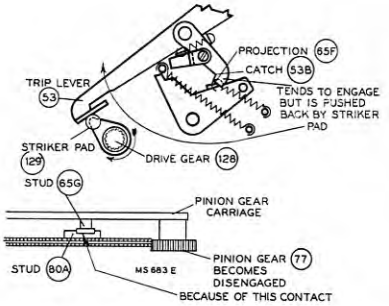
4. As the cycling cam continues to rotate the stud (114D) slides down the incline in the cycling cam (113) and allows the pickup to land on the start of the record.



Cycling complete, and record plays.

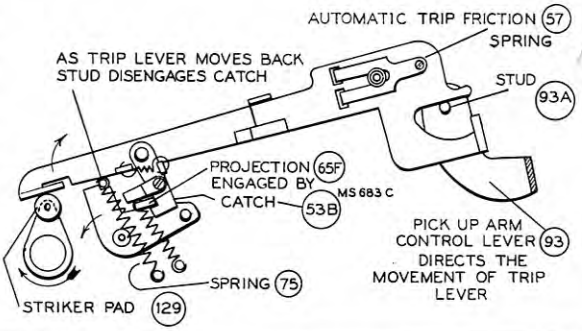
1. An instant after pickup lands the roller (80A) momentarily contacts stud (65G) on carriage supporting pinion gear (77) and disengages the pinion gear from the drive gear (128).
2. The cycling stops as the stud (80B) is locked in position with the detent lever.
3. As the record plays and the pickup approaches the eccentric groove traveling at a constant rate of speed the trip lever (53) is being carried towards the center post.
4. Catch (53B) is tending to engage projection on the clutch stop lever (65F) but is prevented from doing so by the movement of the striker pad (129), which is synchronized with the inward movement of trip lever. Therefore, each revolution of drive gear (128), the trip lever is pushed back preventing the mechanism from tripping.





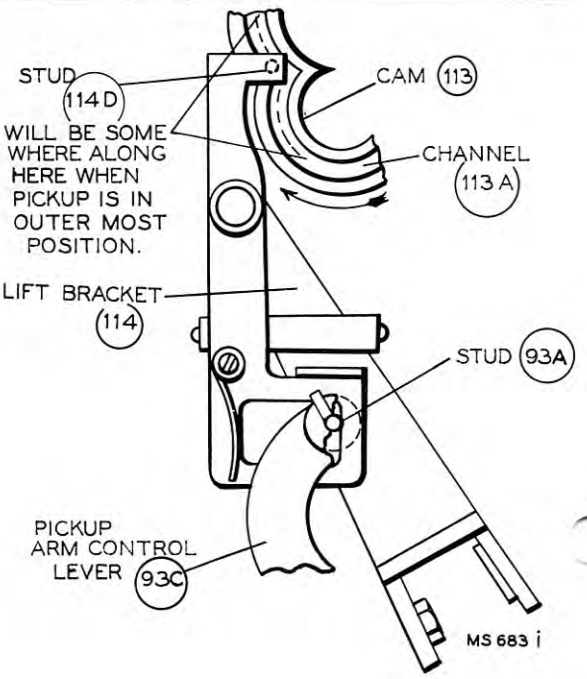
Mechanism trips.

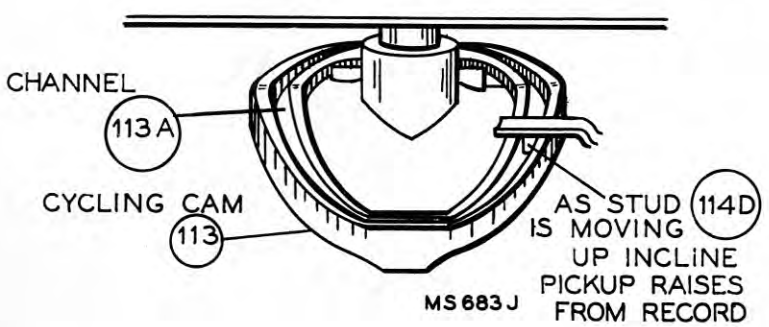
1. This synchronized action of the striker pad (129) and the trip lever continues as long as the pickup moves inward at a constant rate. When the pickup reaches the eccentric groove the inward movement of the pickup is accelerated to such an extent that contact between catch (53B) and projection on the clutch stop lever (65F) is made before the striker pad has time to make a complete revolution and push it away.
2. Since the projection on stop lever (65F) is latched with catch (53B) the striker pad strikes trip lever as before but it now trips the mechanism which allows the spring (75) to pull gear (77) against rotating drive gear.



Pickup raises and moves out.

1. The engagement between the drive gear (128) and the clutch pinion gear (77) starts the main cycling gears rotating. The main cam pinned to the shaft rotates also.
2. As cycling cam rotates the stud (114D) [located on the end of lever (114)] follows the channel (113A) of the cycling cam.
3. When the stud (114D) moves up the inclined portion of the cam (113) the pickup raises from the record. As this stud reaches the horizontal portion of the cam, the pickup is pushed outward until it clears the edge of the record at which time another record drops to turntable.





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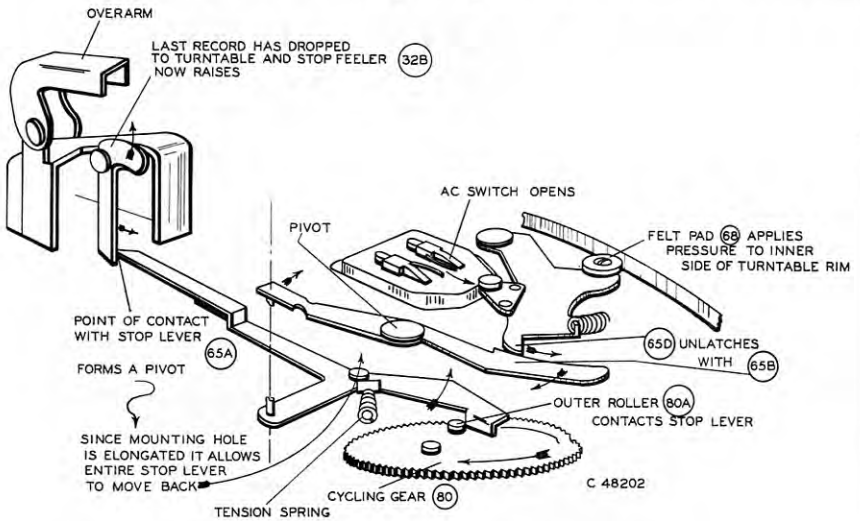
Last record of the stack has been played and the mechanism stops automatically.

