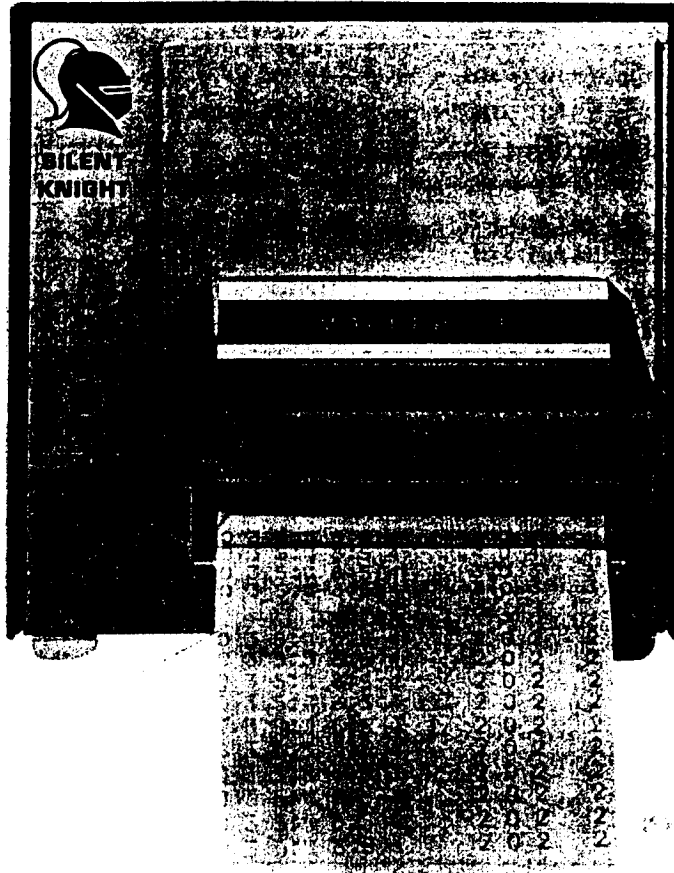


MODEL 802 PRINTER



INSTALLATION MANUAL

SILENT KNIGHT

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MODEL 802 PRINTER

The Model 802 Printer is designed to work with, and is controlled by, the 850 Receiver. It permanently records the date, time, account number, and type of emergency of all alarm calls received at the Receiver.

Controls and Indicators

- | | | |
|--------------|---------------------|--|
| Front Panel: | (1) AC | - indicates Printer has AC power. |
| | (2) Alarm Reporting | - indicates Printer is "on line", receiving an alarm call. |
| Back Panel: | (1) "Day of Year" | - these three buttons establish the date. |
| | (2) "PM & AM" | - self-explanatory. |
| | (3) "Hour" | - self-explanatory. |
| | (4) "1 Min" | - self-explanatory. |
| | (5) "Print" | - used for testing print mechanism. |

It will be necessary to set the date during the initial installation and on New Years Day, and possibly in the event of equipment failure.

The time will require adjustment during initial installation and as required for correction. (This will be minimal but should be routinely checked.) Before adjusting the time, note the following:

- (1) The minimum time adjustment is 1 minute.
- (2) The Time and Date pushbuttons are quite sensitive and care should be taken to avoid double-pulsing.
- (3) When adjusting the time, make the adjustment in the following sequence:
 1. One minute
 2. Hours
 3. AM - PM
 4. Day of Year

To test the Printer, depress "Print" button to sample the Date, Time, etc.

Fuses

There are two fuses on the back panel: (1) 3 AMP, Slow-Blo fuse in +12 volt supply, (2) 3/8 AMP Slow-Blo fuse in the 117 VAC line.

850-To-802 Interface Cable

This cable mates the 802 to the Model 850 Receiver. Four 4-40 x 3/16" Pan Head Machine Screws are included to fasten the cable from the 802 to the 850. It is important that these cables be fastened to the 850 and 802 to insure proper contact.

Installation

Installing the 802 Printer requires only that the interface cable to the 850 is plugged in, the AC cord plugged in, and Time and Date adjustments be made as shown above.

Operation

When an incoming alarm call is received, the Printer will "clear" by stamping once. The righthand 4-digit column will show all zeros. After the alarm code has been decoded by the 850 Receiver, the Printer will stamp a 4-digit number; the first three digits identify the account number and the fourth digit identifies the nature of the emergency.

