

RECORD CHANGER PART No. 819003

EMERSON RADIO

AUTOMATIC OPERATION

Loading

1. Turn the set on and the volume up and set the selector knob in the position for phonograph operation.
2. Turn the Spindle Cap (2) until it is as completely OUT OF LINE with the Spindle (3) as possible.
3. If ten-inch records are to be played, rotate the Record Support (4) to the left, and for twelve-inch record operation rotate the Record Support to the extreme right.
4. Insert a maximum of 12 ten-inch records or 10 twelve-inch records on the Spindle shoulder and Record Support.
5. Swing the Hold-Down Finger (5) so that it rests on the top record.

Starting

To start operation, push the Starting Switch (6) to the ON position, then depress the switch button as indicated for reject.

Reject Records

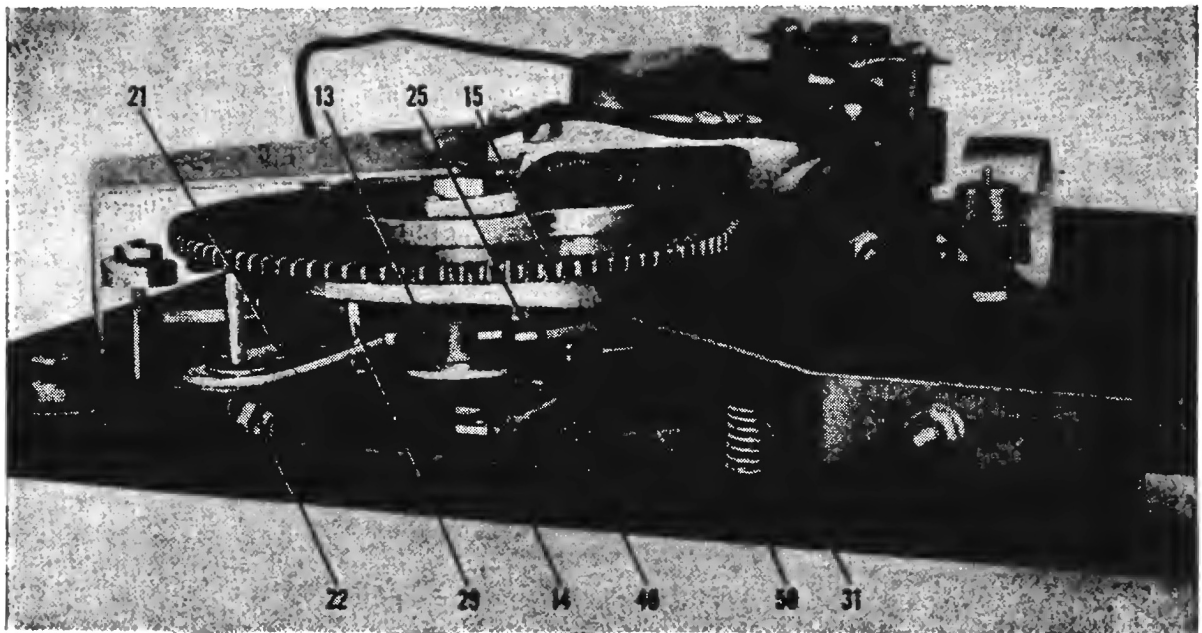
To reject a record, depress the Starting Switch button as indicated on the switch housing.

Shut Off

1. Remove any records remaining on the Record Support.
2. Depress the Starting Switch as indicated for reject and allow the Pickup Arm (1) to reset on the record.
3. Gently lift the Pickup Arm and return it to the Rest Post (8).
4. Push the Starting Switch to the OFF position.

Unloading

1. Rotate the Spindle Cap until it is aligned with the Spindle.
2. Turn the Hold-Down Finger aside.
3. Lift the records, tilting them slightly to clear the Record Support.



MANUAL OPERATION

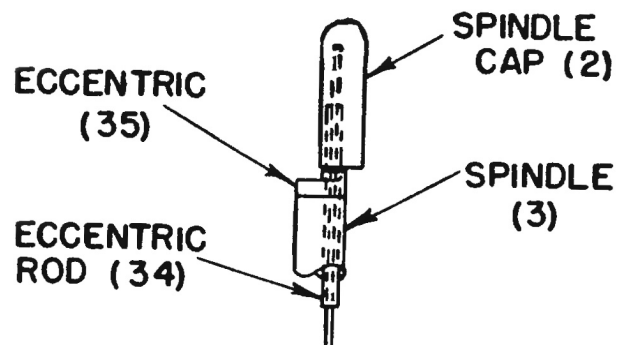
Starting

1. Turn the set on and the volume up and set the selector knob in the position for phonograph operation.
2. Make sure the Spindle Cap is aligned with the Spindle and place the record over the Spindle and on the Turntable.
3. Push the switch to the ON position.
4. Place the Pickup Arm on the outer edge of the record to start operation.

Shut Off

1. Allow Pickup Arm to complete its cycle and reset on the record. Gently lift the Pickup Arm and return it to the Rest Post.
2. Push the Starting Switch to the OFF position.

3. Do not overload the changer. The maximum load is either 12 ten-inch or 10 twelve-inch records. Use modern records in good condition.