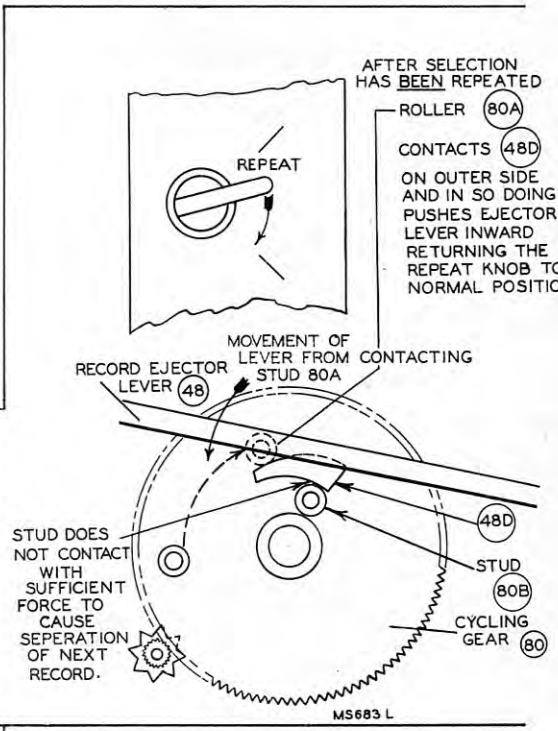
1. As the last record of the stack is being pushed off the stationary post, the feeler (32B) raises since the force produced by the weight of the record has been removed.
2. The feeler (32B) raises, causing the other end of the feeler to form a stop for the stop lever (65A).
3. As the cycling gears rotate the outer roller (80A) located on upper cycling gear (80) contacts and pushes stop lever (65A) outward. The contact between feeler (32B) and the end of the stop lever (65A) forms a pivot in such a manner as to cause (65B) and (65D) to unlatch. This unlatching opens the AC switch contacts and allows the felt pad (68) to apply pressure against the turntable rim, thereby stopping the mechanism instantly. The stop control knob also returns to stop position.
4. The tone arm gradually coasts to the outside of the motorboard and clearing the edge of the turntable.



Repeat action.

1. Pushing the repeat knob actuates record ejector lever (48) and places the curved section (48D) in such a position which permits the roller (80B) to touch the curved section lightly but does not produce sufficient movement to actuate the record separating mechanism. Therefore no record drops.
2. The outer roller (80A) on the cycling gear (80) pushes the record ejector lever (48) back to normal position while going through cycle following the completion of the repeated selection. At this time the repeat knob assumes the off position also.

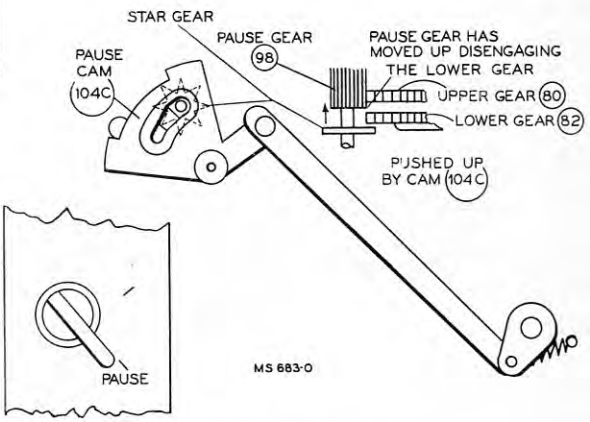
   The mechanism will continue automatically without repeating.

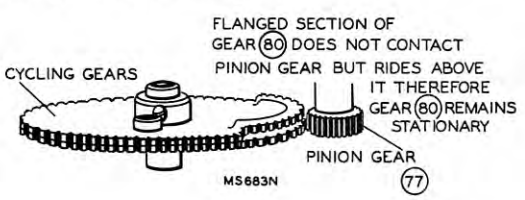


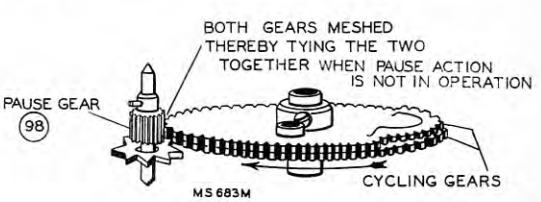
NOTE: The lower cycling gear (82) is not pinned to shaft but free to rotate in either direction when not meshing with any of the gears.

Pause action.

1. When the mechanism is operating normally without the pause action, both cycling gears are rotating as one since both are meshed with pause gear (98).
2. When the pause knob is pushed to pause position the cam (104C) raises the pause gear so it only engages the upper cycling gear.
3. The upper cycling gear (80) has a section of the gear edge flanged in such a manner as to displace the teeth for approximately 1/5 of the circumference.
4. This flange in the upper cycling gear (80) allows that section of the gear to extend above the rotating pinion gear (77) and in so doing remains stationary.







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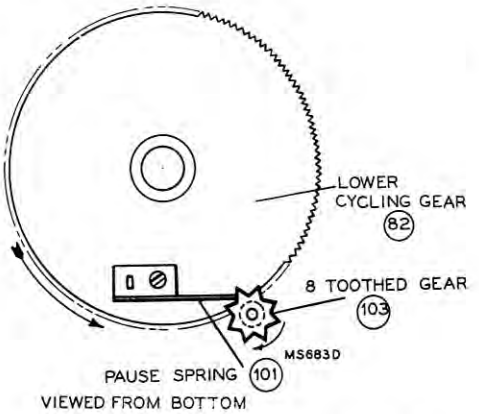
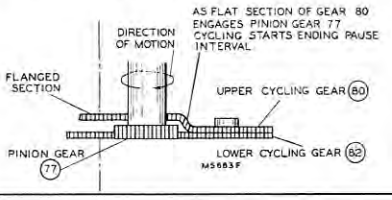
5. As the lower cycling gear continues to rotate a small piece of spring steel (101) fastened on the bottom side of the gear engages the small eight toothed star gear (103). On each revolution of lower cycling gear (82) the small spring steel piece of metal (101) rotates the pause gear assembly the distance between teeth.
6. This slight rotation of the pause gear produced by each revolution of cycling gear (82) rotates the upper cycling gear slightly.
7. After 20 revolutions of the lower cycling gear (82) the pause gear has rotated the upper cycling gear (80) sufficiently, to enable the flat section of the gear (80) to contact pinion gear (77) and make one complete rotation. One rotation being one change cycle which starts the next record through the playing cycle.
8. This pause action will take place after each record has been played unless the pause knob is placed in the "off" position or the last record of the stack has been played, at which time the mechanism will stop automatically.





Separator Shaft (7) Adjustment

1. Remove the power plug from the AC receptacle.
2. Make certain the pause and reject knobs are in the "off" position.
3. Push the "start-reject" knob to the start position.
4. Remove center post and place the overarm down to the normal operating position.
5. Rotate the turntable by hand in the normal direction noting the engagement between the stud (80B) on the upper cycling gear (80) and the curved section (48D) of the record ejector lever (48). Continue rotating turntable until the stud (80B) is just ready to slip off the end of the curved section (48D).
6. Loosen set screws (49) in separator clutch assembly and turn the separator shaft (7) in a counterclockwise direction (viewed from the bottom) until the slide in the overarm has reached its limits. Back off slightly and tighten set screws (49).

Separation Adjustment (Push-off Lever) (8A)

1. Remove the power plug from the AC receptacle.
2. Make certain the pause and reject knobs are in the "off" position.
3. Push the "start-reject" knob to the start position.
4. Place overarm down over center post and rotate the turntable by hand in the normal direction, until the slide in the overarm has completed the maximum backward travel. ["Push-off" lever (8A) is now extending the maximum distance.] The limit of travel of "push-off" lever should be 0.272 to 0.280 inches as indicated below. If these limits are not reached adjust screw (1A) under overarm for dimensions indicated.
5. Try a stack of records to determine performance. Readjust screw (1A) if necessary, for better separation. [Tighten lock nut (1C).]

