

INSTRUCTIONS FOR INSTALLING AND ADJUSTING
PAPER WINDERS ON MODEL 15 PRINTER COVERS

1. GENERAL

The purpose of the paper winder is to automatically wind the printed copy on a paper spindle as it emerges from the cover of a Model 15 printer.

2. INSTALLATION

a. TYPING UNIT PRESSURE ROLLERS

*(1) If narrow paper is used, the pressure rollers which do not bear on the paper should be removed and replaced by the 104473 spacer bushings furnished. To install the 104473 spacer bushings proceed as follows:

*(2) Remove the type bar carriage from the typing unit. Unhook the line feed detent lever spring from its spring post. Back off the three set screws (located in the right-hand hub of the platen) that hold the platen to its shaft. Withdraw the platen shaft and remove the platen. Unhook the two tape chute springs from their spring posts. Loosen the pressure roller release lever shaft set screws and withdraw the shafts sufficiently to release the paper chute; remove the chute. Remove from their shafts, the front and rear pressure rollers that do not bear on the paper and replace them by the 104473 spacer bushings.

(3) Replace the paper chute and position the pressure roller release lever shafts so that their outer ends project not more than 1/32" beyond the outer surfaces of the paper chute; tighten the release lever shaft set screws. Replace the platen and platen shaft, making sure that the platen set screws are properly seated in the indents of the shaft. Rehook the line feed detent lever spring. Replace the carriage.

(4) The pressure roller tension spring requirement should be increased to 6-1/2 to 7 lbs. in the manner described in the typing unit adjustment specification.

b. WIRING

The power cord with receptacle should be connected to the terminal blocks of the Model 15 printer base, and the proper strap should be removed from the motor resistors in accordance with the instructions on the Wiring Diagram WD-1543.

c. MOUNTING THE PAPER WINDER ON THE PRINTER COVER

The Model 15 printer covers on which the winders are to be mounted must be drilled in accordance with the attached drawing (Figure 1), and the 3900 bushings furnished should be secured in the holes with 2201 nuts, 3438 washers, and 4814 lock washers furnished, being careful not to tighten the nuts too much, as excessive tightening may distort the bushings. Mount the paper winder on top of the cover (with the motor to the left) by means of the 7099 thumb screws

furnished, and before tightening the thumb screws, position the paper winder so that the spindle lines up with the paper as it leaves the platen. Caution should be exercised in tightening the thumb screws as excessive tightening may possibly buckle the mounting plate and bind the paper spindle. The paper should be fed under the paper winder slack bar and then inserted in the paper spindle slot.

d. INSTALLATION OF 104851 RESISTOR ASSEMBLY (100 OHMS) ON EITHER A WOODEN OR ALL-METAL TABLE

(1) The 104851 resistor assembly is furnished with certain paper winders when it is desired to operate these units on 110 volts D.C. or 25 cycle A.C. For application on a wooden table, the resistor assembly, together with the 104850 transite base should be mounted in an appropriate location selected by the installer, using the 33-88 wood screws furnished.

(2) For application on an all-metal table, the resistor assembly should be mounted in an appropriate location selected by the installer, using the 6810 screws, 2669 lock washers, and 34-4 nuts furnished.

(3) The 104851 resistor assembly should be connected in series with one of the power leads of the paper winder, as shown on the attached WD-1543. It is understood that the cord for the connection of this resistor assembly will be furnished by the installer.

3. ADJUSTMENTS

a. Paper winders for use on Model 15 printer covers are completely adjusted and checked at the factory. The following adjusting information is furnished as a convenience for the attendant who desires to check the adjustments or to readjust the unit.

(1) PAPER SPINDLE SHAFT END PLAY

When all the play of the shaft has been taken up in the direction away from the motor unit, there should be approximately 1/32" clearance between the shoulder on the shaft and the friction drive assembly. The left end of the shaft should touch the wick in the friction drive assembly. To adjust, position the bearing bracket by means of its elongated mounting holes to obtain the required clearance.

(2) SLACK BAR LEVER SPRING TENSION

Hook a 32 oz. scale under each slack bar lever at the spring hole and pull in line with the spring. It should require 19 to 23 ozs. to start each lever moving.

