

MECHANICAL PARTS LIST (Continued)

| Ref. No. | DESCRIPTION                 | MODELS  |         |         |         |         |         |         |         |         |         |         |         |          |          |         |         |         |         |         |         |         |
|----------|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|---------|---------|---------|---------|---------|---------|---------|
|          |                             | RD300-2 | RD300-3 | RD300-4 | RD310-1 | RD310-2 | RD310-3 | RD310-4 | RD310-5 | RD310-6 | RD310-7 | RD310-8 | RD310-9 | RD310-10 | RD310-11 | RD325-1 | RD325-2 | RD325-3 | RD325-4 | RD325-5 | RD325-6 | RD325-7 |
| 5        | Chrome Speed Control Knob   |         |         |         |         |         |         |         |         |         |         |         |         |          |          |         |         |         |         | 26      | 26      | 26      |
| 59       | Tone Arm                    | 6       | 6       | 6       | 7       | 7       | 7       | 7       | 7       | 7       | 7       | 7       | 7       | 7        | 9        | 9       | 9       | 8       | 9       | 8       | 8       |         |
| 60       | Height Adjust Screw         | 10      | 10      | 10      | 10      | 10      | 10      | 10      | 10      | 10      | 10      | 10      | 10      | 10       | 11       | 11      | 11      | 11      | 11      | 11      | 11      |         |
| 61       | Counterweight               |         |         |         |         |         |         |         |         |         |         |         |         |          | 12       | 12      | 12      | 12      | 12      | 12      | 12      |         |
| 62       | Tone Arm Mounting Ass'y     | 13      | 13      | 13      | 14      | 14      | 14      | 14      | 14      | 14      | 14      | 14      | 14      | 14       |          |         |         |         |         |         |         |         |
| 63       | Pivot Screw                 |         |         |         |         |         |         |         |         |         |         |         |         |          | 16       | 16      | 16      | 16      | 16      | 16      | 16      |         |
| 64       | Pivot Pin                   | 38      | 38      | 38      | 38      | 38      | 38      | 38      | 38      | 38      | 38      | 38      | 38      | 17       | 17       | 17      | 17      | 17      | 17      | 17      | 17      |         |
| 65       | Index Cover                 | 18      | 18      | 18      | 19      | 19      | 19      | 19      | 19      | 19      | 19      | 19      | 19      | 19       | 19       | 19      | 19      | 19      | 19      | 19      | 19      |         |
| 66       | Turntable                   | 20      | 20      | 20      | 20      | 20      | 21      | 21      | 20      | 20      | 20      | 20      | 20      | 20       | 20       | 20      | 21      | 20      | 21      | 21      | 21      |         |
| 67       | On-Off-Reject Knob          | 23      | 23      | 23      | 24      | 24      | 24      | 24      | 24      | 24      | 24      | 24      | 24      | 24       | 24       | 24      | 25      | 24      | 25      | 25      | 25      |         |
| 68       | Rest Post                   | 27      | 27      | 27      | 28      | 28      | 28      | 28      | 28      | 28      | 28      | 28      | 28      | 28       | 29       | 29      | 29      | 29      | 29      | 29      | 29      |         |
| 69       | Turntable Mat               | 30      | 30      | 30      | 31      | 31      | 31      | 30      | 30      | 30      | 30      | 31      | 31      | 30       | 31       | 31      | 31      | 31      | 31      | 31      | 31      |         |
| 70       | Motor                       | 32      | 32      | 33      | 33      | 33      | 35      | 34      | 35      | 36      | 33      | 33      | 35      | 33       | 35       | 34      | 34      | 34      | 37      | 34      | 37      |         |
| 71       | Automatic Spindle           | 40      | 40      | 40      | 40      | 40      | 40      | 40      | 40      | 40      | 40      | 40      | 40      | 41       | 41       | 41      | 41      | 41      | 41      | 41      | 41      |         |
| 72       | Tone Arm Bracket Ass'y      | 42      | 42      | 42      | 43      | 43      | 43      | 43      | 43      | 43      | 43      | 43      | 43      | 44       | 44       | 44      | 44      | 44      | 44      | 44      | 44      |         |
| 73       | Anti-Skate Spring           | 45      | 45      | 45      | 46      | 46      | 46      | 46      | 46      | 46      | 46      | 46      | 46      | 47       | 47       | 47      | 47      | 47      | 47      | 47      | 47      |         |
| 74       | Record Support Arm Bumper   | 48      | 48      | 48      | 49      | 49      | 49      | 49      | 49      | 49      | 49      | 49      | 49      | 50       | 50       | 50      | 50      | 50      | 50      | 50      | 50      |         |
| 75       | Tone Arm Box Spring         |         |         |         |         |         |         |         |         |         |         |         |         | 39       | 39       | 39      | 39      | 39      | 39      | 39      | 39      |         |
| 76       | Tone Arm Spring Clip        |         |         |         |         |         |         |         |         |         |         |         |         | 15       | 15       | 15      | 15      | 15      | 15      | 15      | 15      |         |
| 77       | Record Support Arm          | 2       | 1       | 1       | 3       | 3       | 3       | 3       | 3       | 3       | 3       | 3       | 3       | 3        | 4        | 4       | 4       | 5       | 4       | 5       | 5       |         |
|          | Stylus Pressure Spring      | 51      | 51      | 51      | 52      | 52      | 52      | 52      | 52      | 52      | 52      | 52      | 52      |          |          |         |         |         |         |         |         |         |
|          | Stylus Pressure Adjust Clip | 53      | 53      | 53      |         |         |         |         |         |         |         |         |         |          |          |         |         |         |         |         |         |         |