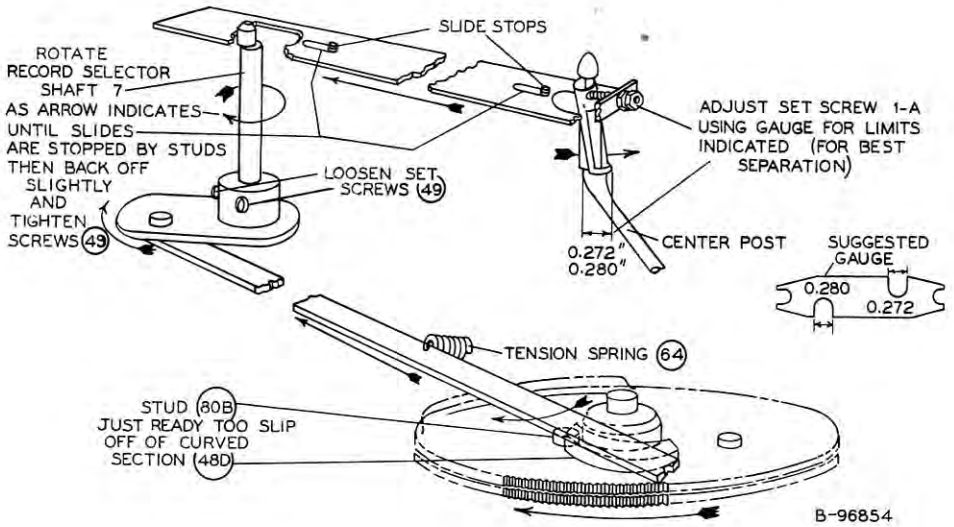


Fig. 4

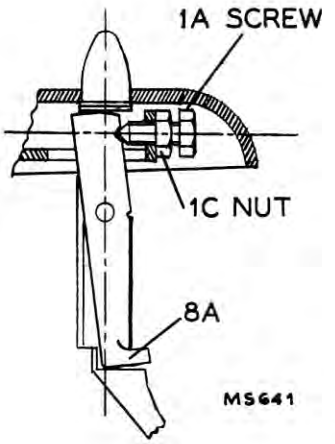


Fig. 5

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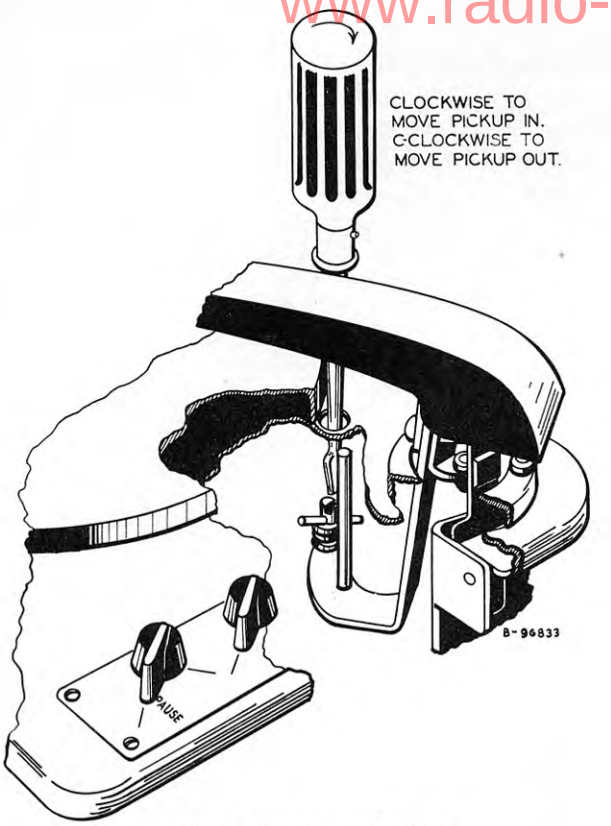

Fig. 6—Landing Adjustment

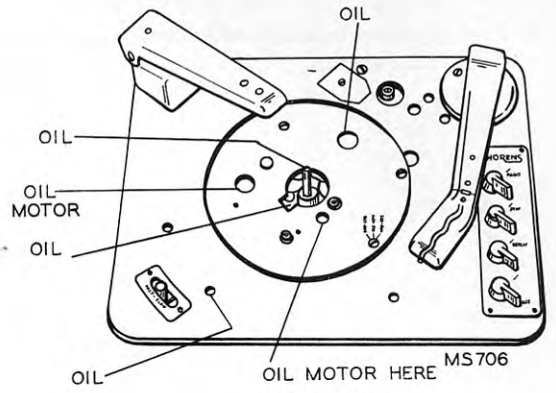

Fig. 7

LUBRICATION

A light machine oil (SAE No. 10) should be used to oil the bearings of the drive motor (painted red) and points indicated in drawing above. On all gears and other surfaces, STA-PUT No. 512, or equivalent, is recommended. STA-PUT can be purchased from E. F. Houghton & Co., 303 W. Lehigh Ave., Philadelphia, Pa.

