



# i6100

LABEL PRINTER

User Manual

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Revision A

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Our products are sold with the understanding that the buyer will test them in actual use and determine for themselves the adaptability to their intended uses. Brady warrants to the buyer that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the product shown to Brady's satisfaction to have been defective at the time Brady sold it. This warranty does not extend to any persons obtaining the product from the buyer.

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## Safety and Environment

Please read and understand this manual before using the i6100 printer for the first time. This manual describes all of the main functions of the i6100 printer.

## Precautions

Before using the i6100 printer, please note the following precautions:

- Read all instructions carefully before operating the printer and prior to performing any procedure.
- Do not place the unit on an unstable surface or stand.
- Do not place anything on top of the unit.
- Keep the top clear of obstructions.
- Always use the printer in a well ventilated area. Do not block the slots and opening on the unit, which are provided for ventilation.
- Only use the power source indicated on the rating label.
- Use only the power cord that comes with the unit.
- Do not place anything on the power cord.
- This equipment is not intended for use by children.
- When the printer is operating with the label cover open, do not wear anything that can touch moving parts, such as clothing, necklaces, rings, watches, or lanyards close to the printer.



**WARNING!** Hazardous moving parts.  
Keep fingers and other body parts away from moving parts.  
Pull the printhead lever to stop all moving parts.

---

## Technical Support and Registration

### Contact Information

Visit the Brady Knowledge Base at [support.bradyid.com/s/](https://support.bradyid.com/s/).

For repair or technical assistance, locate your regional Brady Technical Support office by going to:

- **United States:** [bradyid.com/techsupport](https://bradyid.com/techsupport)
- **Canada:** [bradycanada.ca/contact-us](https://bradycanada.ca/contact-us)
- **Mexico:** [bradyid.com.mx/es-mx/contacto](https://bradyid.com.mx/es-mx/contacto)
- **Latin America:** [bradylatinamerica.com/es-mx/soporte-técnico](https://bradylatinamerica.com/es-mx/soporte-técnico)
- **Europe:** [bradyeurope.com/services](https://bradyeurope.com/services)
- **Australia:** [bradyid.com.au/technical-support](https://bradyid.com.au/technical-support)
- **Asia Pacific:** [brady.co.uk/landing-pages/global-landing-page](https://brady.co.uk/landing-pages/global-landing-page)

### Registration Information

To register your printer go to:

- [bradycorp.com/register](https://bradycorp.com/register)

### Repair and Return

If for any reason you need to return the product for repair, please contact Brady Technical Support for repair and replacement information.

## Document Conventions

When using this document, it is important that you understand the conventions used throughout the manual.

- All user actions are indicated by **Bold** text.
- References to menus, windows, buttons and screens are indicated by *Italicized* text.

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# 1 Introduction

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The i6100 label printer is designed to work in a variety of applications and supports a range of label supplies.

The i6100 printer includes the following features:

- Thermal transfer print mechanism, 300 dpi
- Maximum print speed: 10 in/sec (254 mm/sec)
- Print width: 4.2 in. (105.7mm)
- Print length: 98.4 in. (2500mm)
- Label width: 1–4.5 in. (25–114mm)
- Label roll outer diameter: 8 in. (203mm)
- Label roll inner diameter: 1.5–3 in.
- Label thickness: 0.002–0.01 in. (0.06–0.3mm)
- Ribbon width: maximum of 4.3 in. (110mm)
- Ribbon length: 1476.4 ft. (450m)
- Ribbon type: wax, wax resin, resin, ink outside, ink inside
- Movable transmissive sensor, movable reflective sensor
- 512 MB flash memory and 512 MB SDRAM.
- 3.5 Inch color graphics TFT LCD + keypad
- Options: auto cutter, rewinder, peeler
- Ports: USB, serial, and Ethernet

## Specifications

Print speed may vary depending on the data transfer speed and the combination of commands. .

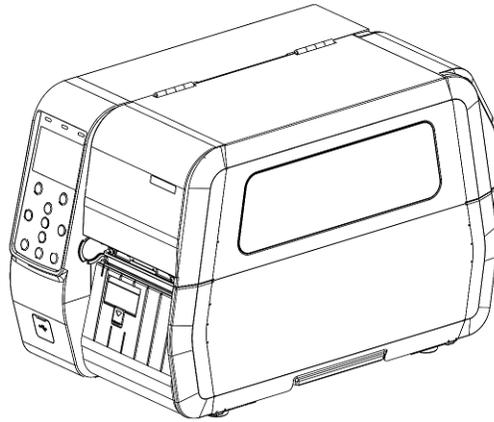
Item		Description
Printer	Printing Method	Thermal transfer Printing
	Dot Density	300dpi (11.8 dot/mm)
	Print Width	Maximum 4.16 in. (105.7mm)
	Print Speed	Maximum 10 ips (254mm/sec)
Label Supply	Width	1 in.–4.5 in. (25–114mm)
	Outer Diameter	Maximum 8 in. (203mm)
	Inner Diameter	1.5–3 in. (38.1–76.2mm)
Ribbon	Length/Width	Maximum 1476.4 ft. / 1.6–4.3 in. (450m / 40–110mm)
	Type	Wax, Wax resin, Resin, Outside, Inside
	Inner Diameter	1 in. (25.4mm)
AC/DC Enclosed	Input Voltage	100–240VAC
	Input Frequency	50/60 Hz
	Output Voltage/ Current	DC 24V / 7.5A
Usage Conditions	Temperature	5–40 (Operating) -20–60 (Storage)
	Relative Humidity (except for labels)	10–80% (Operating) 10–90% (Storage)

## 2 Setup

### What's in the box?

The following items are included in the printer package.

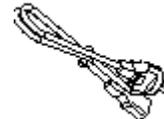
- **i6100 Label Printer (standard model) or**
  - **i6100 Label Printer with Rewinder**
- (standard model shown)



**i6100**  
Quick Start Guide



**Quick Start Guide**

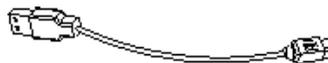


**power cord**

### Optional Components



**serial (RS-232C) cable**



**USB cable**

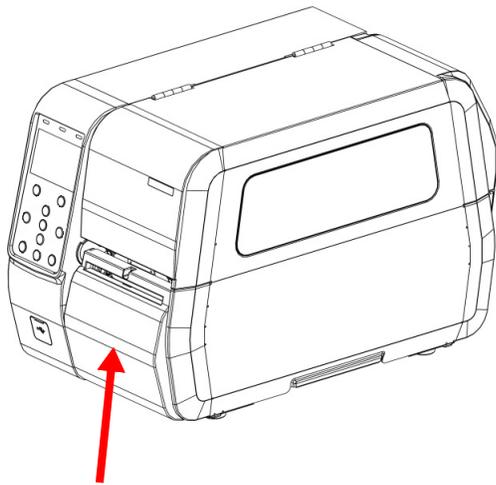
## Models and Accessories

Two models of the printer are available:

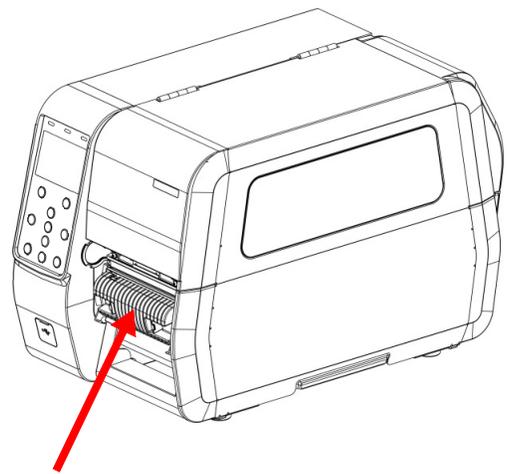
- i6100 Label Printer (the standard model)
- i6100 Label Printer with Rewinder

Two accessories are available for purchase separately:

- Auto-Cutter
- Peeler

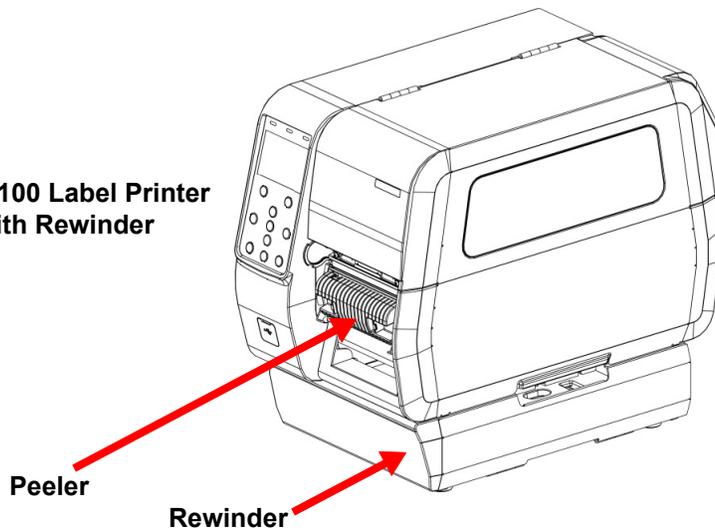


**Auto Cutter**



**Peeler**

**i6100 Label Printer  
with Rewinder**

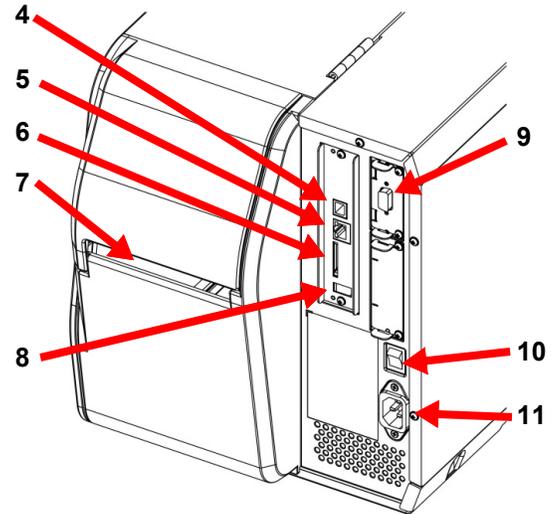
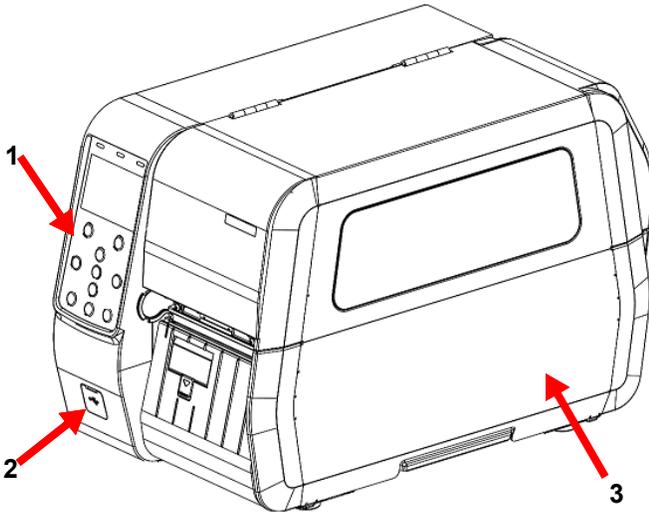


**Peeler**

**Rewinder**

# Printer Components

## External Components

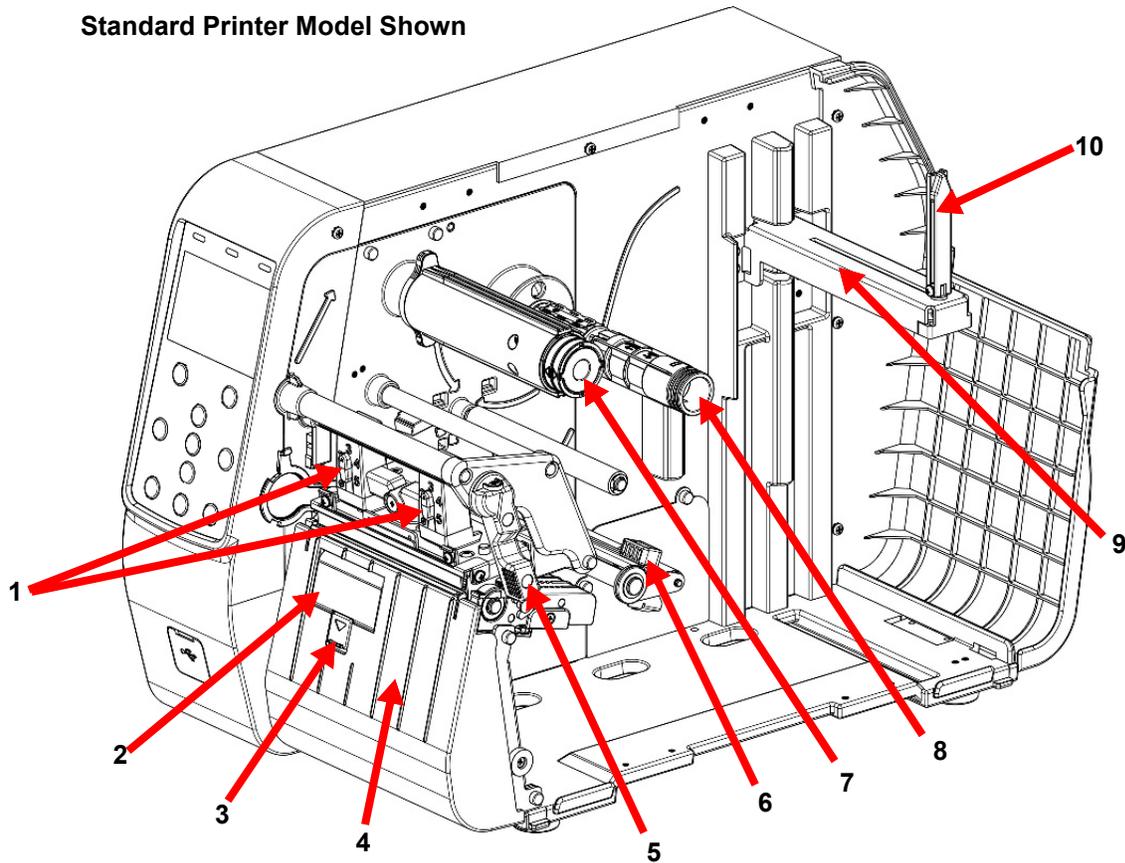


- 1 Control panel**
- 2 USB host port**
- 3 Label cover**

- 4 USB port**
- 5 Ethernet port**
- 6 SD card slot**
- 7 Rear access slot (labels)**
- 8 USB host port**
- 9 Serial (RS-232C) port**
- 10 Power switch**
- 11 Power connector**

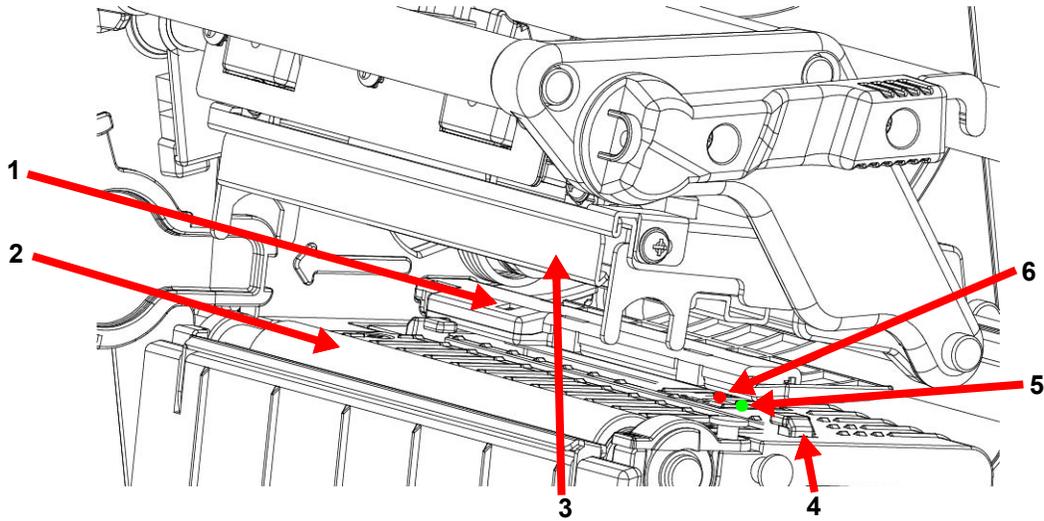
## Internal Components

Standard Printer Model Shown



- |          |                                      |           |                               |
|----------|--------------------------------------|-----------|-------------------------------|
| <b>1</b> | <b>Printhead pressure adjustment</b> | <b>6</b>  | <b>Rear label guide</b>       |
| <b>2</b> | <b>Label damper</b>                  | <b>7</b>  | <b>Ribbon take-up spindle</b> |
| <b>3</b> | <b>Label damper button</b>           | <b>8</b>  | <b>Ribbon supply spindle</b>  |
| <b>4</b> | <b>Housing, standard</b>             | <b>9</b>  | <b>Label holder</b>           |
| <b>5</b> | <b>Printhead lever</b>               | <b>10</b> | <b>Label keeper</b>           |

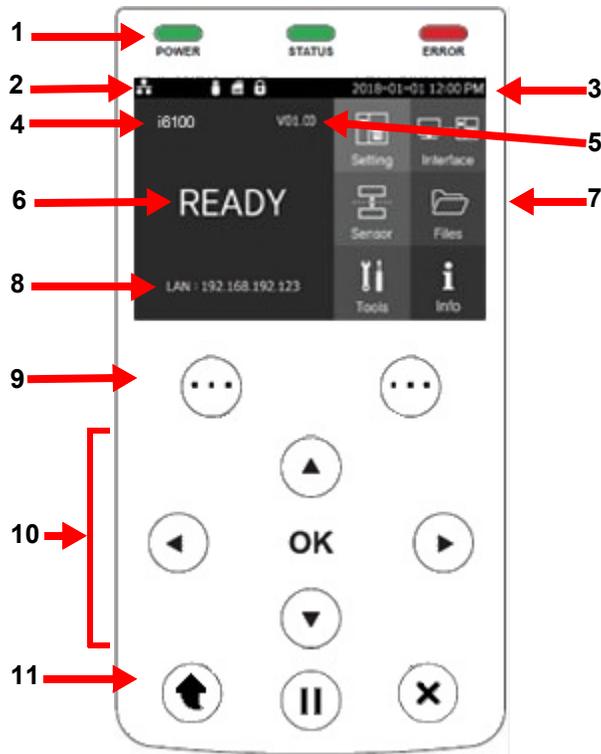
**Label Exit Area**



- 1 Ribbon sensor**
- 2 Platen roller**
- 3 Printhead**

- 4 Front label guide**
- 5 Black mark sensor (green LED)**
- 6 Gap and notch sensor (red LED)**

## Control Panel



- |   |                        |    |                                 |
|---|------------------------|----|---------------------------------|
| 1 | Printer status LEDs    | 7  | Menu icons                      |
| 2 | Interface status icons | 8  | Ethernet IP                     |
| 3 | Date and time          | 9  | Function buttons                |
| 4 | Model name             | 10 | Direction and selection buttons |
| 5 | Firmware version       | 11 | Printer operation buttons       |
| 6 | Printer status         |    |                                 |

## Control Panel Detailed Descriptions

### Status LEDs

Item	State	Description
 <b>POWER</b>	On	Printer power is on
	Off	Printer power is off
 <b>STATUS</b>	On	Waiting for data reception
	Blinking	Receiving data
 <b>ERROR</b>	Blinking	Print error
	Off	In normal operation

### *Interface Status Icons*

Item	State	Description
	On	Ethernet is connected
	Off	Ethernet is not connected
	On	USB device is connected
	Off	USB device is not connected
	On	SD card is installed
	Off	SD card is not installed
	On	Password feature is enabled
	Off	Password feature is disabled

### *Date and Time*

Displays the current date and time. The date format is YYYY-MM-DD.

### *Model*

Displays the model of the printer, i6100.

### *Firmware Version*

Displays the version number of the firmware. This is useful when upgrading firmware or working with technical support.

### Printer Status

Status	Description
READY	Ready to print
STANDBY	<p>Standing by for user input. If pressed when no print job is in progress, the following buttons put the printer into Print Standby Mode.</p> <p> Switches to Print Standby Mode without feeding any labels.</p> <p> Feeds one sheet of labels to align the label position, then switches to Print Standby Mode.</p>
PRINTING	Printing in progress.
PAUSE	<p>Printing paused.</p> <p> Pauses printing If pressed while a print job is in progress. See <a href="#">"Pause and Cancel" on page 66</a>.</p>
CANCEL	Printing canceled.
F/W Downloading	Downloading firmware.
printhead OPEN	Printhead is open.
printhead OVER TEMP	Printhead has reached the maximum temperature.
printhead COLD TEMP	Printhead has reached the minimum temperature.
AUTO CUTTER JAM	Labels are stuck in the auto cutter blade.
LABELS OUT	Labels are not installed correctly.
RIBBON OUT	Ribbon is not installed correctly.
MEDIA JAM	Labels are jammed and not printing normally.
SENSING FAIL	Labels are not recognized normally.

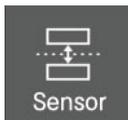
**Menu Icons**



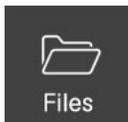
Printer settings. See [“Setting Menu” on page 55.](#)



Serial and Ethernet connection settings. See [“Interface Menu” on page 58.](#)



Sensor settings. See [“Sensor Menu” on page 59.](#)



File settings. See [“Files Menu” on page 60.](#)



Additional function settings. See [“Tools Menu” on page 64.](#)



Displays printer information. See [“Info Menu” on page 65.](#)

**Ethernet IP**

Displays the IP address of the printer on your Ethernet network.

**Function Buttons**



Use for selecting, canceling, storing, and deleting.

**Direction and Selection Buttons**



Use to navigate and select menus.

