

Thermal Printer User's Manual

2443



Zebra Technologies Corporation

User's Manual No. 980336-001 Rev. A

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FOREWORD

This manual provides installation and operation information for the LP 2443 series printers, manufactured by Zebra Technologies Corporation, Camarillo, California.

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LP 2443 Thermal Printers



European Council Directive		Compliance to Standards	
89/336/EEC	EMC Directive	EN 55022-B 1995	RF Emissions control
92/31/EE	EMC Directive	EN 50082-1 1992	Immunity to Electro-magnetic Disturbances

FCC - DECLARATION OF CONFORMITY:



Model: LP 2443 conforms to the following specification:

FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109(a) Class B digital device

Supplemental Information:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following Two Conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

INDUSTRY CANADA NOTICE:

This device complies with Industry Canada ICS-003 class B requirements.

Cet équipement est conforme à l'ICS-003 classe B de la norme Industrielle Canadienne



SHOCK HAZARD WARNING:

The printer and power supply should never be operated in a location where either one can get wet. Personal injury could result.



MEDIA WARNING:

Always use high quality, approved labels, tags and transfer ribbons. If adhesive backed labels are used that DO NOT lay flat on the backing liner, the exposed edges may stick to the label guides and rollers inside the printer, causing the label to peel off from the liner and jam the printer. Approved supplies can be ordered from your dealer.



RELOADING HINT:

If you should run out of labels while printing, DO NOT turn the power switch OFF (0) while reloading or data loss may result. The printer will automatically resume printing when a new label roll is loaded.

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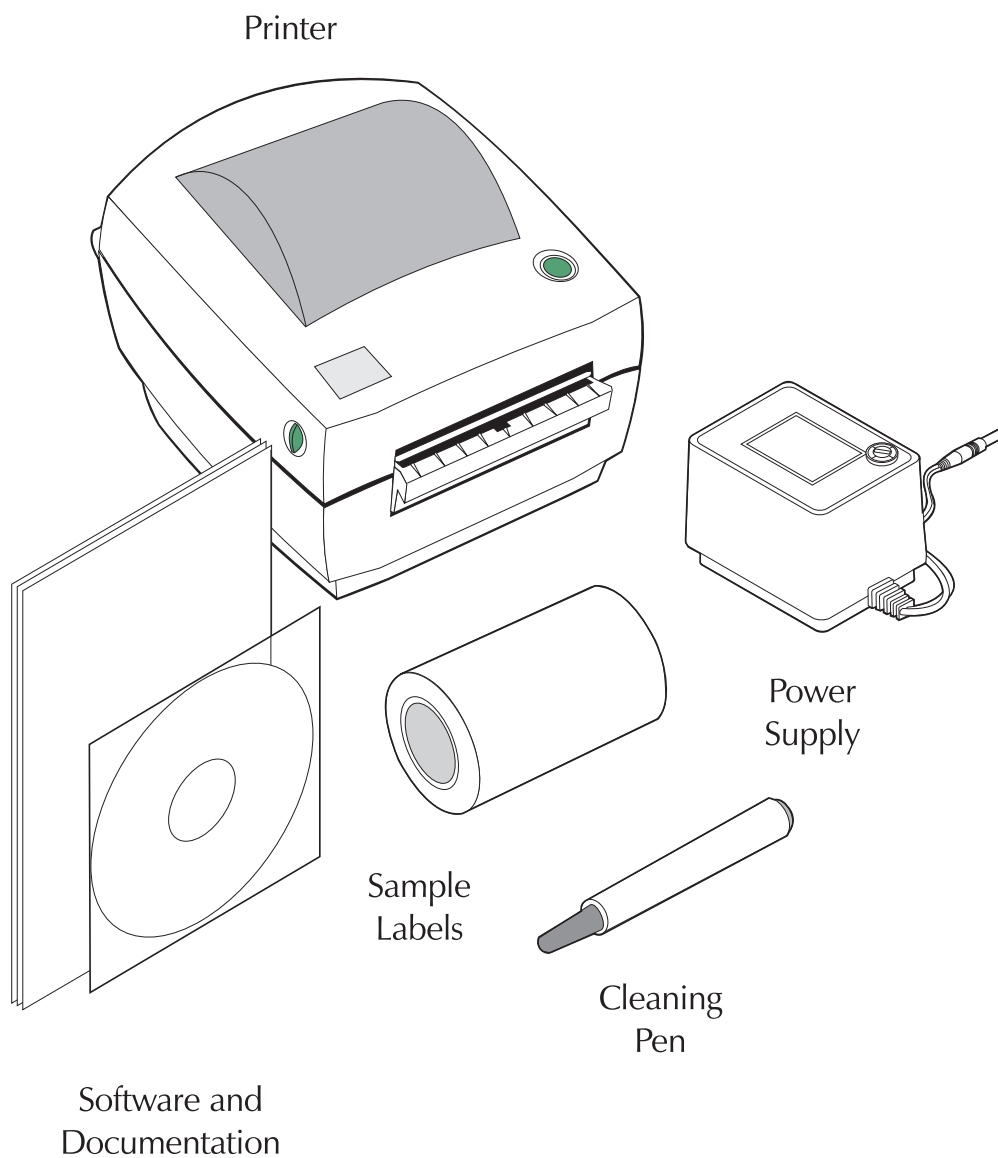
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Installation and Operation