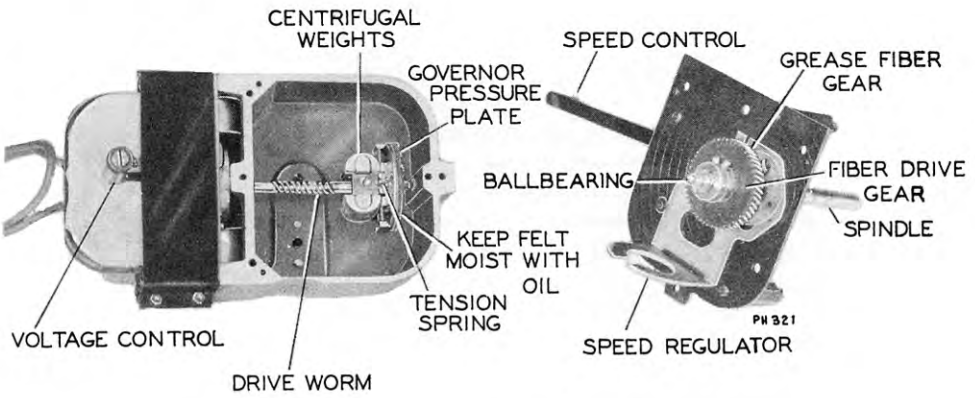

Fig. 8—Motor Showing Governor

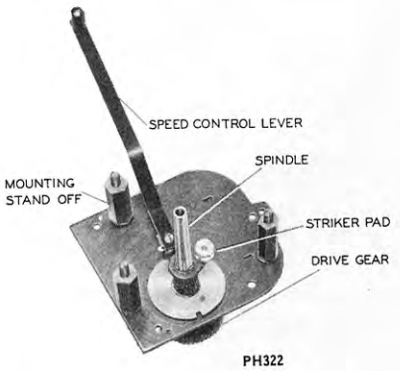

Fig. 9—Motor Top Plate and Gear

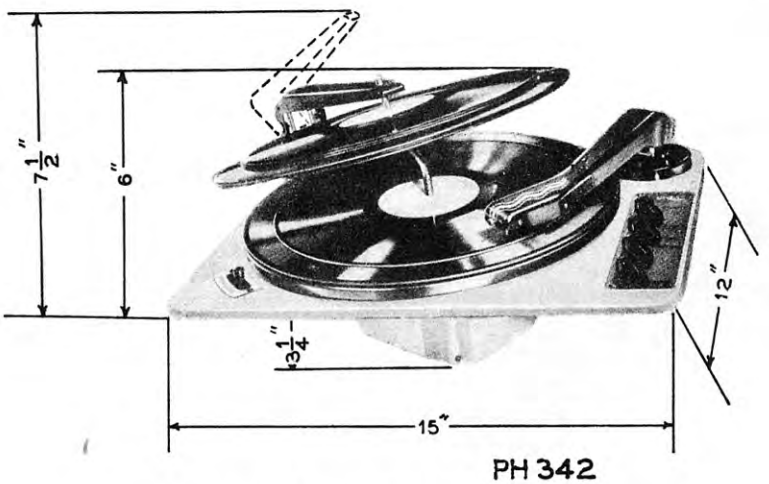

Fig. 10—Mounting Space Requirements

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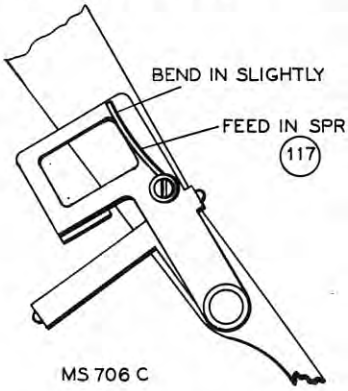
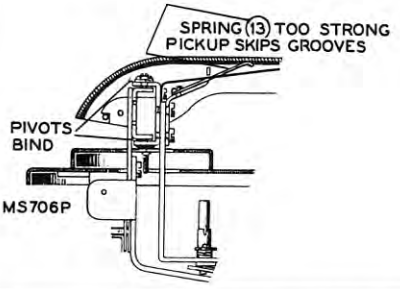
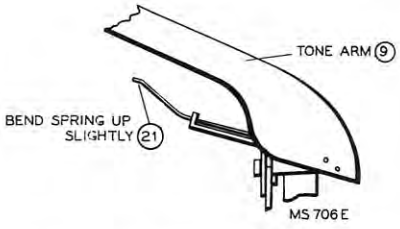
Pickup Remains on Edge of Record (Does Not Feed In)