### *Printer Operation Buttons*

Button	Description
	Softly press and release the button to feed one label
	Press the button for 2 seconds during printing to pause printing
	Press the button for 2 seconds during printing to cancel printing

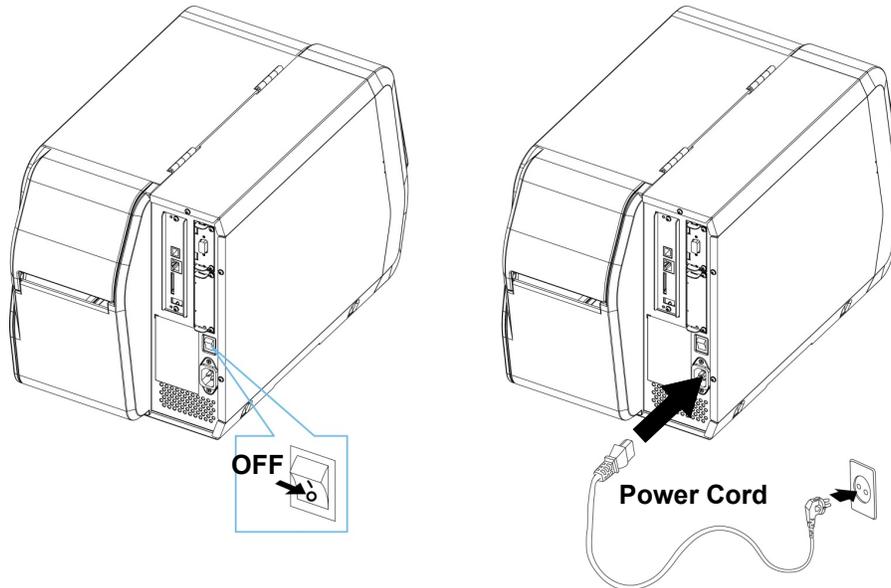
## Printer Placement

Use the printer in a location that meets the following conditions.

- Allow sufficient space around the printer for proper ventilation.
- Do not place objects close to the back or bottom of the printer, which may hinder the air circulation.
- Install the printer on a flat and level surface.
- Avoid humid environment.

## Connecting Power

Connect power to the printer as shown below.



1. Turn off the printer power switch.
2. Connect the power cord to the printer.
3. Connect the power cord to a power source/outlet.



**CAUTION!** Electronics, such as printers, are prone to damage by static electricity. Therefore, to protect the printer from static electricity, be sure to turn off the printer before connecting or disconnecting the cable to the rear of the printer.

Do not connect multiple products to one single power outlet. Do not connect the product to a loose power outlet.



**WARNING!**

- For the safety of people and equipment, please use the appropriate power cord for your country or region.
- Be sure to turn off the printer before connecting the power cord to the printer. Failure to do so can cause serious electrical damage and bodily injury.
- Do not operate the printer and power supply in a humid environment. This can cause serious electrical damage and bodily injury.
- Do not connect an input voltage beyond the specifications of the power supply. This may result in product damage and fire.
- Use only power outlets that meet the standard. Connect the power cord only to a grounded power outlet. Noncompliance may cause electric shock or fire.

## Installing the Printer Driver

If connecting the printer using an Ethernet connection, it is best to configure the connection before installing the driver (see [Chapter 3: “Ethernet Connection” on page 47](#)).

### To install the printer driver:

1. Downloaded the printer driver from [BradyID.com](#).
2. Turn on the printer, but **do not physically connect it to the computer until prompted**.
3. Navigate to where you saved the printer driver folder and double-click on it.
4. Double-click on the printer driver executable file and follow the on-screen instructions.

## Communication Cables

Shielded cables must be used to prevent radiation and reception of electrical noise. Use the shortest possible communication cable to minimize the detection of electrical noise in the cable.

- Serial (RS-232C) cable, 70 in. (1.8 m) or less recommended
- USB B cable, 70 in. (1.8 m) or less recommended
- LAN (Ethernet) cable, 9.8 ft. (3 m) or less, CAT-5 or higher UTP cable

### Connecting Standard Communication Cables

This printer can use the following types of communication.

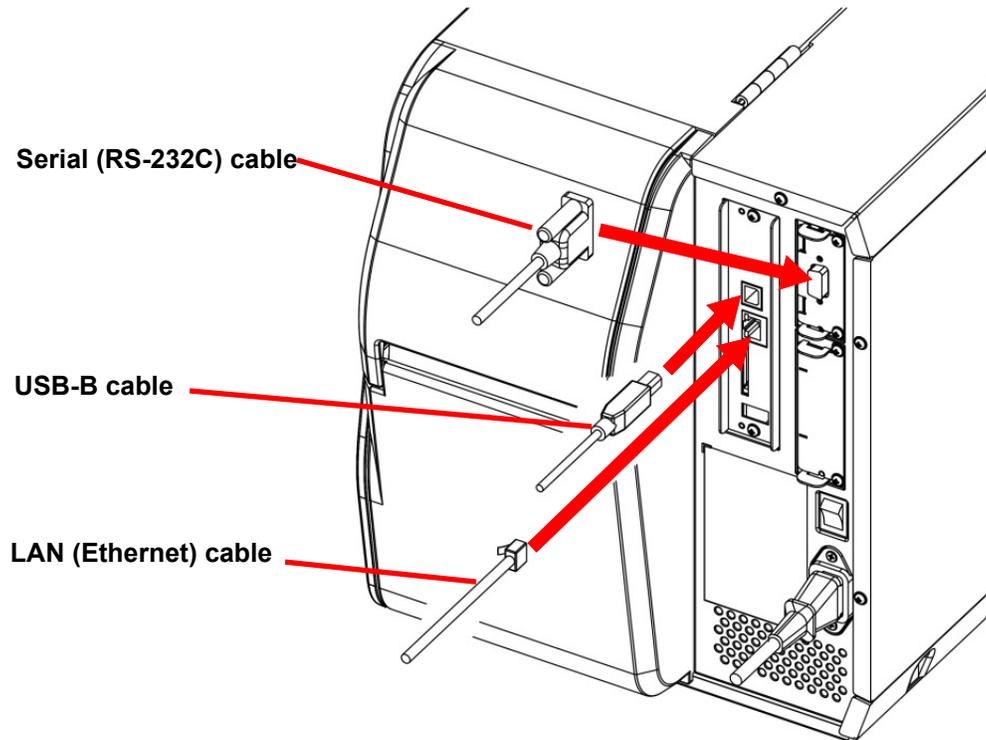
- LAN (Ethernet) Cable. For information on configuring the Ethernet connection see [Chapter 3: “Ethernet Connection” on page 47](#).
- USB B Cable
- Serial (RS-232C) Cable



**CAUTION!** Be aware that the product's electronic components may be damaged due to discharging of electrostatic energy that accumulates on the surface of the body or other objects.

**To connect communication cables:**

1. Turn off the power switch.
2. Connect the communication cable to the appropriate port on the printer.
  - Connect the LAN (Ethernet) cable to the Ethernet port.
  - Connect the USB B cable to the USB port.
  - Connect the serial (RS-232C) cable to the serial port and tighten both screws.



## Installing Labels



**CAUTION!** Be aware that the product's electronic components may be damaged due to discharging of electrostatic energy that accumulates on the surface of the body or other objects.

### Installing Labels in the Standard Model

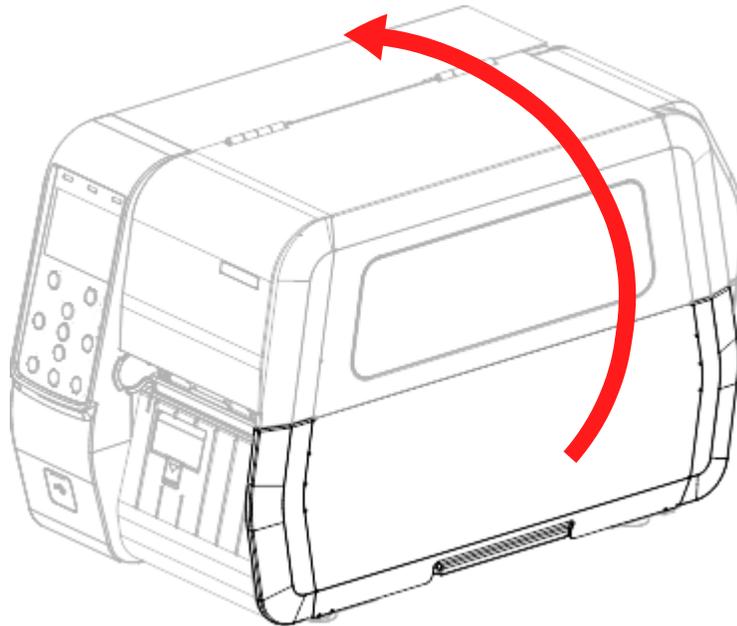


**CAUTION!**

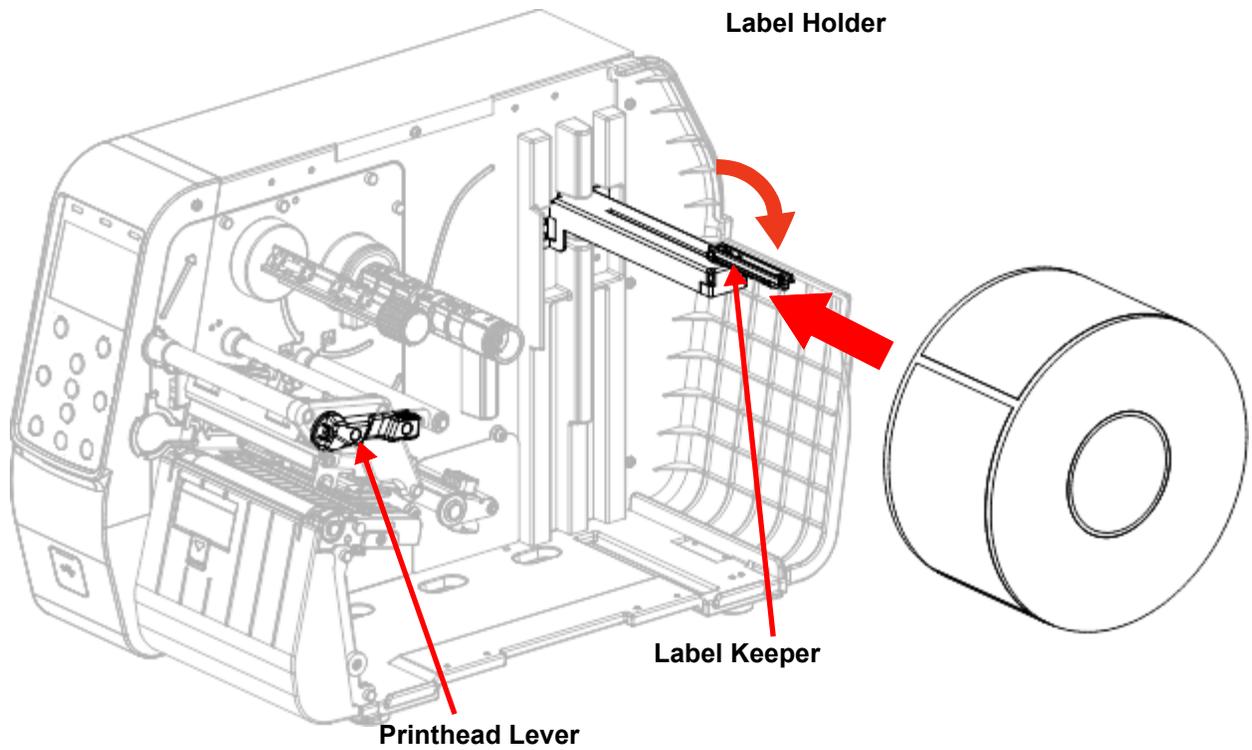
- When opening or closing the cover, be careful not to pinch your fingers.
- Do not open the printhead lever while the printer is printing. The printer may be damaged.
- Change the media when the printer is not receiving data, or data may be lost.
- While the printer is operating, the printhead gets very hot, so turn off the power and let it cool down completely. The hot printhead can cause serious burns.

**To install labels on a standard model:**

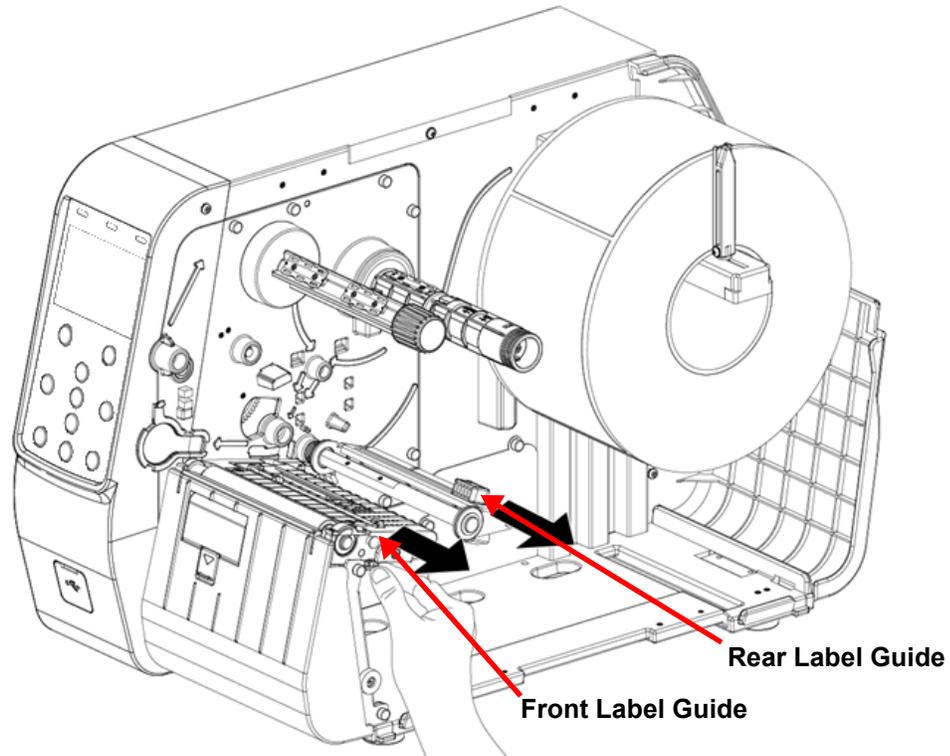
1. Open the label cover.



2. Open the printhead lever. Flip down the label keeper and place the labels in the label holder with print side up.

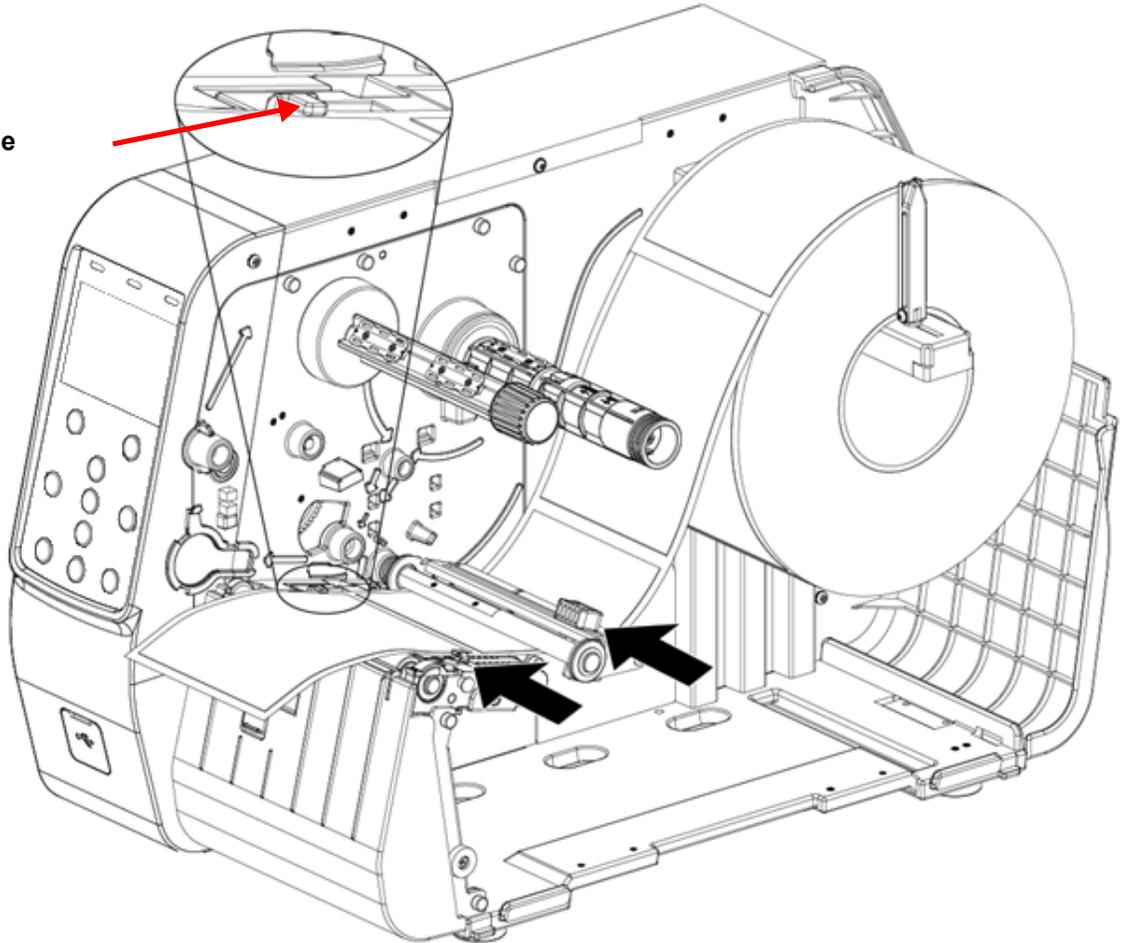


3. Flip up the label keeper, and then push the holder so that it is close to the label roll. Push the front and rear label guides to the right.



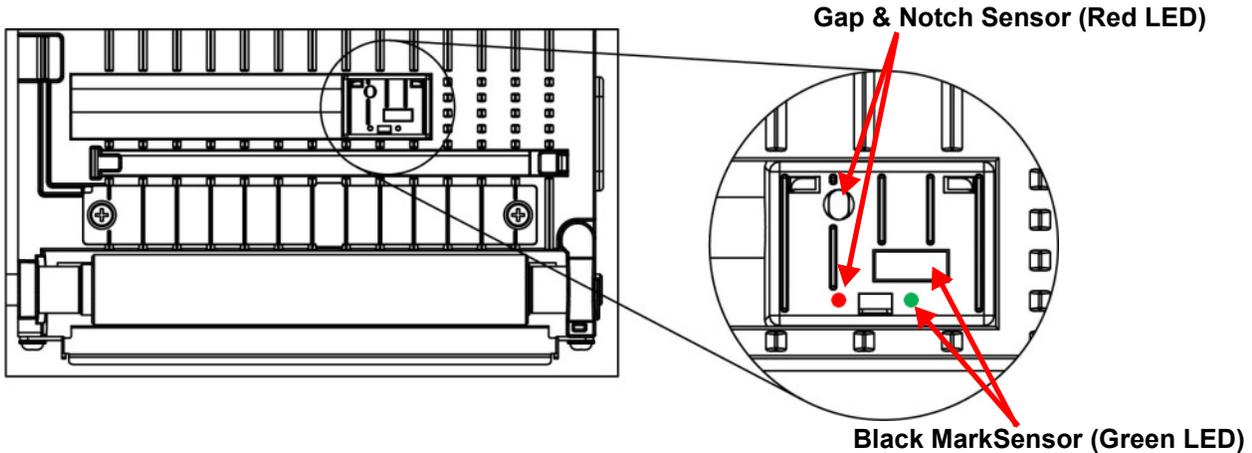
4. After inserting the labels into the label guides, adjust the front and rear label guides to the label width.

Label Guide



5. Make sure the sensors are positioned so that the gap or black mark on the labels can be detected when they pass by the sensors.

Line up the gap or black mark on the label supply with the associated LED. (The LEDs light up when the printhead lever is open.) Use the sensor lever (located below the sensors) to move the sensors as needed.



6. Close the printhead lever and label cover.

## Installing Labels with the Auto Cutter Accessory

Use the autocutter to cut printed labels.



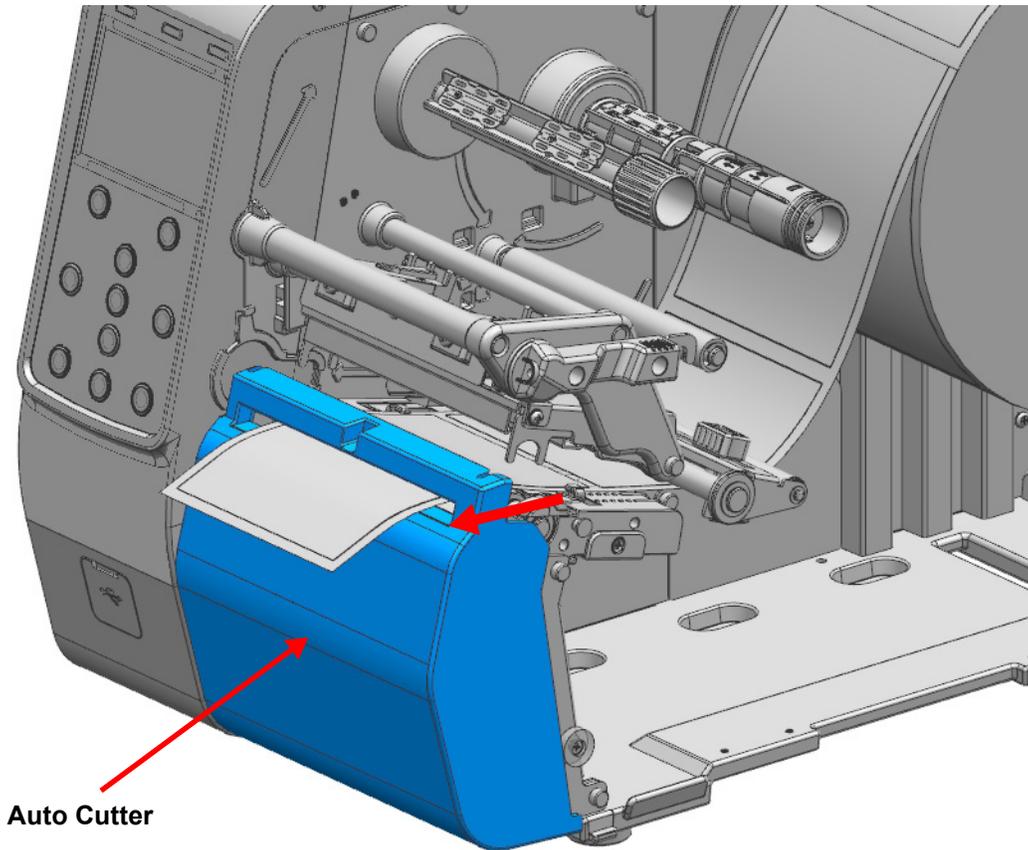
### CAUTION!

