

EQUIPMENT MANUAL



**Avery Dennison®
Pathfinder®
6059 Printer**

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Avery Dennison
170 Monarch Lane
Miamisburg, OH 45342

TABLE OF CONTENTS

GETTING STARTED	1-1
Audience	1-1
Printer Overview	1-1
About the Printer	1-2
Display.....	1-3
Using the Keyboard	1-3
Battery Safety Information.....	1-3
Recycling Information	1-3
Charging the Battery	1-4
Replacing the Battery.....	1-4
LOADING SUPPLIES.....	2-1
Loading Labels, Tags, or Receipt Paper	2-1
Loading for Non-Peel Mode	2-4
Loading for Peel Mode.....	2-6
Calibrating the Supply.....	2-8
PRINTING LABELS	3-1
Printing.....	3-1
About RFID Supplies	3-1
Entering Data	3-1
Scanning Bar Codes	3-2
Certification Note	3-2
Printing Test Labels	3-3
Printing a Checkerboard Label.....	3-3
Printing a Gray Scale Label	3-3
Printing a Serial Quality Label	3-3
Printing a Parallel Quality Label.....	3-3
Printing a Diagnostic Label	3-4
Printing an RFID Diagnostic Label	3-4
CARE & MAINTENANCE	4-1
Storing the Printer	4-1
Clearing Supply Jams	4-1
Cleaning.....	4-1
Cleaning the Printhead	4-2
Cleaning the Platen, Liner Drive, and Pinch Rollers	4-3
Cleaning the Supply Sensors	4-4
Cleaning the Display Screen and Scanner Window	4-5

TROUBLESHOOTING 5-1
 Technical Support..... 5-2
SPECIFICATIONS & ACCESSORIES A-1
 Printer Specifications A-1
 Battery Specifications A-2
 Radio Specifications A-2
 Bluetooth Specifications..... A-2
 RFID Specifications A-2
 Supply Specifications..... A-2
 Accessories A-3

GETTING STARTED

The Avery Dennison® Pathfinder® 6059 prints, scans, and collects data. The printer operates in peel mode or non-peel mode. The printer uses the Android™ 7.1 platform. The printer may contain an optional 802.11 a/b/g/n/ac WLAN plus Bluetooth 4.2 dual mode radio and an optional RFID (Radio Frequency Identification) module, which the printer uses to encode (program) an RFID inlay while printing. RFID inlays contain an embedded programmable microchip and an antenna.



RFID supplies can be damaged by static electricity. Ground yourself by touching metal before handling the RFID supplies.

This manual describes how to insert a battery, load supplies, and clean the printer. It also includes basic troubleshooting information. Your printer may contain a custom application. Avery Dennison writes custom applications. Contact your Avery Dennison Representative for more information.

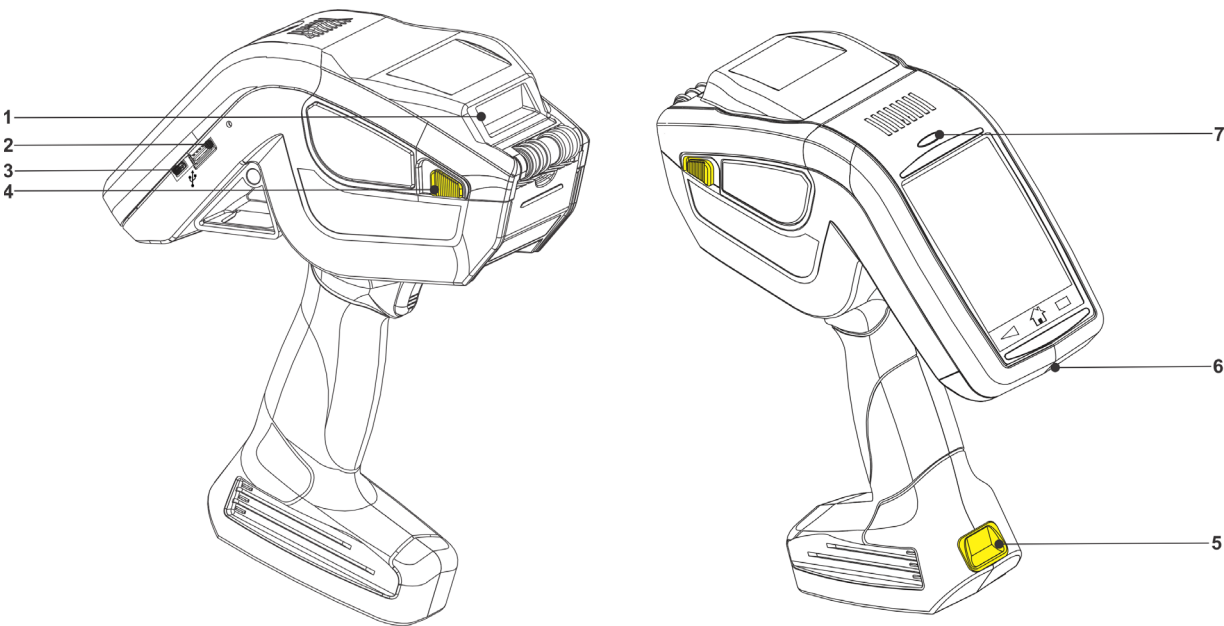
Audience

This manual is for the operator who scans or enters data to print and apply labels. For printer configuration information, refer to the *System Administrator’s Guide*. To create a format for the printer, use the Avery Dennison® *Label Design Application*.

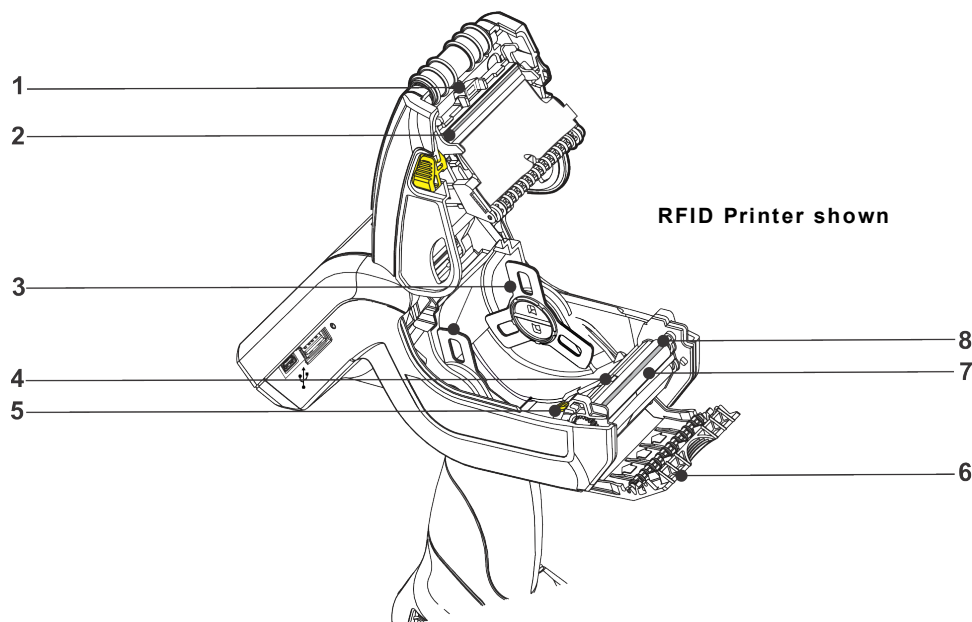
Review the *Safety Document* included with your printer and the Regulatory information found on our web site. Keep the box and packaging materials in case the printer ever needs repair.