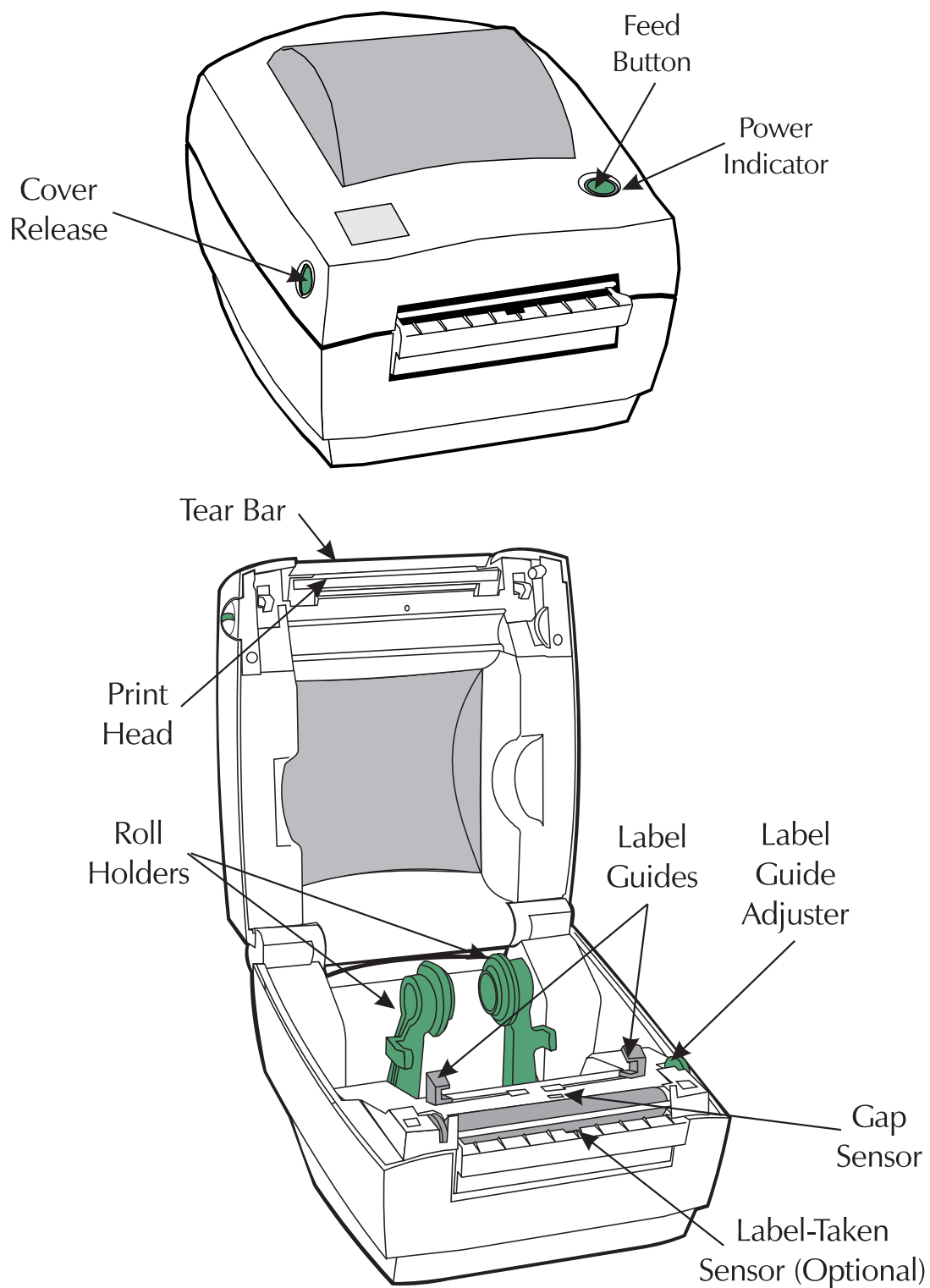
This section provides information on the installation and operation of the printer.

The LP 2443 is a low cost, desktop direct thermal printer. This family of printers is specifically designed for printing labels, tags or continuous receipts (with or without bar codes) from any DOS[™], Windows[™] or ASCII-based compatible computer.