PART NUMBER CHART

| KEY  | CONSOLE  | PORTABLE | KEY  | CONSOLE  | PORTABLE | KEY  | CONSOLE  | PORTABLE | KEY  | CONSOLE  | PORTABLE |
|------|----------|----------|------|----------|----------|------|----------|----------|------|----------|----------|
| (1)  |          | EA1061   | (15) | EA80X180 | RS6542   | (28) | EA80X201 | RS6602   | (41) | EA80X243 | EA1058   |
| (2)  | EA80X222 | EA1031   | (16) | EA80X173 | RS6535   | (29) | EA80X248 | EA1062   | (42) |          | EA1256   |
| (3)  | EA80X46  | EA1061   | (17) | EA80X178 | RS6540   | (30) | EA80X228 | EA1038   | (43) | EA80X184 | EA1256   |
| (4)  | EA80X246 | EA1061   | (18) |          | EA1364   | (31) | EA80X257 | EA1084   | (44) | EA80X159 | RS6520   |
| (5)  | EA80X247 | EA1368   | (19) | EA80X265 | EA1365   | (32) |          | EA1363   | (45) |          | RS6522   |
| (6)  | EA80X237 | EA1067   | (20) | EA80X220 | EA1029   | (33) | EA80X153 | RS6297   | (46) | EA80X161 | RS6522   |
| (7)  | EA80X237 | EA1048   | (21) | EA80X233 | EA1045   | (34) | EA80X60  | RS6063   | (47) | EA80X43  | RS6048   |
| (8)  | EA80X266 | EA1366   | (22) | EA80X258 | EA1369   | (35) | EA80X264 | EA1042   | (48) | EA80X160 | RS6521   |
| (9)  | EA80X254 | EA1367   | (23) | EA80X223 | EA1032   | (36) |          | EA1363   | (49) | EA80X35  | RS6040   |
| (10) | EA80X146 | RS6166   | (24) | EA80X239 | EA1049   | (37) | EA80X207 |          | (50) | EA80X160 | RS6521   |
| (11) | EA80X172 | RS6534   | (25) | EA80X249 | EA1370   | (38) | EA80X101 | RS6105   | (51) | EA80X104 | RS6108   |
| (12) | EA80X245 | EA1060   | (26) | EA80X250 | EA1371   | (39) | EA80X179 | RS6541   | (52) | EA80X147 | RS6167   |
| (13) | EA80X140 | RS6161   | (27) |          | EA1068   | (40) | EA80X22  | RS6027   | (53) | EA80X112 | RS6116   |
| (14) | EA80X255 | EA1065   |      |          |          |      |          |          |      |          |          |