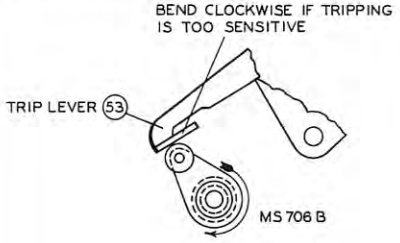


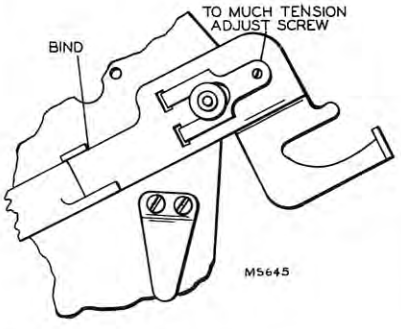


Pickup Does Not Raise Sufficiently to Play Entire Stack

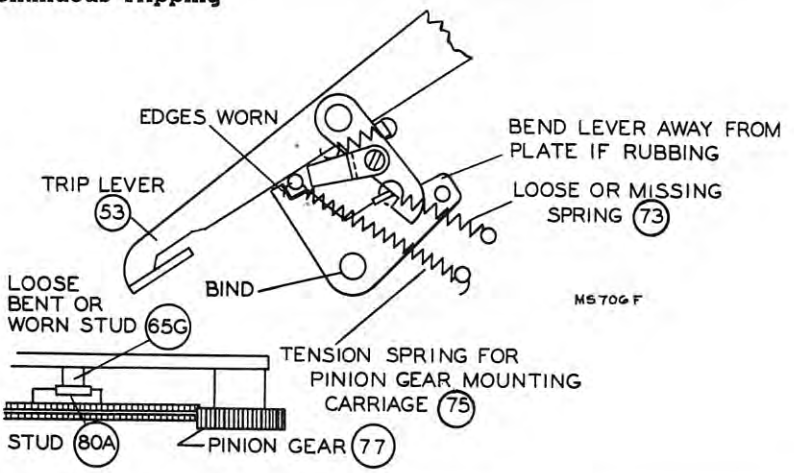


Pre-Tripping

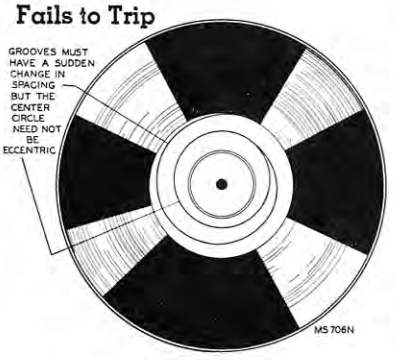


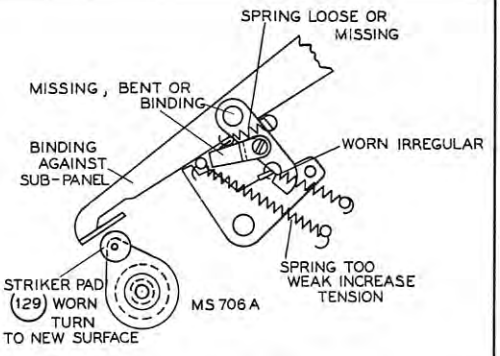


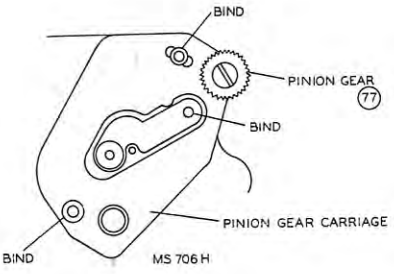
Continuous Tripping

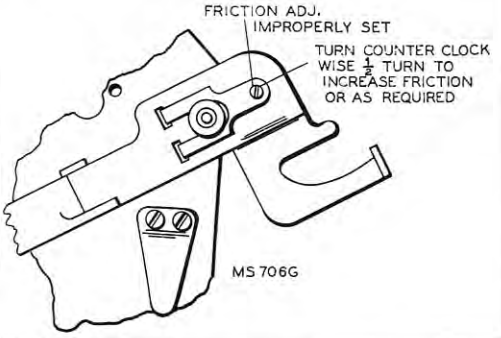


Fails to Trip

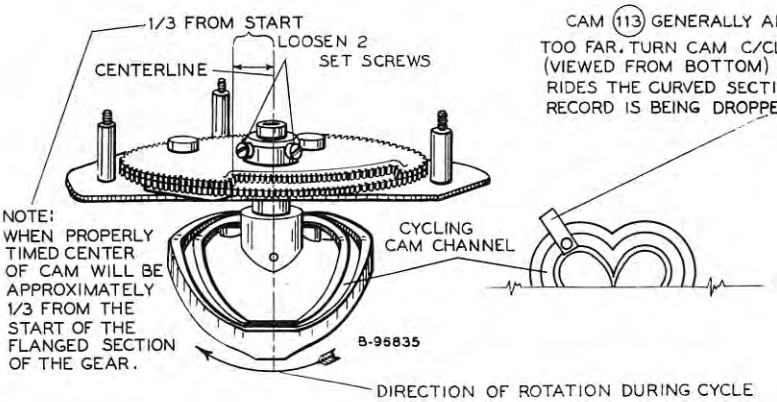








Twelve Inch Records Strike Tone Arm While Dropping



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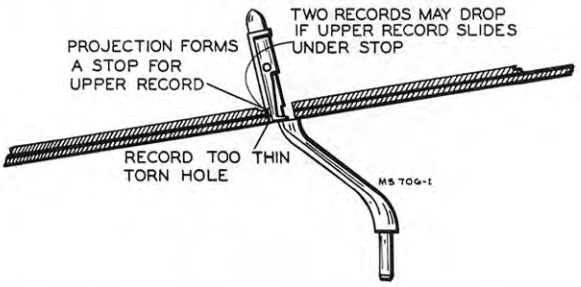
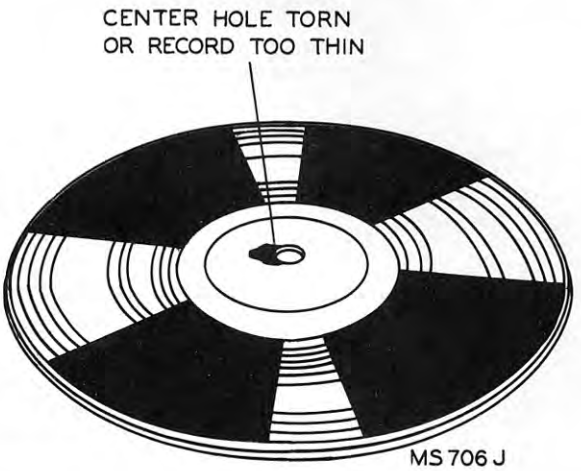
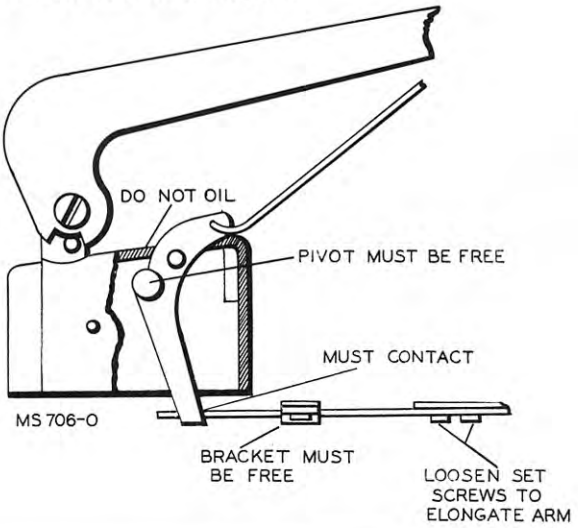
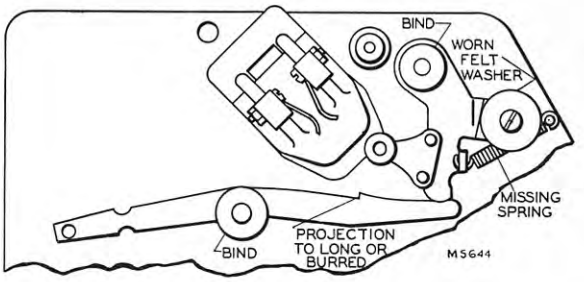
Two Records Drop at One Time





Record Player Does Not Stop After the Last Record Has Been Played



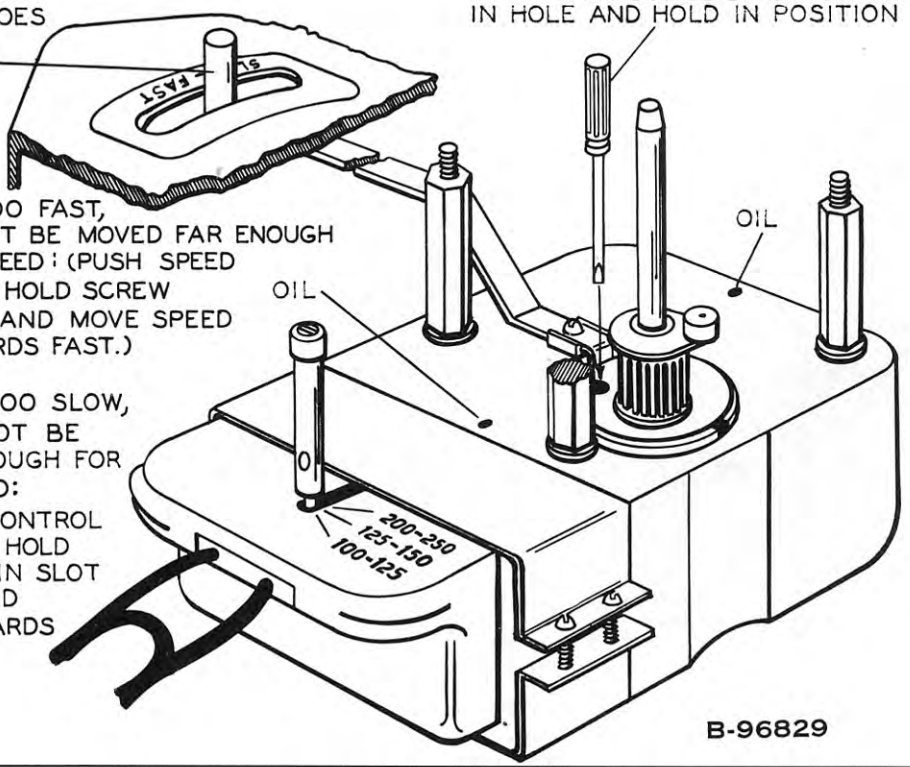


Incorrect Speed

CONTROL DOES NOT HAVE SUFFICIENT MOVEMENT FOR CORRECT SPEED

MOTOR SPEED TOO FAST, CONTROL CANNOT BE MOVED FAR ENOUGH FOR CORRECT SPEED: (PUSH SPEED KNOB TO SLOW, HOLD SCREW DRIVER IN SLOT AND MOVE SPEED CONTROL TOWARDS FAST.)

MOTOR SPEED TOO SLOW, CONTROL CANNOT BE MOVED FAR ENOUGH FOR CORRECT SPEED: (PUSH SPEED CONTROL KNOB TO FAST, HOLD SCREW DRIVER IN SLOT AND MOVE SPEED CONTROL TOWARDS SLOW.)