Printer Overview

User touch parts are yellow.



1	Scanner	5	Battery Release
2	USB Type A host	6	Power Button
3	Mini-B Device	7	Scanner LED
4	Latch Button		



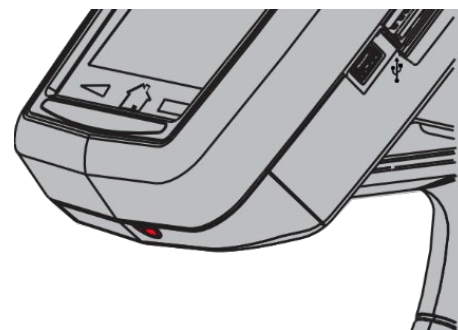
1	On-Demand Sensor	4	Supply Lock Tab
2	Printhead	5	Label Deflector
3	Supply Holder Tabs	6	Platen Roller (black rubber)
4	Black Mark Sensor	7	Peel Bar (metal)





About the Printer

The power button is red. Press and hold the power button to turn off or restart the printer, then select the option you need.

The printer has a touch screen display. Use your finger (or a stylus) to select options. To scroll within in a menu, quickly swipe with your finger. You can also slightly press while swiping up or down. A quick tap always launches the selected item.

When the printer is turned on, swipe up the screen to unlock. The display has several icons:



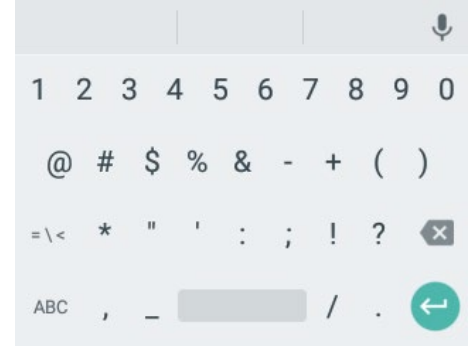
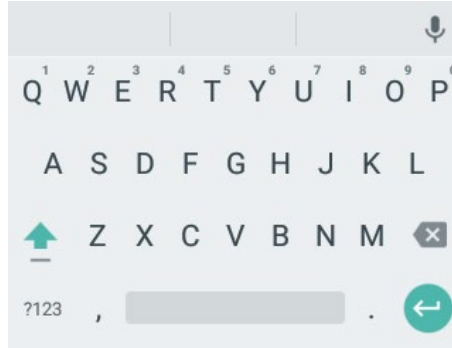
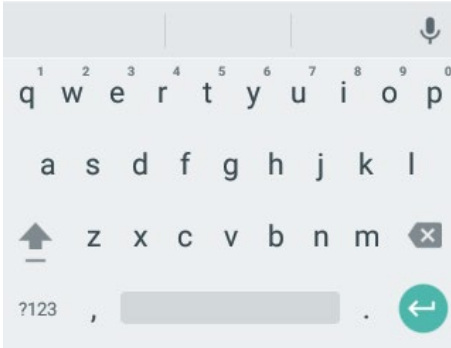
Key	Description
	Back - returns to the previous screen/menu
	Home – user sees the Home screen.
	Overview – opens thumbnails of recently used applications, which allows you to switch tasks easily.
	Apps – shows your applications and widgets.

Display

The display's status bar shows the battery voltage, connection type, wireless signal strength, etc. similar to the icons on mobile phones.

Using the Keyboard

To enter data on the printer, the following keyboards are available:



Battery Safety Information

See Appendix A, "[Specifications & Accessories](#)" for the replacement battery part number and recommended operating/storage temperatures for the battery.

- ◆ Charge the battery before using it. For optimal battery life, charge the battery within three months of receipt.

Warnings: Do not substitute batteries. Charge the battery using one of the Monarch® chargers listed in Appendix A, "[Specifications & Accessories](#)."
The battery might explode if placed on a different charger.

Do not disassemble, short-circuit, heat above 80°C, or incinerate the battery; it may explode.

- ◆ The printer uses battery power even when it is not printing. Turn off the printer when it is not in use. Take the battery out of the printer when storing the printer for a month or longer. The battery should be charged before long-term storage or after the battery has been exhausted from a printing session. Frequent charging actually prolongs battery life and has no negative effects such as memory loss.
- ◆ **Do not** let the battery come into contact with metal objects.
- ◆ **Do not** use a battery with a cracked case.
- ◆ **Do not** get the battery wet.
- ◆ It is normal for battery capacity to decrease up to 20% over the first 300 cycles of use.

Recycling Information

Do not throw in the trash. Recycle according to your local regulations.

The Rechargeable Battery Recycling Corporation (RBRC®) is a non-profit organization created to promote recycling of rechargeable batteries. For more information about how to recycle batteries in your area, visit **www.rbrc.org**. Batteries can also be returned postage-paid to:

Avery Dennison ERC; 200 Monarch Lane; Door #39; Miamisburg, OH 45342

Charging the Battery

The printer uses a 7.4V lithium-ion battery. The printer also uses a coin cell backup battery, which is not customer replaceable. The backup battery keeps the printer's real time clock settings.

Charge the battery when you receive the printer, even if you do not use the printer right away.