SET 926 FOLDER 7

GENERAL ELECTRIC MODELS RD300/310/325 Series

PHOTOFACT® Folder



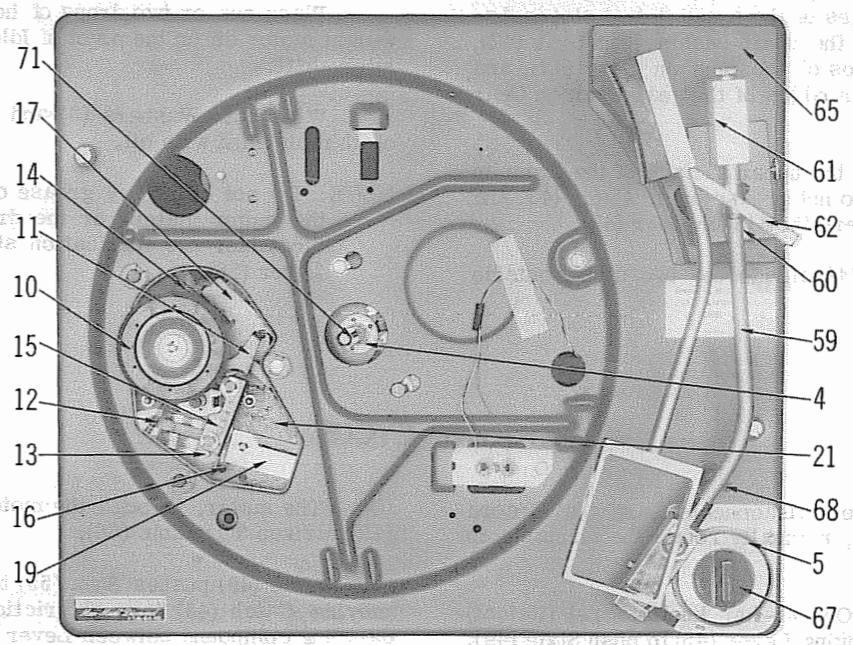
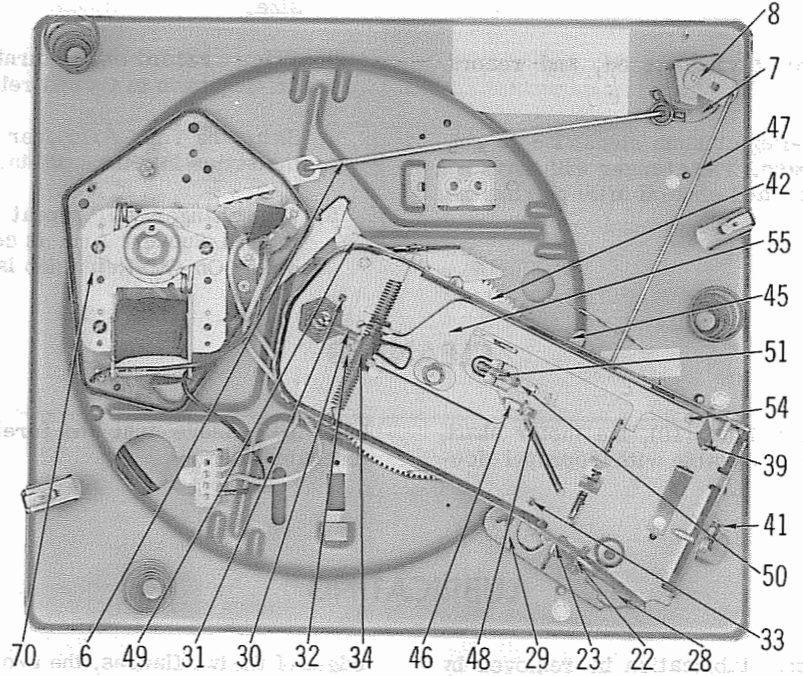
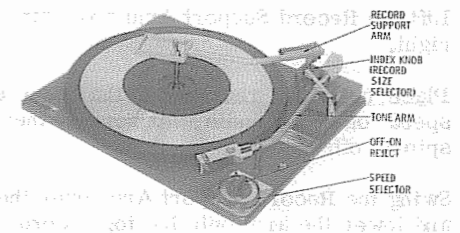
TRADE NAME: General Electric MODELS  
 RD300-2, RD300-3, RD300-4,  
 RD310-1, RD310-2, RD310-3,  
 RD310-4, RD310-5, RD310-6,  
 RD310-7, RD310-8, RD310-9,  
 RD310-10, RD310-11, RD325-1,  
 RD325-2, RD325-3, RD325-4,  
 RD325-5, RD325-6, RD325-7