- When opening or closing the cover, be careful not to pinch your fingers.
- Do not open the printhead lever while the printer is printing. The printer may be damaged.
- Change the labels when the printer is not receiving data, or data may be lost.
- Never insert objects or fingers while performing the cutting function. This can cause serious bodily injury.
- Be careful not to touch the cutter blade with your hand. There may be a risk of personal injury.
- While the printer is operating, the printhead gets very hot, so turn off the power and let it cool down completely. The hot printhead can cause serious burns.

### To install labels with the auto cutter:

1. Refer to [“Installing Labels in the Standard Model” on page 16](#) to install labels, then adjust the label guides and sensor position.

2. Install the labels through the auto cutter as shown in the figure.



3. Close the printhead lever and label cover.

## Installing Labels with the Peeler Accessory

Use a peeler to automatically separate the printed labels from the liner. The peeler is attached at the factory.

When the peeler is switched on, the next label will not be printed unless the previously printed label is removed from the peeler. When the peeler is switched off, the peeler does not work.



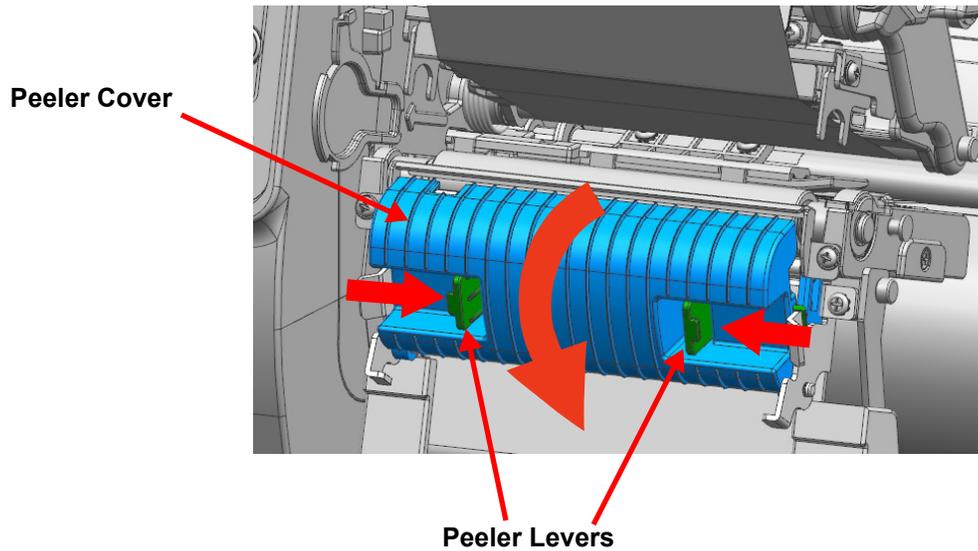
### CAUTION!

- When opening or closing the cover, be careful not to pinch your fingers.
- Do not open the printhead lever while the printer is printing. The printer may be damaged.
- Change the labels when the printer is not receiving data, or data may be lost.
- While the printer is operating, the printhead gets very hot, so turn off the power and let it cool down completely. The hot printhead can cause serious burns.

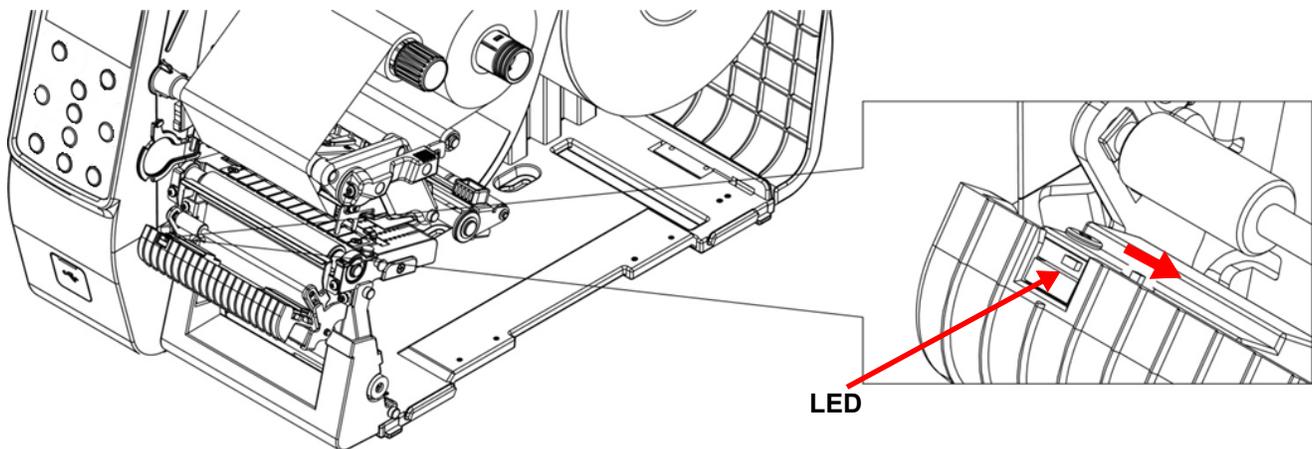
**IMPORTANT!** Not all label sizes and types work with the peeler.

**To install labels with the peeler accessory:**

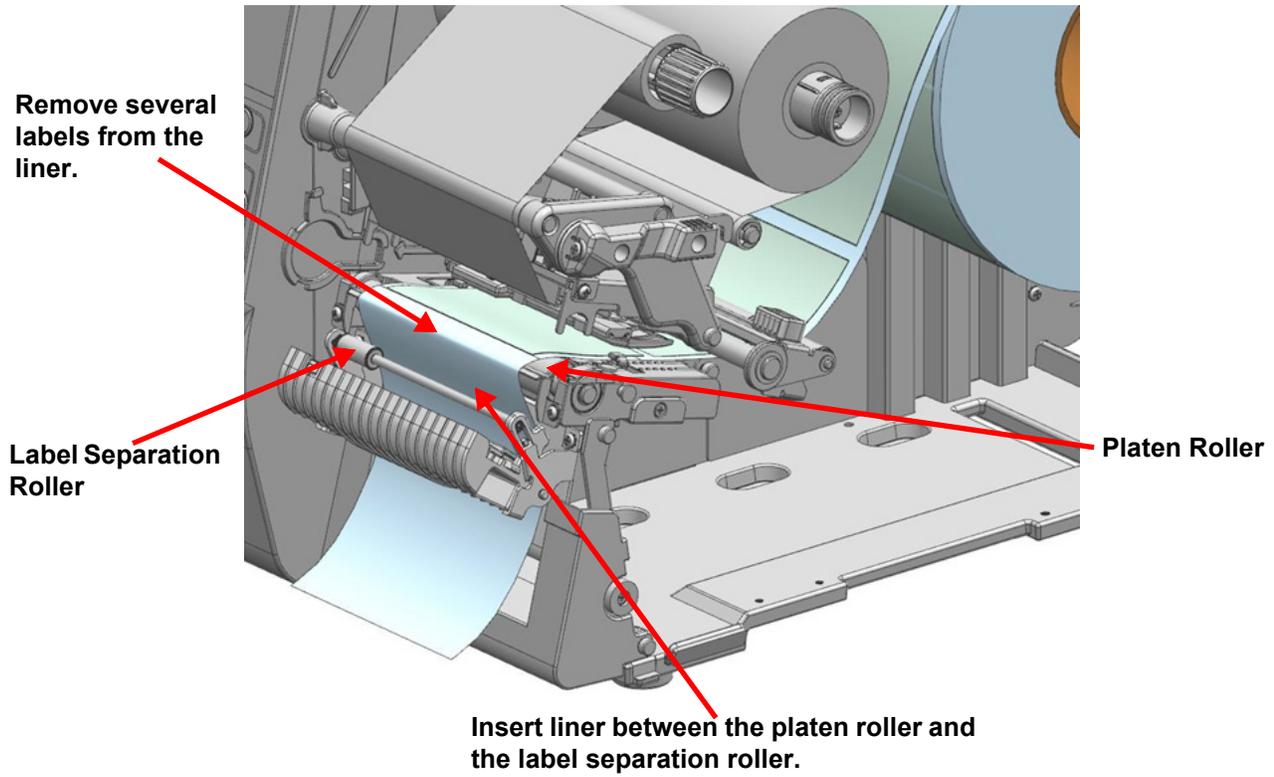
1. Refer to [“Installing Labels in the Standard Model”](#) on page 16 to install labels, then adjust the label guides and sensor position.
2. Press the left and right peeler levers to open the peeler cover.



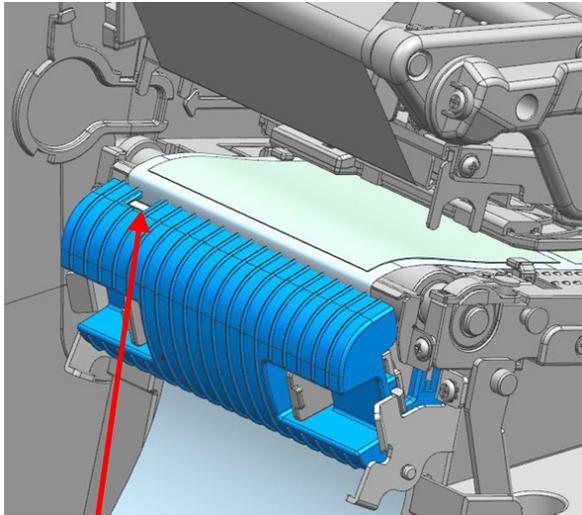
3. Move the peeler switch right to the ON position. Make sure that the LED has turned on.



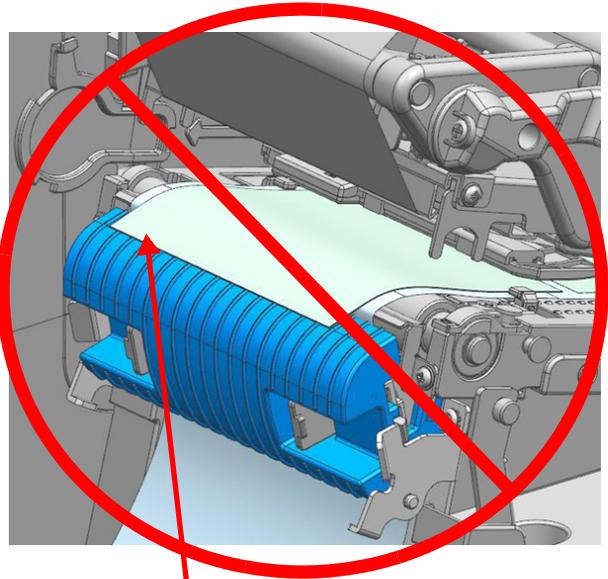
4. Remove several labels from the liner and insert the liner as shown.



5. Close the peeler cover until it clicks.



**Peeler Sensor**



**Make sure that the labels do not cover the peeler sensor.**

6. Close the printhead lever, the rewinder cover, and the label cover.

### Installing Labels in the Rewinder Model

Use the peeler and rewinder to automatically separate the printed media from the liner and rewind the printed media. When shipped from the factory, the peeler is attached.

When the peeler is switched on, the next label will not be printed unless the previously printed label is removed from the peeler. When the peeler is switched off, the peeler does not work.



**CAUTION!**

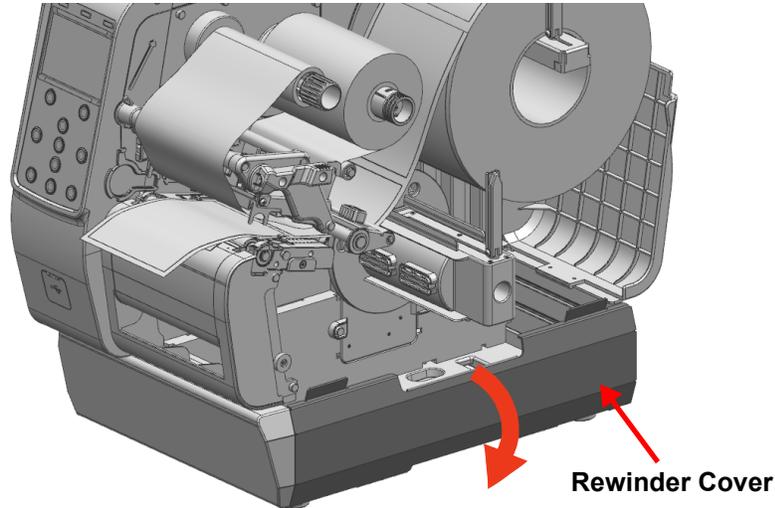
- When opening or closing the cover, be careful not to pinch your fingers.
- Do not open the printhead lever while the printer is printing. The printer may be damaged.
- Change the labels when the printer is not receiving data, or data may be lost.
- While the printer is operating, the printhead gets very hot, so turn off the power and let it cool down completely. The hot printhead can cause serious burns.

**IMPORTANT!** Not all label sizes and types work with the peeler.

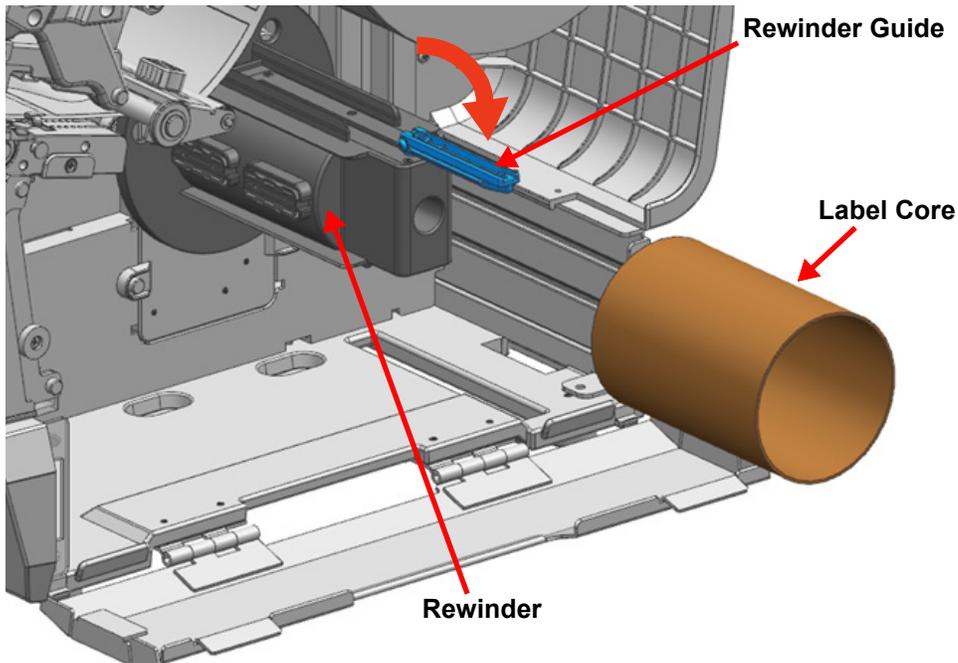
***Installing Labels in the Rewinder Model: Peeler Off, Rewinding Labels Onto Core or Guide***

To install labels in the rewriter model so that the labels rewind:

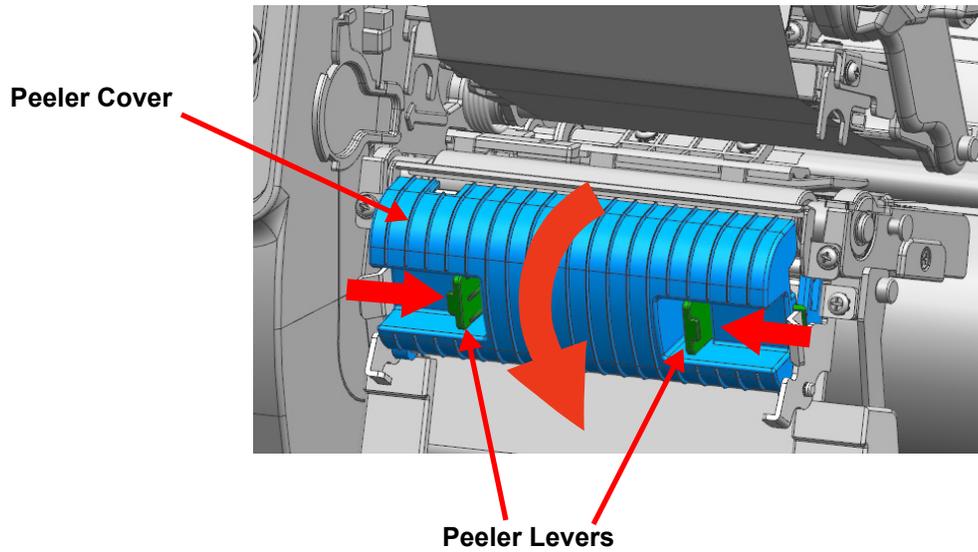
1. Refer to “Installing Labels in the Standard Model” on page 16 to install labels, then adjust the label guides and sensor position.
2. Open the rewriter cover.



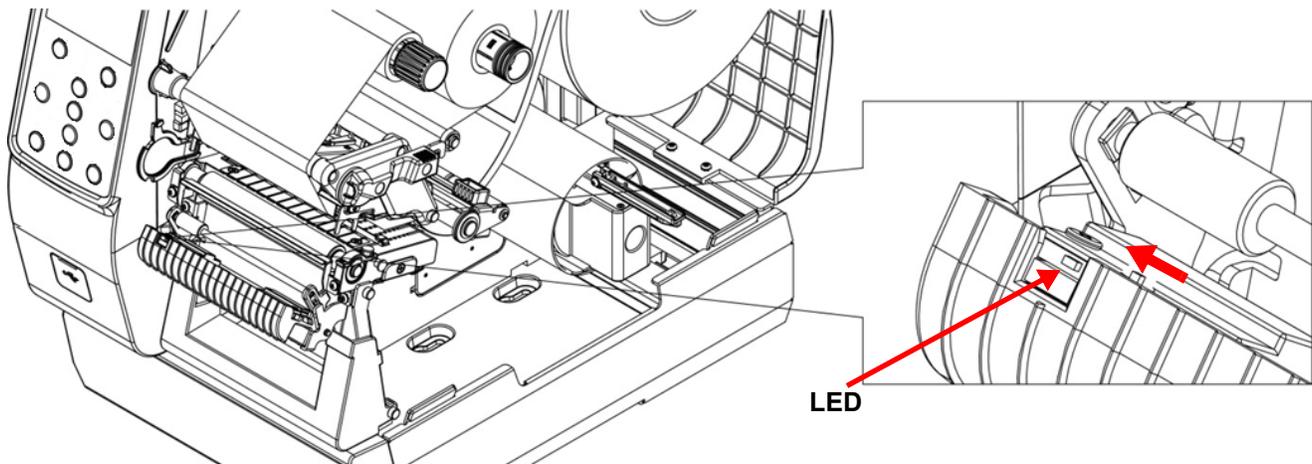
3. Flip down the rewriter guide, and, if using a core, install a 3-inch label core onto the rewriter holder.



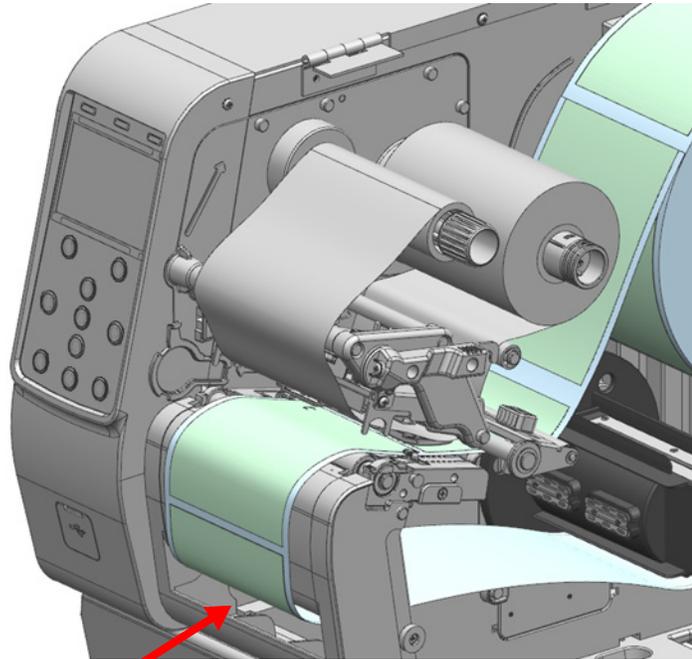
4. Press the left and right peeler levers to open the peeler cover.