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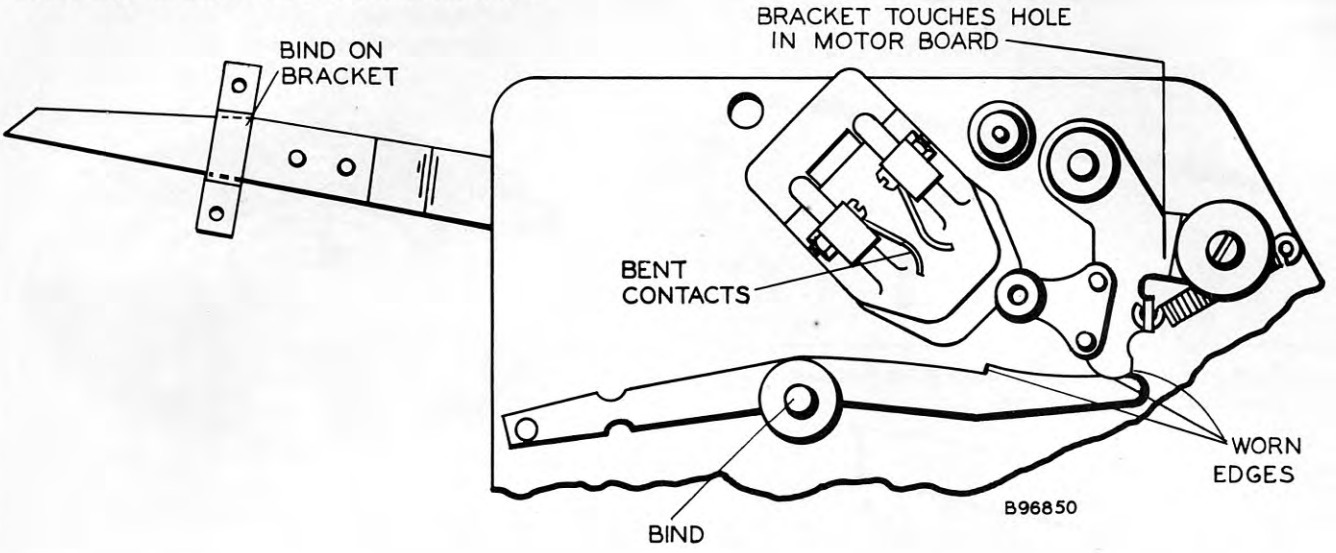
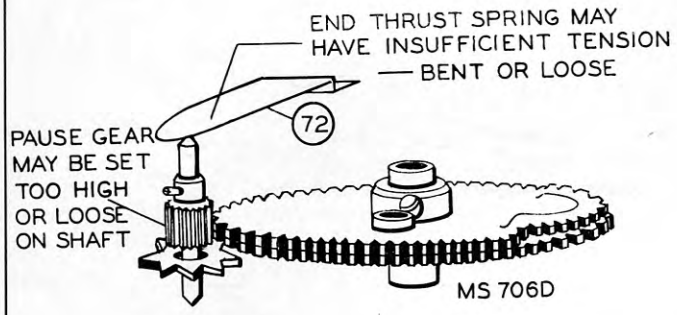
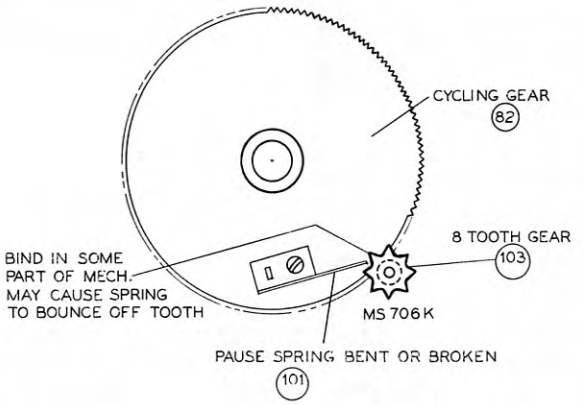
"Start-Stop" Control Will Not Remain on Start

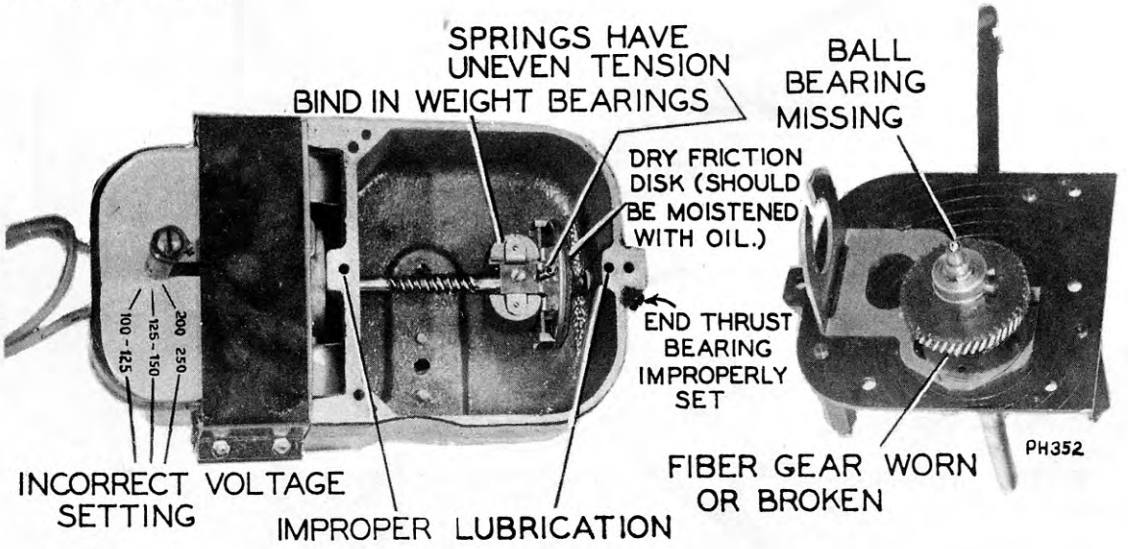


Pause Fails to Function





Erratic Motor Speed (WOW)



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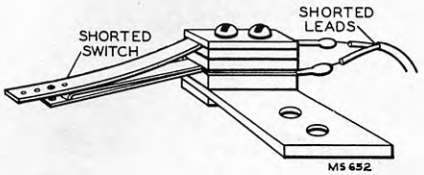
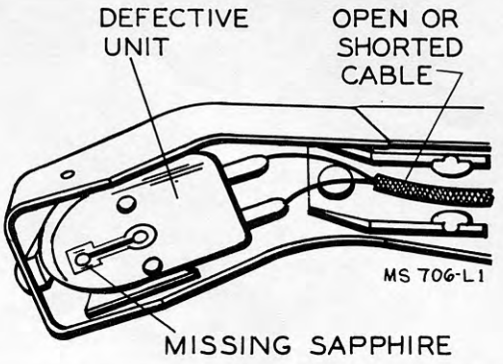
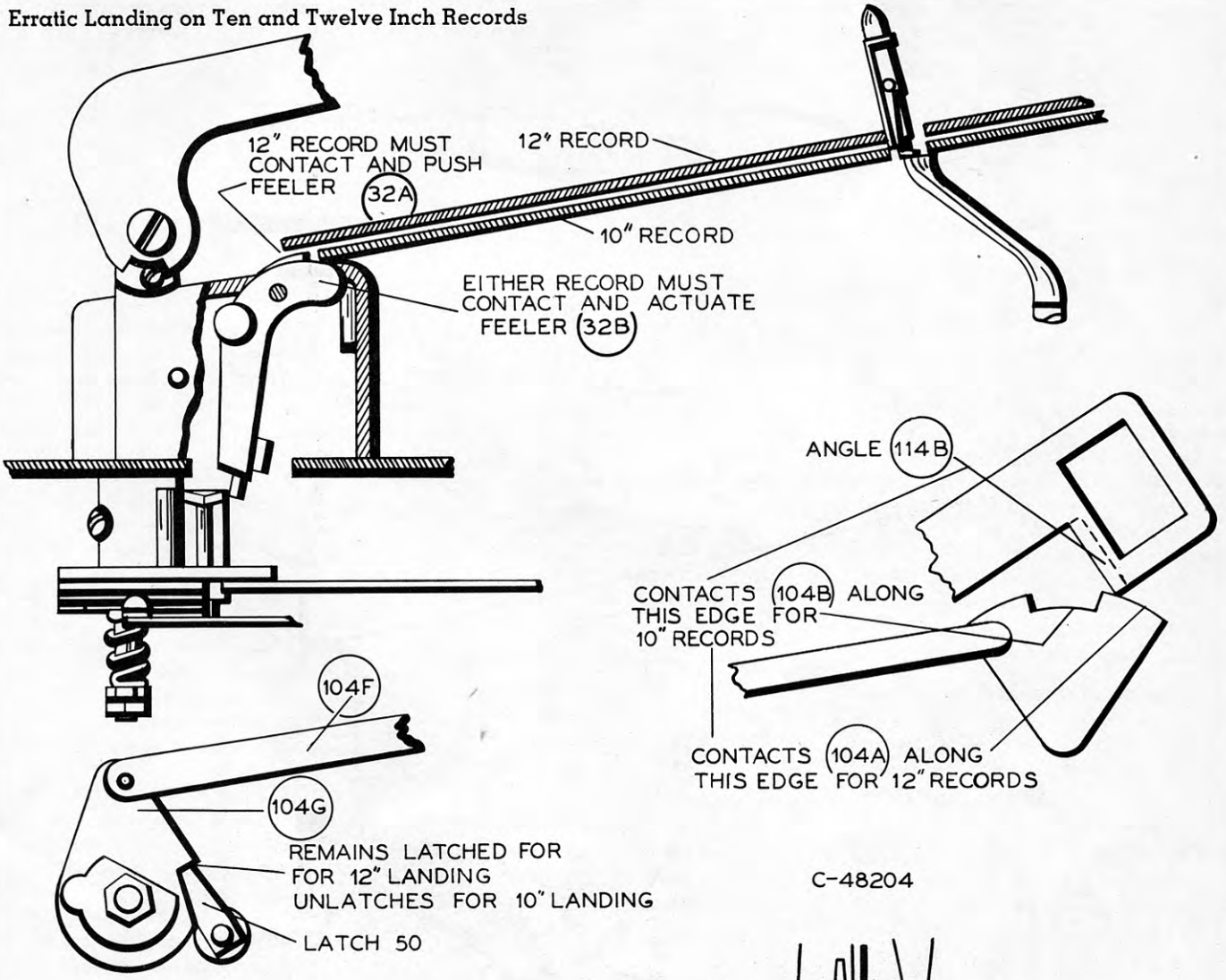
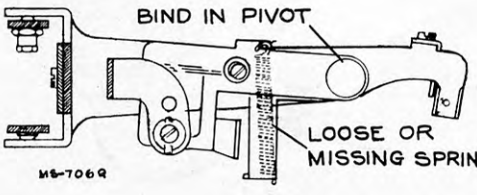
No Output