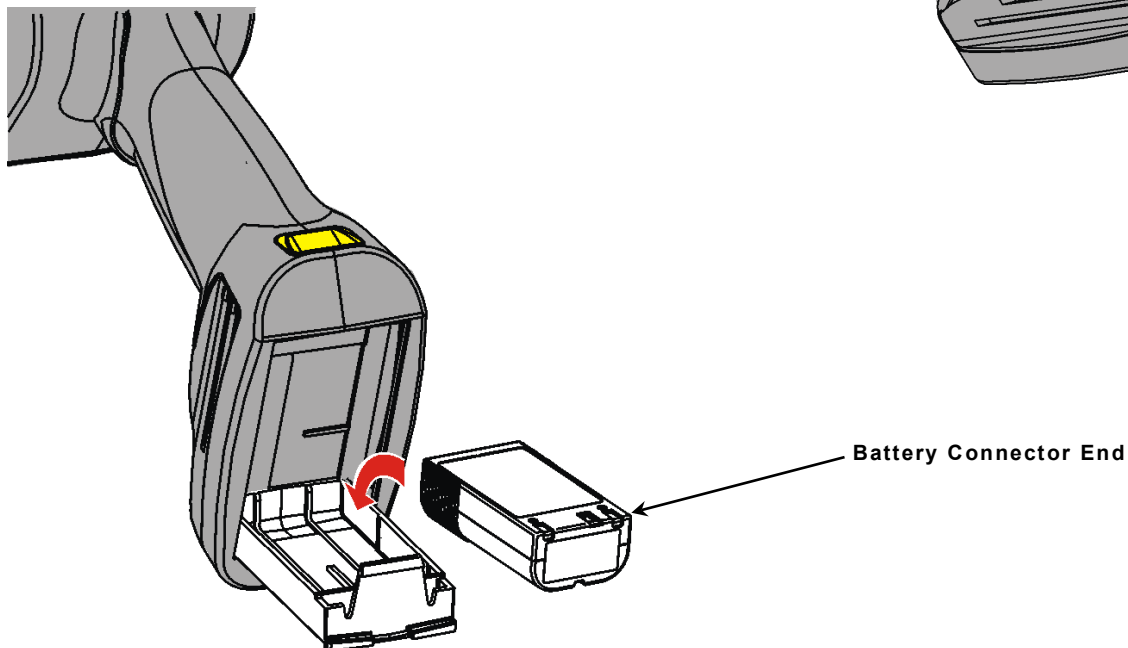
Warning: Do not substitute batteries.
Charge the battery using one of the Monarch® chargers listed in Appendix A, "[Specifications & Accessories](#)." The battery might explode if placed on a different charger.

Charging time is approximately 1 – 3 hours. Refer to the documentation provided with the chargers for more information.

Replacing the Battery

To change the battery:

1. Hold the printer upright with one hand and press the battery release button on the handle with your other hand.
2. The battery compartment door opens slightly. Use your finger to open the door.
3. Remove the battery.
4. Insert a new battery (label side up) into the compartment (connector end last).



5. Close the compartment door until it clicks into place.

LOADING SUPPLIES

2

The printer uses three types of supplies:

- ◆ Labels (RFID and non-RFID). Load supplies for peel or non-peel mode.
- ◆ Tags. Load supplies for non-peel mode.
- ◆ Receipt paper (fax paper). Load supplies for non-peel mode.

The printer has two print modes.

- ◆ [Peel mode](#) removes the backing paper from the supplies as it prints the labels. This mode allows you to apply the label immediately. It is only for labels. Press the trigger to print a label or the next label prints automatically when the previous one is removed.
- ◆ [Non-Peel mode](#) does not remove the backing paper. It is for supplies printed in a continuous strip.

Before printing, your System Administrator may need to set the sensor type; refer to the *System Administrator's Guide*.

When you load a new roll of supplies, check the battery's power, if it is low, switch to a fully charged battery.

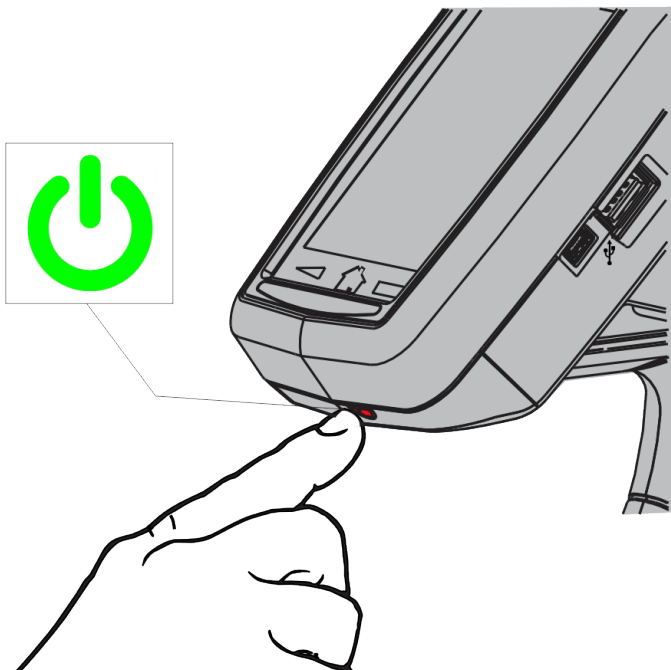


RFID Supplies can be damaged by static electricity. Ground yourself by touching metal before handling the RFID supplies.

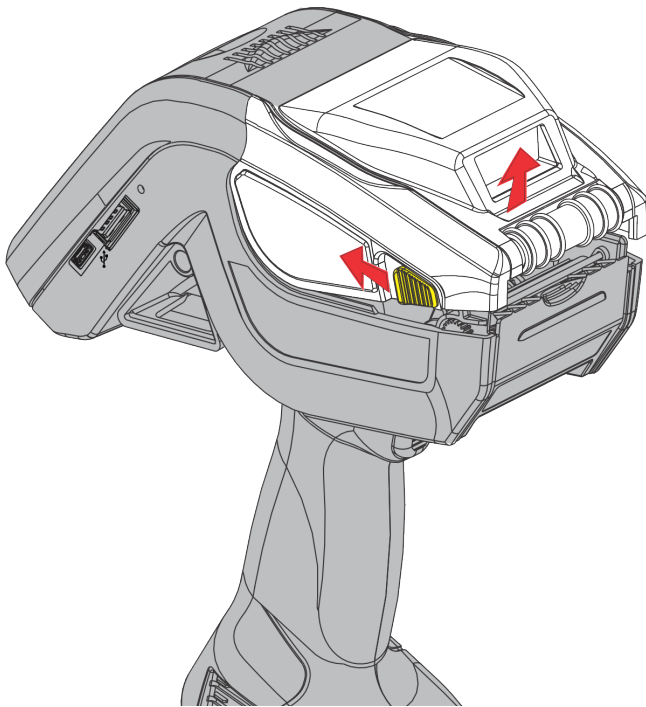
Loading Labels, Tags, or Receipt Paper

To load supplies:

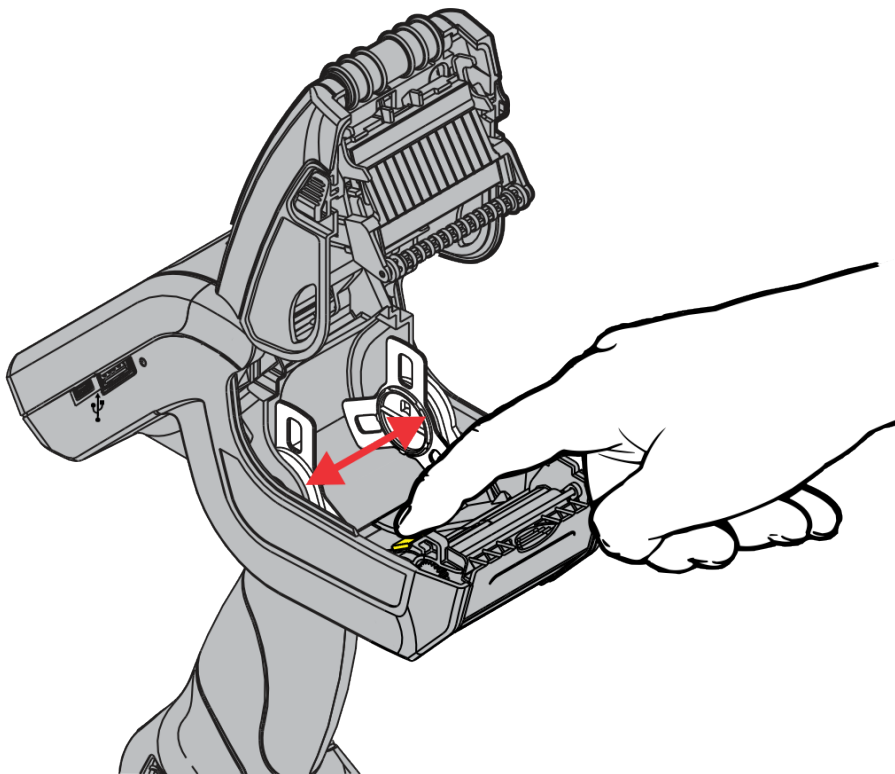
1. Turn on the printer. Swipe up the screen to unlock.



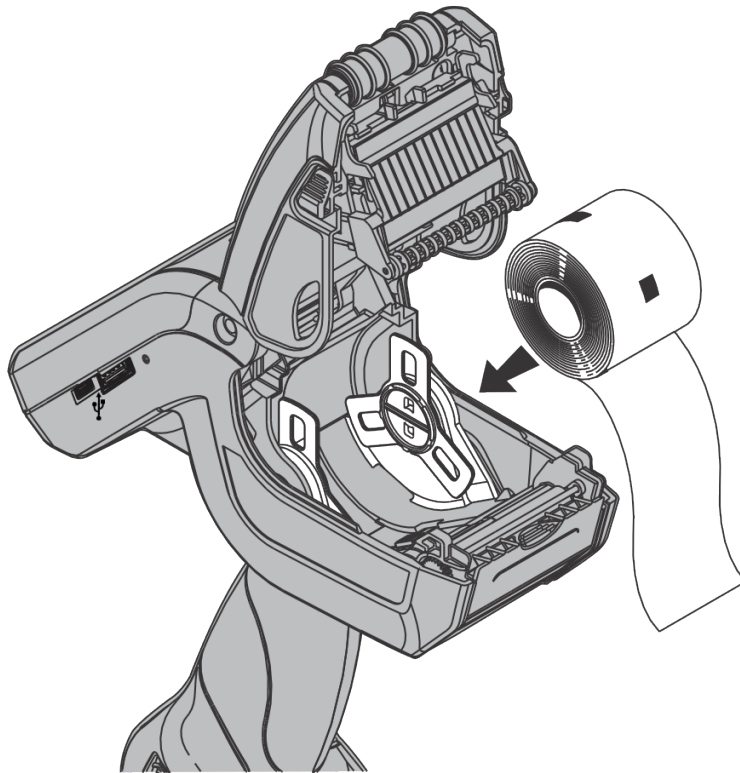
2. Push the latch buttons to open the supply cover.



3. Spread the supply holder tabs apart with one hand so it adjusts to the size of your supply roll.
4. Press the supply lock tab all the way down (towards the inside of the printer) to lock the supply holder at 1.2". Adjust it to the middle position to lock the supply holder at 1.5". Adjust it all the way up (towards the opening of the printer) to lock the supply holder at 2.0".



5. Place the supply roll in the supply holder so the supply unrolls from the bottom.



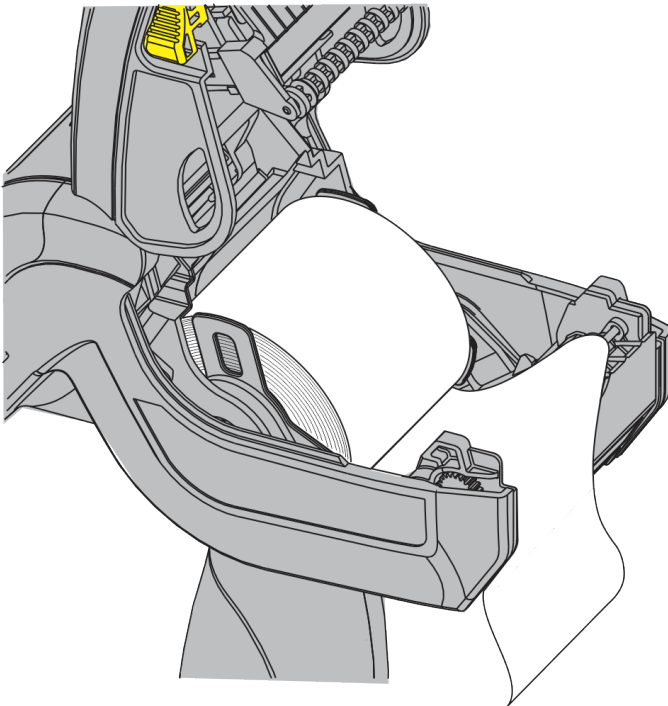
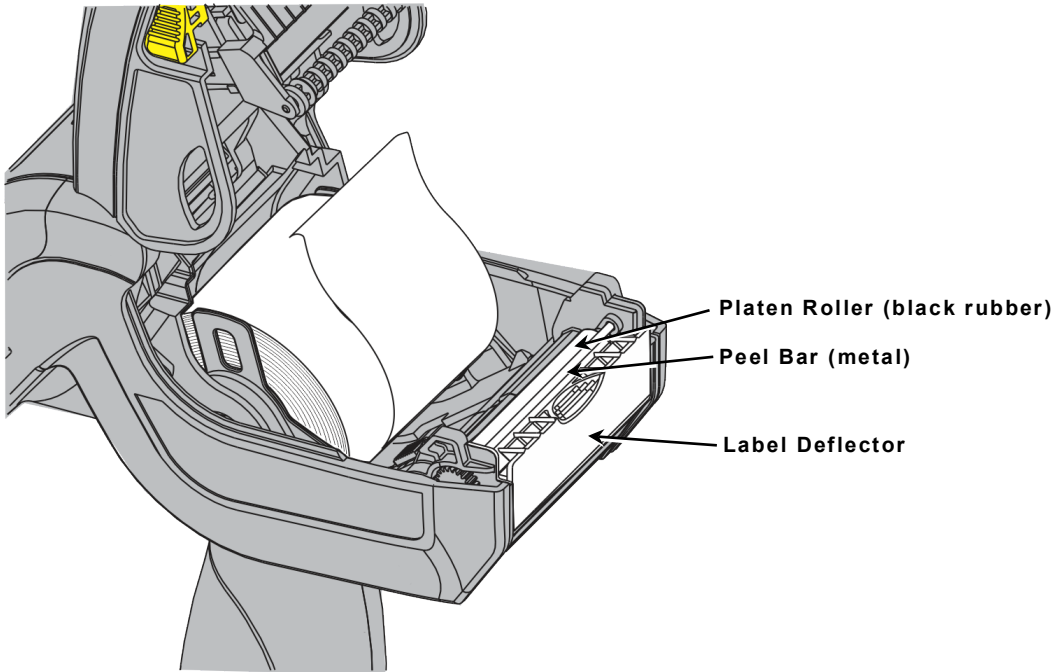
6. Continue loading supply for the printing mode you need: [peel](#) or [non-peel](#).

