Automatic Record Changer Part No. 35-1293

This mechanism consists of a rim driven turntable (not shown) running on a fixed bearing (1), which supports the record spindle (2). The spindle is equipped with a rotatable cap (3) to provide for holding records in automatic operation, when in one position, and removing records or playing manually, when in the other position.

The outer edge of the record is held by **record supports** (4) and (5), adjustable for 10- and 12-inch, and is steadied by a rubber tipped, spring loaded **finger** (6).

Control of operation is by a single control button (7), having four positions: "Off" - "Main" - "Aut" and "Rej".

Automatic operation starts when rubber tired drive wheel (8) is moved into contact with turntable rim by tone arm movement or control button. All change functions are controlled by main cam (9) which is driven by drive wheel (8) thru a friction (10) and gear (11) train.

The main cam assembly consists of main cam (9) and automatic trip cam (12). The latter disengages the drive wheel (8) at the end of the change cycle.

The upper side of the main cam (9) controls tone arm swing by engagement with pin in sweep lever (13) attached to tone arm by means of clamp (14) around tone arm pivot sleeve (15). Tone arm lift is controlled by vertical section of main cam (9) operating tone arm thru lift pin (16) inside of sleeve. A boss projecting from the upper side of the main cam (9) displaces the stop lever (17) at the end of the change cycle to permit the tone arm to proceed across the record.

The lower side of the main cam (9) moves the feed lever (18) by means of a roller (19). This movement charges the feed spring (20) and at the proper time permits discharge of the spring causing the feed lever (18) to thrust the feed finger (21), (in top view), forward to feed the record. Connection between feed lever (18) and feed finger (21) is thru feed intermediate lever (22) pivoted in record support post (23). (In top view.)

The stop lever (17), normally heid out of engagement by the boss on the main cam (9), swings into position at the start of the change cycle. Its selection of stop points for 10- or 12-inch records is controlled by dog (24) on the record selector shaft running up front of record support post (23) and actuated by swinging record support (4).

The drive wheel (8) is mounted on the carrier lever assembly (25) which is pivoted about the intermediate drive (11). This assembly consists of the carrier lever with its bearings and the trip lever (26). The trip lever (26) carries a pin (27) engaging the automatic trip cam (12); a pawl (28) to engage the serrated edge of sweep lever (13); a positive trip screw (29) to interfere with sweep lever (13). Engagement of pin (27) with automatic trip cam (12) pulls drive wheel (8) out of engagement with turntable at end of change cycle. Reversal of the tone arm movement rotates powl (28) to release trip lever (26). Thrust of sweep lever (13), when tone arm approaches spindle (2), against positive trip screw (29) releases trip lever (26).

The control lever (31) operated by the control button (7), -a- turns switch on and off -b- prevents carrier lever assembly (25) from swinging when

in manual position -c- permits carrier lever assembly (25) movement to engage drive wheel (8) with turntable, when in automatic position -displaces trip lever (26) causing drive wheel (8) engagement with turntable, when pushed to Reject. Function (a) is accomplished by pin which engages dog of taggle switch. Functions (b) and (c) are controlled by shape of rear edge of control lever (31) and a fixed stud (32) in the carrier lever. Function (d) is accomplished by stud (33) in control lever (31) striking edge of trip lever (26) and unlatching pin (27) in same from automatic trip cam (12).

Bearings are separated and center distances maintained by aligning bracket (34) which also carries bearing for record feed lever (18).

ADJUSTMENTS

Positive Trip

The tripping point is adjusted by turning positive trip screw (29) counterclockwise to trip earlier in playing cycle and clockwise to delay tripping.

Tone Arm

The drop point is adjusted by loosening the screw in clamp (14) slightly to permit repositioning of tone arm in relation to sweep lever (13). Care must be exercised to see that tightening the screw does not cause bind in tone arm swing.

The rise and drop of tone arm is adjusted by bending short arm of **lift** pin (16) slightly. Long arm must not be distorted or it will bind in pivot sleeve (15).

Record Feed

The feed finger (21) should strike only the bottom record of the stack.

