



## **U8500 Baggage Tag Printer**

**88-2013-01**

**REV B**

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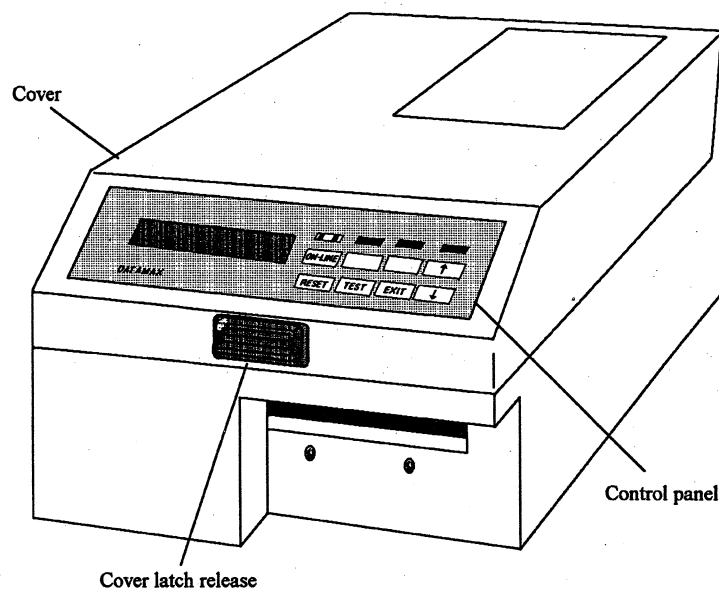
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## CHAPTER 1

### INTRODUCTION



**FIGURE 1. DMX 8500 BAGGAGE TAG PRINTER**

### **SCOPE**

The DMX 8500 Baggage Tag printer offers the latest in affordable, proven, direct thermal bag-tag label printing technology. The DMX 8500 employs a high speed, direct-thermal, intelligent printhead. At a resolution of 200 DPI, this printhead delivers crisp, sharp text, bar-codes and images at speeds exceeding 6 IPS. The mechanism design emphasizes ease of operation and maintenance while achieving a small size and footprint.

The DMX 8500 uses the Intel i960 32 bit RISC microprocessor as its main firmware engine. This allows the DMX 8500 to provide a powerful software interface, a rich feature set, fast operation and low cost. The software interface is relatively easy to learn and use.

*DATAMAX* designed the DMX 8500 specifically for the airline bag-tag market which requires high quality printing and bar codes. The DMX 8500 prints on longer and narrower paper stock, prints at the fastest possible print speed and also allows for easy paper access.

## CHAPTER 2

### INSTALLATION

#### **RADIO AND TELEVISION INTERFERENCE**

This equipment generates, uses, and can radiate radio frequency energy. If it is not installed and used in accordance with the instructions in this guide, it may cause interference to radio communications. It has been tested and found to comply with the limits for a FCC class A. These limits are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference. In such a case, the user, at his own expense, will be required to take whatever measures may be necessary to correct the interference. There is no guarantee that the interference will not occur at a particular installation site.

#### **INSTALLATION PREPARATION**

The installation location for the printer should meet requirements listed in the table below.

##### **Physical and Environmental Installation Requirements**

|             |  |
|-------------|--|
| Power:      | 100-250 VAC, 50/60 Hz single phase. Three-wire ground plug.  |
| Dimensions: | 8.75" high X 6.25" wide X 17.5" deep   |
| Weight:     | 25 pounds  |
| Temperature | 40 degrees F to 110 degrees F  |
| Range:      | Non-operating: -10 to 60C (+14F to 140F)   |
| Relative:   | Operating: 20% to 90% (non-condensing)<br>Non-operating: 5% to 95% (non-condensing)                    |
| Altitude:   | Operating: 0 to 10,000 feet (0 to 3048 (meters)<br>Non-operating: 0 to 30,000 feet (0 to 9144 (meters) |

Inadequate ventilation of this device may result in overheating, which may damage the machine. Make sure the vents are kept clean and free of obstructions. The printer should have at approximately 4 inches of clearance on each side.

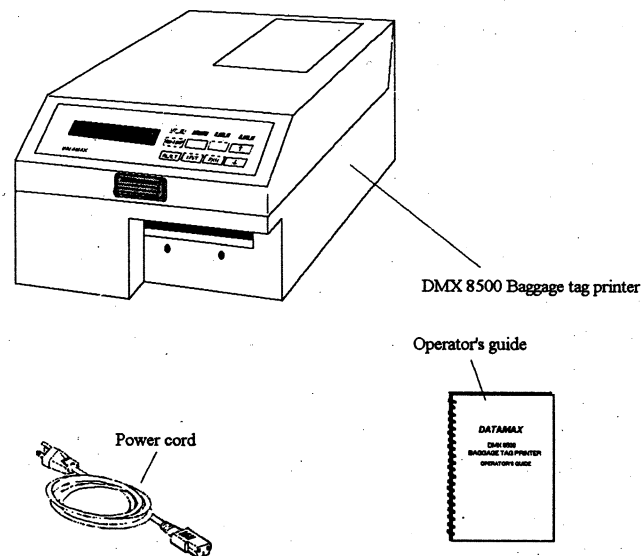
The printer can be installed on a table or desktop counter. The printer must be placed within eight feet of an AC power outlet (115 VAC nominal). If using RS-232 serial interface, the printer must be placed within 50 feet of the communications device.