3 5 4 :	$\frac{P}{m}$	3:42	0 0 0	0
3 5 4 :	$\frac{P}{m}$	3:42	3 2 1	1
3 5 4 :	$\frac{P}{m}$	3:42	0 0 0	0
3 5 4 :	$\frac{P}{m}$	3:42	3 2 1	1
3 5 4 :	$\frac{P}{m}$	3:41	0 0 0	0
3 5 4 :	$\frac{P}{m}$	3:41	0 0 0	0
3 5 4 :	$\frac{P}{m}$	3:41	4 3 5	1
3 5 4 :	$\frac{P}{m}$	3:41	0 0 0	0
3 5 4 :	$\frac{P}{m}$	3:41	4 3 5	1
3 5 4 :	$\frac{P}{m}$	3:41	0 0 0	0

NOTE: It is the 354th day of the year (December 20)
The time is 3:41 PM
The account number is 435
The alarm code is 1

Printer Sequence

1. Initial activation - prints one round of zeros for the account number and the alarm code.

2. Printout for - day, time AM or PM, account number, and alarm code.
3. "Clear" - prints one round of zeros for the account number and the alarm code.

Printer Maintenance

A. Printing Chamber Release Procedure

1. Refer to Component Parts Figure 1.
2. Pull printer plug-in sub-assembly from its enclosure until the back plate butts against the extraction stops. In this position the printer can be serviced.
3. Grasping the paper bale assembly by the rear roller bar, swing up until the assembly is latched in the up position on the side plate.
4. Swing the front plate and chamber assembly from under the lip of the locking bar, then move it straight up for about an inch, then swing it out until the front plate is about horizontal.
5. Unlatch the paper bale assembly by depressing the spring loaded latch on the right side, allowing the paper bale assembly to drop back far enough to permit the front plate to fit into the two notches in the paper bale assembly. Relock the paper bale assembly by swinging forward.
6. The Moduprinter is now exposed for ribbon or paper change and electrical checks.
7. If desired, operations in (6) may be performed with the Printer assembly totally removed from the enclosure. This is accomplished by pulling the Printer assembly out to the extraction stops at the top front of the enclosure, then swinging it up and out to clear the stops. To replace, reverse this procedure.
8. After allowing the paper bale assembly to drop back to its rest position, and the front plate and chamber assembly to fall back down so that it is parallel to the front edges of the side plates, raise the paper bale assembly and engage the lip of the front plate cutout under the lip of the locking bar.

B. Paper Loading

1. See previous section, "Printing Chamber Release Procedure".
2. With paper bale assembly up, extract the paper shaft, removing old core. Reload with new roll as per Figure 2.

3. Note: Check carefully to see that paper roll rotates freely on shaft. This is essential for proper paper advance.
4. Thread paper, following path on Figure 2. This will be facilitated by folding the leading edge of the paper into an arrow and then creasing up two inches behind the tip.
5. With the paper extending through the cutout in the front plate and held taut, allow the paper bale assembly to drop into operating positions.
6. Make sure that the front plate properly engages the locking bar. If the FRONT PLATE is not securely snapped in place, the paper will not advance properly.
7. Push the frame back into the enclosure until the rubber rollers on the paper bale assembly are inside, exerting pressure to lock up the front plate solidly. This roller bar is adjustable. Ideally, it should project over the top of the side plate 1/16" when free of the enclosure.
8. In this position, depress and release the Solenoid manually a dozen times or so. This will cause print and advance the paper to ensure the loading was correct.

a. Print spacing adjustment

- (1) If paper does not advance with adequate separation between lines, there may be inadequate pressure on the paper from the paper advance roller. Adjust the two eccentric bearings (SKEW ADJUSTMENT BUSHINGS) that support this roller to produce the desired tension. These bearings also control paper skew and must be adjusted relative to one another. This adjustment can only be made with pressure continuously exerted on the paper bale assembly.
- (2) The ideal tension to advance paper is 6-7 oz. This can be measured by attaching an ounce Dynamnometer Gauge to the leading edge of the paper and measuring pull at right angles to the front plate.

C. Interchange of Counting Modules

1. Remove printer assembly from main chassis.
2. Grasp printed circuit board and pull up, rocking board slightly to free it from the count module connecting socket into which it is plugged.
3. Remove Module locking bar.