SUPPLIER: For Current Address, See Annual Index

TYPE SET: 4-Speed, Automatic Record Changer

POWER SUPPLY: 110 - 120 Volts AC, 60 Cycles

GENERAL ELECTRIC MODELS RD300/310/325 Series



GENERAL ELECTRIC MODELS RD300/310/325 Series

SET 926 FOLDER 7



HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. C911

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DATE 12-67 SET 926 FOLDER 7

## OPERATING INSTRUCTIONS

### Loading

1. Lift the Record Support Arm and swing it to the right.
2. Place up to six records of the same size and speed on the spindle, supporting them on the spindle offset shelf.
3. Swing the Record Support Arm over the spindle and lower the arm onto the top record.

### Starting

1. Select the desired stylus, speed, and record size.
2. Turn the Off-On-Reject knob clockwise to rej. (Reject) and release. The changer will play and change each record and shut off after playing the last record.

### Rejecting

To change records while a record is playing, turn the On-Off-Reject knob clockwise to rej (Reject) and release.

### Manual Operation

1. Lift the Record Support Arm and swing it to the right.
2. Select the desired stylus, speed, and record size.
3. Place a record on the turntable and turn the On-Off-Rej knob to On and release.
4. Swing the Tone Arm over the record and lower the stylus into the lead-in groove.
5. The changer will repeat the record until the Record Support Arm is centered and lowered, or the On-Off-Rej. knob is turned to Off.

## CLEANING

Periodically clean Idler (10), the motor shaft, and the inner rim of the turntable with isopropyl alcohol,

and remove dust and foreign matter from the mechanism.

## LUBRICATING

Should the original lubrication be removed by disassembly of the unit or wear become apparent, sparingly apply a light grease to the sliding surfaces of Cam (19), the edges of the speed detent slot in Assembly (21), inside the shaft bushing for Gear (42), the camming surfaces of the pins on Gear (42), and the ramps and bottom edges of the gear teeth on Gear (42).

NOTE: Grease only the upper surface of the ramp in Catch (43). Do not grease or oil Catch (43) and Lever (44) where they touch Gear (42).

Grease Slide (41) inside the two slots, outside

edges of the two flanges, the two supporting edges, and the top of the ramp.

Place one or two drops of household oil or #10 weight motor oil on the pivot of Idler Arm (11) and the idler shaft.

Wipe both Washers (3) and Bearing (4) with a cloth moistened with oil.

NOTE: Do not allow any grease or oil on Idler (10), the motor pulley, or the drive surface of the turntable. No lubrication should be applied to Lever (56).

## CHANGE CYCLE

With the power disconnected and the Record Support Arm raised, manually rotate the turntable to observe the cycle.

Turning the On-Off-Rej knob to rej (Reject) pushes Rod (47), moving Lever (45) to push Slide (49), pulled by Spring (31), sliding Bar (17), pulled by Spring (14), clear of Lever (24), pulled by Spring (34).

Bar (17) closes the motor switch and releases Arm (11), pulled by Spring (12), to move Idler (10).

The motor, through the motor pulley and Idler (10), drives Turntable (66).

Slide (49) pushes Arm (55) to pivot Lever (44), moving Catch (43) through friction supplied by the damping compound between Lever (44) and Catch (43).

The raised section of the rotating turntable hub strikes Catch (43), rotating Gear (42) enough to engage Turntable (66).