Select an area for installing the printer. Be sure that the area meets the above installation criteria. You should make sure that the power connection you will be using is not already overloaded with other equipment.

### UNPACKING

Before unpacking the printer, examine the shipping container for obvious signs of damage. If the shipping container is damaged, notify the carrier so a claim can be established. Do not attempt to use the printer. Contact your sales representative to arrange for the printer to be returned to the factory for damage assessment and repair if necessary.

Exercise care when using a knife or other sharp instruments to cut the shipping tape. Unpack the printer from the shipping container. Make sure you receive the items shown below.



In addition to the items shown on the previous page, you should also have on hand a supply of bag-tag stock. Prior to any preparation of the printer for installation or relocation, ensure that the printer is turned off and that the power cord is always unplugged from the AC wall outlet.

### **IMPORTANT SAFETY INSTRUCTIONS**

Your printer has been carefully designed to give you safe, reliable performance. As with all electrical equipment, however, there are a few basic procedures you should take to avoid hurting yourself or damaging the printer:

- Read the setup and operating instructions carefully. Be sure to save them for future reference.
- Read and follow all warning or caution instructions on the printer.
- Unplug the printer before you clean it. Use only a damp cloth; do not use liquid or aerosol cleaners.
- Place your printer on a firm, solid surface to avoid damage from falling and over heating.
- To protect your printer from overheating, make sure all openings on the printer are not blocked. Don't put the printer on or near a heat source, such as a radiator or a register.
- Because the printhead gets hot when printing, avoid touching it.
- Do not use your printer near water or spill any liquids into it.
- Be certain that your power source matches the rating listed on the back of the printer.
- To avoid damaging the power cord, don't put anything on it or place it where it will be walked on. If the cord becomes damaged or frayed, replace it immediately.
- Service should be done by a qualified technician if other than the routine maintenance described.

If anything happens to indicate your printer is not working properly or has been damaged, unplug it immediately and call for service.

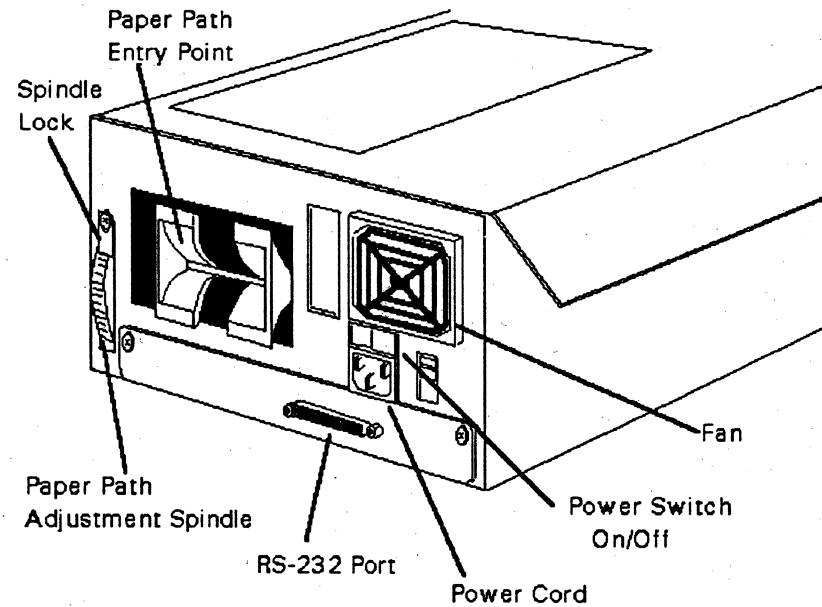
### **POWERING ON THE MACHINE**

- Turn on the printer by pressing the on/off switch located by the power cord.
- Wait for the printer to complete its self diagnostic tests. After the printer successfully completes its tests, the printer is now ready and on-line.

### ADJUSTING THE PAPER SIZE

The DMX 8500 accepts paper from 1.75 to 3.5 inches in width. The paper path guide rails adjust to meet the above dimensions. A paper path adjustment thumb spindle is used to adjust the paper path guide rails to fit the stock. To Adjust the paper path perform the following steps:

- Loosen the spindle lock to allow adjustment of the thumb spindle, see figure 3.
  - Rotate the spindle downward to decrease the size of the paper path.
  - Rotate the spindle upward to increase the size of the paper path
  - Re-tighten the spindle lock when adjustments are complete.
- **NOTE:** Allow .03 to .06 inch gap between the paper and the paper path guides.