FIGURE 1

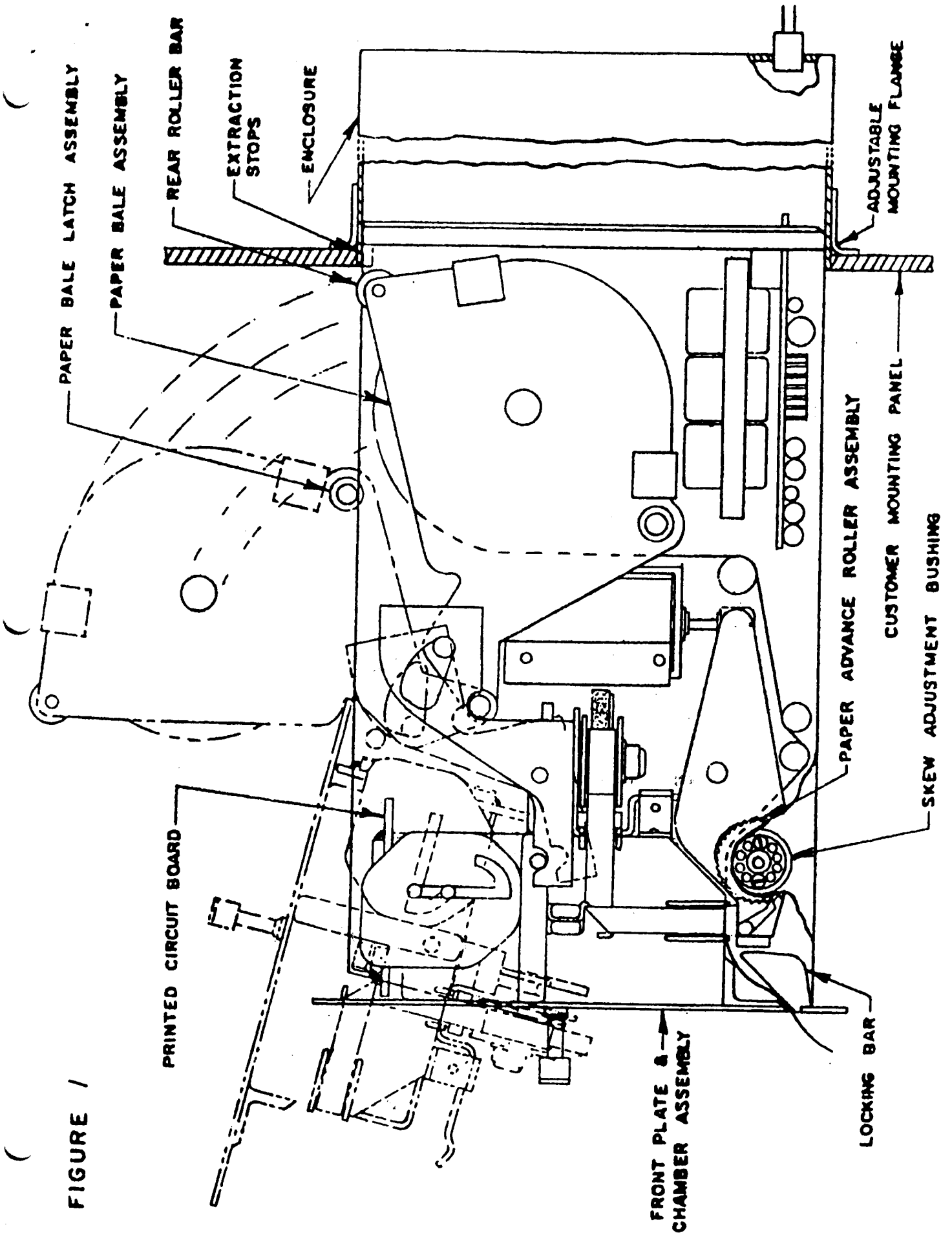


FIGURE 2