Loading for Non-Peel Mode

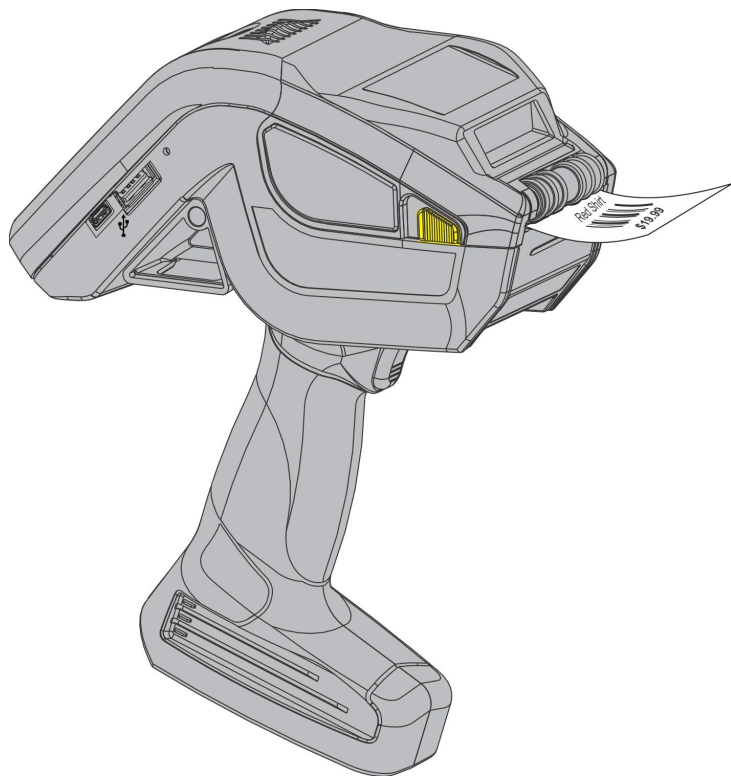
Non-Peel mode does not remove the backing paper – supplies are printed in a continuous strip.

Follow the steps in [Loading Labels, Tags, or Receipt Paper](#), then:

1. Feed the supply **over** the platen roller, peel bar, and label deflector.



2. Close the supply cover.



3. Calibrate the supply. See “[Calibrating the Supply](#)” for more information.

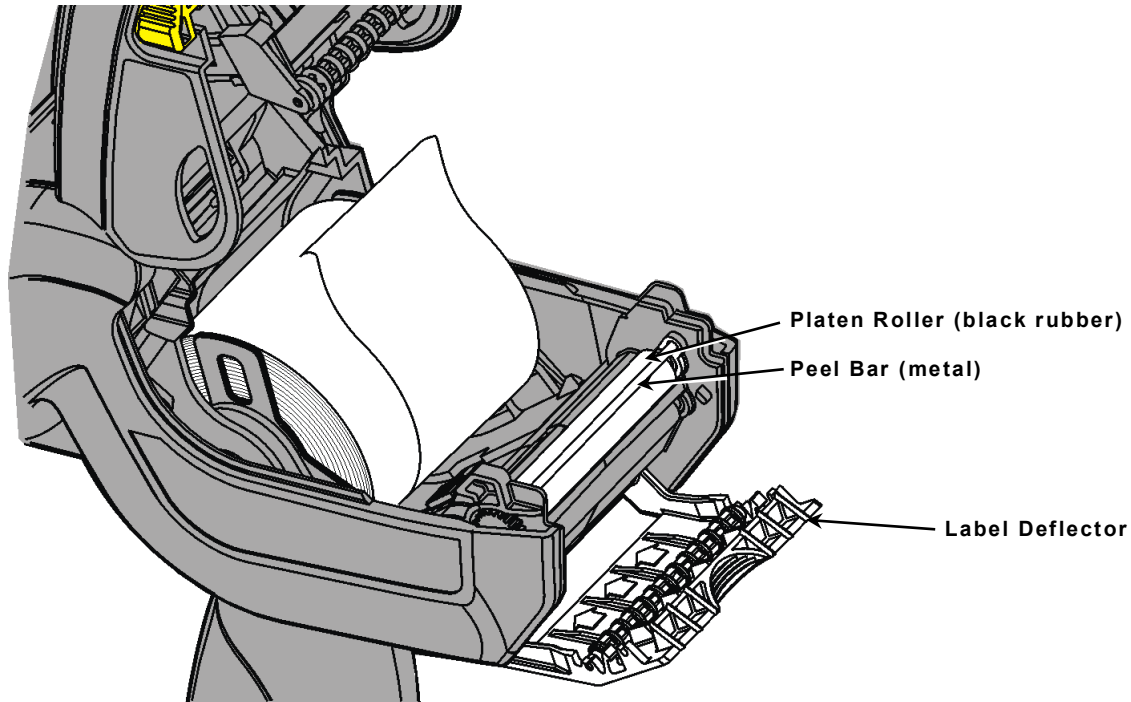
The printer is ready to print supplies.