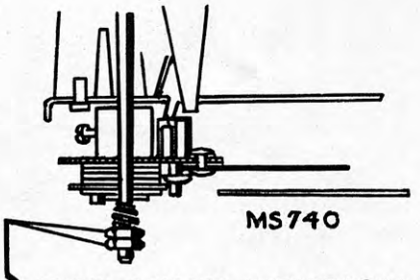


Erratic Landing on Ten and Twelve Inch Records





C-48204



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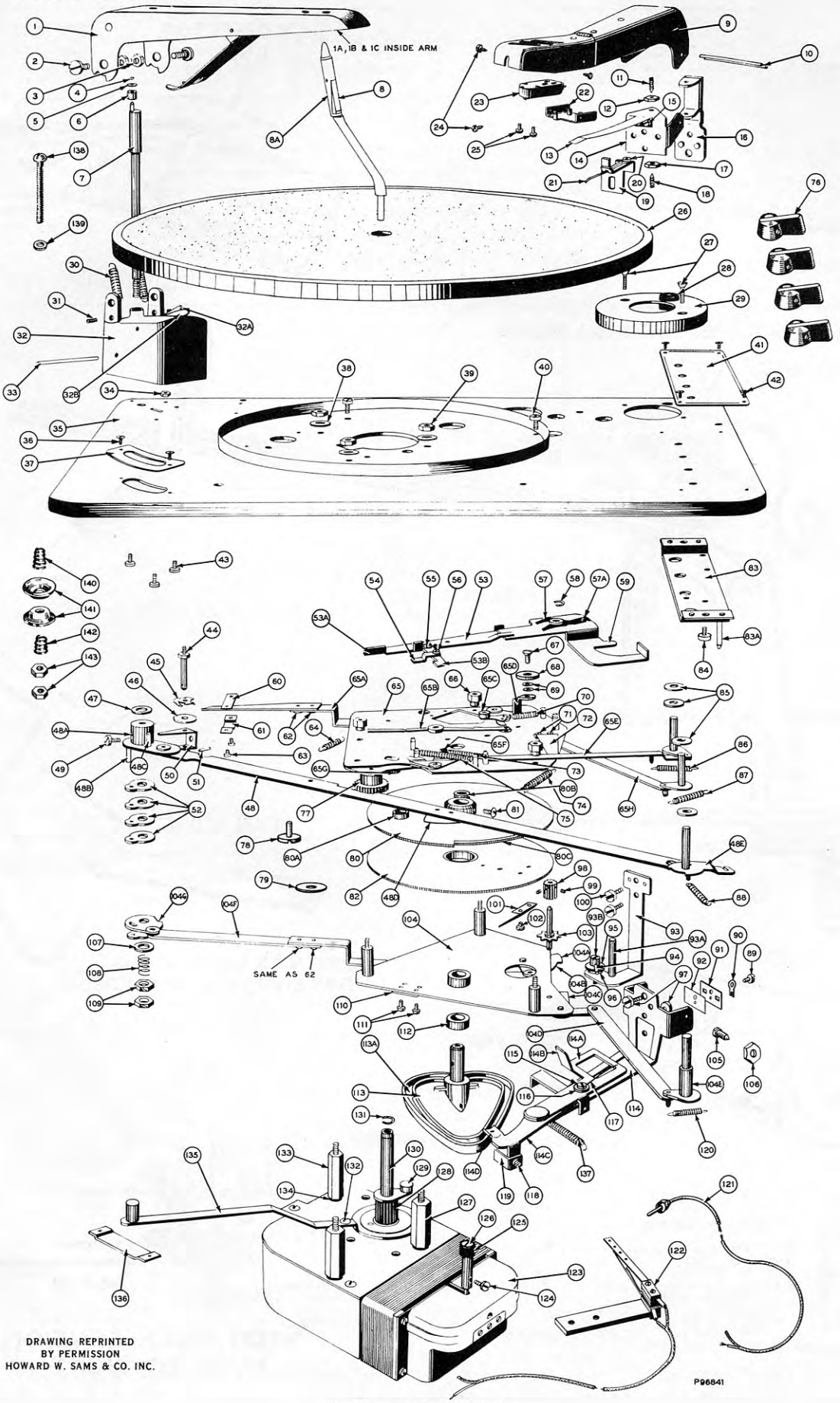