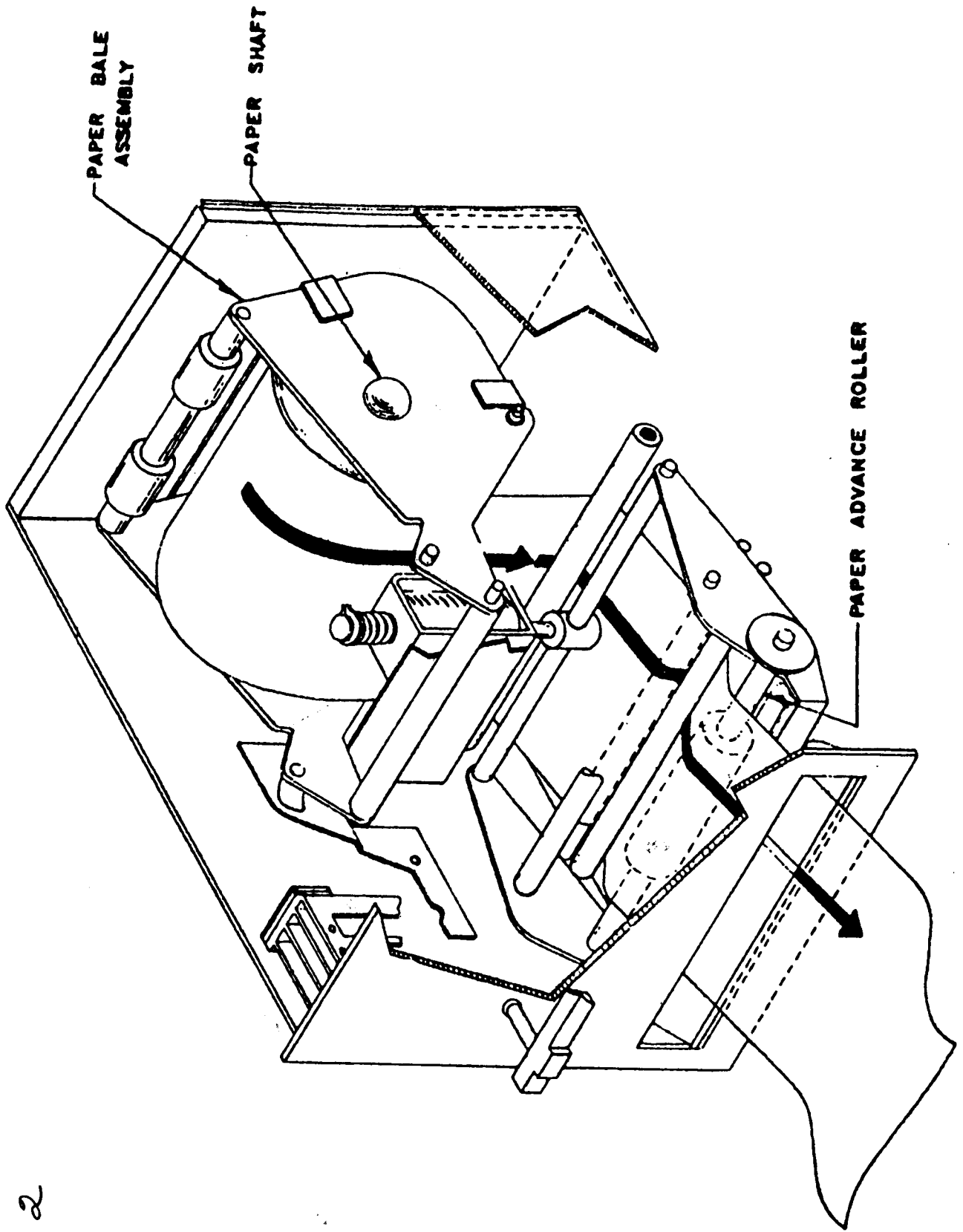
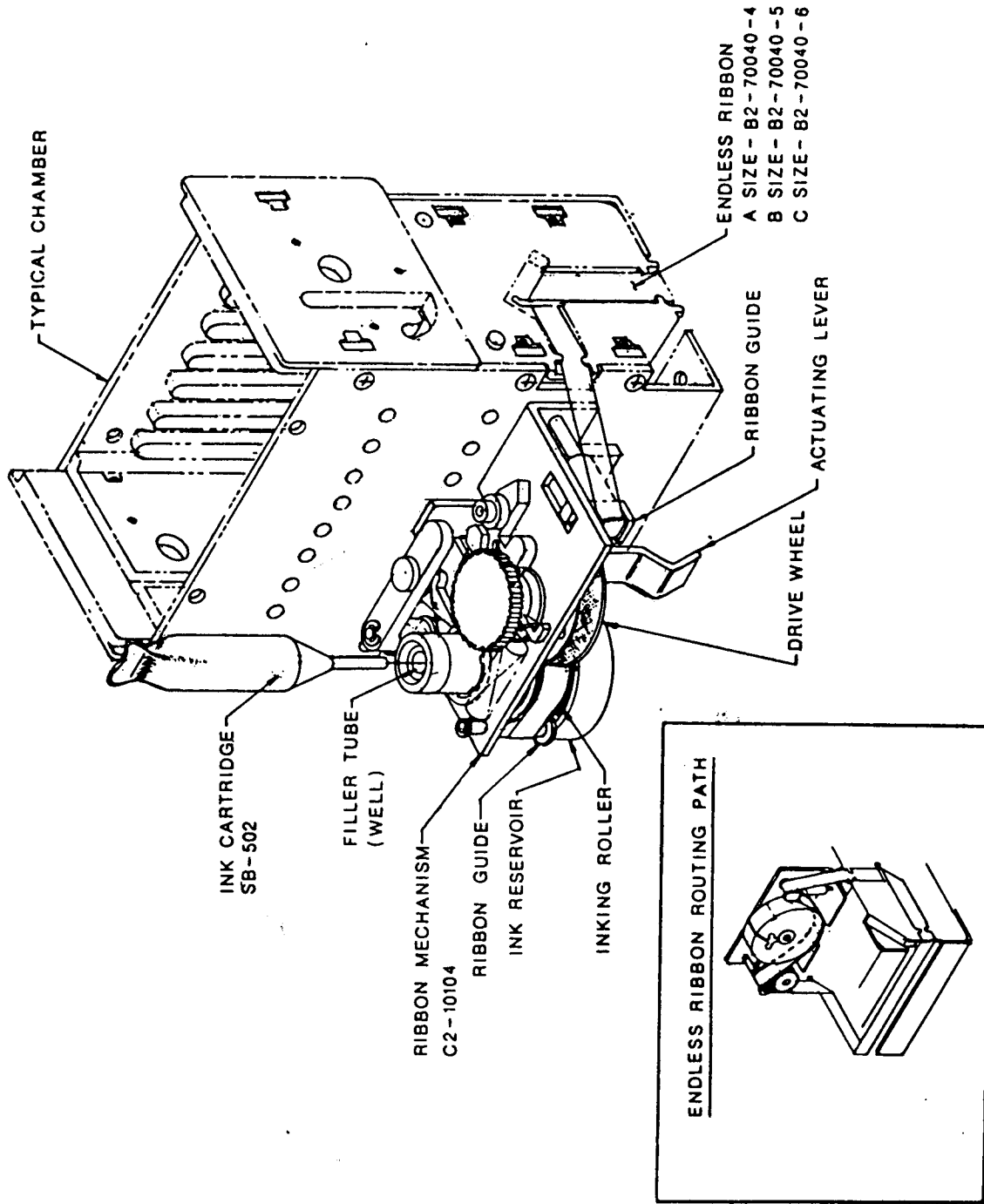