Unpacking Your Printer

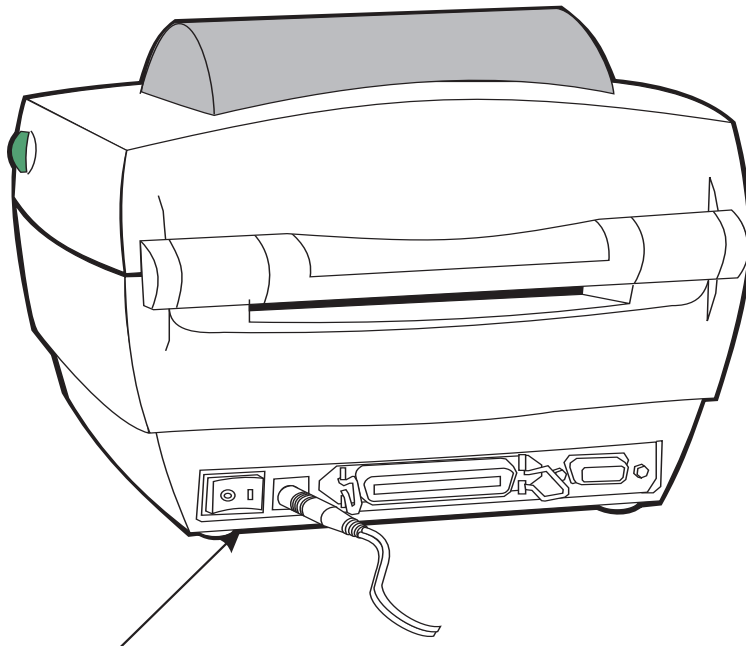


Getting To Know Your Printer



Installation The following steps will guide you through the installation of the printer and software.

Step ❶ Attach Power Supply To The Printer



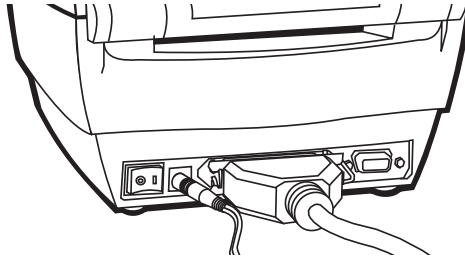
Power Switch

Attach the power supply to a suitable AC outlet.

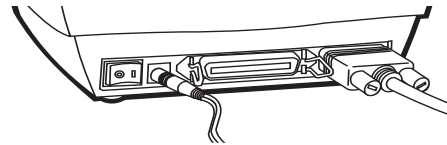
See the SHOCK HAZARD WARNING on page iv.

Step ② Attach Interface Cable

Parallel Interface



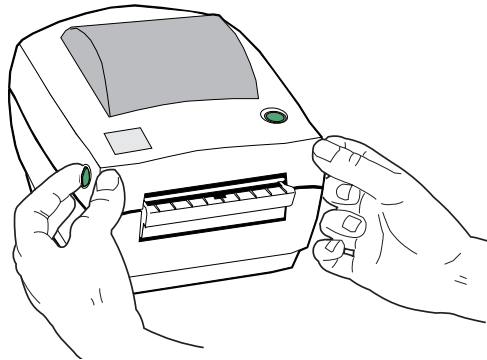
Serial Interface



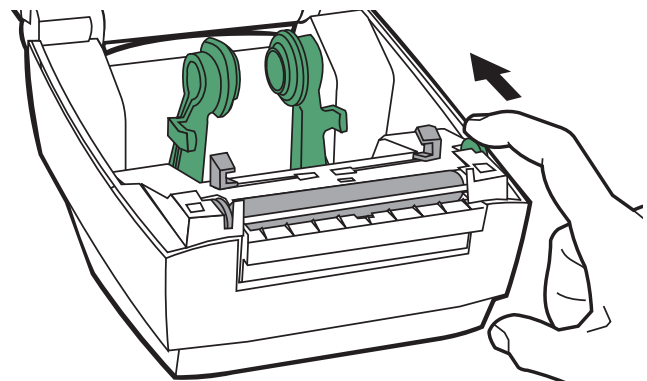
For serial cable wiring, refer to Appendix A.