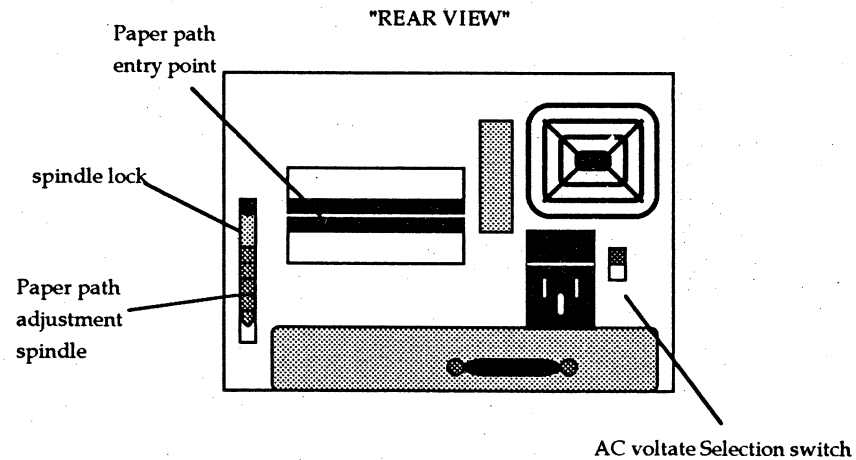
**FIGURE 3. REAR VIEW**



## LOADING THE PAPER

The printer automatically loads and aligns new bag-tags when presented.

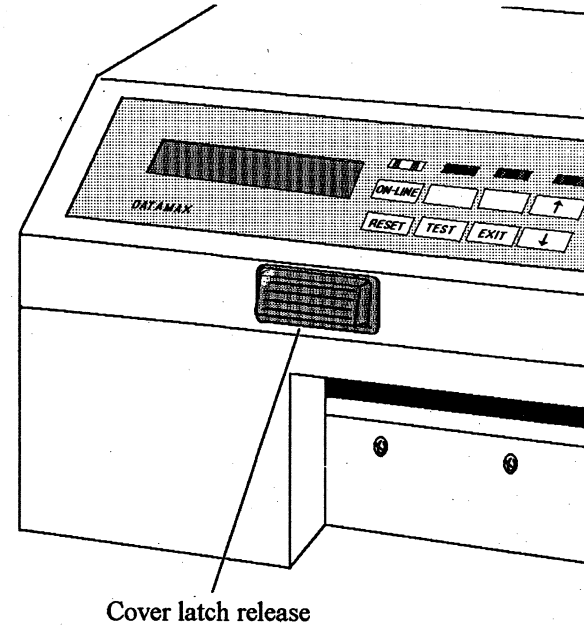
- Power the printer on.
- Insert the bag-tag stock through the back of the printer. See figure 2. When the bag-tag stock is within three inches of the printhead, the printer engages its stock motor. Continue to push the stock forward. As the stock reaches the printhead, the printer automatically aligns the stock.
- After loading the stock successfully, the *alarm* and/or *stock* LED's are extinguished.



**FIGURE 2. LOADING PAPER**

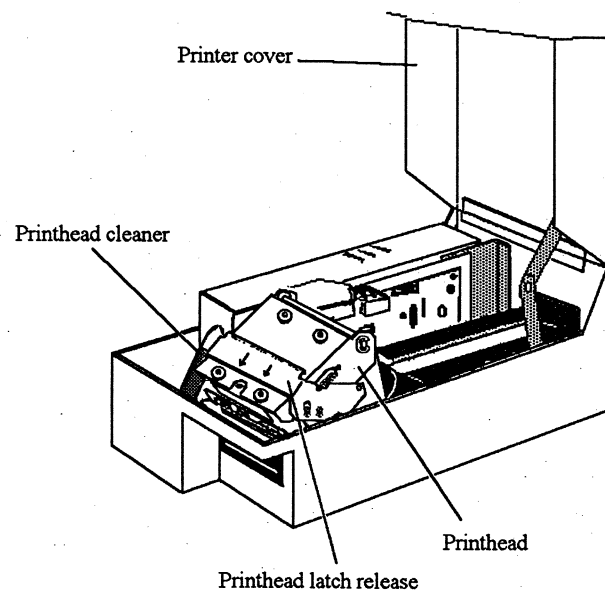
**OPENING THE PRINTER**

- To open the printer cover, press the cover release button. See figure 4.
- After the cover pops open, lift the cover to the full upright position.

**FIGURE 4. COVER RELEASE**

**OPENING THE PRINTHEAD**

- To open the printhead, open the printer cover (see the opening the printer cover section).
- After placing the printer cover to its full upright position,
- Press the printhead release latch downward to open the printhead assembly. See figure 5.
- Lift the printhead to the upright position.

**FIGURE 5. PRINTHEAD RELEASE**

**INITIAL PRINTER SETUP**

Plug the printer into an AC outlet and power on. Before adding paper please follow the instruction below.

- The following message should be displayed on the LCD.

**OUT OF STOCK  
REPLENISH-RESET**

- Press the MENU key. The following LCD message should be displayed.

**PRINTER FUNCTIONS  
DISPLAY STATUS**

- Using the arrow keys scroll down until the following LCD message is displayed.

**PRINTER FUNCTIONS  
SERVICE FUNCTIONS**

- Press the ENTER key. The following LCD message is displayed.

**SERVICE FUNCTIONS  
PASSWORD**

- Press the ENTER key, and enter your password (Consisting of four alpha-numeric characters) by scrolling with the down and up arrow and pressing enter each time you wish to select a digit or character. Once you've enter your password Press the EXIT key and if your password is correct it will be accepted.
- Using the arrow keys scroll down until the following message is displayed.

**SERVICE FUNCTIONS  
DIAGNOSTICS**

- Press the ENTER key. Scroll down until the following message is displayed.