5. Move the peeler switch left to the OFF position. Make sure that the LED is off.

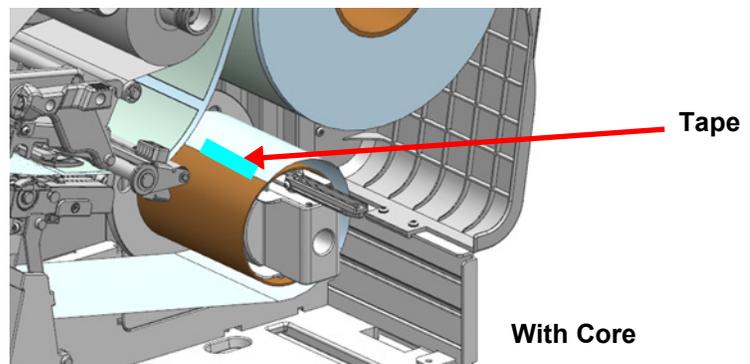
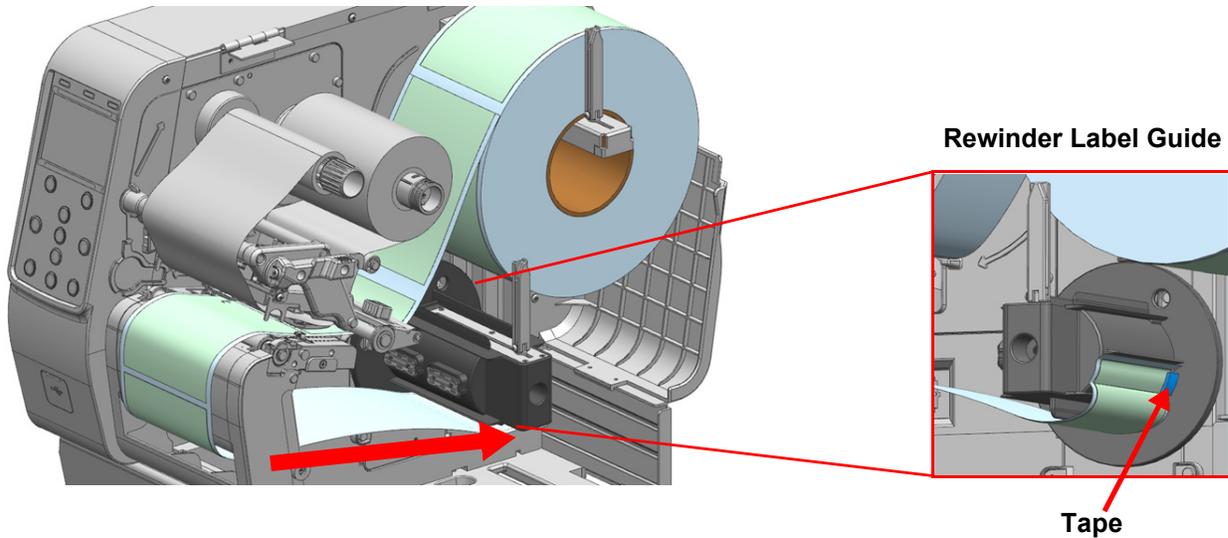


6. Close the peeler cover until it clicks. Route labels through the front of the printer as shown.

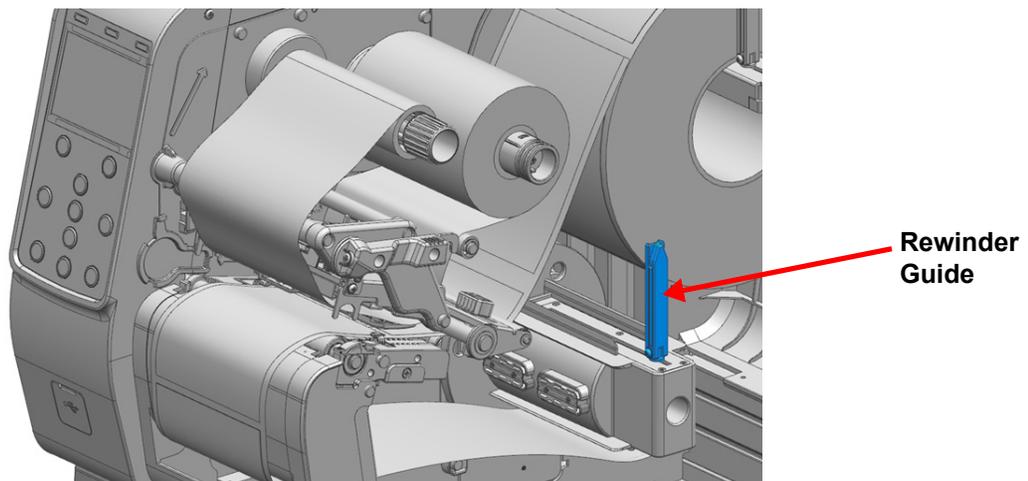


**Insert labels.**

- After installing the labels as shown, secure the labels on the rewriter label guide or on the label core.



- Flip up the rewriter guide and adjust it to the label width.

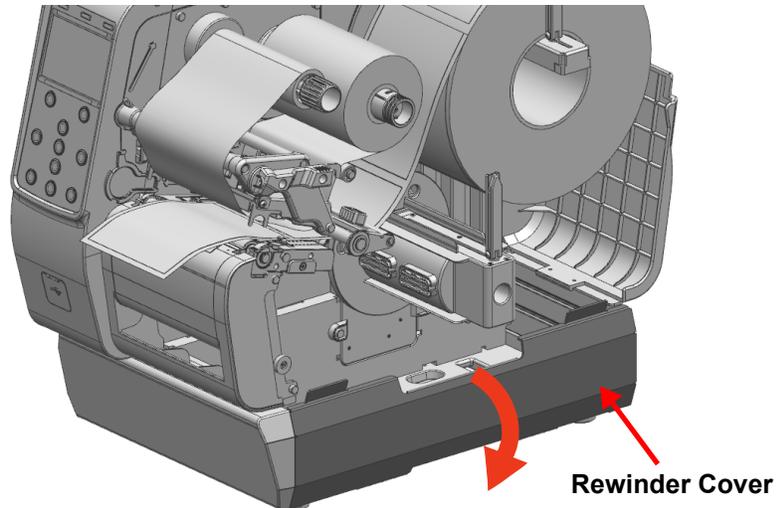


- Close the printhead lever, the rewriter cover, and the label cover.

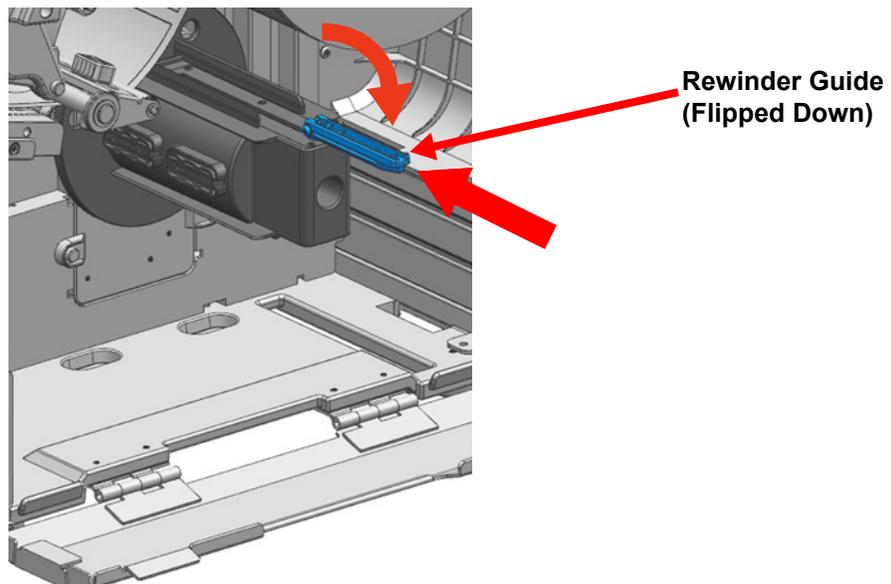
### ***Installing Labels in the Rewinder Model: Peeler On, No Core, Rewinding Liner Only***

To install labels in the rewinder model without the label core and with the peeler on:

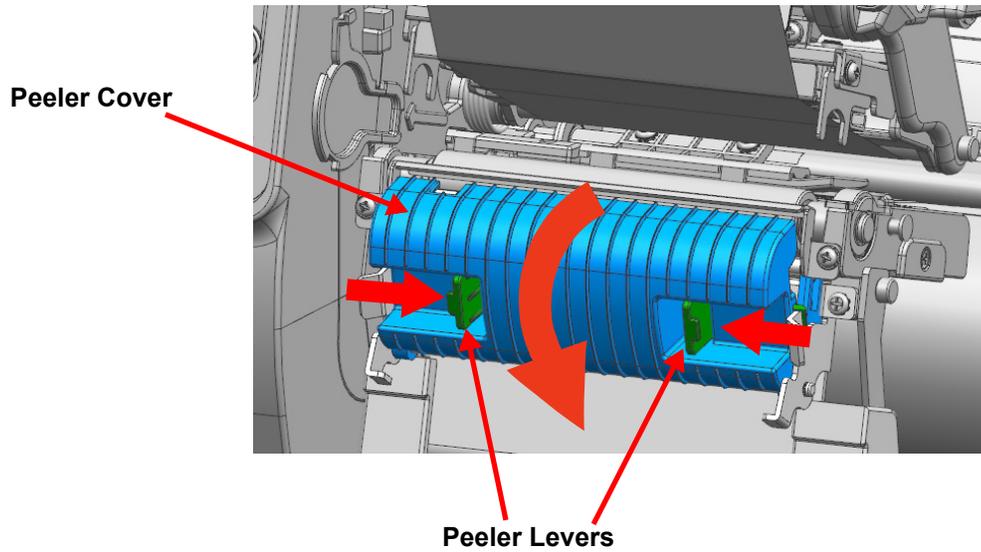
1. Refer to “Installing Labels in the Standard Model” on page 16 to install labels, then adjust the label guides and sensor position.
2. Open the rewinder cover.



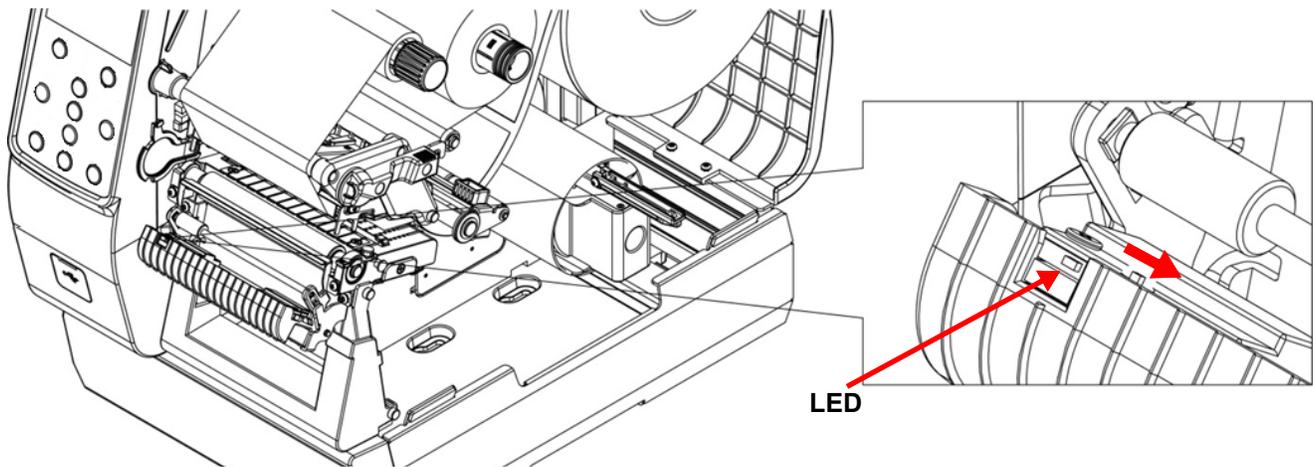
3. Flip down the rewinder guide, and then push it inside.



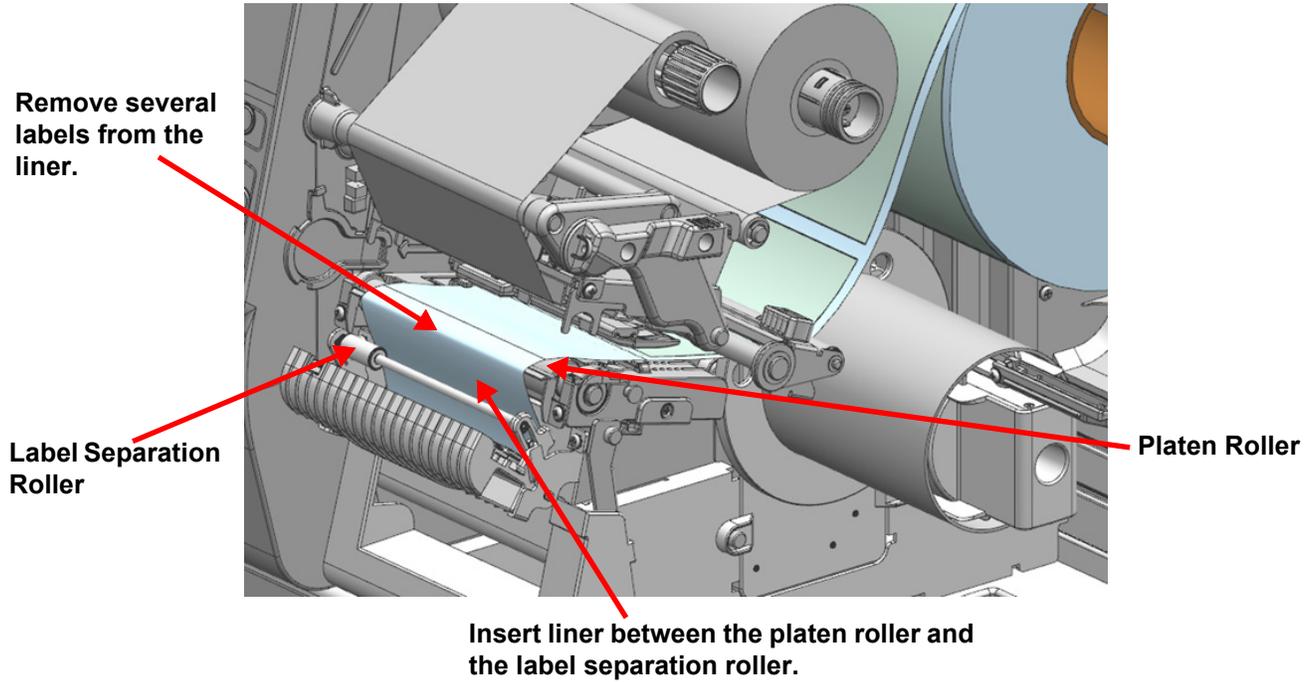
4. Press the left and right peeler levers to open the peeler cover.



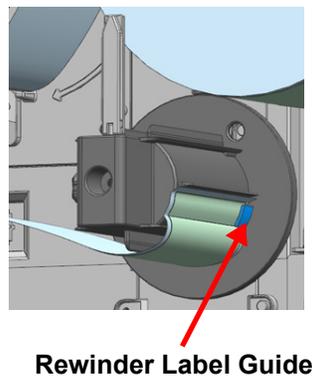
5. Move the peeler switch right to the ON position. Make sure that the LED has turned on.



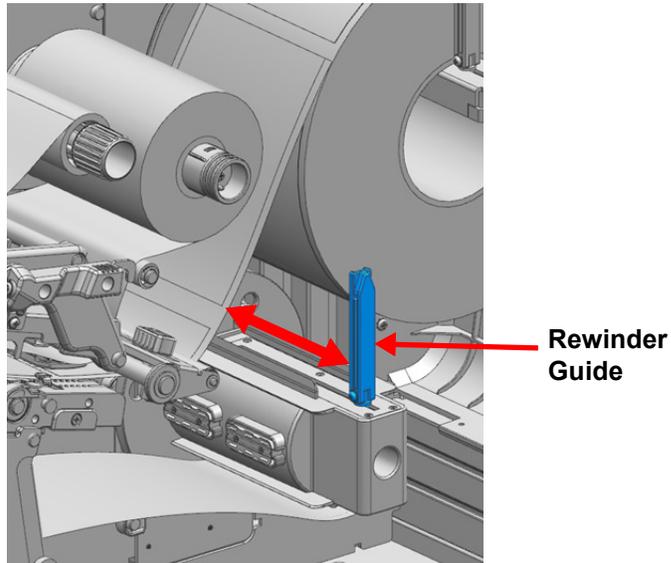
6. Remove several labels from the liner and insert the liner as shown.



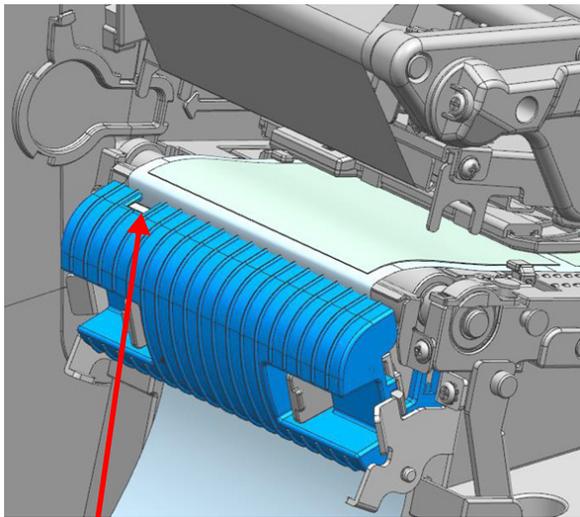
7. After installing the labels as shown, secure the labels on the rewinder label guide.



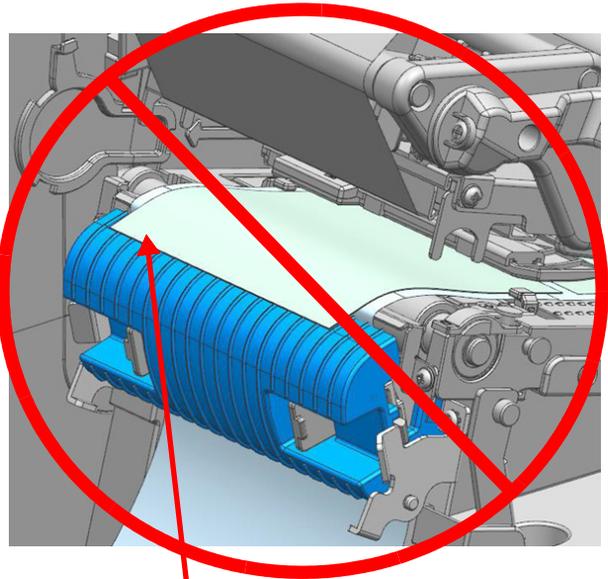
8. Adjust the rewinder guide to the label width.



9. Close the peeler cover until it clicks.



**Peeler Sensor**

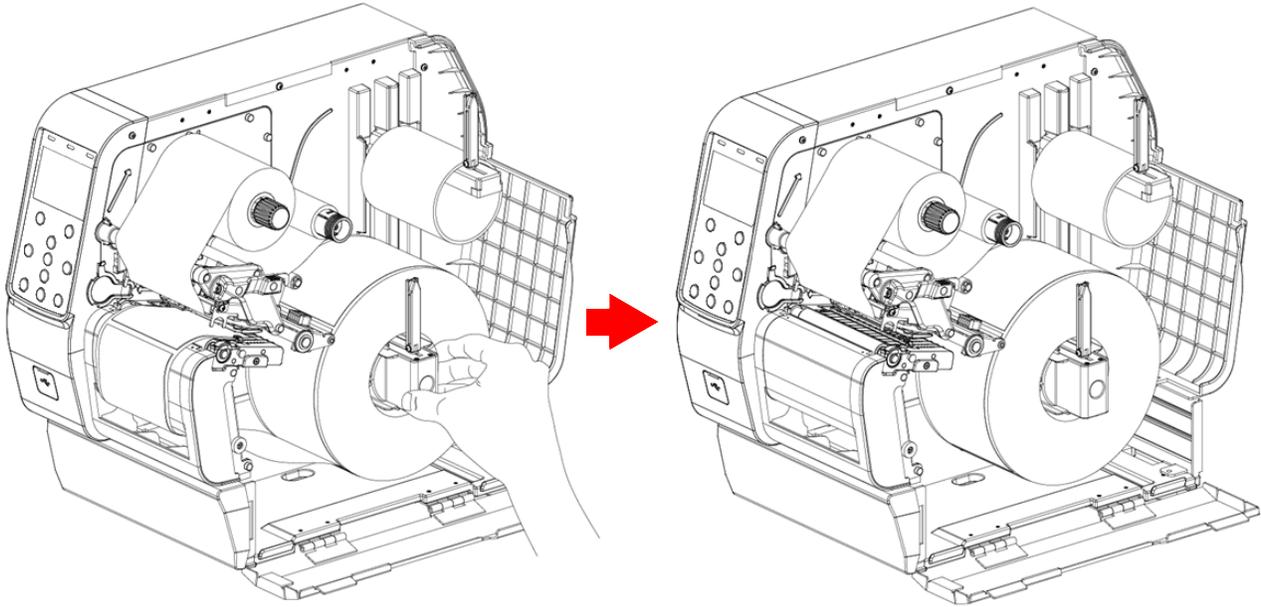


**Make sure that the labels do not cover the peeler sensor.**

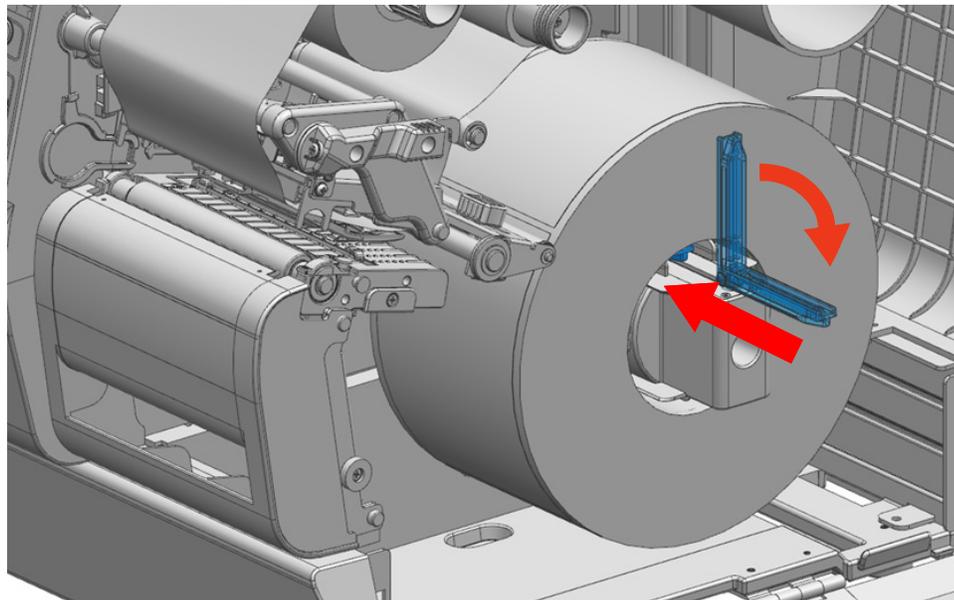
10. Close the printhead lever, the rewinder cover, and the label cover.