Step ③ Open Printer

Open Cover



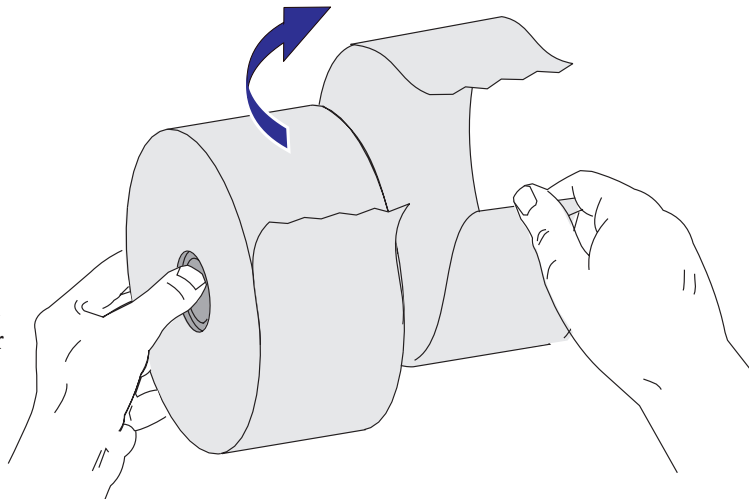
Open Guides



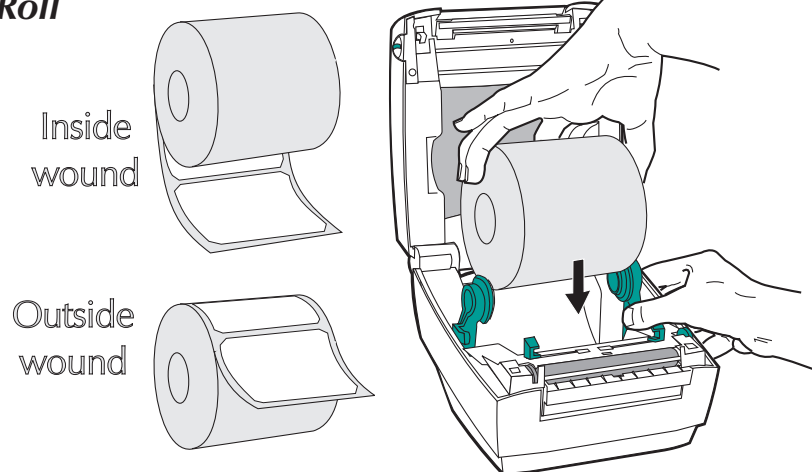
Step 4 Load Media

**Remove the outside
length of media**

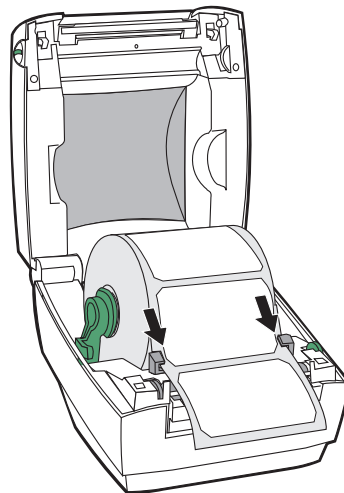
For more information on media preparation, refer to Appendix A.



Install Roll



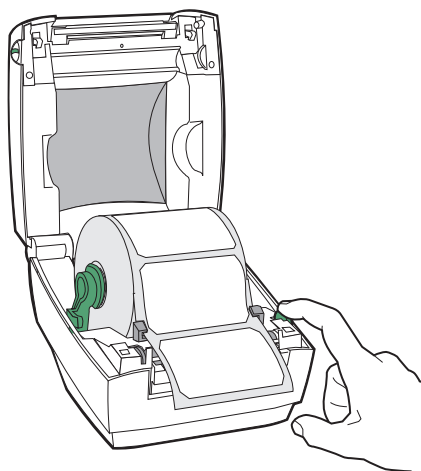
Thread Through Guides



Load Media - continued

Adjust Guides

***Note: When using
linerfree labels,
adjust the guides
to the widest
position.***



Close Cover and Tap Feed Switch

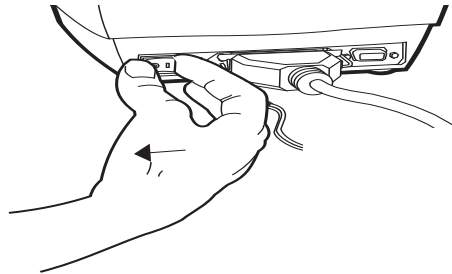


If the indicator fails to light, refer to
Appendix A - Troubleshooting.

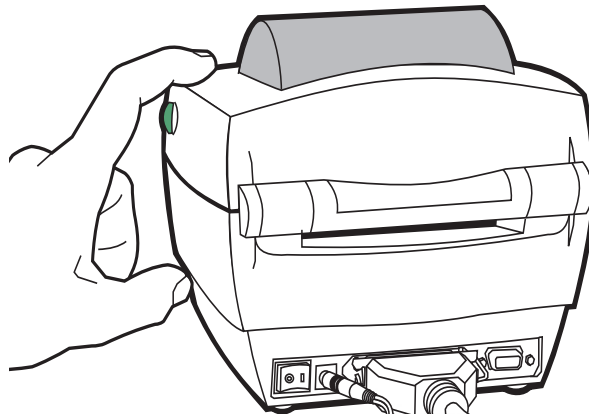
Step 5 AutoSense Gap Sensor Adjustment

Perform this procedure when loading a new roll. You cannot perform this procedure if using the printer's label dispenser option.