**DIAGNOSTICS  
MAINTENANCE**

- Press the ENTER key and the following LCD message should be displayed.

**MAINTENANCE  
PRINTER ADJUST PROC.**

- Press the ENTER key and the following LCD message should be displayed.

**STOCK OUT CALIBRATE  
Remove Stock-RESET**

- If paper stock is in the printer, then remove it at this time.
- Press the RESET key.
- Press the ENTER key.

The following message should now appear on the LCD.

**TEST TOP OF FORM  
RESET-Top of Form**

- Load stock into the printer at this time.
- Press the RESET key and the paper will advance to the next Top of Form (TOF).  
The following message should be displayed on the LCD.

**POSITION TOF/HEAD  
UP - Backwards Step**

- Open the cover and view the front of the printhead. (See figure 5.)
- Position the stock using the UP or DOWN arrows until the printable area is barely visible.
- Press the RESET key and the stock will advance to the next TOF. If the Stock is not in the desired position then repeat the stock positioning procedure.
- Press the ENTER key and the following message will be displayed.

**REMOVE TAGS  
EXIT - Aborts**

- Tear off the paper stock. Stock will advance to the Exit sensor and back then the printer will display the following message.

**ADJUSTMENT COMPLETE**

After several seconds this message will appear.

**MAINTENANCE  
PRINTER ADJUST PROC.**

- Press the EXIT key until the following message is displayed.

**MAKE CHANGES DEFAULT  
(exit = no) (enter = yes)**

- Press the ENTER key.
- Press the EXIT key until the following message is displayed.

**ONLINE !**

**YOU'RE SETUP IS COMPLETE.**

## CHAPTER 3

### OPERATIONS

#### **FRONT PANEL OPERATIONS: ON-LINE and OFF-LINE MODES**

The DMX 8500 has two modes of operation : *on-line* and *off-line*. When *on-line*, the printer prints bag-tags as requested by the host system. The *off-line* mode allows the operator to query the printer's status, modify operational parameters and test/maintain the printer.

The *on-line* button transitions the printer between *on-line* and *off-line* modes. The printer will not operate in the *on-line* mode if an *alarm* condition exists.

#### **ON-LINE OPERATIONS**

The printer illuminates an *on-line* LED while in the *on-line* mode and with the host system. While *on-line*, the printer accepts data from the host system and prints all the requests. If an alarm condition occurs, the printer suspends printing until the printer clears the alarm.

#### **OFF-LINE OPERATIONS**

*Off-line* mode provides the service technician the information and procedures needed to maintain the printer. The *off-line* functions are available via the keyboard. The service functions require a password to be assessed.

#### **CONTROL PANEL OPERATIONS**

The operator's control panel is the interface tool between the printer and the operator. The panel is used to select the on-line/off-line operation of the printer, print configuration coupons, select the printer functions, and display messages/status. It is important that the operator understands the operation of the panel before attempting to operate the printer. The panel is divided into three (3) sections: *message display area*, *indicator lights (LED)*, and *control keypad*. See figure 6.

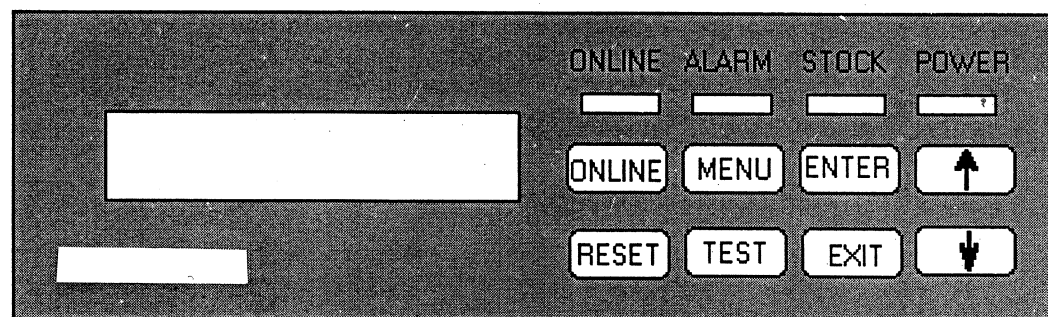


FIGURE 6. CONTROL PANEL

**MESSAGE DISPLAY AREA**

Located on the front of printer, the message display area displays messages and functions on two lines consisting of twenty characters per line.

**INDICATOR LIGHT**

Located above the message display area, the indicator lights demonstrate via four LED's the current printer operating status. The indicator lights are power on, on-line, alarm and stock.