**To remove labels or liner from the rewinder model without the label core:**

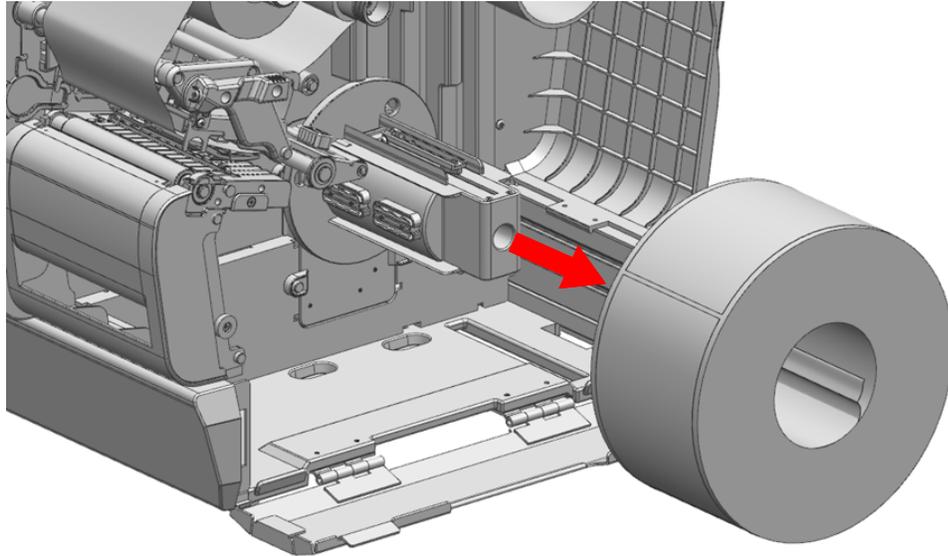
1. Open the peeler cover, the label cover, the rewinder cover and the printhead lever.
2. Rotate the rewinder label holder counter-clockwise to collect the labels or liner.



3. Flip down the rewinder guide, and then push it inside.



4. Remove the labels or liner being careful to avoid damaging surrounding parts.



## Installing External Label Supplies

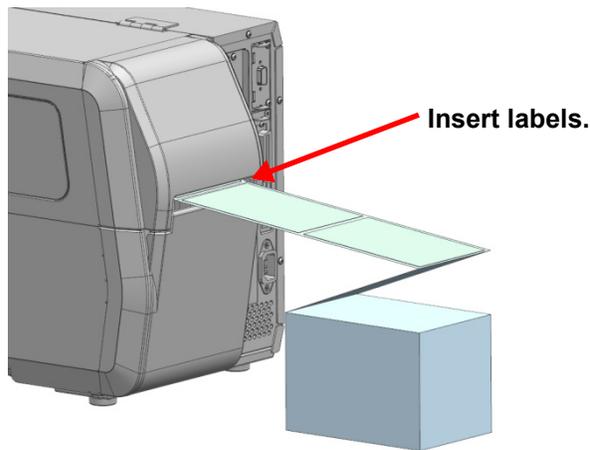


**CAUTION!**

- When opening or closing the cover, be careful not to pinch your fingers.
- Do not open the printhead lever while the printer is printing. The printer may be damaged.
- Change the labels when the printer is not receiving data, or data may be lost.
- While the printer is operating, the printhead gets very hot, so turn off the power and let it cool down completely. The hot printhead can cause serious burns.

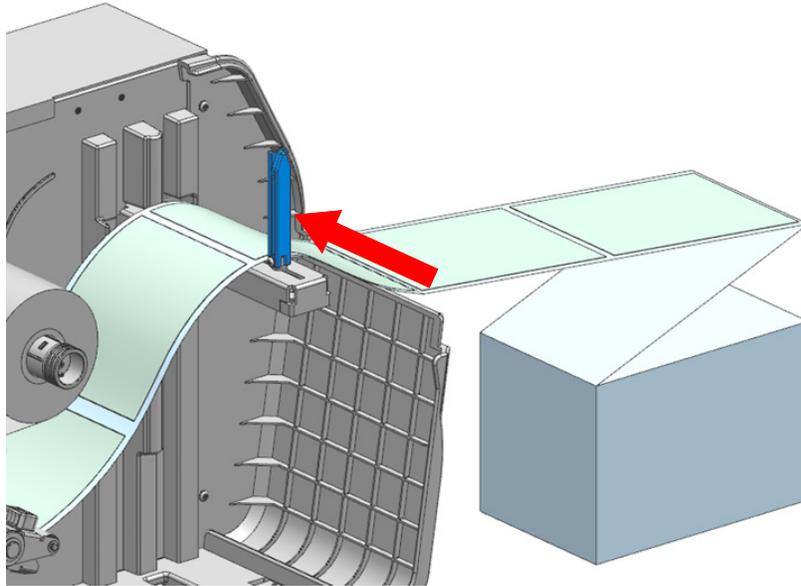
**To install external label supplies:**

1. Insert labels through the access slot on the back of the printer.



2. Open the label cover.

- Adjust the label keeper to the label width.



- Finish installing the labels according to the instructions for your model and accessories.
  - [“Installing Labels in the Standard Model” on page 16](#)
  - [“Installing Labels with the Auto Cutter Accessory” on page 20](#)
  - [“Installing Labels with the Peeler Accessory” on page 21](#)
  - [“Installing Labels in the Rewinder Model” on page 24](#)
- Close the printhead lever and label cover.

## Using the Label Damper (Standard Model Only)

Use the media damper to avoid the issue shown in the following images.



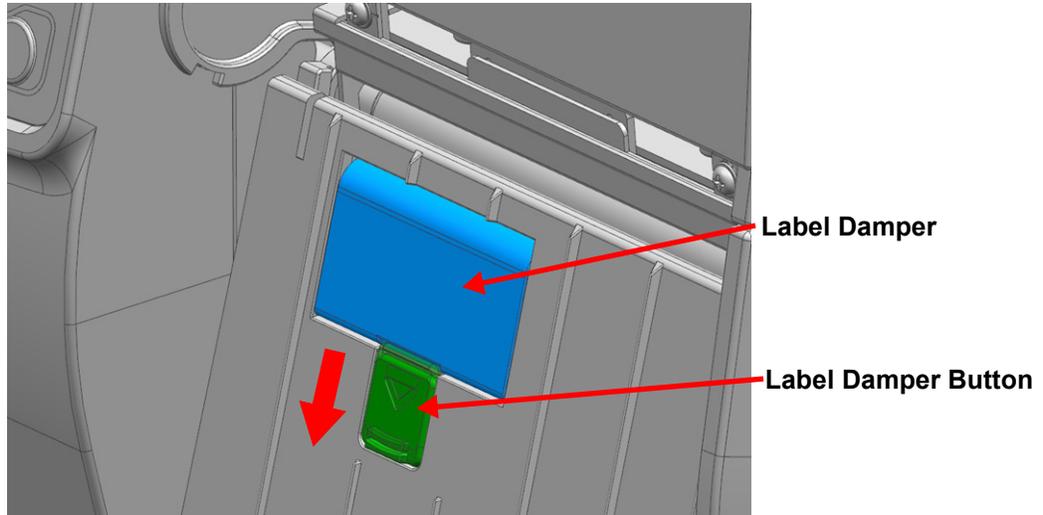
**label stuck to ribbon guide**



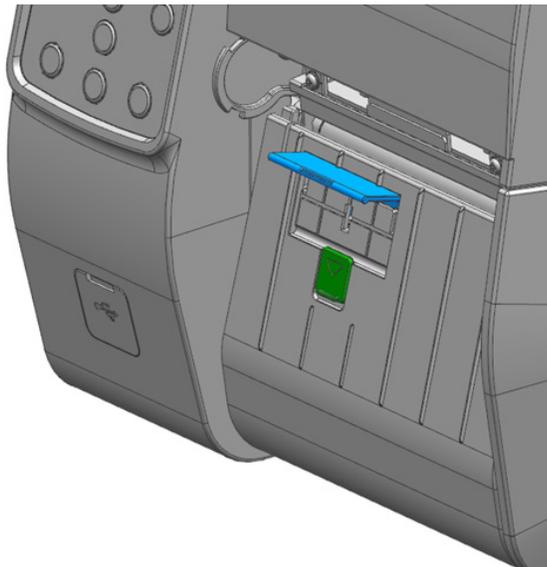
**label folded when printing**

**To use the label damper:**

1. Push the label damper button down to raise the media damper.



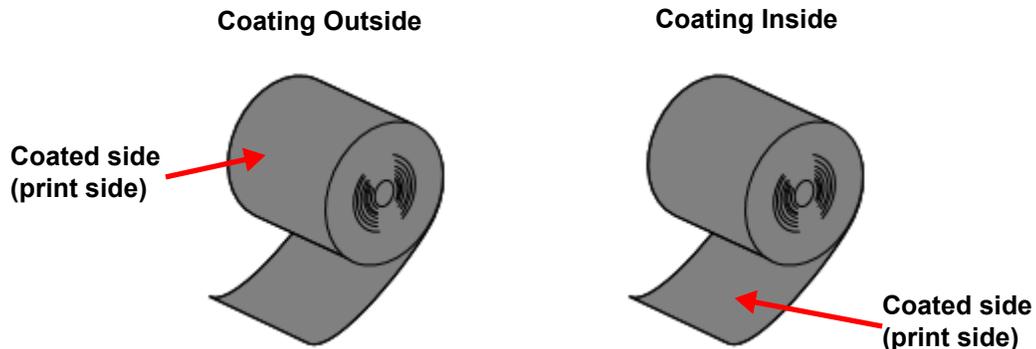
2. Use the printer with the media damper up as in the picture.



## Installing Ribbon

### Types of Ribbon

This printer uses only ribbons with a 1-inch core. Ribbons with the coating either inside or outside can both be used.



**Perform an adhesion test to determine which side of the ribbon is coated.**

1. Remove a label from the liner.
2. Press one corner of the adhesive side of the label against the outside or inside of the surface of the ribbon.
3. Remove the label from the ribbon.
4. Check whether the black ribbon ink appears on the adhesive side of the label.

### Installing Ribbon



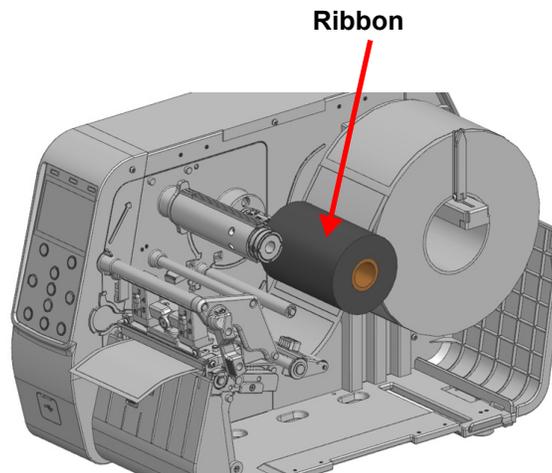
#### CAUTION!

- When opening or closing the cover, be careful not to pinch your fingers.
- Do not open the printhead lever while the printer is printing. The printer may be damaged.
- Change the ribbon when the printer is not receiving data, or data may be lost.
- While the printer is operating, the printhead gets very hot, so turn off the power and let it cool down completely. The hot printhead can cause serious burns.

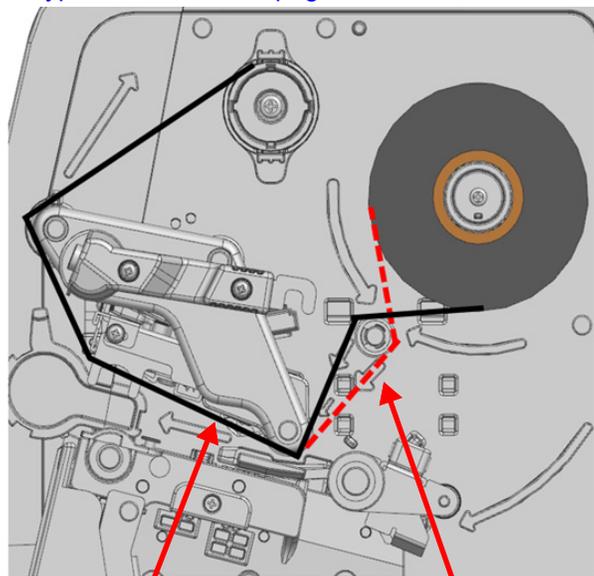
The printer comes set for four-inch wide ribbon. If using narrower ribbon, an adjustment is needed before installing ribbon. See [“Adjust Ribbon Supply Spindle to Ribbon Width”](#) on page 40.

**To install ribbon:**

1. Insert the ribbon into the ribbon supply spindle.



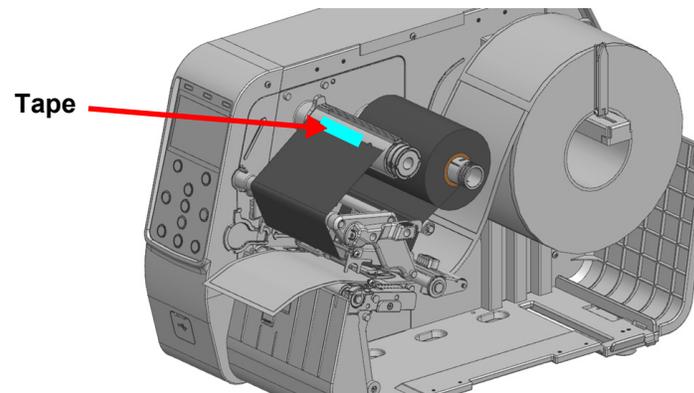
2. Open the printhead lever and install the ribbon as shown below, depending on the type of ribbon. See ["Types of Ribbon"](#) on page 37.



Coated outside

Coated inside

3. Attach the ribbon to the ribbon take-up spindle using tape.



4. Close the printhead lever and the label cover.

## Adjust Ribbon Supply Spindle to Ribbon Width

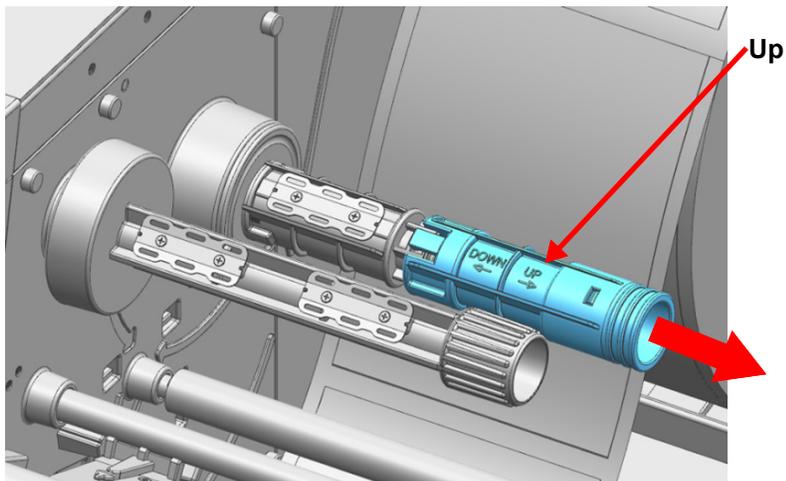
The printer uses 1-4 inch wide ribbons and is set for 4-inch ribbon from the factory. Adjust the ribbon supply spindle according to the ribbon width.



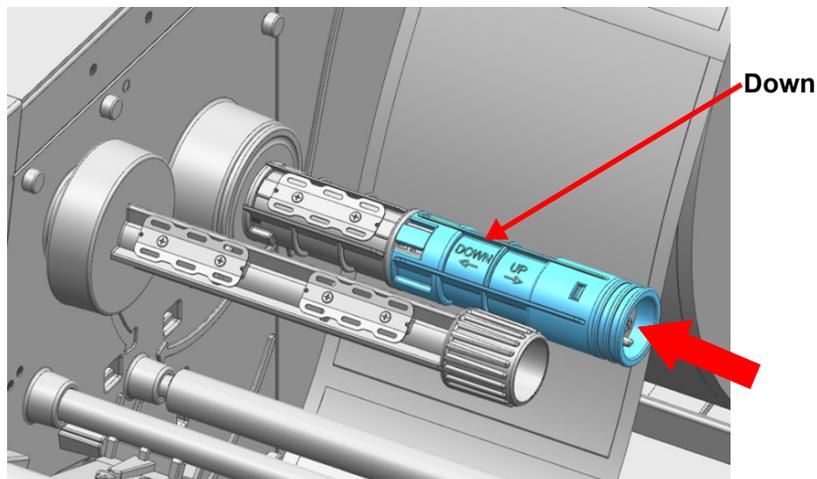
**CAUTION!** Do not adjust the ribbon supply spindle while the printer is printing. The printer may be damaged.

To adjust the ribbon supply spindle:

- **For 3–4 inch ribbon:** Pull in the direction of UP marked on the ribbon supply spindle until it clicks.



- **For 1–2 inch ribbon:** Push in the direction of DOWN marked on the ribbon supply spindle until it clicks.



## Removing Ribbon

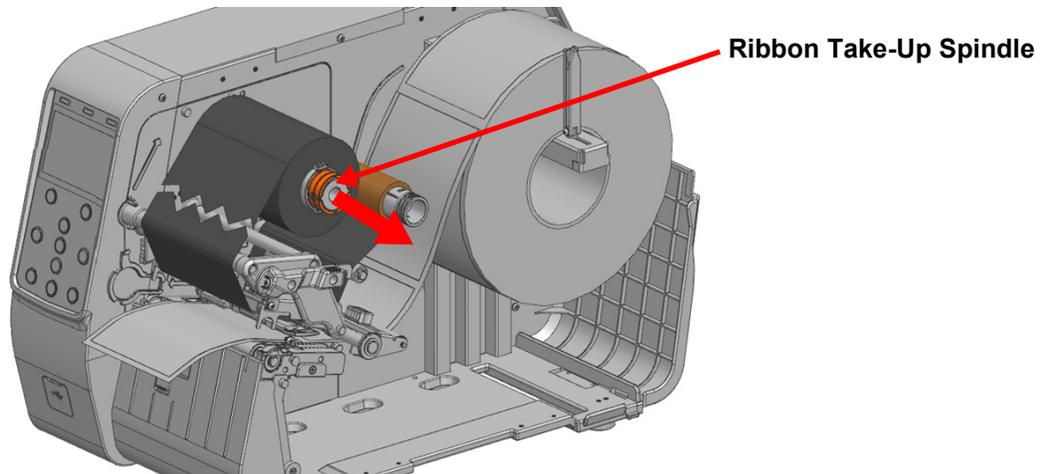


### CAUTION!

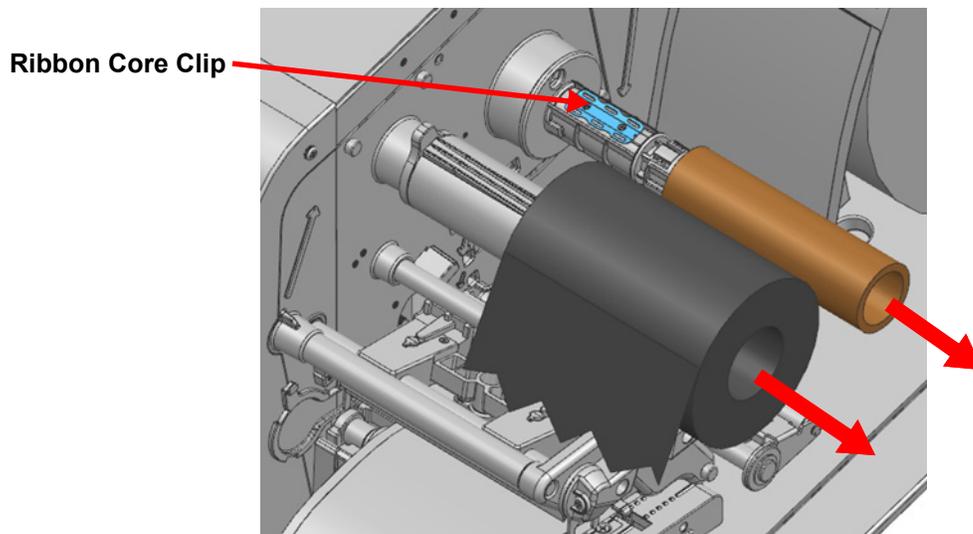
- Don't remove the ribbon and ribbon core while the printer is printing. The printer may be damaged.
- When removing ribbon and ribbon core, be careful of the sharp end of the ribbon core clip.
- The hot printhead can cause serious burns.