NOTE

BE SURE THAT THE MOTOR RESISTORS ARE WIRED FOR PROPER VOLTAGE IN ACCORDANCE WITH THE INSTRUCTIONS ON WIRING DIAGRAM WD-1543 BEFORE RUNNING THE MOTOR.

(3) FRICTION CLUTCH TORQUE

After the paper winder has been running with the spindle held stationary for at least ten minutes, hook an 8 oz. scale in the slot of the paper spindle. It should require 5 to 7 ozs. to hold the paper spindle stationary against rotation by the motor. To adjust, loosen the lock nut and adjust the capstan nut to obtain the foregoing requirement, then tighten the lock nut.

(4) PAPER SPINDLE SHAFT LATCH SPRING TENSION

With the paper spindle removed, hook a 32 oz. scale over the spring post on the latch and pull horizontally toward the rear. It should require 22 to 30 ozs. to start the latch moving.

(5) PAPER SPINDLE CYLINDER REGULATING BUSHING

A regulating bushing and set screw have been added to the paper spindle shaft. It provides an adjustment feature (by positioning it at a desired spot on the shaft) to control the effort required to push the hub of the right-hand flange into the cylinder, or to remove it. The bushing is positioned at the factory to provide the minimum effort. This bushing may be added to older units, if so desired. The bushing and its associated screw may be ordered as follows:

119535	Bushing - Regulating	1
82440	Screw	1

4. LUBRICATION

a. Unless otherwise specified, one or two drops of oil at each of the places indicated will be sufficient. Use oil for lubrication at all of the places in the following list, except where the use of grease is specified:

- (1) Upper motor bearing and gear - remove the screw that is flush with the gear housing and fill the housing with grease.
- (2) Lower motor bearing - saturate the wick.
- (3) Friction clutch felt washers - separate the discs and saturate the washers.
- (4) Friction clutch assembly wick - saturate the wick.
- (5) Shaft bearing in bearing bracket.
- (6) Bearing bracket latch shoulder screw.
- (7) Slack bar bearing - two.
- (8) Slack bar lever shoulder screws - two.
- (9) Spindle driving pin - at point of contact with friction drive fork.

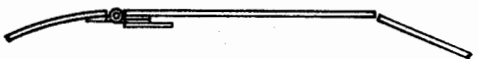
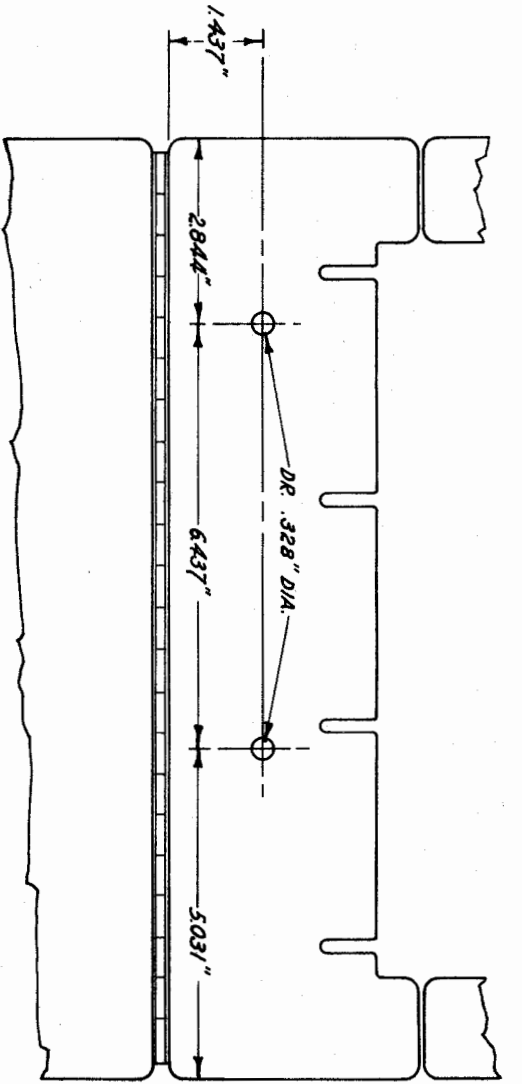


FIGURE 1