Loading for Peel Mode

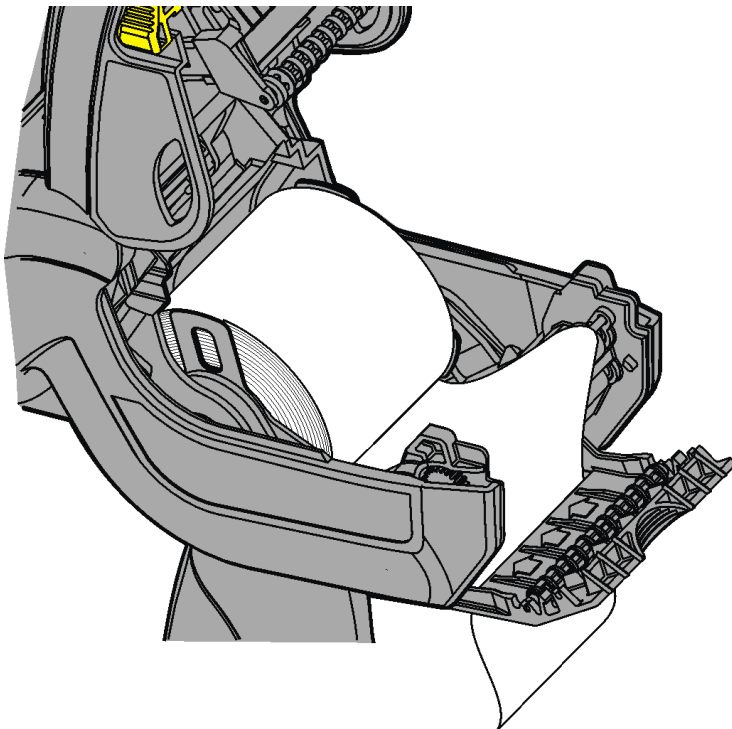
Peel mode removes the backing paper from the supplies while printing. Apply the label with steady pressure (not force).

Follow the steps in Loading Labels, Tags, or Receipt Paper, then:

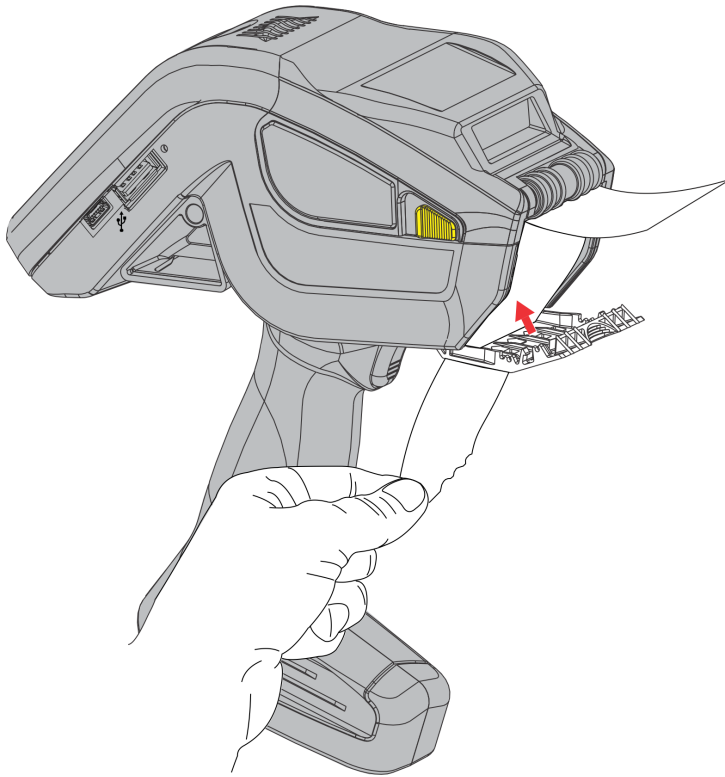
1. Peel and discard the first four inches of labels from the backing paper.
2. Hold the printer upright and gently push down on the label deflector.



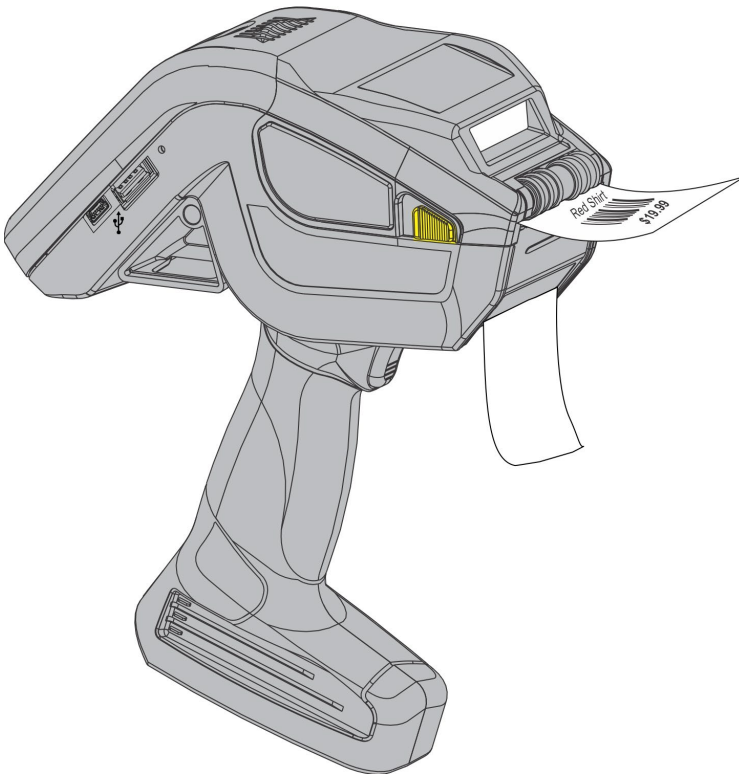
3. Feed the backing paper **over** the peel bar and through the slot at the base of the label deflector.