### To remove ribbon:

1. Open the printhead lever.
2. Cut the ribbon and pull the ribbon take-up spindle.



3. Remove the ribbon and ribbon core.



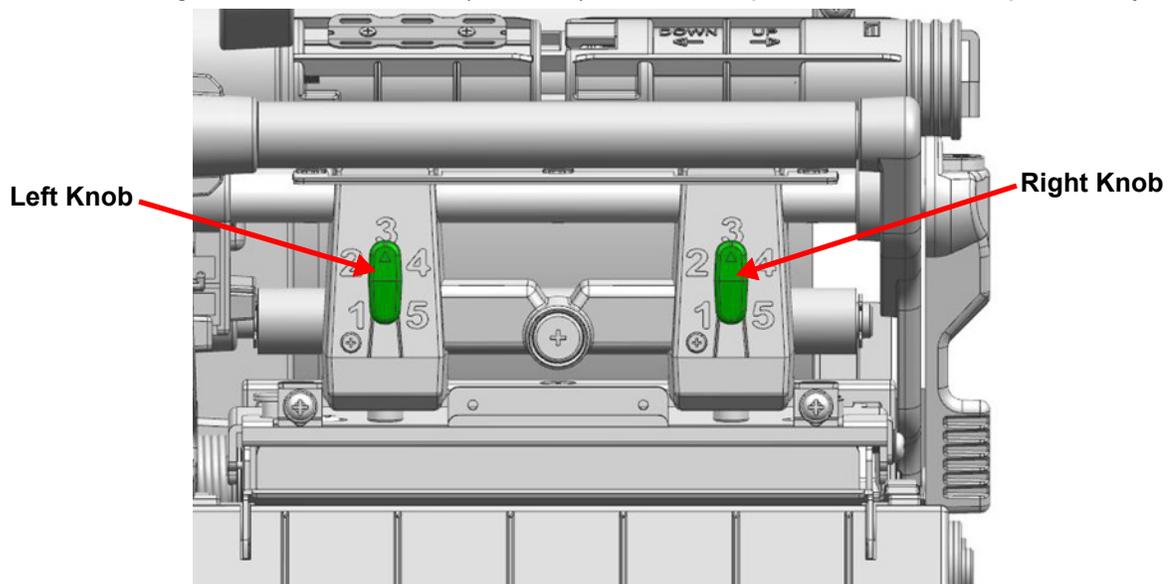
## Adjusting the Printhead Load

Adjust the printhead load by turning the left and right knobs depending on the media width and thickness. The left and right knobs are set to level 3 when shipped from the factory. Adjusting the printhead load can improve the print quality.



**CAUTION!** Do not adjust the printhead load while the printer is printing. The printer could be damaged.

- Turning the knobs toward the level 1 (counterclockwise) direction reduces the pressure on the printhead and thus reduces the print density.
- Turning the knob toward level 5 (clockwise) increases the printhead load and the print density.



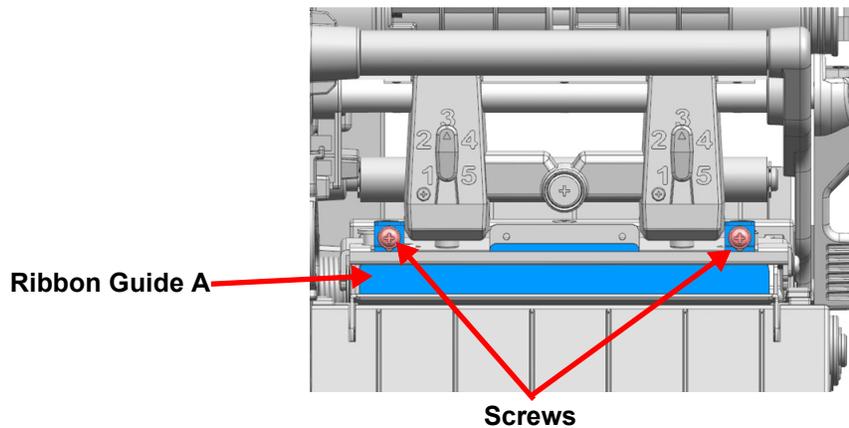
## Adjusting the Ribbon Guides

Adjust the ribbon guides if wrinkled ribbon is causing lines or blank areas on printed labels.

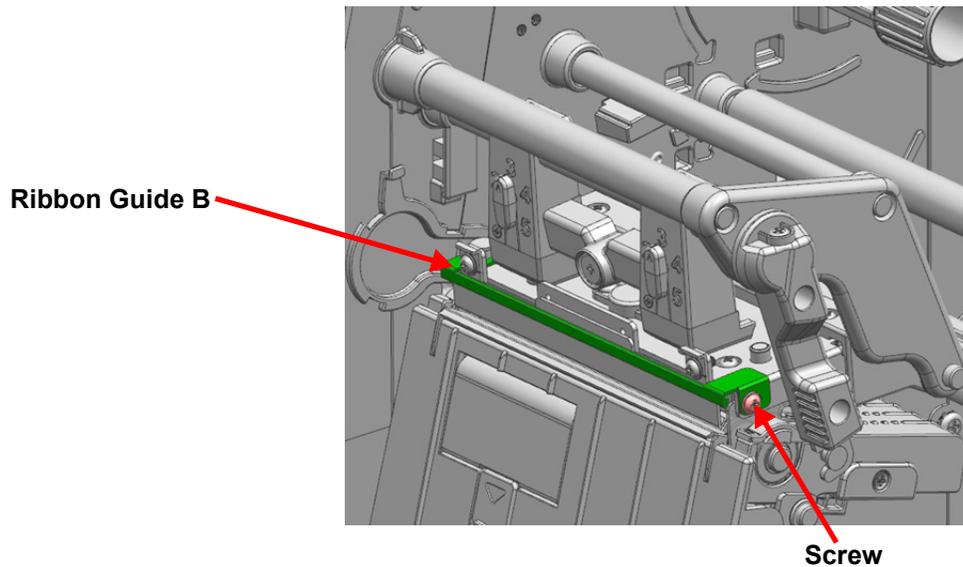


**CAUTION!** Do not adjust the ribbon guides while the printer is printing. The printer could be damaged.

**To adjust ribbon guide A:** Slightly loosen the screws fastened to ribbon guide A using a Phillips screwdriver and adjust the guide up or down.



**To adjust ribbon guide B:** Slightly loosen the screw fastened to the ribbon guide B using a Phillips screwdriver and adjust the guide forward or backward.



## Fine Tuning the Printhead Position

For some label supplies, such as thick labels, you may need to fine tune the printhead position to improve print quality.

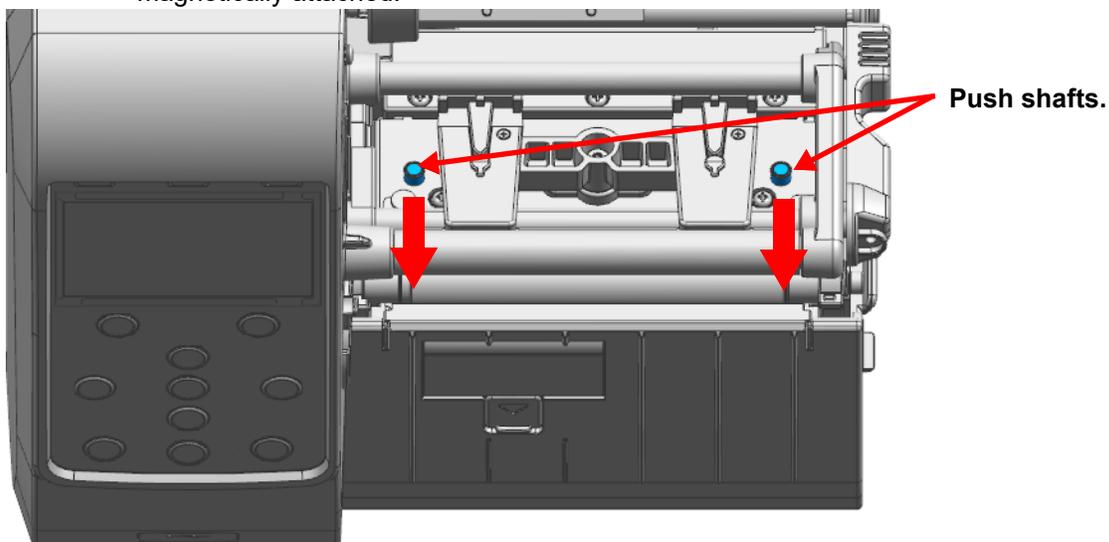


**CAUTION!** Do not adjust the printhead position while the printer is printing. The printer could be damaged.

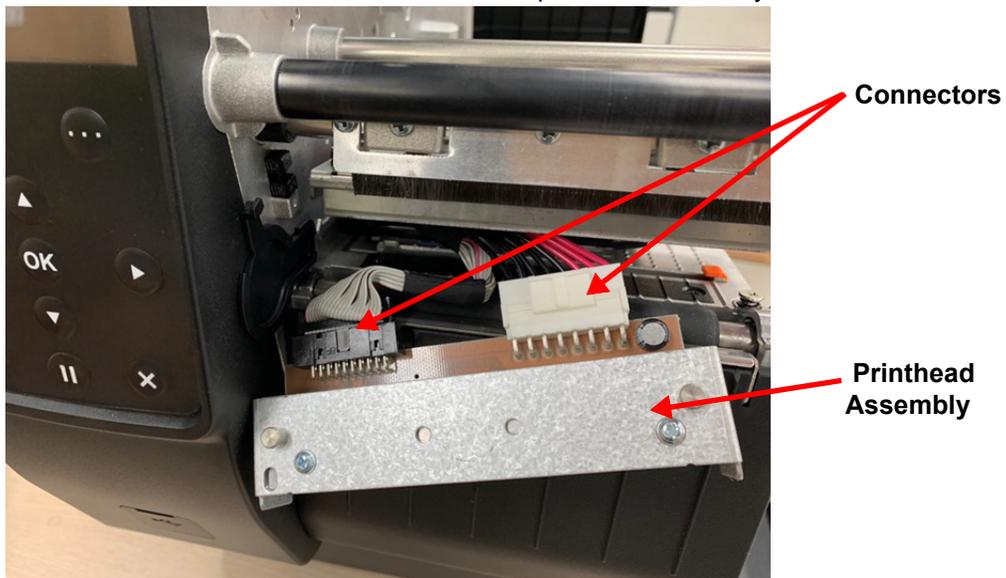
Fine tuning the printhead position significantly affects the printing quality. Perform this process only when necessary.

### To fine tune the printhead position:

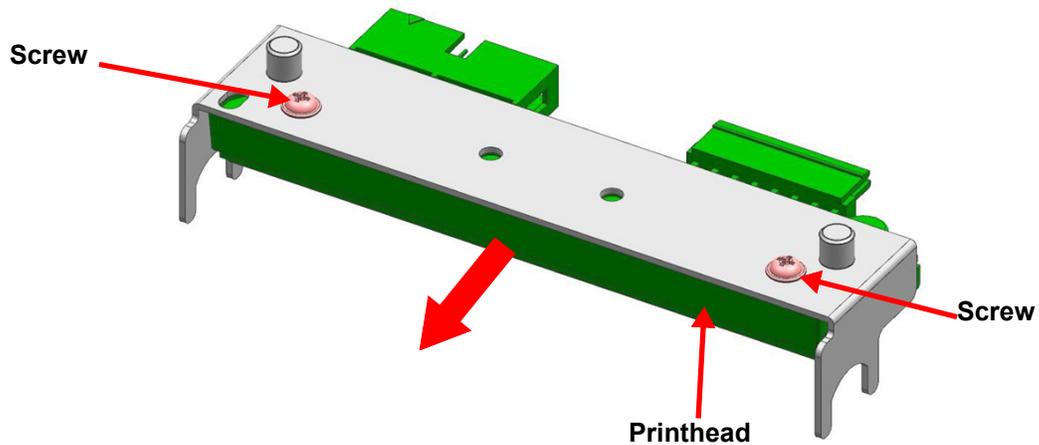
1. Turn off the printer.
2. Unplug the power cord from the printer.
3. Open the printhead lever. Push the shafts down to remove the printhead assembly which is magnetically attached.



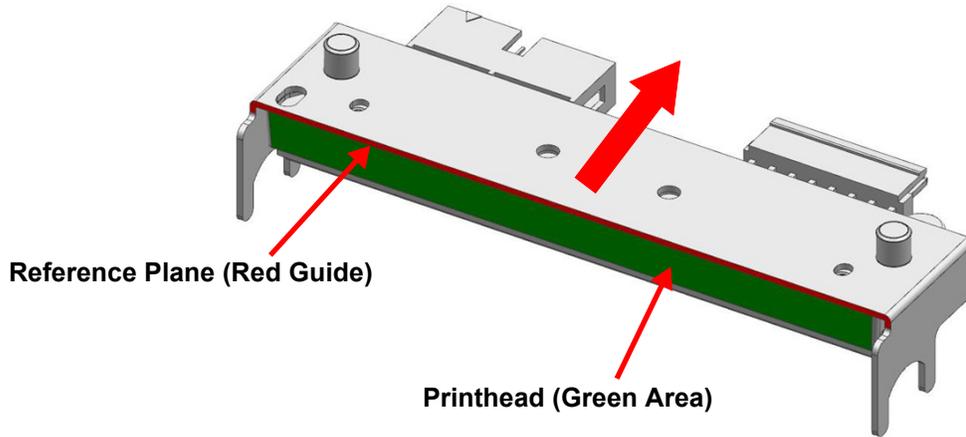
4. Remove the connectors attached to the printhead assembly.



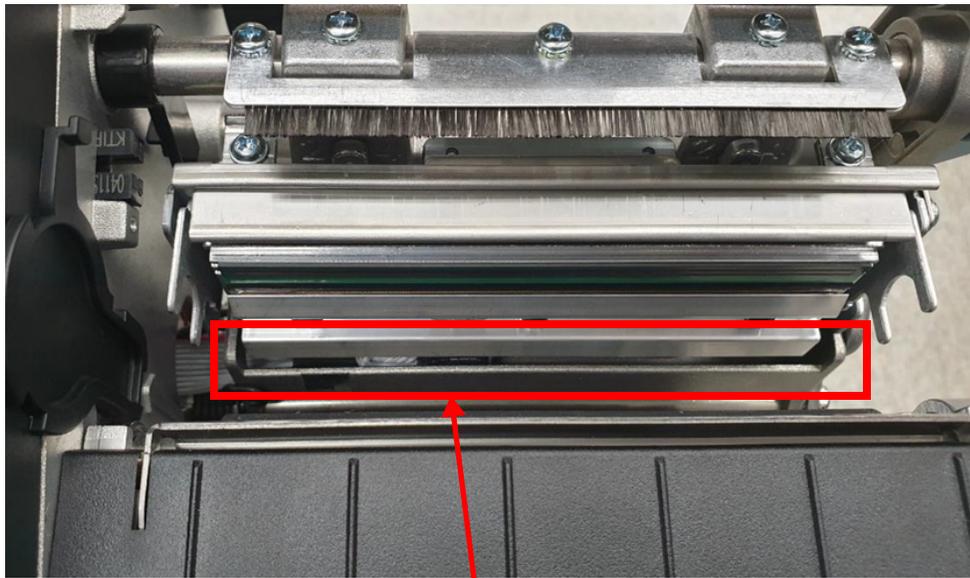
5. After loosening the screws using a Phillips screwdriver, adjust the printhead position.
  - If using a thick label supply (0.26–0.3 mm), move the printhead toward the front of the printer, in the direction indicated below.



- The factory default position of the printhead (green area) is 0.6 mm from the red guide in direction indicated below.



6. After fine tuning the position, re-assemble in reverse order of disassembly.



**Be careful not to let the wires come out.**

## 3 Ethernet Connection

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### Preparation

Before configuring Ethernet settings make sure:

1. The Ethernet cable is connected to the printer and to a hub or host.
2. Check the current network settings for the IP address of the printer.
  - **To view settings on the printer screen:** On the printer, select the **Interface** menu, then **Ethernet**. Select individual settings to their current settings.
  - **To print current settings:** On the printer, select the **Interface** menu, then **Interface Info**.

# Configuring Ethernet

## Valid Setting Ranges

Classification	Item	Remark	Input Range
Home		LAN setting status display	
System	Printer Name	Printer name	0–32 letters
	Printer Port	TCP Raw port that the printer can use	0–32767 integer (except 1, 23, 25, 80, 443, 3318)
	User Name	ID to use for FTP, Telnet, web server log in	1–32 letters
	User Password	Password to use for FTP, Telnet, web server log in	1–32 letters
	Confirm Password	Confirm Password	1–32 letters
Protocol	TELNET	Set whether to use Telnet	Enable/Disable
	FTP	Set whether to use FTP	Enable/Disable
	SMTP	Set whether to use SMTP	Enable/Disable
Network	Inactivity Time	TCP connection hold time	0–3600 integer(Sec)
	IP Assignment Method	IP assignment method	DHCP/Manual
	IP Address	Printer IP	IP Address
	Subnet Mask	Subnet mask	IP Address
	Gateway	Default Gateway	IP Address
	DNS	Domain name server IP	IP Address

## Using the Printer to Configure Ethernet

For instructions on using the printer screen and menus see [Chapter 4: “Printer Settings” on page 52](#).

### To configure Ethernet settings on the printer:

1. Select the **Interface** menu, then **Ethernet**.
2. Use the submenus to change the IP address, Subnet Mask and Gateway as needed for the network. After entering each value, press the right function button (⋯) to save it.

## Using a Web Browser to Configure Ethernet

### To configure Ethernet settings using a Web Browser:

1. Enter the IP address of the printer in the address bar. A sign in message opens.
2. Enter the username and password for the printer, and then click **Sign in**. The default username and password are as follows.

- **Username:** admin
  - **Password:** password
3. Click **LAN configuration** in the configuration window.
  4. Use the **System**, **Protocol**, and **Network** tabs to change settings.

## SMTP

Set up SMTP to monitor printer status changes and send e-mail notifications to registered administrators.

### To configure Ethernet settings using a Web Browser:

1. Enter the IP address of the printer in the address bar. A sign in message opens.
2. Enter the username and password for the printer, and then click **Sign in**. The default username and password are as follows.
  - **Username:** admin
  - **Password:** password
3. Click **LAN configuration** in the configuration window.
4. Click the **Protocol** tab.
5. Enable **SMTP** and then click **Configuration**.
6. Configure the following settings and then click **SUBMIT**.

Setting	Description
SMTP User ID	Check the ID registered to the mail server
SMTP Password	Enter the password for the corresponding User ID
SMTP Server Name	Enter the mail server (Example: Domain or mail server IP) * Check DNS settings when entering domain
SMTP Port Number	Enter SMTP port Default value of the SMTP Port is 25
From Address	Enter the e-mail address to be shown at the mail receiver
To Address	Enter the e-mail address to receive
Check Interval	Enter the period to check the printer status Entered value will be effective in second unit
Paper Empty	ON: E-mail is sent out when there is no paper OFF: Paper empty status is not checked
Cover Open	ON: E-mail is sent out when the printer cover is open OFF: Printer cover status is not checked
Cutter Error	ON: E-mail is sent out when there is error in the auto cutter OFF: Auto cutter error is not checked

Setting	Description
Near End	ON: E-mail is sent out when the printer is almost out of paper OFF: Paper remaining status is not checked
Ribbon	ON: E-mail is sent out when there is no ribbon OFF: Paper empty status is not checked
Calibration Error	ON: E-mail is sent out when calibration is failed OFF: Doesn't check auto paper setting errors
TPH Over Heat	ON: Check printhead when overheated OFF: Doesn't check printhead overheat
Paper Jam	ON: E-mail is sent out when paper is jammed OFF: Doesn't check paper jam

## Troubleshooting

### Check the following network settings:

- IP Address: Check the IP Address band of the printer and the access point (or wireless terminals). The first three segments in the IP Address must be the same.
- Subnet Mask: Make sure the subnet mask of the printer matches the one in the access point (or wireless terminal).
- Port: Make sure the port configured in the printer and the host are the same.

### Check the cable

In order to check whether the problem is due to the LAN cable, connect the cable connected to the printer to other terminals or to the computer to confirm normal operation.

### Default network values:

Printer Name	Printer Name	i6100
	Printer Port Num	9100
	User ID	admin
	User Password	password

Protocol	FTP	Disable	
	TELNET	Disable	
	SMTP	Disable	
		SMTP Server Name: ""	
		SMTP Port Number: 25	
		From Address: ""	
		To Address: ""	
		Check Interval(Sec): 10	
		Paper Empty: OFF	
		Cover Open: OFF	
		Cutter Error: OFF	
Near End: OFF			
Authentication	Open System	None	
	Shared key	None	
LAN	IP Assignment Method	DHCP	

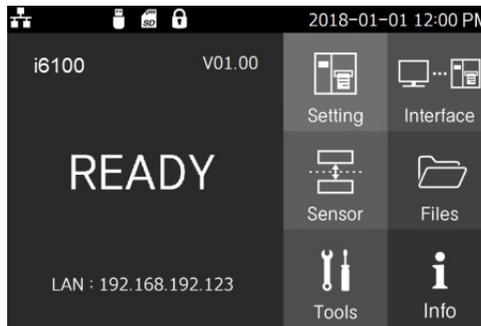
# 4 Printer Settings

## Using Menus

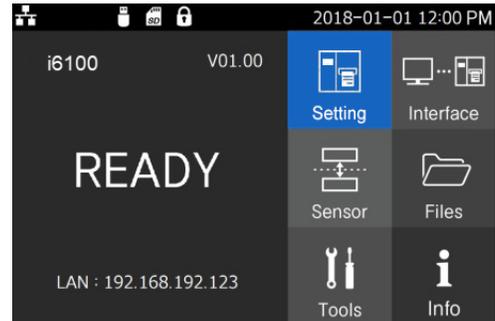
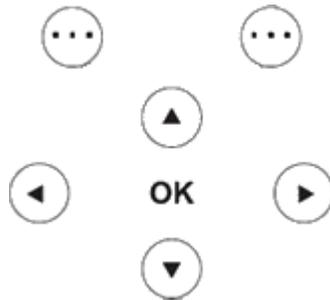
### Selecting Menu and Settings

To select menus:

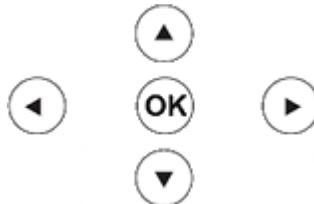
1. Begin at the main screen.