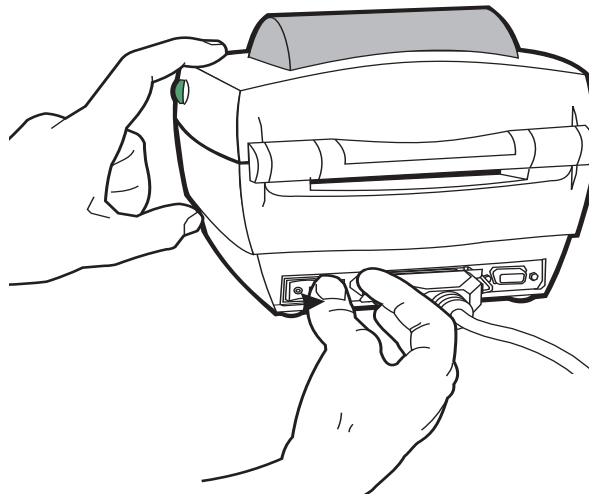
Power OFF



**Hold
Feed Button**

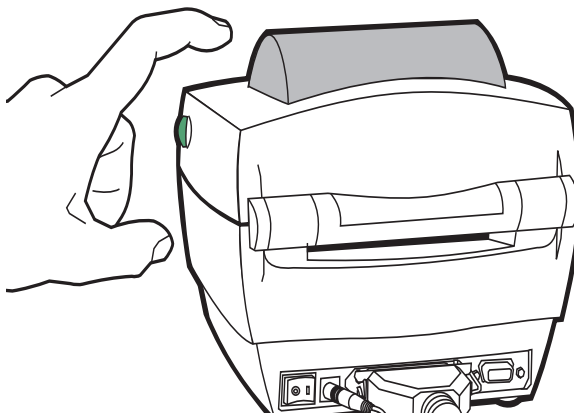


Power ON



AutoSense Gap Sensor Adjustment - continued

**When Indicator
Flashes, Release
Feed Button**



**Printer Advances
Media and Prints
Status Summary**

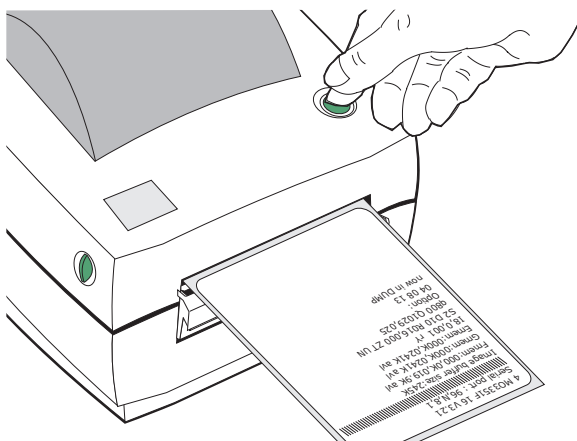
**Note: Printer is in
diagnostic dump mode**

```

4 M03351F 16 V3.21
Serial port : 96,N,8,1
////////////////////
Image buffer size:245K
Fmem:000,0K,019.9K avl
Gmem:000K,0241K avl
Emem:000K,0241K avl
I8,0,001 rY
S2 D10 R016,000 ZT UN
q800 Q1029,025
Option:
04 08 13
now in DUMP
    
```