4. Close the supply cover.



5. Hold the backing paper and push up the label deflector until it snaps into place.
6. Close the supply cover.



7. Calibrate the supply. See "[Calibrating the Supply](#)" for more information.
The printer is ready to print supplies.

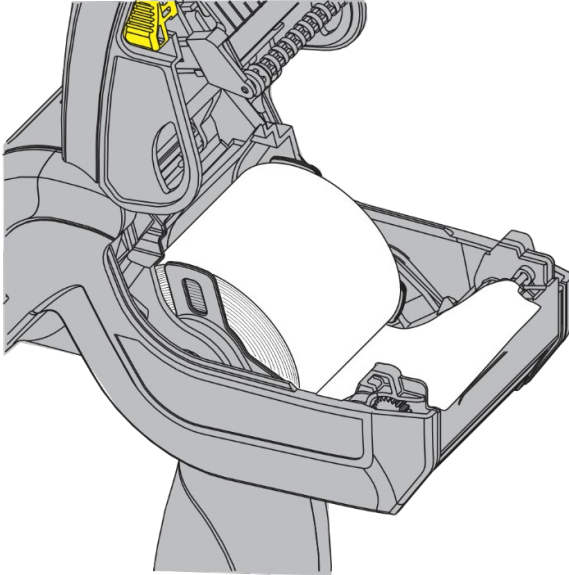
Calibrating the Supply

Calibrate the supply

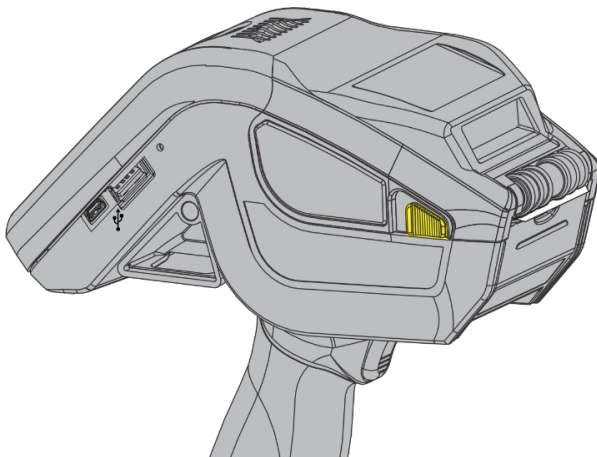
- ◆ on initial printer setup
- ◆ whenever the supply is changed (from black mark to die cut or vice versa)
- ◆ if using labels with a different color backing (besides white).

Your printer may have a custom application that automatically calibrates supply. The calibration technique is the same for **all** supply types. If the printer fails calibration, call Technical Support.

1. Open the printer and lay the supply over the label deflector. It does not matter if a black mark is over the black mark sensor or not.



2. Close the supply cover.



In the *Printer Setup Application*, select **Supply**, then **Calibrate Blackmark sensor** or **Calibrate On-Demand sensor**:

When calibrating the black mark sensor, three labels are used for calibration. The printer feeds a blank label, looking for the sense mark. The second label is used to verify the black mark. The third label prints a message if the calibration is successful. *When calibrating the on-demand sensor*, the printer feeds a label looking for and calibrating the die cut. Then, the printer prints a message if the calibration is successful.

PRINTING LABELS

3

This chapter explains how to

- ♦ print labels
- ♦ scan barcodes
- ♦ print test labels.

Note: Before printing, your System Administrator may need to adjust the print contrast or print position. Refer to the *System Administrator's Guide* for more information. Your printer may have a custom application that automatically sets these values.

Printing

Solid black print cannot exceed 30% of any given square inch of the supply. Use a fully charged battery for printing. When and how you print depends on your printer's application. It may print

- ♦ only after you press a certain key
- ♦ automatically as soon as you squeeze the trigger
- ♦ automatically with no input from you
- ♦ one label or a strip of labels
- ♦ after you scan a barcode.

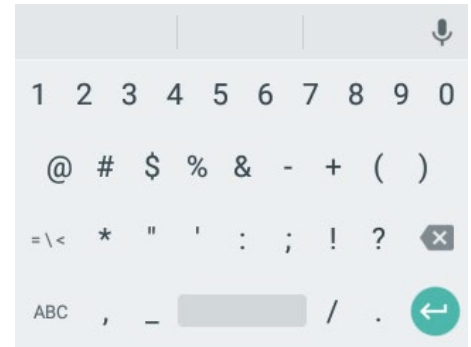
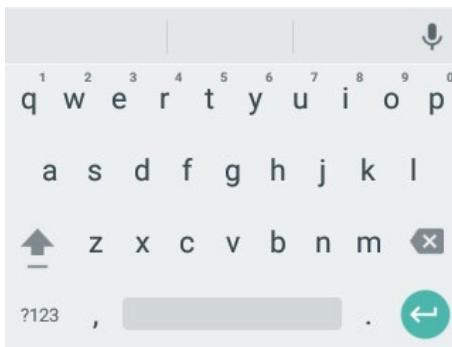
About RFID Supplies

RFID requires special settings to program (encode) the inlay. Your System Administrator should use the RFID Printer Setup Utility to determine the settings and enter them in the Printer Settings Application. Refer to the *System Administrator's Guide* for more information.

Note: Printing over the RFID inlay causes printing irregularity and may impact bar code print quality.

Entering Data

If your application requires you to enter data, the printer displays the standard keyboard.



Depending on your application, data may be entered or scanned.

Scanning Bar Codes

Your printer has a built-in two dimensional scanner.

To scan a bar code:

1. Point the scanner at a slight angle, approximately 4 – 8 inches from the bar code symbol.
2. Press the trigger or other key specified by your System Administrator.

Caution: Do not stare into the beam.

The scanner LED is above the display.

Scanner LED	Description
Green	Successful scan.
Yellow	Unsuccessful scan.

If the bar code does not scan:

- ♦ Change the scanner's angle slightly and try again.
- ♦ Clean the scanner window. See "Cleaning" in Chapter 5 for more information.
- ♦ Move the scanner 4 – 8 inches away from the bar code. Adjust this distance as needed to find the correct distance.
- ♦ Try scanning another bar code that you have scanned successfully. If that scan is successful, the scanning problem is with the bar code.
- ♦ Move to a more dimly lit area.
- ♦ Ensure there are no voids (streaks) in the bar code symbol.