## MECHANICAL PARTS LIST

NOTE: Replacement Parts used in all Models.  
Replacements given for Console Models with Replacements for Portables in Parenthesis.

| Ref. No. | Part No.          | Description                           | Ref. No. | Part No.          | Description   |
|----------|-------------------|---------------------------------------|----------|-------------------|---|
| 1        | EA80X227 (EA1037) | Record Support Arm Screw              | 30       | EA80X51 (RS6056)  | Spindle Spring  |
| 2        | EA80X225 (EA1034) | Index Knob                            | 31       | EA80X52 (RS6057)  | Switch Release Slide Spring                             |
| 3        | EA80X108 (RS6112) | Thrust Washer                         | 32       | EA80X24 (RS6029)  | Spindle Actuator  |
| 4        | EA80X110 (RS6114) | Thrust Bearing                        | 33       | EA80X50 (RS6055)  | Index Finger Spring                                     |
| 5        | EA80X224 (EA1033) | Speed Control Knob                    | 34       | EA80X219 (EA1028) | Shut-Off Lever Spring                                   |
| 6        | EA80X114 (RS6118) | Speed Control Rod                     | 35       | EA80X54 (RS6059)  | Index Ratchet Spring                                    |
| 7        | EA80X89 (RS6094)  | Speed Control Crank                   | 36       | EA80X45 (RS6050)  | Tone Arm Bracket Spring                                 |
| 8        | EA80X221 (EA1030) | Crank Assembly                        | 37       | EA80X198 (RS6587) | Pivot Pin   |
| 9        | EA80X115 (RS6119) | Motor Grommet                         | 38       | EA80X32 (RS6037)  | Anti Skate Bushing                                      |
| 10*      | EA80X61 (RS6065)  | * Idler Wheel                         | 39       | EA80X25 (RS6030)  | Velocity Trip Actuator                                  |
| 11       | EA80X59 (RS6062)  | Idler Arm                             | 40       | EA80X47 (RS6052)  | Safety Spring   |
| 12       | EA80X53 (RS6058)  | Idler Arm Spring                      | 41       | EA80X217 (RS6729) | Main Slide  |
| 13       | EA80X73 (RS6077)  | Adjusting Screw (Idler Height)        | 42       | EA80X9 (RS6014)   | Gear Assembly   |
| 14       | EA80X69 (RS6073)  | Shut-Off Spring                       | 43       | EA80X21 (RS6026)  | Velocity Trip Catch                                     |
| 15       | EA80X62 (RS6066)  | Intermediate Link                     | 44       | EA80X20 (RS6025)  | Velocity Trip Lever                                     |
| 16       | EA80X70 (RS6074)  | Idler Link Spring                     | 45       | EA80X23 (RS6028)  | Control Lever   |
| 17       | EA80X64 (RS6068)  | Shut-Off Bar                          | 46       | EA80X5 (RS6010)   | Control Slide Assembly                                  |
| 18       | EA80X66 (RS6070)  | Switch Overtravel Spring              | 47       | EA80X30 (RS6035)  | On-Off-Reject Rod                                       |
| 19       | EA80X65 (RS6069)  | Speed Control Cam                     | 48       | EA80X53 (RS6058)  | Control Slide Spring                                    |
| 20       | EA80X67 (RS6071)  | Detent Spring                         | 49       | EA80X134 (RS6155) | Switch Release Slide                                    |
| 21       | EA80X57 (RS9850)  | Motor Plate Assembly                  | 50       | EA80X19 (RS6024)  | Control Return Lever                                    |
| 22       | EA80X156 (RS6431) | Index Wire                            | 51       | EA80X269 (EA1373) | Control Return Lever Spring                             |
| 23       | EA80X48 (RS6053)  | Pawl Stop Spring                      | 52       | EA80X42 (RS6047)  | Anti-Skate Spring (Not used in Models RD310-1, RD310-2) |
| 24       | EA80X218 (EA1027) | Shut-Off Lever                        | 53       | EA80X33 (RS6038)  | Velocity Trip Arm Eyelet                                |
| 25       | EA80X151 (RS6283) | Tone Arm Bracket and Ratchet Assembly | 54       | EA80X231 (EA1041) | Velocity Trip Arm Spring                                |
| 26       | EA80X16 (RS6021)  | Anti-Skate Ratchet                    | 55       | EA80X197 (RS6586) | Velocity Trip Arm Assembly                              |
| 27       | EA80X133 (RS6154) | Record Support Arm Shaft Assembly     | 56       |                   | Quadrant Lever  |
| 28       | EA80X7 (RS6012)   | Index Pawl Assembly                   | 57       |                   | Quadrant Lever Spring                                   |
| 29       | EA80X17 (RS6022)  | Pawl Stop                             | 58       |                   | Index Knob Spring                                       |