**Tap Feed Button
To Begin Normal
Operation**

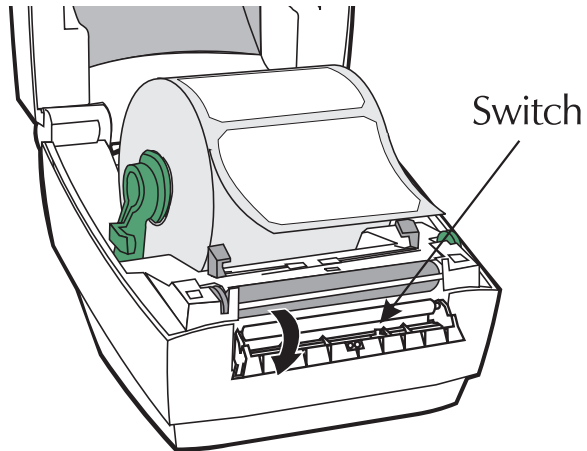
**Note: Printer prints
"out of DUMP"**



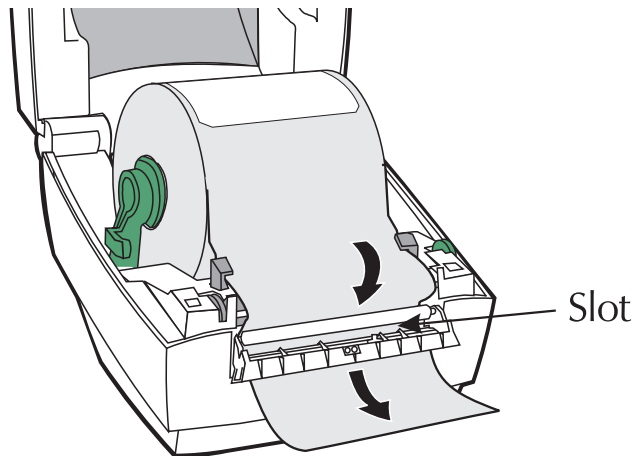
If the indicator remains orange or red, see the troubleshooting steps.

Label Dispenser Option

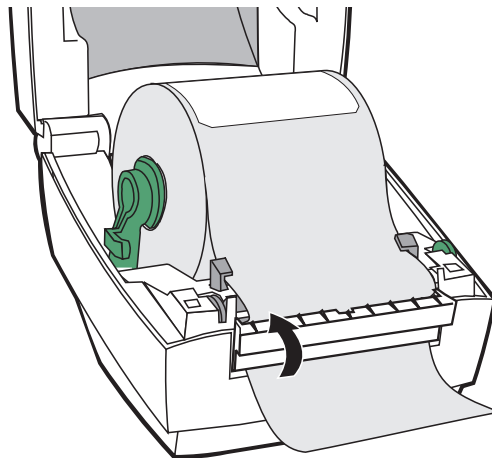
***Open Door and
Push Switch
1 = Dispense
0 = Batch***