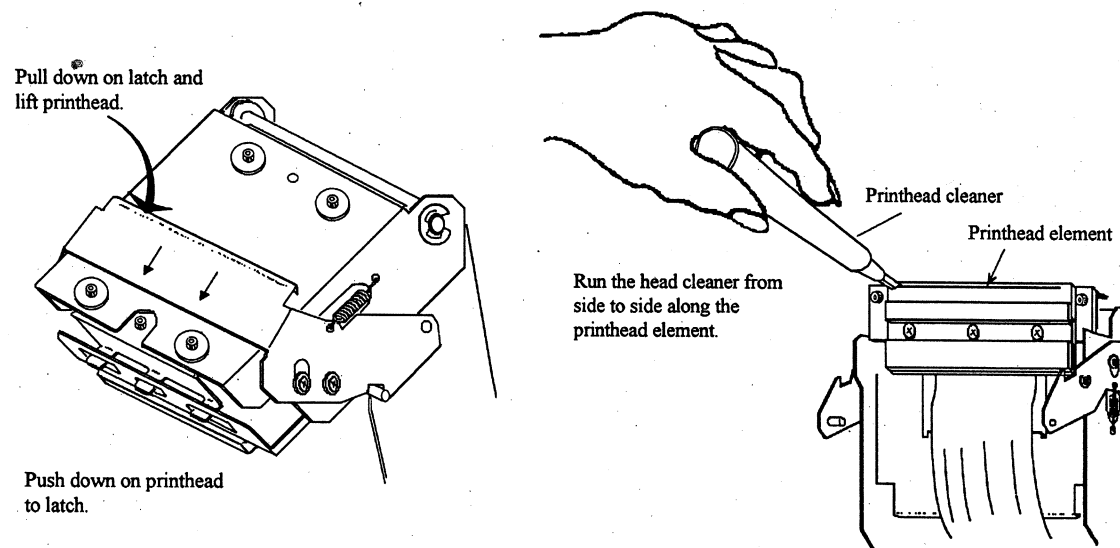
- **POWER ON** When illuminated, this LED indicates power has been applied to the DMX 8500. The power on LED emits a red light.
- **ON-LINE** When illuminated, this LED indicates the printer is on-line and ready to accept data. The on-line LED emits a green light.
- **ALARM** When illuminated, this LED indicates an alarm is activated. The alarm LED emits a yellow light.
- **STOCK** When illuminated, this LED indicates the printer is out of stock. The stock LED emits a yellow light.

**CONTROL KEYPAD**

- **RESET** If off-line and no alarms exist, it performs a form feed. If an alarm exists, it performs an alarm clear sequence. If on-line, the printer will re-align the stock. This can be used if the operator pulls the next tag past the exit sensor while removing a printed tag.



- **ON-LINE** Toggles the printer's off-line or on-line mode.
- **MENU** Enters into the Printer Function menu.
- **TEST** Executes selected diagnostic test.
- **ENTER** Enters a menu level.
- **EXIT** Exits a menu level.
- **ARROW KEYS** These keys select menu entries or parameters.



**FIGURE 7. CLEANING THE PRINTHEAD.**

### CLEANING THE PRINTHEAD

The printhead should be cleaned each time stock added to the printer.  
Clean the printhead as follows:

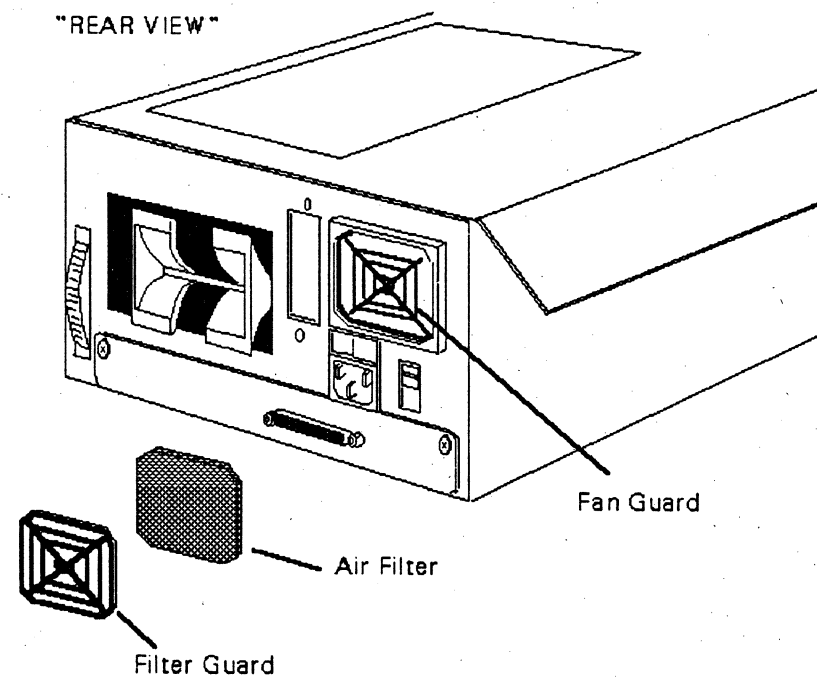
- Open the printer cover. (See Opening the Printer Cover.)
- Press down the printhead latch release and open the printhead to a full upright position. (See Opening the Printhead.)
- Remove the printhead cleaning tool located at the front left side of the mechanism, and clean the printhead element as shown above.

**CLEANING THE AIR FILTER.**

The air filter should be clean at least once a month to insure proper printer operation.

To clean the filter follow the instruction below:

- Lift out the filter guard located in the back of the printer, as shown below.
- Remove the filter.
- Clean with mild soap and water.
- Replace filter and fan guard.



**CHAPTER 4****ALARMS****ALARMS**

This section describes the DMX 8500 bag-tag alarms.

When an alarm exists, the printer automatically off-lines itself and illuminates an alarm LED. The control panel message displays the activated alarm and a brief corrective action message.