SPINDLE ASSEMBLY

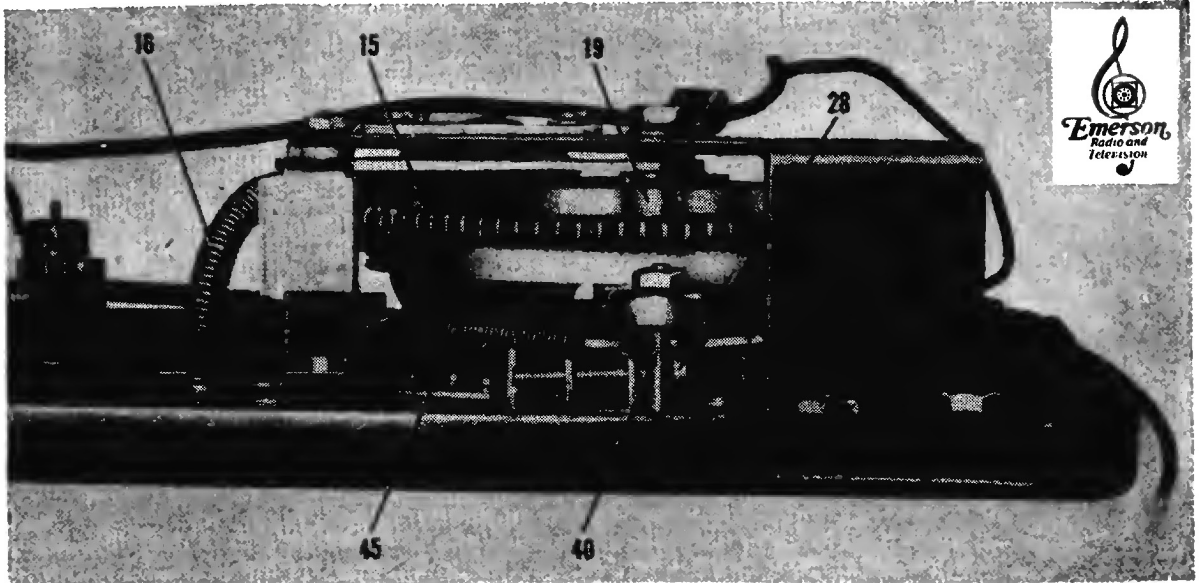
OPERATING DESCRIPTION

This record changer is an automatic cam-type changer, featuring single-button control and eccentric-spindle record selection.

Starting

After the Single Control Button (6) has been turned ON, thus supplying power to rotate the turntable, automatic cycling

may be started by depressing the button. This movement pushes the Trip Bar (31) forward, causing engagement with the Carrier Lever (14) and its attached cycling Drive Wheel (10). The latter thus contacts the rim of the turntable and rotates with it. This motion is transmitted through the Flexible Coupling (16) to the Worm Drive (17), which in turn drives the Main Cam (15).



Cycling

A single revolution of the Main Cam results in complete automatic cycling of the changer. This includes selection of a record from the stack, lifting the Pickup Arm from its rest, and setting the needle on the edge of the record. Upon completion of the revolution, the Automatic Trip Cam (13) engages with the block on the Trip Lever and pulls the Carrier Lever (14) back to its original position so that the cycling Drive Wheel (10) is no longer engaged with the turntable rim.

Record Feed

The lower side of the Main Cam (15) controls record selection. Motion of the Feed Cam Roller (19) about the cam results in a backward and forward movement of the Feed Sector Lever (18), thus engaging the Record Feed Pinion (20). This in turn causes the Eccentric (35) to first rotate to the proper position for record selection and to then return, allowing the record to drop over the Spindle.

Pick-Up Arm Movement

The upper side of the Main Cam (15) controls Pick-Up Arm (1) movement. LIFT is imparted by motion of the Lift Pin along the vertical edge of the cam as the latter rotates. DIRECTION is controlled by engagement of the Main Cam with the Sweep Lever Pinion (29). The Sweep Lever (21) is attached to the Pick-Up Arm by means of a clamp (22) around the Pick-Up Arm Pivot Sleeve (23). A boss projecting from the upper side of the Main Cam displaces the Stop Lever (25) at

the end of the change cycle, thus permitting the Pick-Up Arm to proceed across the record.

Positive Trip Action

As the Pick-Up Arm approaches the Spindle, the Sweep Lever (21) hits the Positive Trip Screw (28) mounted on the Trip Lever. This action reengages the drive wheel with the turntable rim and starts a new cycle.

Ten-Inch or Twelve-Inch Operation

Adjusting the Record Support (4) to the ten-inch or twelve-inch position lowers the Selector Rod (40) a definite degree. The length of the extension of this rod determines the positioning of the Stop Lever (25). The latter is the means of regulating the distance the Sweep Lever (21) and its attached Pick-Up Arm travel before the arm is lowered to the edge of the record.

Positive Trip

The tripping point of the changer may be readjusted by positioning of the Positive Trip Screw (28). Turn the screw clockwise to delay tripping and counter-clockwise to trip earlier in the playing cycle.

Pick-Up Arm Drop Point

An external strain exerted on the Pick-Up Arm may alter the drop point. To adjust, loosen the screw on the Sweep Lever Clamp (22) slightly and reposition the Pick-Up Arm with respect to the Sweep Lever (21).