\* Idler Wheel - WALSCO Part No. 1499-35

## ADJUSTMENTS (Continued)

### Idler Height — All Models

Adjust Screw (13) to center Idler (10) on all steps of the motor pulley.

### Tone Arm Vertical Pivot — Models RD300 and RD310 Series

Loosen the pivot pin clamping screw in Bracket (72) under the tone arm. Place a .0025-inch feeler gauge between pointed end of Pin (64) and the hook in

Assembly (62). Snug Pin (64) against the feeler and tighten the clamping screw.

### Tone Arm Vertical Pivot — Models RD325 Series

Loosen the pivot pin clamping screw in Bracket (72) under the tone arm. Place a .0025-inch feeler gauge between the shoulder of Pin (64) and the tone arm base. Snug Pin (64) against the feeler and tighten the clamping screw.

## TROUBLE CHART

| SYMPTOM   | REMARKS  |
|---|--|
| Turntable does not rotate when unit is turned on. | <ol style="list-style-type: none"> <li>1. Idler (10) dirty or worn.</li> <li>2. Spring (12) loose or weak.</li> <li>3. Motor or switch defective.</li> </ol>   |
| Wow/Flutter.                                      | <ol style="list-style-type: none"> <li>1. Idler (10), turntable rim, or motor pulley dirty, irregularly worn, or bent.</li> <li>2. Bearing (4) binding.</li> <li>3. Idler (10) binding.</li> <li>4. Motor defective.</li> </ol>                                    |
| Stylus does not track.                            | <ol style="list-style-type: none"> <li>1. Stylus worn.</li> <li>2. Stylus pressure incorrect.</li> <li>3. Cartridge leads binding.</li> <li>4. Wrong stylus selected.</li> <li>5. Changer not level.</li> <li>6. Pivot Pin (64) allowed excessive play.</li> </ol> |
| Changer shuts off prematurely.                    | <ol style="list-style-type: none"> <li>1. Lever (56) binding.</li> <li>2. Slide (46) binding.</li> <li>3. Spring (48) loose</li> </ol>   |
| Does not cycle at end of record.                  | <ol style="list-style-type: none"> <li>1. Turntable hub worn.</li> <li>2. Trip Arm (55) binding.</li> <li>3. Lever (44) slipping on Catch (43). (Oil or no damping compound between them).</li> </ol>  |
| Records do not drop.                              | <ol style="list-style-type: none"> <li>1. Spring (30) loose.</li> <li>2. Actuator (32) or pin on Gear (42) worn.</li> <li>3. Spindle (71) defective.</li> </ol>  |
| Unit does not shut off automatically.             | <ol style="list-style-type: none"> <li>1. Shaft (27) binding.</li> <li>2. Slide (46) bent or worn.</li> <li>3. Switch defective.</li> </ol>  |
| On-Off-Rej knob does not function.                | <ol style="list-style-type: none"> <li>1. Rod (47) loose.</li> <li>2. Lever (45) or Spring (51) loose.</li> </ol>  |

The detent pin on Gear (42) releases Lever (24), pulled by Spring (34), which resets Catch (43) through Lever (44).

The main slide pin on Gear (42) moves Slide (41), allowing Bracket (25), pushed by Spring (36) and pulled by Spring (35), to pull the rear of the tone arm base assembly down, raising the tone arm.

Slide (41) pulls Spring (40), pivoting Bracket (72) to swing the tone arm to the right. Slide (41) also releases Stop (29), pulled by Spring (23).