**ALARM REPORTING**

The printer's alarms are displayed in two formats: operator and maintenance. The operator alarm is automatically displayed, while the maintenance alarms must be queried by a **technician**.

**ALARM CLEARING**

The DMX 8500 contains two alarm clearing mechanism. The stock load procedure (described earlier in this manual) performs an alarm clear sequence. Also, the reset button clears alarms. When clearing a stock jam, follow the procedure listed below:

1. Open the printer's cover.
2. Examine the paper path and remove any jammed stock. Open and inspect the printhead.
3. Close the printhead (if opened) and the printer's cover.
4. Press the reset key.

An alternative alarm clear sequence is to press the *reset* button.

**OPERATOR ALARMS**

The LCD screen automatically displays the operator alarms during an alarm. No operator intervention is required. This format displays the printer's alarm along with a corrective action the operator should take. Following is a list of all operator alarms, descriptions and corrective action.

|               |                         |
|---------------|-------------------------|
| <b>Alarm:</b> | <b>Electronic Alarm</b> |
|               | <b>Press Reset</b>      |

|                           |   |
|---------------------------|---|
| <b>Description:</b>       | A malfunction has been detected within the printer's electronic components.   |
| <b>Corrective Action:</b> | Perform an alarm clear sequence. If the alarm persists call for assistance.   |
| <b>Alarm:</b>             | <b>Printhead Error</b><br><b>Press Reset</b>  |
| <b>Description:</b>       | The printhead electronics detected a fault.   |
| <b>Corrective Action:</b> | Perform an alarm clear sequence. If the alarm persists, call for assistance.  |
| <b>Alarm:</b>             | <b>Tag Alarm</b><br><b>Check - Press Reset</b>  |
| <b>Description:</b>       | The printer detected an error during print. An obstruction in the paper path is the usual cause. Another possibility is improper paper loading.   |
| <b>Corrective Action:</b> | Check the paper path for any obstructions and perform an alarm clear sequence.  |
| <b>Alarm:</b>             | <b>Alarm Clear Required</b><br>sequence. <b>Press Reset</b>   |
| <b>Description:</b>       | This LCD screen displays this error after a <i>head up</i> alarm occurs. This errors occurs if the head mechanism has been latched down, but the alarm clear sequence has not been performed. |
| <b>Corrective Action:</b> | Perform an alarm clear sequence.  |
| <b>Alarm:</b>             | <b>Out of Stock</b><br><b>Replenish - Reset</b>   |
| <b>Description:</b>       | The printer is out of stock.  |
| <b>Corrective Action:</b> | Replenish the stock as described in the load stock section.   |

|                           |  |
|---------------------------|--|
| <b>Alarm:</b>             | <b>Head Up<br/>Lower- Press Reset</b>  |
| <b>Description:</b>       | The printer's head mechanism is not latched in its "print" position.                             |
| <b>Corrective Action:</b> | Ensure the head mechanism is latched down. Perform an alarm clear                                |
| <b>Alarm:</b>             | <b>Please Remove<br/>Tags</b>  |
| <b>Description:</b>       | The exit sensor is blocked and the host has requested another set of tags.                       |
| <b>Corrective Action:</b> | Remove previous batch of Tags. If already removed and sensor still blocked, Press the RESET key. |

**CHAPTER 5****DIAGNOSTICS****TROUBLE SHOOTING GUIDE**

This is a list of things to look for if the alarm list can't assist you with a printer problem.

**TAG ALARM**

The printer has failed to detect the top of form mark.

- Check for the correct PAPER PARAMETER/TOP-OF-FORM parameter.
- Check for the correct PAPER PARAMETER/LENGTH parameter.
- Check for paper rails adjustment. (See ADJUSTING THE PAPER SIZE.)

**OUT OF STOCK**

The printer is detecting an out of stock condition, when stock is present.

- Run the DIAGNOSTICS/MAINTENANCE/PRINTER ADJUST PROC. The first step STOCK OUT CALIBRATION should correct this problem.
- Check the DIAGNOSTICS/MAINTENANCE/SENSOR READINGS. The translucency of the stock may be too great for the PRINTER ADJUST PROC. Lower the SPECIAL PARAMETERS/OOS value manually. Note that this value is activated during an alarm clear/init procedure.

**OFF CENTER PRINT**

- Use the PRINTER PARAMETERS/HORIZONTAL parameters to adjust to the right or left.

**EARLY OR LATE PRINT**

- Run the DIAGNOSTICS/MAINTENANCE/PRINTER ADJUST PROC.
- Use PRINTER PARAMETERS/VERTICAL parameter to adjust the print to start later.
- If the print is starting too early the PRINTER ADJUST PROC must be readjusted so less of the tag is present.