Record supports (4) and (5) should be adjusted up or down to obtain
this result. Adjustments must be checked for both 10- and 12-inch records
as one of the buttons is used in both cases.

Fixed record support (5) can be adjusted for engagement with record by removing hold down finger assembly (6) and loosening two screws under feed finger (21).

Friction drive

The rubber wheel (10) engaging with the intermediate drive assembly (11) should be compressed just enough to prevent slipping or skidding at any portion of the change cycle. Compression is controlled by the nut and locknut, below the rubber wheel.

Genera

Carrier lever assembly (25) must be perfectly free on its shaft and trip lever (26) must be perfectly free on the carrier lever. All moving parts should be lubricated with ail.

Rubber drive wheels under the turntable and the rim of the turntable must be free of grease or dirt.

Turntable thrust bearing can be lubricated with heavy ail or light grease and radial bearing with light oil.

Pickup lead from tone arm must have slack to permit free movement of arm.

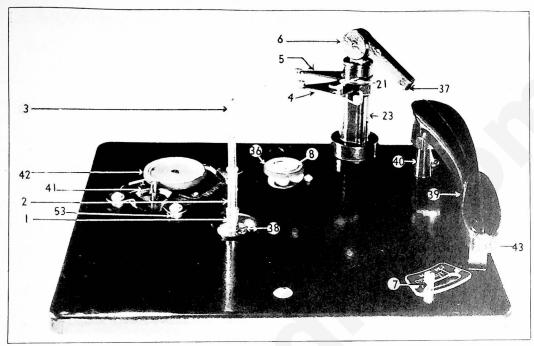


FIG. I-TOP VIEW-TURNTABLE REMOVED

REPLACEMENT PARTS

Figu		Part No.	Figure No.	Description	Part No.	Figure No.	Description No.
1-2-3 4 5 6 8 9 10 11 13 16 17 18	Spindle Assembly	35-2570 35-2583 35-2582 35-2582 35-2571 35-2614 35-2574 35-2574 35-2578 35-2578 35-2585 35-2575 35-2586 35-2586 35-2586	31 34 36 37 38 39 40 41 42 43 44 45 47	Drive Wheel Carrier Lever Assembly Operators Lever Assembly Intermediate Gear Spacer Drive Wheel Tire Rubber Button on Feed Cap Assembly Thrust Bearing Assembly Field Up and Tone Arm Motor Rim Drive Wheel Spring Motor Rim Drive Wheel Spring Motor Rim Drive Wheel Assembly Needle Screw Sapphire Jewel Needle Carbonager Mounting Spring Switch and Plate Assembly Switch and Plate Assembly Stone Lever Spring	35-2579 35-2592 35-2590 35-2636 35-2636 35-2612 35-2612 35-2624 35-2624 35-2623 35-2623 35-2613 35-2581 35-2581	50 51 52 53 55 55 57 58 59 60 62	Tone Arm Pull In Spring 35-2588 Record Support Friction Spring 35-2589 Crystal Cartridge 35-2589 Motor Assemble 35-2589 Spacer for Motor 35-2583 Motor Lever Spring 35-2525 Motor Lever Spring 35-2627 Shelded Pick Up Cable 35-2627 Record Selector Stop Point Dog 35-2617 Trip Lever Positive Trip Screw 35-2618 Carrier Lever Stud 35-2620 Control Lever Stud 35-2620 Trip Lever Spring 35-2626 Spring for 50 Cycle Operation 28-9003

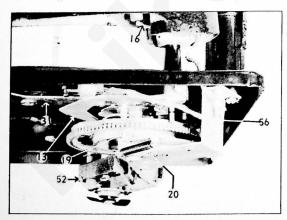


FIG. 2-VIEW LOOKING AT RIGHT SIDE

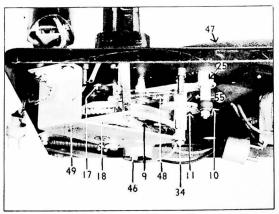


FIG. 3-VIEW LOOKING AT BACK