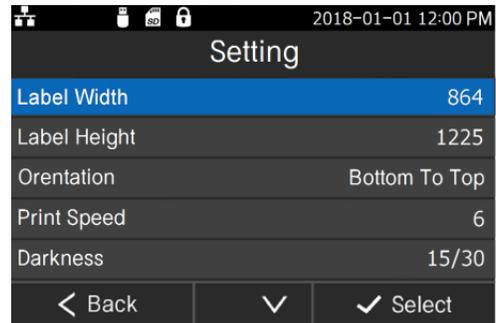
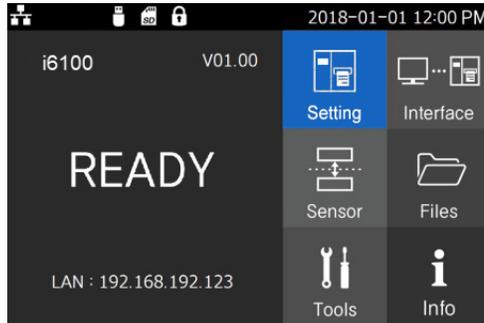
2. Press a function button, direction button or the OK button. This selects the setting menu.



3. Use direction buttons to move to the desired menu.



- Press OK or the right function button to enter the sub menu.



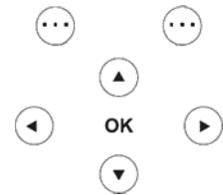
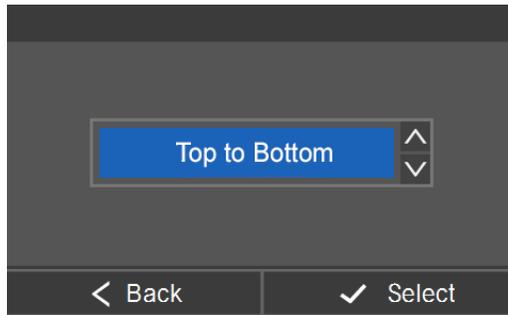
- Navigate the submenu using the direction buttons and then press the OK or right function button to select a setting.

## Entering Settings

Once you have selected a setting (see [“Selecting Menus and Settings” on page 52](#)), you will need to enter the value for the settings. Some settings provide a list to choose from, others require entering number values or characters.

### Selecting from a List

- Once a list type setting is selected, use the  and  buttons to choose the desired value.



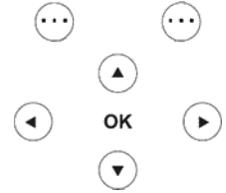
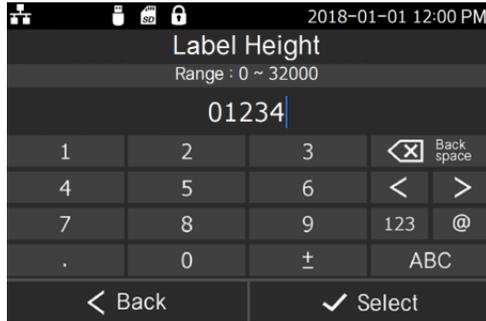
- Press the right function button  to save the selection. To exit without saving, press the left function button. 

### Entering Numbers

1. Navigate to the desired number using the direction buttons.



2. Press OK to select the desired number.



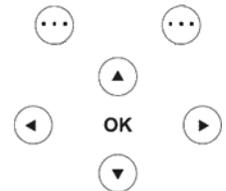
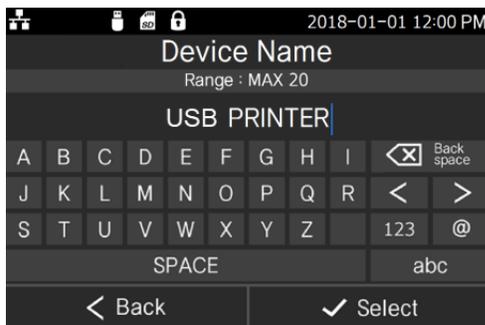
3. With , you can delete the input value.
4. With , you can move the cursor
5. After entering the value, press the right function button  to save it.
6. If you want to exit the menu without saving the value, press the left function button  to move to the previous screen.

### Entering Characters

1. Navigate to the desired letter using the direction buttons.



2. Press OK to select the desired letter.



3. Use the following keys to edit the text.
  - Use  to delete an input value.
  - Use  to move the cursor.
4. Use the following keys to change keyboards so you can enter a different type of character.

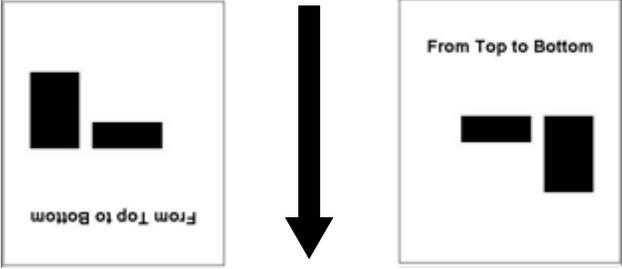
- **123** Opens the numeric input screen.
  - **@** Opens the symbol input screen.
  - **abc** Opens the lower case letter screen.
5. After entering the value, press the right function button **⋮** to save it.
  6. If you want to exit the menu without saving the value, press **⋮** to move to the previous screen.

## Menu Descriptions

### Setting Menu



Menu Item	Description
<b>Print Width</b>	Sets the label supply width. The unit is dots. <b>Default Value:</b> 1,248dots <b>Maximum Value:</b> 1,248dots
<b>Print Length</b>	Sets label length. The unit is dots. <b>Default Value:</b> 1,811dots (150mm) <b>Maximum Value:</b> 30,000dots (2,500mm)

Menu Item	Description
<p><b>Print Direction</b></p>	<p>Sets the printing direction.</p> <ul style="list-style-type: none"> <li>• <b>Top to bottom:</b> Prints from the top of the label to the bottom.</li> <li>• <b>Bottom to Top:</b> Prints from the bottom of the label to the top.</li> </ul> <p><b>Default Value:</b> Bottom to Top</p> <p><b>Values:</b> Bottom to Top, Top to Bottom</p> <p style="text-align: center;"><b>Printing Direction</b></p> <div style="text-align: center;">  </div> <p style="text-align: center;"><b>Top to Bottom</b>                      <b>Bottom to Top</b></p>
<p><b>Print Speed</b></p>	<p>Sets the print speed in ips, inches per second.</p> <p><b>Default Value:</b> 6 ips</p> <p><b>Values:</b> 2–10 ips</p>
<p><b>Print Density</b></p>	<p>Sets the print density (how dark the print is).</p> <p><b>Default Value:</b> 15</p> <p><b>Values:</b> 0–30</p>
<p><b>Print Method</b></p>	<p>The print method can be thermal transfer or direct.</p> <p><b>Default Value:</b> Transfer</p> <p><b>Values:</b> Direct, Transfer</p>
<p><b>Media Type</b></p>	<p>Sets the type of label supply:</p> <ul style="list-style-type: none"> <li>• <b>Gap:</b> Pre-sized labels are separated by a gap in the liner.</li> <li>• <b>Black Mark:</b> Pre-sized labels are separated by a black mark on the liner.</li> <li>• <b>Continuous:</b> The label supply is one continuous label that must be cut between printed labels.</li> </ul> <p><b>Default Value:</b> Gap</p> <p><b>Values:</b> Gap, Black Mark, Continuous</p>
<p><b>Tear Off</b></p>	<p>Sets the label position (measured in dots) for tear off after printing or feed.</p> <p><b>Default Value:</b> 0</p> <p><b>Values:</b> -100–100</p>

Menu Item	Description
<b>Print Offset</b>	Sets the top print position, in dots. <b>Default Value:</b> 0 <b>Values:</b> -100–100
<b>Left Position</b>	Sets the left print position [2dots]. The arrow moves the setting in increments of two dots. <b>Default Value:</b> 0 <b>Values:</b> -300–300
<b>Print Mode</b>	Sets the print mode appropriate for your printer model and accessories. <b>Default Value:</b> Tear Off <b>Values:</b> Tear Off, Auto Cutter, Rewinder
<b>Power Up Action</b>	Sets the action for the printer after the power-up sequence. <b>Default Value:</b> No Feed <b>Values:</b> No Feed, Set Label Length, Media Calibration, Feed
<b>Printhead Close</b>	Sets the action for the printer when you close the printhead. <b>Default Value:</b> Feed <b>Values:</b> Feed, Standby Mode, No Feed, Set Label Length, Media Calibration

## Interface Menu



### Serial Submenu

Menu Item	Description
<b>Serial &gt; Baud Rate</b>	Sets the baud rate. <b>Default Value:</b> 115200 <b>Values:</b> 9600, 19200, 38400, 57600, 115200
<b>Serial &gt; Data Bits</b>	Sets the data bit. <b>Default Value:</b> 8 <b>Values:</b> 7, 8
<b>Serial &gt; Parity</b>	Sets the parity. <b>Default Value:</b> None <b>Values:</b> None, Odd, Even
<b>Serial &gt; Stop Bit</b>	Sets the stop bit. <b>Default Value:</b> 1 <b>Values:</b> 1, 2
<b>Serial &gt; Host Handshake</b>	Sets the handshake <b>Default Value:</b> RTS_CTS <b>Values:</b> RTS_CTS, DTR_DSR, XON_XOFF

### Ethernet Submenu

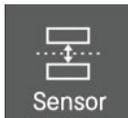
Menu Item	Description
<b>IP Protocol</b>	Sets IP assignment method <b>Default Value:</b> DHCP <b>Values:</b> DHCP, Static IP
<b>IP Address</b>	Sets IP Address <b>Default Value:</b> <ul style="list-style-type: none"> <li>• <b>Static IP:</b> 192.168.192.123</li> <li>• <b>DHCP:</b> 0.0.0.0</li> </ul> <b>Values:</b> 0–255 for each section of the IP address

Menu Item	Description
<b>Subnet Mask</b>	<p>Sets the subnet mask</p> <p><b>Default Value:</b></p> <ul style="list-style-type: none"> <li>• <b>Static IP:</b> 255.255.255.0</li> <li>• <b>DHCP:</b> 0.0.0.0</li> </ul> <p><b>Values:</b> 0–255 for each section of the mask</p>
<b>Gateway</b>	<p>Sets the gateway</p> <p><b>Default Value:</b></p> <ul style="list-style-type: none"> <li>• <b>Static IP:</b> 192.168.192.254</li> <li>• <b>DHCP:</b> 0.0.0.0</li> </ul> <p><b>Values:</b> 0–255</p>
<b>MAC Address</b>	Displays the MAC address

### Interface Info

Prints the interface settings.

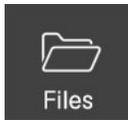
### Sensor Menu



Menu Item	Description
<b>Gap Calibration</b>	Detect the gap in the label supply and calibrate automatically.
<b>Black Mark Calibration</b>	Detect the black mark in the label supply and calibrate automatically.
<b>Sensor Sensitivity</b>	<p>Adjusts the sensitivity of the gap sensor.</p> <p><b>Default Value:</b> 70</p> <p><b>Values:</b> 10–100</p>

Depending on the characteristics of the label supply, the amount of labels output may be different for gap and black mark calibration.

## Files Menu



Menu Item	Submenus		
Files	Saved File	Template	See "Saved File Submenu" on page 60.
		Image	
		Download Fonts	
		E Drive (Flash Memory)	
		A Drive (USB Memory )	
		B Drive (SD Card Memory )	
	Twin Function	PRT Set (Printer Setting)	See "Twin Function Submenu" on page 61.
		Template	
		Image	
		Download Fonts	
	F/W Update		See "F/W Update" on page 63.

### Saved File Submenu

Displays the list of object files stored in the printer on the LCD screen.

Menu Item	Description
Template	Lists templates stored in the printer. For more information on templates see "Template" on page 61.
Image	Lists images stored in the printer (*.pcx).
Download Font	Lists fonts stored in the printer .
E Drive (Flash Memory)	Saved object files in E drive.
A Drive (USB Memory)	Saved object files in A drive.
B Drive (SD Card Memory)	Saved object files in B drive.

### Twin Function Submenu

Saves the current printer settings, save files (templates, images, download fonts) to another printer using USB, or loads the settings of another printer and saves files to the current printer.

Menu Item	Description
<p><b>Printer Setting</b></p>	<p>Saves printer settings to a USB drive, or loads the print settings from a USB drive.</p> <p><b>File path:</b> F:\configuration</p> <p><b>To save settings:</b></p> <ul style="list-style-type: none"> <li>• Connect a USB drive to the printer.</li> <li>• Select <b>Save</b> on the menu using the up and down buttons.</li> <li>• The printer_config file is created in the configuration folder of the USB drive. (The configuration folder is automatically created)</li> </ul> <p><b>To load settings:</b></p> <ul style="list-style-type: none"> <li>• Check whether the printer_config file exists in the configuration folder of the USB drive. (If there is no file, save the printer settings first.)</li> <li>• Connect the USB drive to the printer.</li> <li>• Select <b>Load</b> from the <b>Printer Setup</b> menu using the up and down buttons.</li> <li>• A message is displayed while loading. Another message informs you when loading is completed.</li> <li>• Check the printer's settings to confirm the changes.</li> </ul>
<p><b>Template</b></p>	<p>Saves a template file to a USB drive, or loads a template from a USB drive.</p> <p><b>File path:</b> F:\ USER_AREA_TEMPLATES</p> <p><b>To save a template:</b></p> <ul style="list-style-type: none"> <li>• Connect a USB drive to the printer.</li> <li>• Select <b>Save</b> on the menu using the up and down buttons.</li> <li>• Template files are stored in the USER_AREA_TEMPLATES folder of the USB drive. (The USER_AREA_TEMPLATES folder is automatically created.)</li> </ul> <p><b>To load a template:</b></p> <ul style="list-style-type: none"> <li>• Check whether the template file exists in the USER_AREA_TEMPLATES folder of the USB drive. (If the file does not exist, create a USER_AREA_TEMPLATES folder and save the template file to be copied to the printer.)</li> <li>• Connect the USB drive to the printer.</li> <li>• Select <b>Load</b> from the <b>Printer Setup</b> menu using the up and down buttons.</li> <li>• A message is displayed while loading. Another message informs you when loading is completed.</li> <li>• Go to the <b>Save File</b> menu and confirm that the template file is saved to the printer.</li> </ul>

Menu Item	Description
<p><b>Image</b></p>	<p>Saves an image file to a USB drive, or loads an image from a USB drive (*.pcx)  <b>File path:</b> F:\ USER_AREA_PCXImages</p> <p><b>To save an image:</b></p> <ul style="list-style-type: none"> <li>• Connect a USB drive to the printer.</li> <li>• Select <b>Save</b> on the menu using the up and down buttons.</li> <li>• Image files are stored in the USER_AREA_PCXImages folder on the USB drive. (The USER_AREA_PCXImages folder is automatically created.)</li> </ul> <p><b>To load an image:</b></p> <ul style="list-style-type: none"> <li>• Check whether the image file exists in the USER_AREA_PCXImages folder of the USB drive. (If the file does not exist, create a USER_AREA_PCXImages folder and save the image file to be copied to the printer.)</li> <li>• Connect the USB drive to the printer.</li> <li>• Select <b>Load</b> from the <b>Printer Setup</b> menu using the up and down buttons.</li> <li>• A message is displayed while loading. Another message informs you when loading is completed.</li> <li>• Go to the <b>Save File</b> menu and confirm that the image file is saved to the printer.</li> </ul>
<p><b>Download Font</b></p>	<p>Saves font file to a USB storage device, or loads the font from USB storage.  <b>File path:</b> F:\ USER_AREA_FONTS</p> <p><b>To save a font:</b></p> <ul style="list-style-type: none"> <li>• Connect a USB drive to the printer.</li> <li>• Select <b>Save</b> on the menu using the up and down buttons.</li> <li>• Font files are stored in the USER_AREA_FONTS folder on the USB drive. (The USER_AREA_FONTS folder is automatically created.)</li> </ul> <p><b>To load a font:</b></p> <ul style="list-style-type: none"> <li>• Check whether the font file exists in the USER_AREA_FONTS folder on the USB drive. (If the file does not exist, create a USER_AREA_FONTS folder and save the font file to be copied to the printer.)</li> <li>• Connect the USB drive to the printer.</li> <li>• Select <b>Load</b> from the <b>Printer Setup</b> menu using the up and down buttons.</li> <li>• A message is displayed while loading. Another message informs you when loading is completed.</li> <li>• Go to the <b>Save File</b> menu and confirm that the font file is saved to the printer.</li> </ul>

### *F/W Update*

Firmware can be updated via a USB drive.

Menu	Description
<p><b>F/W Update</b></p>	<p>Printer firmware updates are available using a USB drive directly without any communication.</p> <p><b>File path:</b> F:\ FW_DOWNLOAD</p> <p>File name: XT5-43_Vxx.xx_STD_mmddyy.fls</p> <p>Location: F:\ FW_DOWNLOAD folder.</p> <p><b>To download a firmware update:</b></p> <ul style="list-style-type: none"> <li>• Check that the firmware file (*.fls) is in the FW_DOWNLOAD folder of the USB drive. (If there is no folder, please create the FW_DOWNLOAD folder and save the firmware file (*.fls) to it.)</li> <li>• Connect the USB drive to the printer.</li> <li>• Select <b>F/W Update</b> from the <b>Files</b> menu.</li> <li>• Select the firmware download menu.</li> <li>• If the message “F/W Downloading” is displayed, the firmware download has started normally.</li> <li>• When the firmware download is completed successfully, the message “Printer Restart” is displayed and the rebooting process is automatically performed.</li> </ul>

## Tools Menu



Menu Item		Description
<b>Self Test</b>		Prints a self-test
<b>Factory Reset</b>		Initializes the printer settings to factory default
<b>Dump Mode</b>		Diagnoses communication status when printing is not normal <b>Default Value:</b> Disable <b>Values:</b> Disable, Enable
<b>Printhead Check</b>		Prints a sample to check the printhead. If white spots appear where there should be ink, then the printhead is worn or damaged.
<b>LCD</b>	<b>Dead Pixel Test</b>	LCD pixel test function
	<b>Backlight Brightness</b>	Sets the backlight brightness Default Value: 70 Values: 10–100
<b>Real Time Clock</b>		Sets the date and time Sets the date and time format <b>Date format:</b> <ul style="list-style-type: none"> <li>• YYYY-MM-DD</li> <li>• YYYY/MM/DD</li> <li>• MM-DD-YYYY</li> <li>• MM/DD/YYYY</li> <li>• DD-MM-YYYY</li> <li>• DD/MM/YYYY</li> </ul> <b>Time format:</b> 12H, 24H
<b>Language Setting</b>		Sets the language to be displayed on the LCD <b>Default Value:</b> English <b>Values:</b> English, Korean, German, French, Spanish
<b>Emulation</b>		Sets printer emulation <b>Default Value:</b> AUTO <b>Values:</b> AUTO, BPL-D
<b>USB Serial Number</b>		Checks the USB serial number
<b>Buzzer Setting</b>		Sets beep on or off <b>Default Value:</b> Enable <b>Values:</b> Enable, Disable

Menu Item	Description
<b>Security</b>	Sets a password to restrict printer settings <b>Default Value:</b> Disable <b>Values:</b> Disable, Enable
<b>Demo Print</b>	Prints a pre-set sample barcode and text

### Info Menu

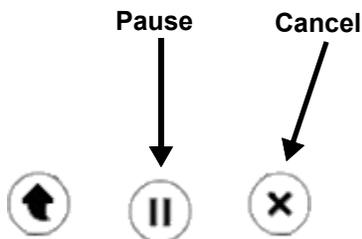


Menu Item	Description
<b>Printer Info</b>	Displays printer usage information

## 5 Detailed Features

### Pause and Cancel

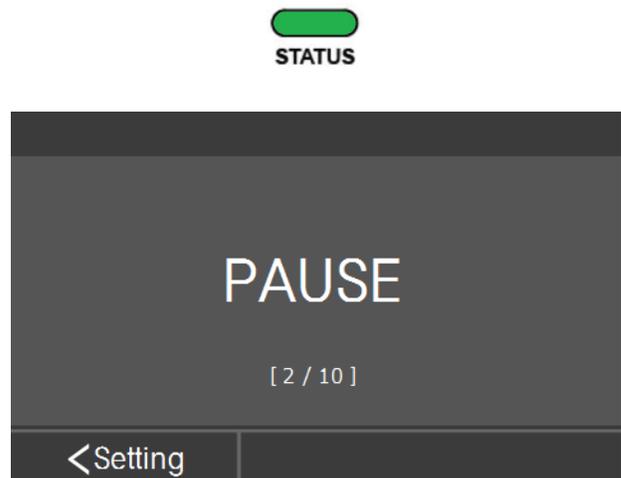
During multiple-page print jobs, the Pause and Cancel buttons can be used to pause printing and cancel the print job altogether, respectively.



### Pause and Resume

To pause and resume printing:

1. When printing, press the Pause button. 
2. The printer will pause after printing the current label and the status LED and screen will be as follows.
  - **Status LED:** Green Blink
  - **Status on screen:** PAUSE
3. While the print job is paused press the Pause button  again to resume printing.



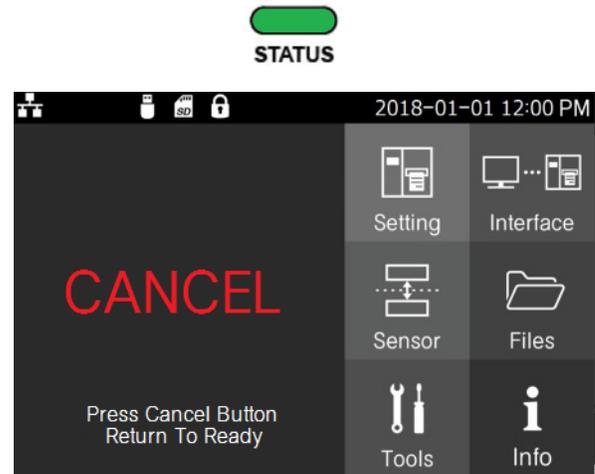
### Cancel Printing

The following processes occur in the print cancellation mode.