**DIAGNOSTIC LIST**

DISPLAY STATUS displays all the alarms that are currently active. The alarm message displayed is more specific to the alarm than the alarm message displayed unsolicited. This list of alarms will assist the technician or maintenance personnel in troubleshooting the printer's electrical or mechanical subsystems.

| ALARM MESSAGE      | TROUBLE  | SOLUTION  |
|--------------------|--|---|
| MECHANISM TIMEOUT  | The formatter processor has timed out waiting for the transport processor.                                       | <ul style="list-style-type: none"> <li>. Faulty electronics.</li> <li>. Defective printhead.</li> </ul>                       |
| MECHANISM FIRMWARE | An operation failed but no direct cause was found.   | <ul style="list-style-type: none"> <li>. Electronic alarms.</li> <li>. Supply alarms.</li> <li>. Mechanism alarms.</li> </ul> |
| TRP ROM FAULT      | The transport processor (80188) is reporting a ROM fault.  | <ul style="list-style-type: none"> <li>. Defective transport Prom.</li> <li>. Defective PCB.</li> </ul>                       |
| TRP RAM FAULT      | The transport processor (80188) is reporting a RAM fault.  | <ul style="list-style-type: none"> <li>. Defective transport Ram.</li> <li>. Defective PCB.</li> </ul>                        |
| HEAD ERROR         | The transport processor has detected problems communicating with the print head.                                 | <ul style="list-style-type: none"> <li>. Defective printhead cabling.</li> <li>. Defective printhead.</li> </ul>              |
| MECHANISM TABLE    | A print command was issued before the formatter (i960) processor has initialized the transport processor (80188) | <ul style="list-style-type: none"> <li>. Defective PCB electronics.</li> </ul>  |

| ALARM MESSAGE        | TROUBLE  | SOLUTION   |
|----------------------|--|--|
| TOF POSITIONING      | The paper was being advanced,. either printing a tag, seeking top of form or loading stock, and it failed to find top of form. | <p>While loading stock the TOF SENSOR is blocked, but the stock is not pushed under the print head.</p> <ul style="list-style-type: none"> <li>. The printer has an incorrect TOP-OF-FORM parameter programmed.</li> <li>. The paper path is obstructed.</li> <li>. Defective TOF Sensor, Motor, or Electronics</li> </ul> |
| HEAD UP DURING PRINT | During a print operation, the firmware detected the print head in the up position.   | <ul style="list-style-type: none"> <li>. Print head raised during print.</li> <li>. Defective head up sensor or assembly.</li> </ul>   |
| RESET REQUIRED       | A FAULT condition was active and clear. This fault is requesting the RESET key to be pressed.                                  | <ul style="list-style-type: none"> <li>. The print head was re-latched back down. Press RESET.</li> </ul>  |
| OUT OF STOCK         | The printer detected an out of stock condition.  | <ul style="list-style-type: none"> <li>. No stock present under the TOF SENSOR.</li> <li>. Defective TOF SENSOR.</li> <li>. The PRINTER ADJUST PROCEDURE was not executed correctly.</li> </ul>  |
| HEAD UP              | The printhead is in the up Position.   | <ul style="list-style-type: none"> <li>. Printed head has be lifted, Close.</li> <li>. Defective head up sensor or assembly.</li> </ul>  |



## EXAMPLE LABELS

**FIGURE A-1. EXAMPLE CONFIGURATION LABEL**







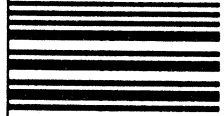
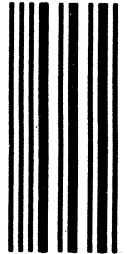

