

INSTRUCTIONS FOR INSTALLING THE MODEL 15
PRINTER MOTOR STOP MECHANISM SETS OF PARTS
NO. 82742 (UPPER CASE "H") NO. 74764 (UPPER CASE "M")

These motor stop mechanisms are used on Model 15 printers to automatically stop the motors on all printers connected in the circuit when the motor stop selection is received by the printers, and also to start the motors when the signal line is first opened and then closed by means of the send-receive latch handle and break contact on the base unit.

The 82742 set of parts consists of the following:

1	1035	Screw
2	1161	Screw
2	2191	Lock Washer
1	3598	Nut
1	3599	Nut
1	3640	Lock Washer
1	6811	Screw
1	74009	Pawl Latch
1	74291	Spring Bracket
1	74409	Contact Lever
1	74789	Contact Cable
1	74890	Contact (Assem.) - Left
1	82271	Function Lever (Stamped 13-D)
1	82300	Motor Stop Locking (Assem.) consisting of the following:
	1	74555 Motor Stop Locking (Assem.)
	1	74988 Spring
	2	6746 Screw
	2	2191 Lock Washer
1	82740	Contact (Assem.) - Right
1	82787	Spring
1	82788	Spring

If an "H-STOP" keytop is required for the "H" keylever it may be ordered as follows:

82607	Keytop (Spring Cushion)
82274	Keytop (Pneumatic)
86630	Keytop (Celluloid)

The 74764 (Upper Case "M") set of parts is the same as the 82742 (Upper Case "H") set of parts except that it includes:

1	80138	M-STOP Keytop (Spring Cushion)
1	74038	Function Lever (Stamped 13, in place of the 82271 Function Lever stamped 13-D)

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If a pneumatic keytop for "M-STOP" is required it may be ordered as follows:

74881 Keytop (Pneumatic)

For parts referred to in the following text, which are not included in the foregoing lists, refer to the Parts Bulletin.

INSTALLATION

1. Remove the typing unit from the base and rest the typing unit on its right side.
2. Insert the 74409 motor stop contact lever in the third slot from the top in the vane frame casting so that the notch in the lever engages the 74005 shaft.
3. Hook one end of the 82787 spring in the spring hole of the motor stop contact lever and the other end in the third hole from the top in the 74019 spring plate.
4. On typing units equipped with the new style 74255 function lever comb, which has only 12 slots, the motor stop function lever (82271 for upper case "H", 74038 for upper case "M") is installed as follows:

Rotate the main shaft until the printing bail is in its extreme rear position. Insert the motor stop function lever in the top slot of the vane frame casting so that the notch in the function lever engages the 74005 shaft and so that the 74167 function lever bail roller is between the projections on the function lever.

On typing units equipped with the old style 74255 function lever comb, which has 13 slots, it is necessary to loosen the three comb mounting screws in order to insert the function lever as described in the foregoing paragraph. After the function lever has been installed tighten the comb mounting screws.

5. Hook one end of the 82788 spring in the spring hole of the motor stop function lever and the other end in the top hole in the 74019 spring plate.
6. Remove and discard the retaining nuts from the ends of the two 1222 screws in the 74890 left motor stop contact assembly and mount this assembly, by means of the two 1222 screws, on the flat projection on the upper end of the 74539 send-receive mechanism plate so that the contact spring insulator touches and centers with the small projection on the motor stop function lever.
7. Mount the 82740 right motor stop contact assembly to the lower end of the 74539 plate, using the two 1161 screws and the two 2191 lock washers. The contact spring insulator should touch the motor stop contact lever.

8. Place the 3599 nut and the 3640 lock washer on the 1035 screw and thread this screw into the tapped hole in the lower arm of the 74407 send-receive reset lever so that the head of the screw is on the upper side of the arm.
9. Insert the end of the 74789 motor control contact cable which is covered with yellow tubing, in the space between the upper end of the vane frame casting and the left side frame casting; then route the end of the cable under the selector mounting plate, to the left of the clutch throw-out lever, and along the 74625 selector magnet cable to the 8884 terminal block, which is located on the 74254 rear cross bar.
10. Remove the 8884 terminal block and solder the two leads of the motor control contact cable to terminals 9 and 10, as shown on Wiring Diagram 1221.* Replace the terminal block and its insulator.
11. Tie the 74789 motor control contact cable to the rear cross bar casting, by means of a cord, just behind the lower end of the clutch throwout lever bracket making certain that cable does not interfere with the movement of any parts.
12. The two long leads of the cable at the front of the typing unit should be routed along the underside of the 74019 spring plate and in front of the 74539 plate to the 82740 contact assembly (right) and soldered to the contact terminals. Solder the short cable leads to the contact terminals of the 74890 contact assembly (left).
13. Remove the range finder assembly. Thread the 3598 nut on the 6811 screw and install this screw in the tapped hole in the range finder front mounting post, with the head of the screw toward the front of the typing unit.
14. Mount the 74291 spring bracket by means of the 3598 nut and 2191 lock washer, furnished on the 8470 lower front selector post so that the bent-up portion is approximately parallel to the bottom of the typing unit and the spring hole is toward the rear of the unit.
15. Mount the 74009 pawl latch by means of the 8472 locking wedge mounting nut, washer and lock washer, so that the bent-up portion is toward the front of the typing unit.
16. Mount the 82300 motor stop locking assembly to the underside of the selector mounting plate, using the two 6746 screws and the two 2191 lock washers included in the assembly. Make certain that the lower front extension of the 74037 motor stop lever is on the underside of the rear projection of the motor stop contact lever. The stud riveted to the 74545 release lever should be in front of the 8511 locking lever.
17. Place the long hooked end of the 74988 spring in the spring hole of the motor stop lever and hook the other end in the spring hole in the 74291 spring bracket.

* Indicates Change

18. From the base unit, remove the 74551 insulating cover. Remove the mounting screws from the 74568 terminal block and remove the strap from terminals 9 and 10 as shown on Wiring Diagram 1221.* Replace the terminal block mounting screws and insulating cover.
19. If the keylever that is used for transmitting the motor stop combination from the keyboard is not equipped with a keytop that displays a "stop" indication above its character, this keytop should be replaced by a "stop" keytop of corresponding style and character.

ADJUSTMENTS

The following adjustments should be made, in the order listed, as described in the adjustment specifications:

1. Armature Locking Wedge Adjustment
2. Motor Stop Lever Bracket Adjustment
3. Motor Stop Lever Eccentric Adjustment
4. Motor Stop Lever Backstop Screw Adjustment
5. Motor Stop Pawl Backstop Adjustment
6. Motor Stop Release Lever Eccentric Adjustment
7. Motor Stop Pawl Spring Compression
8. Motor Stop Lever Spring Tension
9. Motor Stop Contact Lever Spring Tension
10. Motor Stop Function Lever Spring Tension
11. Right Motor Stop Contact Adjustment
12. Left Motor Stop Contact Adjustment
13. Reset Lever Lower Adjusting Screw Adjustment

On typing units equipped with the old style function lever comb, where it is necessary to loosen the three mounting screws, the following adjustments should be checked.

1. Signal Bell Latch Bar Latch Adjustment
2. Carriage Return Latch Bar Latch Adjustment

Replace the range finder assembly. Care should be taken that the trip latch plunger does not jam against the top of the armature trip-off eccentric screw when remounting the assembly. The following adjustment should be checked:

1. Armature Trip-Off Eccentric Screw Adjustment.