As the tone arm reaches its outermost position, Bracket (25) detents in a notch in Assembly (62).

An actuator pin on Gear (42) slides Actuator (32), pivoting the center lever in Spindle (71), pulled by Spring (30), to drop the next record.

Gear (42) reverses Slide (41) to release Spring (40), allowing Bracket (25), pulled by Spring (35), to pivot Bracket (72), swinging the tone arm over the record. A step on Bracket (25) contacts Pawl (28) to hold the tone arm over the first grooves of the selected size record.

Slide (41) lifts Bracket (25) to release Mounting (62), lowering the tone arm.

A pin on Gear (42) resets Arm (55), then pivots and detents in Lever (24), pulled by Spring (34).

### Automatic Tripping

As the tone arm swings in, following the record grooves, Bracket (72) moves Actuator (39) to push Eyelet (53), sliding Arm (55) which pivots Lever (44).

### Stylus Pressure — Models RD300 and RD310 Series

NOTE: Adjust to pressure suggested by manufacturer of cartridge used.

Hook the stylus pressure spring, located under the rear section of the tone arm, into the hole in the stylus pressure adjust clip that produces the desired pressure.

### Stylus Pressure — Models RD325 Series

Turn the knurled knob on the rear of Counterweight (61).

### Setdown — Models RD300 and RD310 Series

The setdown adjustment screw is located under the rear of the tone arm on the side of Assembly (62) next to the Record Support Arm. Adjust this screw until the stylus lowers into the first groove of the recording.

### Setdown — Models RD325 Series

The setdown adjustment is the knurled screw on the right side of the tone arm base. Adjust to lower the stylus into the first groove of the recording.

Lever (44) pivots Catch (43) toward the turntable hub, but the raised section of the turntable hub sets Catch (43) back until Catch (43) is moved close enough to the hub to be struck solidly by the raised section of the hub, initiating the cycle.

### Automatic Shutoff (Same as the change cycle with the following exceptions)

As the last record drops, Shaft (27) pivots Lever (56), pushed by Spring (57), latching Stop (29).

As the tone arm swings over the rest post, Stop (29), pulled by Spring (23), causes Pawl (28) to engage the last step on Bracket (25).

Bracket (25) braces Slide (46), pulled by Spring (48), in position for a ramp on Gear (42) to raise Gear (42) enough for a pin on Gear (42) to pivot Lever (24), pulled by Spring (34). Lever (24) engages Bar (17), pulled by Spring (14), and slides Bar (17) which opens the motor switch and pivots Arm (11), pulled by Spring (12), to raise Idler (10) from the turntable rim.

### Manual Shutoff

Turning the On-Off-Rej knob to Off pivots Lever (45) to slide and catch Slide (46), pulled by Spring (48). Lever (45) also slides Arm (55) to initiate the cycling. Slide (46), latched in a notch in the lower plate, raises Gear (42) as described in "Automatic Shutoff".

### Size Selector

Turning the Size Selector positions Wire (22), pulled by Spring (33), to block Stop (29), pulled by Spring (23), which positions Pawl (28) to block the proper step on Bracket (25).

## ADJUSTMENTS

### Height — Models RD300 and RD310 Series

The height adjustment screw is located under the rear of the tone arm, on top of Assembly (62). Adjust the height so the stylus clears a stack of six records on the turntable without dragging the bottom of the records on the spindle shelf.

### Height — Model 325 Series

The height adjustment screw is located on the tone arm base under the tone arm. Adjust the height so the stylus clears a stack of six records on the turntable without dragging the bottom of the records on the spindle shelf.

### Trip Actuator — All Models

With the power disconnected, the Record Support Arm raised, and the Record Size Selector at 7, turn the On-Off-Rej knob to Reject and release. Rotate the turntable by hand until the stylus just touches the record. At this point, Actuator (39) should just touch Eyelet (53), with the eyelet at its rearmost point. Actuator (39) can be adjusted while holding the Tone Arm.

GENERAL ELECTRIC  
MODELS RD300/310/325 Series

FOLDER 7