|   |     |      |      |     |    |     |     |    |      |     |    |      |     |    |      |     |    |     |     |    |      |     |    |      |   |     |    |      |     |    |     |     |    |      |     |    |      |
|---|-----|------|------|-----|----|-----|-----|----|------|-----|----|------|-----|----|------|-----|----|-----|-----|----|------|-----|----|------|---|-----|----|------|-----|----|-----|-----|----|------|-----|----|------|
| <b>DL 000-999</b><br><br>2468135007<br>AGENT: 641955 ATL/29<br>02 FEB 92 12:45<br>PNR: 1061AE 03/15<br>BOND/JAMES<br><b>BUSINESS CLASS</b><br><br><br><table border="0"> <tr><td>MCO</td><td>DL</td><td>7777</td></tr> <tr><td>LAX</td><td>UA</td><td>432</td></tr> <tr><td>DFW</td><td>AA</td><td>4321</td></tr> <tr><td>ACA</td><td>DL</td><td>3579</td></tr> </table> <b>DL 000-999</b><br><br><table border="0"> <tr><td>MCO</td><td>DL</td><td>7777</td></tr> <tr><td>LAX</td><td>UA</td><td>432</td></tr> <tr><td>DFW</td><td>AA</td><td>4321</td></tr> <tr><td>ACA</td><td>DL</td><td>3579</td></tr> </table> <b>DL 000-999</b><br> | MCO | DL   | 7777 | LAX | UA | 432 | DFW | AA | 4321 | ACA | DL | 3579 | MCO | DL | 7777 | LAX | UA | 432 | DFW | AA | 4321 | ACA | DL | 3579 | <b>DL 000-999</b><br><br>2468135007<br>BOND/JAMES<br><b>BUSINESS CLASS</b><br><b>FINAL DESTINATION</b><br>ORLANDO<br>DMX AIRPORT<br><b>MCO</b><br><b>DL 7777</b><br>↑ LAX<br>↑ UA 432<br>↑ DFW<br>↑ AA 4321<br>↑ ACA<br>↑ DL 3579<br><br><br>BOND/JAMES<br>BAGGAGE CHECKED TO<br>ORLANDO<br><table border="0"> <tr><td>MCO</td><td>DL</td><td>7777</td></tr> <tr><td>LAX</td><td>UA</td><td>432</td></tr> <tr><td>DFW</td><td>AA</td><td>4321</td></tr> <tr><td>ACA</td><td>DL</td><td>3579</td></tr> </table> <br><b>DL 000-999</b> | MCO | DL | 7777 | LAX | UA | 432 | DFW | AA | 4321 | ACA | DL | 3579 |
| MCO   | DL  | 7777 |      |     |    |     |     |    |      |     |    |      |     |    |      |     |    |     |     |    |      |     |    |      |   |     |    |      |     |    |     |     |    |      |     |    |      |
| LAX   | UA  | 432  |      |     |    |     |     |    |      |     |    |      |     |    |      |     |    |     |     |    |      |     |    |      |   |     |    |      |     |    |     |     |    |      |     |    |      |
| DFW   | AA  | 4321 |      |     |    |     |     |    |      |     |    |      |     |    |      |     |    |     |     |    |      |     |    |      |   |     |    |      |     |    |     |     |    |      |     |    |      |
| ACA   | DL  | 3579 |      |     |    |     |     |    |      |     |    |      |     |    |      |     |    |     |     |    |      |     |    |      |   |     |    |      |     |    |     |     |    |      |     |    |      |
| MCO   | DL  | 7777 |      |     |    |     |     |    |      |     |    |      |     |    |      |     |    |     |     |    |      |     |    |      |   |     |    |      |     |    |     |     |    |      |     |    |      |
| LAX   | UA  | 432  |      |     |    |     |     |    |      |     |    |      |     |    |      |     |    |     |     |    |      |     |    |      |   |     |    |      |     |    |     |     |    |      |     |    |      |
| DFW   | AA  | 4321 |      |     |    |     |     |    |      |     |    |      |     |    |      |     |    |     |     |    |      |     |    |      |   |     |    |      |     |    |     |     |    |      |     |    |      |
| ACA   | DL  | 3579 |      |     |    |     |     |    |      |     |    |      |     |    |      |     |    |     |     |    |      |     |    |      |   |     |    |      |     |    |     |     |    |      |     |    |      |
| MCO   | DL  | 7777 |      |     |    |     |     |    |      |     |    |      |     |    |      |     |    |     |     |    |      |     |    |      |   |     |    |      |     |    |     |     |    |      |     |    |      |
| LAX   | UA  | 432  |      |     |    |     |     |    |      |     |    |      |     |    |      |     |    |     |     |    |      |     |    |      |   |     |    |      |     |    |     |     |    |      |     |    |      |
| DFW   | AA  | 4321 |      |     |    |     |     |    |      |     |    |      |     |    |      |     |    |     |     |    |      |     |    |      |   |     |    |      |     |    |     |     |    |      |     |    |      |
| ACA   | DL  | 3579 |      |     |    |     |     |    |      |     |    |      |     |    |      |     |    |     |     |    |      |     |    |      |   |     |    |      |     |    |     |     |    |      |     |    |      |

FIGURE A-2. EXAMPLE BAG-TAG

| TIME |               |        |      | TIME |               |        |      | DMX-8500 ALARM HISTORY |               |       |      |
|------|---------------|--------|------|------|---------------|--------|------|------------------------|---------------|-------|------|
|      | TIME          | GROUP  | TYPE |      | TIME          | GROUP  | TYPE |                        | TIME          | GROUP | TYPE |
| 1    | 0000000:22:56 | MECHAN | 001  | 11   | 0000001:30:29 | ELECT  | 008  |                        |               |       |      |
| 2    | 0000000:26:56 | ELECT  | 002  | 12   | 0000001:31:47 | ELECT  | 002  |                        |               |       |      |
| 3    | 0000000:31:34 | ELECT  | 002  | 13   | 0000001:32:35 | ELECT  | 008  |                        | 0000005:21:01 |       |      |
| 4    | 0000000:42:59 | ELECT  | 002  | 14   | 0000002:47:43 | MECHAN | 002  |                        |               |       |      |
| 5    | 0000000:52:09 | ELECT  | 002  | 15   | 0000002:56:00 | MECHAN | 002  |                        | SERIAL NO.    | 0     |      |
| 6    | 0000000:55:01 | ELECT  | 002  | 16   | 0000004:10:08 | MECHAN | 001  |                        |               |       |      |
| 7    | 0000001:02:43 | ELECT  | 002  | 17   | 0000004:15:29 | MECHAN | 002  |                        |               |       |      |
| 8    | 0000001:24:44 | ELECT  | 002  | 18   | 0000004:15:38 | MECHAN | 002  |                        |               |       |      |
| 9    | 0000001:26:03 | ELECT  | 008  | 19   | 0000004:15:45 | MECHAN | 002  |                        |               |       |      |
| 10   | 0000001:29:40 | ELECT  | 002  | 20   | 0000004:21:08 | MECHAN | 002  |                        |               |       |      |
| LAST | 0000004:52:48 | ELECT  | 007  |      |               |        |      |                        |               |       |      |

FIGURE A-3. ALARM HISTORY LABEL

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