***Remove Several
Labels and Push
Liner Through Slot***

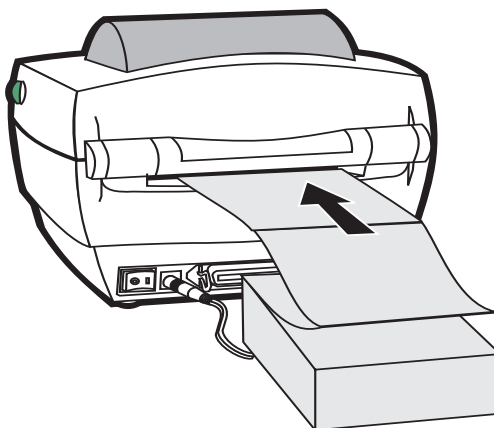


Close Door



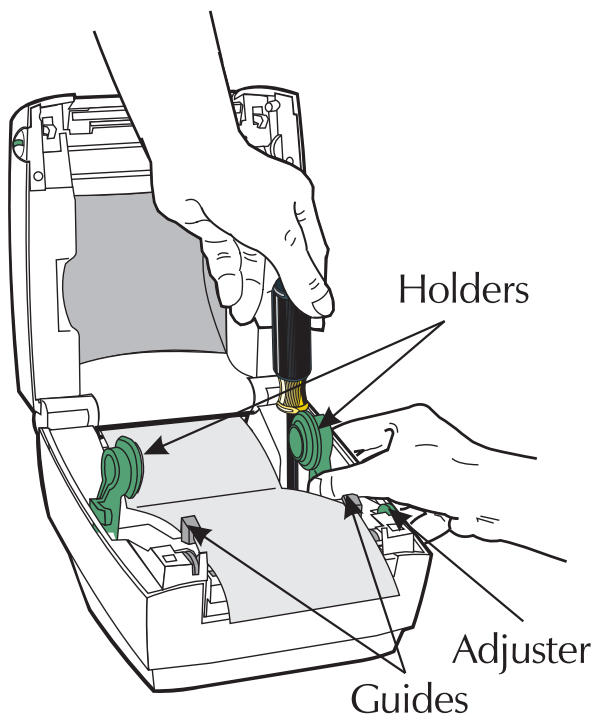
Using Fan-Fold Media

Insert Media

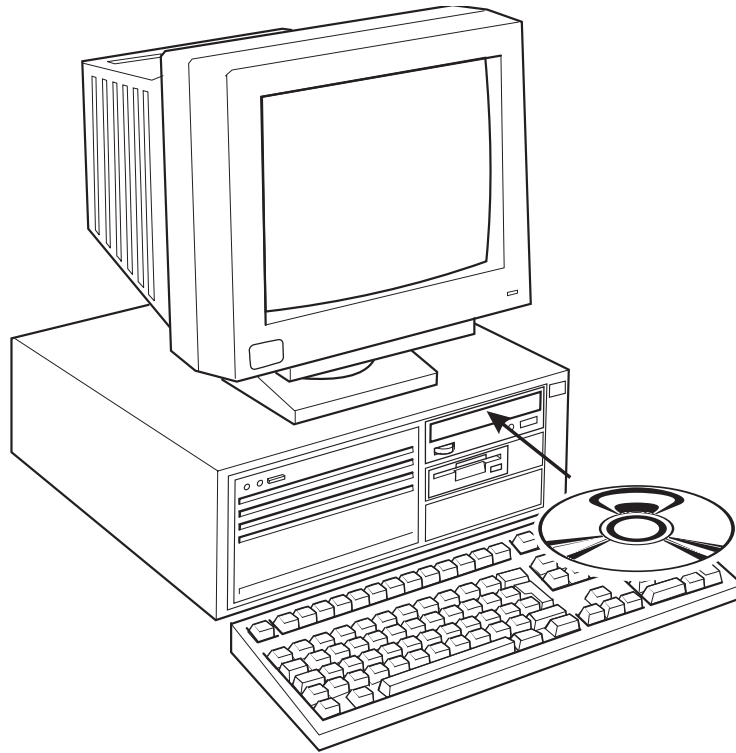


Adjust Guides
Adjust Holders
Tighten Screw

**Note: Use a small
Phillips driver (#1)**



Step ⑥ Install Software

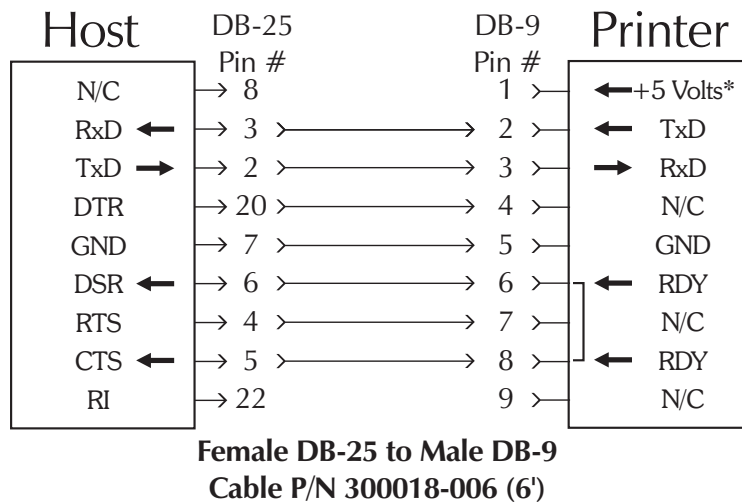
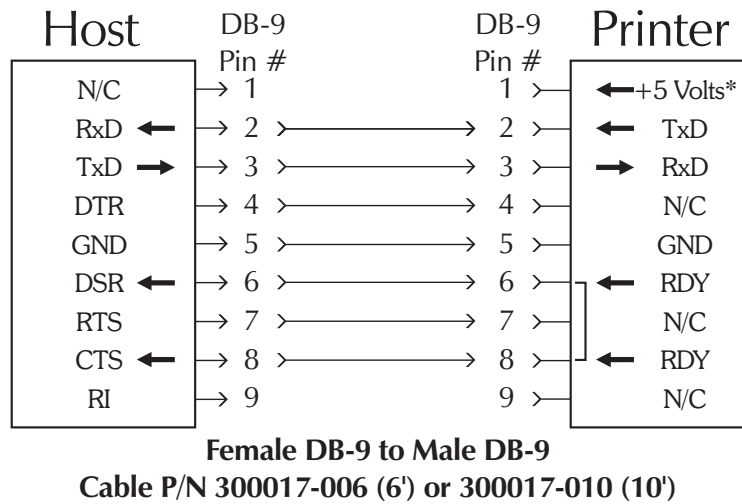


Start your computer and follow the installation instructions on the compact disc (CD).

Appendix A - Troubleshooting

Problem	Solution or Reason
POWER indicator does not light GREEN when power switch is turned to ON (1) position.	1. Check power connections from A.C. outlet to power supply to printer.
POWER indicator lights GREEN, but printer will not print.	1. Check interface cable connections from computer to printer.
Printer appears to be working (media is being fed out), but nothing is printed.	1. Verify that the labels are the correct type (direct thermal). 2. Check that the roll is loaded with the direct thermal side facing up. 3. Clean the print head with cleaning pen.
Printing is faded or poor quality.	1. Clean the print head with cleaning pen. 2. Adjust print speed/darkness in software.
Prints only partial label or skips a label.	1. Perform AutoSense gap sensor adjustment on page 8. 2. Label caught on print head. 3. Print head is not properly latched. 4. Possible software problem. Check the printer memory configuration. Refer to the EPL2 Programming manual.
Printing stops and POWER indicator lights ORANGE or RED.	1. Perform AutoSense gap sensor adjustment on page 8. 2. Possible problem with label stock. Use only approved labels and tags. 3. Possible label jam. 4. Insufficient memory for label size. Check the printer memory configuration. 5. Possible software problem. Refer to the EPL2 Programming manual.