FIGURE 3



4. Modules can now be lifted out of their slot for rotation between the lower order digits with the higher order digits for increased overall operating life, or if necessary, replacement. DO NOT OPERATE (ROTATE) MODULES BY HAND.
5. Replace the locking bar, depressing the bar as much as possible and printed circuit board, taking great care that receptacles are squarely aligned with their appropriate connector pins before applying the firm pressure required to properly seat the board.

D. Re-inking Procedure (Figure 3)

As supplied from the factory, the ink supply is adequate for 45,000 to 70,000 printouts, depending upon the number of columns printing.

To re-ink:

1. Remove cap from ink cartridge SB-502.
2. With printer in working orientation, insert ink cartridge into filler tube.
3. With a pair of diagonal cutters or a knife, cut an air entrance into top of ink cartridge.
4. Allow ink to drain into filler tube. This will require 5 minutes. It will require another 15 minutes at room temperature for the ink to be absorbed by the inking roller from the ink reservoir. During this time do not open print chamber to change paper or turn the instrument upside down as this action will cause ink to spill out from the reservoir.
5. Actuate solenoid plunger manually 25 - 50 times to re-ink ribbon.

F. To Change Ribbon (Figure 3)

1. Push abrasive drive wheel from inking roller and remove ribbon.
2. Replace with new ribbon following "Endless Ribbon Routing Path".
3. Actuate solenoid plunger manually 25 - 50 times to re-ink ribbon.

G. Replacement Parts List

Ribbon mechanism, includes 1 "Ink Cartridge" and 1 "Endless Ribbon"		C2-10104
Endless Ribbon	(14 columns)	B-70040-5
Ink Cartridge		SB-502

MODEL 802 PRINTER

(REAR VIEW)