- All label printing is canceled.
- All data received in the printer communications buffer is deleted.
- All received data is deleted.

**To cancel printing:**

1. During printing or pause mode, press the Cancel button. (X)
2. The status LED and screen in the print cancellation mode can be as follows.
  - **STATUS LED:** Green Blink
  - **Screen:** Press CANCEL
3. While in the print cancellation mode, press the Cancel button (X) again to return to print ready mode.



## Smart Label Detection

Pre-sized labels with a gap or black mark can be identified without additional settings.

Three to five labels will be used depending on the type of labels.

Smart Label Detection is executed in the followings circumstances:

- When the printer is turned on and you press the Feed button. (Up arrow)
- After the printer is turned on, the first print command executes Smart Label Detection.
- When a change of label length or type is detected during feeding or printing.
- When a different label type is specified with the *Media Type* item in the *Setting* menu.
- After factory reset.

## Gap Sensor Auto Calibration Mode

Gap sensor auto calibration mode is used when the printer does not detect a gap on the label supply correctly.

Generally a printer is set to detect most types of gap but sometimes it fails to detect the gap and keeps feeding labels when certain non-standard label supplies are used. In such cases, use gap sensor auto calibration to properly detect gaps.

**To automatically calibrate the gap sensor:**

1. Make sure that the label roll has been installed properly.
2. In print ready mode, navigate to the **Sensor** menu, select **Gap Calibration**, and press the right function button (three dots) or the **OK** button to calibrate the gap sensor.

## Black Mark Sensor Auto Calibration Mode

Black mark sensor auto calibration mode is used when the printer does not detect a black mark on the label supply correctly.

Generally a printer is set to detect most types of black mark but sometimes it fails to detect the mark and keeps feeding labels when certain non-standard label supplies are used. In such cases, use black mark sensor auto calibration to properly detect black marks.

### To automatically calibrate the black mark sensor:

1. Make sure that the label roll has been installed properly.
2. In print ready mode, navigate to the **Sensor** menu, select **Black Mark Calibration**, and press the right function button  or the **OK** button to calibrate the black mark sensor.

## Sensor Sensitivity

Use this mode when the label supply is not detected correctly.

You can adjust the strength of the sensor to fix the label sensing problem.

Turn the printer off and on to return to the print ready mode.

In print ready mode, navigate to the **Sensor** menu, select **Sensor Sensitivity**, and press the right function button  or the **OK** button to adjust the sensor sensitivity. See [“Sensor Menu” on page 59](#).

## Data Dump Mode

This function can be used to diagnose communication issues when the printer does not work properly.

In this mode, the received data are not analyzed and printed, instead they are dumped in hex format without processing.

Turn the printer off and on to return to the print ready mode.

In print ready mode, navigate to the **Tools** menu, select **Dump**, then **Dump Enable**. Press the right function button  or the **OK** button to run dump mode. See [“Tools Menu” on page 64](#).

## Factory Reset

This function is used to factory reset the printer settings.

### To reset the printer to factory settings:

1. Make sure that the label roll has been installed properly.

2. In print ready mode, navigate to the **Tools** menu, select **Factory Reset**, and press the right function button  or the **OK** button to reset the printer to the factory default settings. The printer automatically reboots.

## 6 Maintenance

### Cleaning the Printer

Due to dust, foreign substances, adhesives, and other contaminants on or inside print head, print quality may be reduced. In this case, clean the printer using the cleaning tools for each area as indicated in the following table.

Area	Tools	Interval
Printhead	Cotton swab dipped in isopropyl alcohol solution	When changing the label supply.
Platen Roller	Cloth dipped in isopropyl alcohol solution (Cotton swab)	
Media Sensor		
Ribbon Sensor		
Media Feed Path	Air compressors,	
Ribbon Feed Path	Cloth dipped in isopropyl alcohol solution (Cotton swab)	When a foreign substance is discovered
Manual cutting	Cloth dipped in isopropyl alcohol solution (Cotton swab)	
Peeler Roller(Optional)		
Peeler Sensor(Optional)		
Auto Cutter(Optional)	Air compressors Cotton swab dipped in isopropyl alcohol solution	When a foreign substance is discovered

## Cleaning the Printhead

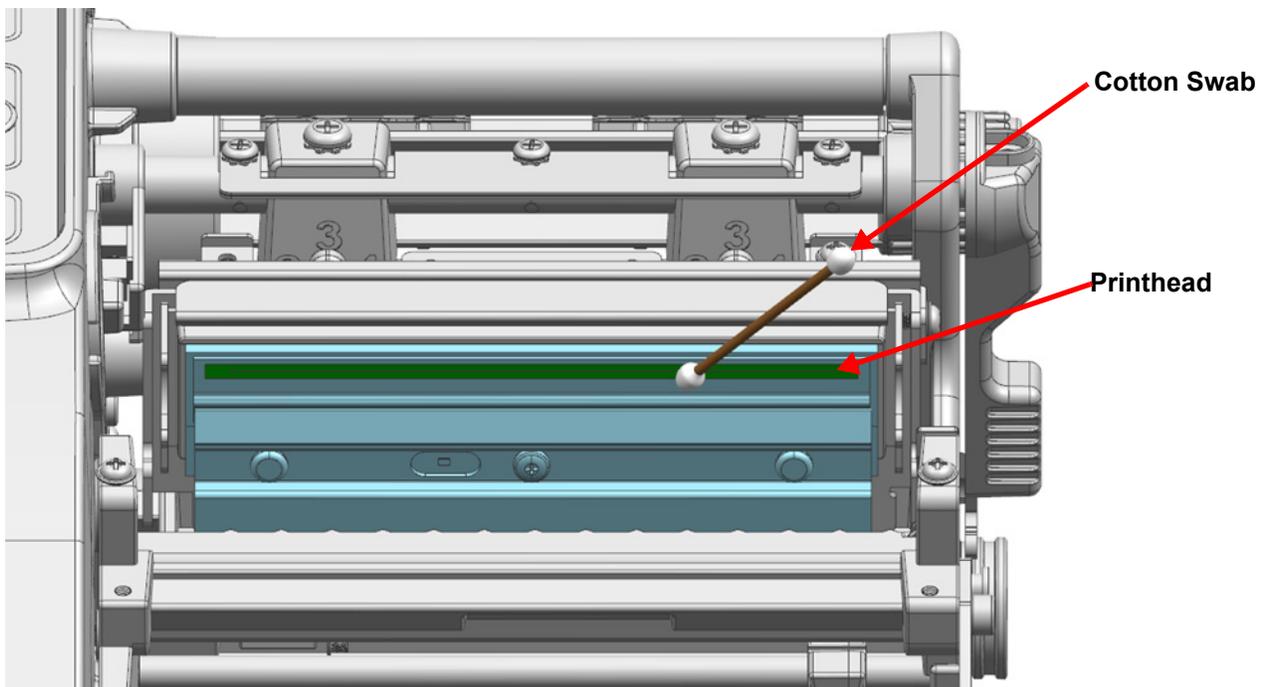


### CAUTION!

- Be sure to turn the printer off before cleaning the printhead.
- Be careful not to leave scratches in the printhead. The printer may be damaged.
- The printhead is very hot while the printer is printing, so clean the printer after cooling it sufficiently with the power off.
- Do not touch the heated area of the printhead when cleaning. Personal injury may result from static electricity, etc.

### To clean the printhead:

1. Turn off the printer.
2. Open the label cover and printhead lever and remove the label supply and ribbon.
3. Using a cotton swab dipped in isopropyl alcohol, clean the printhead from the center out toward each side.



4. After cleaning, wait to use the printer until the alcohol has evaporated sufficiently (1 to 2 minutes) and the surface of the printhead has dried completely.

## Cleaning the Platen Roller

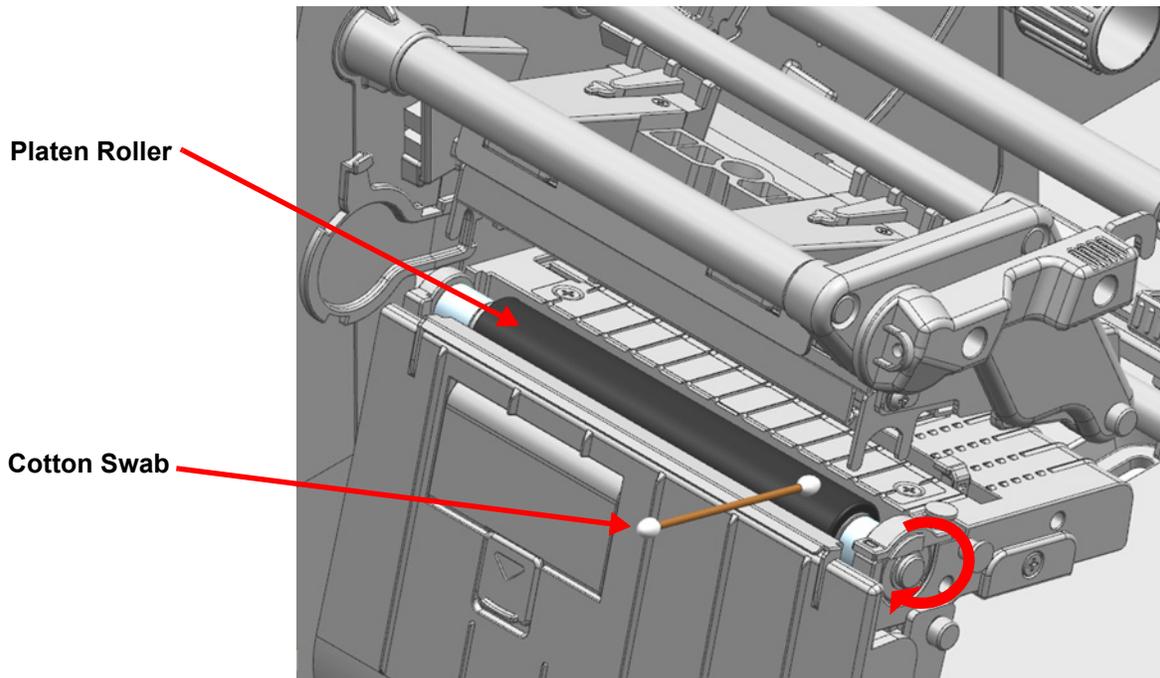


**CAUTION!**

- Be sure to turn the printer off before cleaning the platen roller.
- Be careful not to scratch the roller. The printer may be damaged.

**To clean the platen roller:**

1. Turn off the printer.
2. Open the label cover and printhead lever and remove the label supply and ribbon.
3. While rotating the roller, remove dust or foreign substances using a dry cloth or cotton swab.



4. If adhesive substances or other contaminants remain, remove them using a cloth or cotton swab dipped in isopropyl alcohol while rotating the roller.
5. After cleaning, wait to use the printer until the alcohol has evaporated sufficiently (1 to 2 minutes) and the surface of platen roller has dried completely.

## Cleaning the Auto-Cutter (Optional)

The auto-cutter is accessory that is purchased separately.

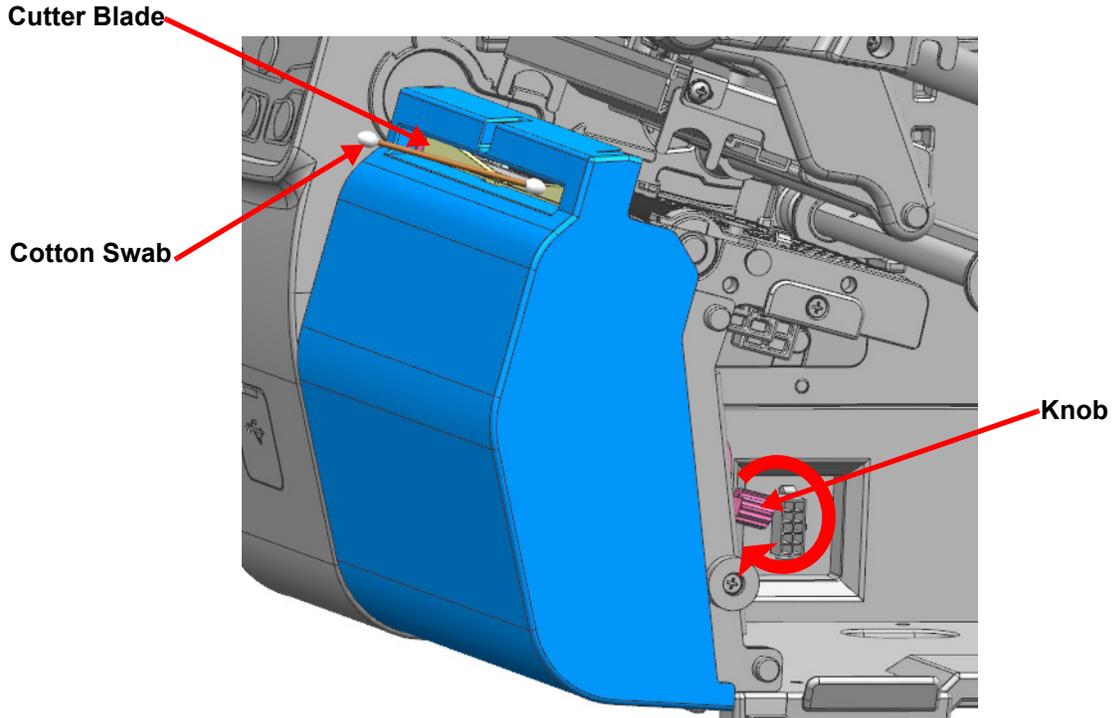


**CAUTION!**

- Be sure to turn off the printer before cleaning.
- Do not touch cutter blade when cleaning. This can cause serious bodily injury.

**To clean the cutter:**

1. Turn off the printer.
2. Open the label cover and printhead lever and remove the label supply and ribbon.
3. Rotate the knob to completely expose the cutter blade.



4. Remove dust or foreign substances using a cotton swab dipped in isopropyl alcohol.

**Cleaning the Peeler Module (Optional)**

The peeler model comes with the I6100 label Printer with Rewinder, or as a separate accessory.



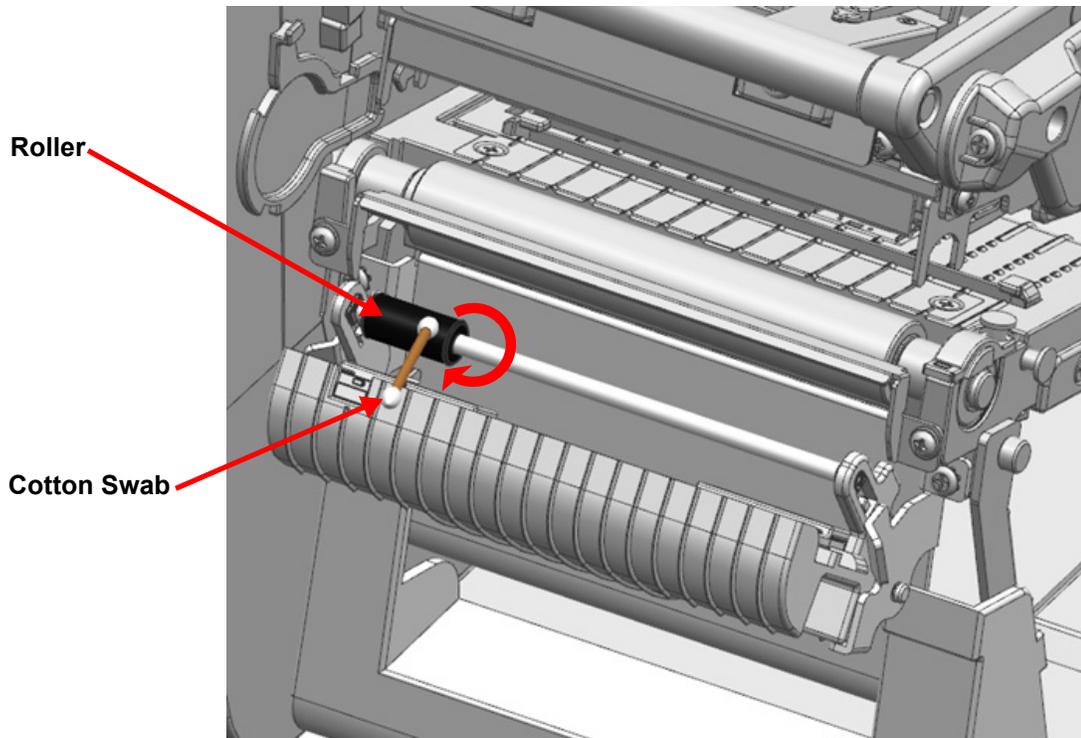
**CAUTION!**

- Be sure to turn off the printer before cleaning.
- Be careful not to scratch the roller. The printer may be damaged.

**To clean the peeler module:**

1. Turn off the printer.
2. Open the label cover, printhead lever, and peeler cover and remove the label supply and ribbon.
3. While rotating the roller, remove dust or foreign substances using a dry cloth or cotton swab.

4. If adhesive substances or other contaminants remain, remove them using a cloth or cotton swab dipped in isopropyl alcohol solution while rotating the roller.



5. After cleaning, wait to use the printer until the alcohol has evaporated sufficiently (1 to 2 minutes) and the surface of roller has dried completely.

# A Regulatory Compliance

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## Agency Compliance and Approvals

### United States

#### *FCC Notice*

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area may cause harmful interference in which case the user will be required to correct the interference at his own expense.

In instances where interference is experienced, the following measures are recommended to assist in mitigation:

- Reorient or reposition the equipment relative to the interference.
- Increase the separation distance between the equipment and the interference.
- Connect equipment to a separate power circuit than the interference if applicable.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

### Estados Unidos

#### *Aviso de la FCC*

Este equipo se puso a prueba y se confirmó que cumple con los límites para un dispositivo digital de Clase A, conforme a la Parte 15 de las Regulaciones de la Comisión Federal de Comunicaciones (Federal Communications Commission, FCC). Estos límites se han diseñado para proporcionar protección razonable contra interferencias perjudiciales cuando el equipo se utilice en un entorno comercial. Este equipo genera, utiliza y puede emitir energía de radiofrecuencia y, si no se instala y se utiliza según el manual de instrucciones, puede ocasionar interferencias perjudiciales en las radiocomunicaciones.

El uso de este equipo en un área residencial puede causar interferencias perjudiciales, en cuyo caso el usuario tendrá que corregir dichas interferencias por su cuenta.

En los casos donde se producen interferencias, se recomiendan las siguientes medidas para ayudar a mitigarlas:

- Volver a orientar o reposicionar el equipo para evitar la interferencia.
- Aumente la distancia de separación entre el equipo y la interferencia.
- Si es posible, conecte el equipo a un circuito eléctrico distinto al de las interferencias.

Los cambios o las modificaciones que no hayan sido aprobados expresamente por la parte responsable del cumplimiento pueden invalidar la autorización que se le otorga al usuario para utilizar el equipo.

Este dispositivo cumple con la Parte 15 de las Regulaciones de la FCC. El uso está sujeto a las siguientes dos condiciones: (1) es posible que este dispositivo no provoque interferencias perjudiciales y (2) este dispositivo debe aceptar cualquier interferencia recibida, incluso aquella que pueda generar un uso no deseado.

## Canada

Innovation, Science and Economic Development (ISED)

Canada ICES-003: Information Technology Equipment (including Digital Apparatus)

Canada NMB-003: Équipement de technologie de l'information (incluant les appareils numériques)

CAN ICES-3 (A)/NMB-3(A)

## Europe



**WARNING!** This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.



### **Waste Electrical and Electronic Equipment Directive**

In accordance with the European WEEE Directive, this device needs to be recycled in accordance with local regulations.

## ***RoHS Directive 2011/65/EU, 2015/863/EU***

This product is CE marked and complies with the European Union's Directive 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

EU Directive 2015/863 of 31 March 2015 (RoHS 3) amends Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances.

### Batteries Directive 2006/66/EC



This product contains a lithium coin cell battery. The crossed-out wheeled bin shown to the left is used to indicate 'separate collection' for all batteries and accumulators in accordance with European Directive 2006/66/EC. Users of batteries must not dispose of batteries as unsorted municipal waste. This Directive determines the framework for the return and recycling of used batteries and accumulators that are to be collected separately and recycled at end of life. Please dispose of the battery according to your local regulations.

#### Notice to Recyclers

##### To remove the lithium coin cell battery:

1. Disassemble printer and locate the lithium coin cell battery located on the main circuit board.
2. Using a small screwdriver, pry the battery from its holder and remove the battery from the board. Dispose of in accordance with local regulations.

## China 中国

China RoHS Hazardous Substance Table related to this product is available at [www.bradyid.com/i6100compliance](http://www.bradyid.com/i6100compliance).

### 警告

此为A级产品。在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对于干扰采取切实可行的措施。

仅适用于非热带气候条件下安全使用

仅适用于海拔2000m以下地区安全使用。

## Taiwan

#### Class A Statement

警告：為避免電磁干擾，本產品不應安裝或使用於住宅環境

Taiwan Restricted Substances Containment Status (RoHS Declaration) related to this product is available at [www.bradyid.com/i6100compliance](http://www.bradyid.com/i6100compliance).

#### Importer:

香港商貝迪香港有限公司

臺北市中山區南京東路3段101號4樓

BRADY CORPORATION HONG KONG LIMITED

4th Floor, No. 101, Section 3, Nanjing East Road, Zhongshan District, Taipei City

## Turkey

Turkish Ministry of Environment and Forestry

(Directive on the Restriction of the use of certain hazardous substances in electrical and electronic equipment).

Türkiye Cumhuriyeti: EEE Yönetmeliğine Uygundur

## Eurasian Economic Union (EAEU)