Serial Interface Cable Wiring The figure below displays the cable wiring required to use the printer's RS-232 serial interface.



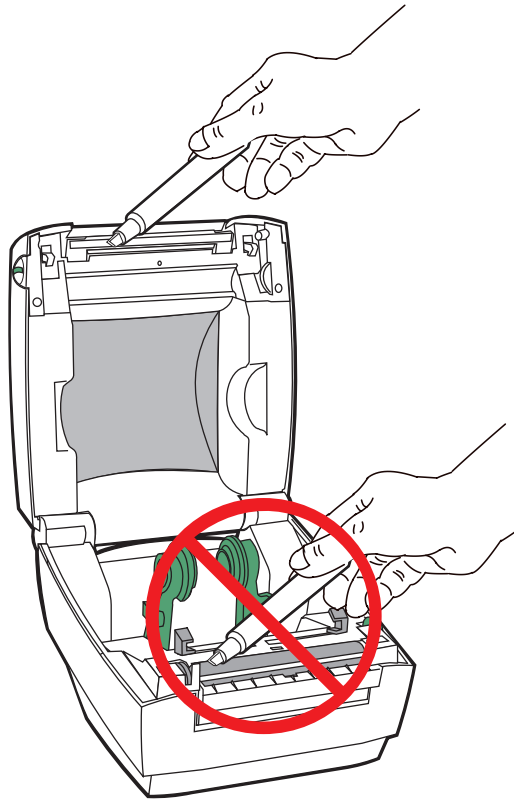
*+5 volts at 150 mA for external device (e.g. KDU or scanner)

Cleaning the Print Head When you load new media, you can also clean the print head.

***Rub Cleaning Pen
Across Dark Area of
the Print Head***

***Wait One Minute
Before Closing
Printer***

***Do Not Clean
the Platen***

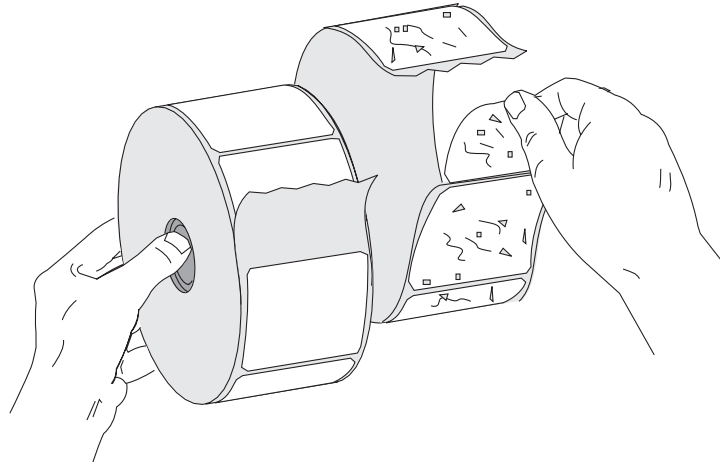


***Preparing Media,
Paper, and Labels
Before Loading***

During shipment, the outside length of media may become dirty when handled or dusty when stored. A preparation before loading media makes sure both the print head and platen stay cleaner for more time.

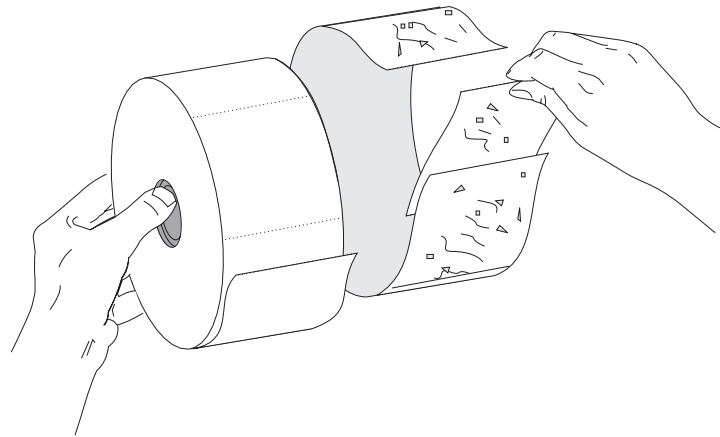
Label Rolls

***Find the tape and
pull off both labels
held by the tape***



Tag Stock Rolls

***Find the tape
and detach the
bottom tag***



You must avoid dragging adhesive or dirty media between the print head and platen. Such an occurrence damages the print head and is not covered under your warranty.