Fig. 11—Exploded View

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REPLACEMENT PARTS

Ref. No.	Stock No.	DESCRIPTION
1		Overarm
1A		Screw (Part of overarm)
1B		Push-off slide (Part of overarm)
1C		Nut (Part of overarm)
2	55451	Pivot screw for overarm
3	55452	Pivot screw nut
4		"C" washer
5		Flat washer
6		Roller
7		Record selector shaft
8	57371	Spindle complete (centerpost)
8A		Push-off lever (Part of centerpost)
9		Tone arm
10		Pivot rods
11		Cone point set screw
12		Lock nut for item 11
13		Tone arm counter balance spring
14		Tone arm mounting hinge
15		Mounting screws for mounting item 14
16		Tone arm pivot bracket
17		Same as item 12
18		Same as item 11
19		Tone arm lift bracket
20	55447	Mounting screw for pickup lift spring
21	55439	Pickup lift spring
22	57331	Pickup cartridge mounting bracket
23	57330	Pickup cartridge complete with sapphire
24		Screws to mount item 22
25		Screws to mount item 23
26		Turntable
27		Mounting screws for item 29
28		Rubber grommet
29		Tone arm pivot base cover
30	57378	Overarm tension spring
31		Stop screw for overarm
32		Overarm platform
32A		Selector feeler } Part of item 32
32B		Stop feeler } Part of item 32
33		Pin for spring, item 30
34		Mounting nut for item 44
35		Motor board
36		Mounting screws for speed control escutcheon
37		Speed control escutcheon
38		Washer (motor mounting)
39		Motor mounting nut
40		Control plate mounting screw
41	57372	Control escutcheon
42	55444	Mounting screws for control escutcheon
43		Mounting screws for item 32
44		Selector pivot pin
45		Spring washer for selector latch
46		Washer for selector latch
47		Flat washer
48		Record ejector lever
48A		Ejector lever crank } Part of Item 48
48B		Mounting pin for selector clutch assembly } Part of Item 48
48C		Stop stud for selector latch } Part of Item 48
48D		Curved section of record ejector lever } Part of Item 48
48E		Repeat return lever } Part of Item 48
49		Screw for selector feeding shaft
50		Selector latch
51		Pin for selector guide rod
52		Clutch washers
53		Trip lever assembly
53A		End of trip lever } Part of item 53
53B		Trip catch } Part of item 53
54		Stabilizer connected to trip lever
55	55449	Spring
56		Mounting screw for item 54
57	55448	Auto trip friction spring
57A	55437	Friction adjustment screw for item 57
58		"C" washer for mounting trip lever assembly
59		Part of trip lever assembly
60		Spacer guide plate
61		Guide bracket
62		Screws for stop lever
63		Mounting screws for items 59 and 60
64		Ejector lever tension spring
65		Upper control plate assembly
65A		Stop lever } Part of item 65
65B		Shut-off catch } Part of item 65
65C		Power switch roller } Part of item 65
65D		Stop bracket } Part of item 65
65E		Reject lever } Part of item 65
65F		Clutch stop lever } Part of item 65
65G		Stud } Part of item 65
65H		Start stop lever } Part of item 65
66		Spacer nut mounted between upper control panel and motor board
67		Mounting screw for felt washer
68	57608	Stop pad (leather or felt)
69		Washers
70	57376	Stop bracket and power switch spring
71		Mounting screws for pause pinion spring
72	57377	Pause pinion spring
73	55436	Tension spring for clutch stop lever
74		Tension spring
75	55440	Clutch plate spring
76	55445	Control knobs

Ref. No.	Stock No.	DESCRIPTION
77		Clutch pinion gear
78		Mounting screw for item 77
79		Washer
80		Upper cycling gear
81		Mounting screws for item 80
82		Lower cycling gear
83		Control shaft mounting plate
83A		Stud part of item 83
84		Mounting screw for item 83
85		Washers for control shafts
86	55441	Reject lever spring
87	55442	Stop start lever spring
88	55443	Repeat lever spring (same as item 120)
89		Terminal board mounting screw
90		Pickup cable connection lug
91 } 92 }	57373	Pickup leads terminal board
93		Tone arm control lever
93A		Stud
93B		Landing adjustment screw
94		Stud part of item 93B
95		Washer
96		Tension spring on landing adjustment screw
97	55446	Mounting screws for item 114
98		Pause gear
99	55450	Set screw for pause pinion
100		Mounting screws for item 93
101		Pause spring
102		Mounting screw for item 101
103		Pause star wheel
104		Lower control plate assembly
104A } 104B }		Landing position cam } Part of item 104
104C		Pause cam } Part of item 104
104D		Pause lever } Part of item 104
104E		Pause control knob shaft } Part of item 104
104F		Selector link } Part of item 104
104G		Selector cam } Part of item 104
105		Pivot screw
106		Pivot screw lock nut
107		Washer part of selector clutch assembly
108	55438	Selector clutch friction spring
109		Selector clutch friction adjustment nut
110		Spring (blade)
111		Mounting screws for item 110
112		Spacer sleeve
113		Cycling cam
113A		Channel in cam part of item 113
114		Lift bracket
114A		Part of lift bracket } Lift Bracket Assembly
114B		Bracket } Lift Bracket Assembly
114C		Part of lift bracket } Lift Bracket Assembly
114D		Stud } Lift Bracket Assembly
115		Feed in spring mounting screw
116		Washer
117	57374	Feed in spring
118		Mounting screw for retaining bracket
119		Retaining bracket
120	55443	Pause lever spring
121		Pickup plug and shielded lead
122		Muting switch and shielded lead assembly
123		Motor complete
124		Screw
125		Sleeve
126		Slotted shaft (switch)
127		Stand-off
128		Drive gear
129		Striker pad
130		Spindle
131		"C" washer
132		Mounting screw for speed control lever
133		Stand-off
134		Washer
135		Speed control lever
136		Guide bracket
137		Spring
138 } 139 } 140 } 141 } 142 } 143 }	55455	Spring mounting assembly
		PARTS NOT IDENTIFIED ON EXPLODED VIEW
	55453	Power switch complete with contacts
	55454	Screw to hold switch cover
		MOTOR PARTS
	57380	End thrust ball
	57381	Motor stator complete
	57382	Turntable main spindle (extending into motor)
	57383	Motor governor complete with weights
	55456	Thrust ball for rotor shaft and bottom of main spindle
	57384	Governor spring
	57385	Thrust plate for bottom of main spindle
	55457	Screw for speed control friction bearing (on each side of spindle)
	55458	Thrust plate cover screw (bottom of motor housing)

PRICES AND REPLACEMENT PARTS ARE AVAILABLE FROM RCA REPLACEMENT PARTS DEPT., CAMDEN, N. J.

NOTE: Only items with Stock Nos. are available at the time of this printing.

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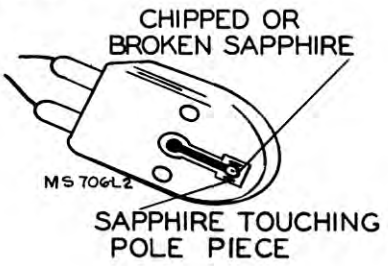
TABLE OF CONTENTS

	Page
Features and Operation	1
Photographs of Underside of Mechanism	2
Function of Principal Parts	3
Cycle of Operation	4-5-6-7-8
Adjustments	8-9
Lubrication	9
Motor Photos (dismantled)	9
Mounting Space Requirements	9
Service Hints (drawings)	10-11-12-13
Pickup Remains on Edge of Records (Does Not Feed In)	10
Continuous Tripping	10
Fails to Trip	10
Pickup Does Not Raise Sufficiently to Play Entire Stack	10
Pre-Tripping	10
Twelve Inch Records Strike Tone Arm While Dropping	10
Two Records Drop at One Time	11
Record Changer Does Not Stop After Playing the Last Record	11
Incorrect Speed	11
"Start-Stop" Control Will Not Remain on Start	12
Pause Fails to Function	12
Erratic Motor Speed (WOW)	12
No Output	13
Erratic Landing on Ten or Twelve Inch Records	13
Exploded View of Mechanism	14
Parts List	15
Distorted Output	16
Howl or Rumble	16
Pickup Force Adjustment	16

Howl or Rumble

The Berkshire instruments are shipped with the Thorens record changer mounted firmly and not suspended on springs. However, in certain cases if acoustic feedback or rumble is encountered, mounting the changer on springs may make a noticeable improvement.

Distorted Output



Pickup Force Adjustment