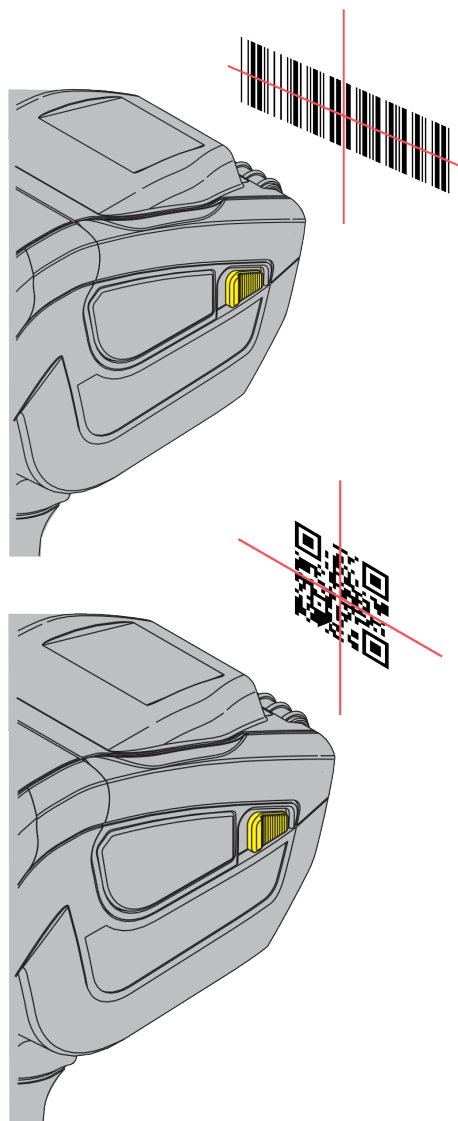
If the scan is still unsuccessful, ask your System Administrator to perform a scanner test.

Certification Note

This product is certified to be a Class II laser product with the United States DHHS Center for Devices and Radiological Health and complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser Notice No. 50, dated July 26, 2001, The scanner emits less than a 2.0 milliwatt beam of laser light from the scanning window. Laser light in excess of Class I limits must be inside a protective cover. No maintenance is required to keep this product in compliance with EN 60825, IEC60825, and DHHS Regulation 21, Subchapter J. No controls are provided for operation or maintenance.

Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

Class II laser scanners use a low power, visible light diode. As with any very bright light source, the user should avoid staring directly into the light beam. Momentary exposure to a Class II laser is not known to be harmful.



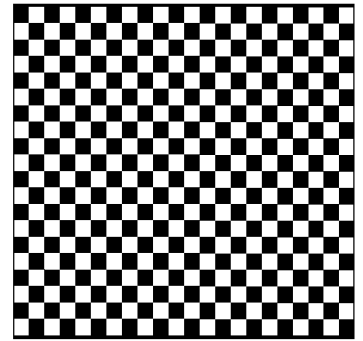
Printing Test Labels

Several test label options are available in the *Printer Setup Application*. Before you run these tests, load the supply in Non-Peel mode.

Printing a Checkerboard Label

Select **Energy**, then **Print Checkerboard Label**. This label verifies the printhead strobes are working.

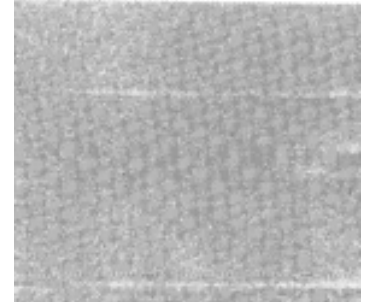
If the printed sample has fewer lines or no lines, keep the sample and call Technical Support.



Printing a Gray Scale Label

Select **Energy**, then **Print Gray Scale Label**. This label checks the uniformity of the printing. The printed sample should be uniformly gray across the supply.

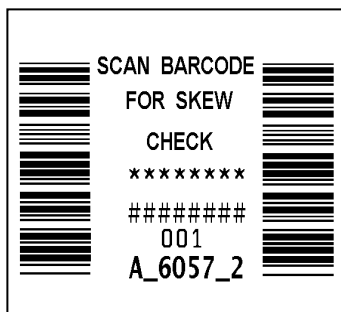
If you see voids, especially on the edges, keep the sample and call Technical Support.



Label with voids

Printing a Serial Quality Label

Select **Energy**, then **Print Serial Quality Label**. This label prints serial bar codes for you to scan to check the quality of serial bar codes.



Printing a Parallel Quality Label

Select **Energy**, then **Print Parallel Quality Label**. A label prints parallel bar codes for you to scan to check the quality of parallel bar codes.



Printing a Diagnostic Label

Select **Energy**, then **Print Diagnostic Label**. The first information label shows the model number, core version, print engine version, total inches, battery voltage, and printhead dot information. The second information label shows the current sensor, supply position, contrast, speed, and network information.

M06059BA2R	Diagnostics Info	Settings Diagnostics Info	
Core Version	B1.08.00	Sensor	Black Mark
Print Engine Version	P2.3.0.0.2	Supply Position	0
Total Inches	00000490	Contrast	0
Hi-Energy Inches	00000000	Speed	Default (2.0 IPS)
Battery	8.156V (97%)	Network Diagnostics Info	
PH Dot Resist Avg	358	IP Address	000.000.000.000
Bad Dot Count	0	MAC Wired	
		MAC Wireless	00:00:00:0A:40:7E

Printing an RFID Diagnostic Label

Select **Energy**, then **Print RFID Diagnostic Label**. The RFID diagnostic label displays the module type, read and write power settings and the region.

RFID Diagnostics	
RFID Impinj Module	1.6.8.240
Read Power	-15
Write Power	-15
RFID Region	ETSI

CARE & MAINTENANCE

4

This chapter tells you how to

- ◆ store the printer
- ◆ clear supply jams
- ◆ clean the printhead, platen roller, sensors, and scanner window.

Storing the Printer

The recommended storage temperature is listed in Appendix A. **Do not** store the printer in or near

- ◆ magnetic fields
- ◆ wet, damp, dirty, or dusty areas
- ◆ areas of intense vibration or shock.

Clearing Supply Jams

To clear a supply jam:

1. Turn off the printer and completely open the supply cover.
2. Open the label deflector by gently pushing down on the label deflector.
3. Remove the supplies.
4. Carefully remove any jammed supply. **Do not** pull the jammed supply out through the front of the label deflector. **Do not** use sharp objects to remove jammed supplies.
5. Clean any adhesive build-up.
6. Reload the supplies, close the supply cover, and close the label deflector.

Cleaning

Do not use sharp objects or household cleaners to clean the printer. Clean the exterior, printhead, platen roller, and black mark sensor:

- ◆ when there is any adhesive build-up in the supply path.
- ◆ after using 7-10 rolls of supplies.
- ◆ when printing in extreme temperatures, humid conditions, or a dirty environment.
- ◆ after clearing a supply jam.
- ◆ if there are voids or streaking in the print as shown.



Voids



Streaks

Cleaning the Exterior

Clean the printer's exterior using an Isopropyl Alcohol and deionized water mixture; we recommend pre-moistened wipes.

Do not use other detergents/cleansers, they can deteriorate plastics and cause printer failure.

Do not spray liquids on the printer, it can get inside and damage electronics.

Improper cleaning methods and materials can cause failures, which are not covered under warranty.

Cleaning the Printhead

The following actions may damage the printhead:

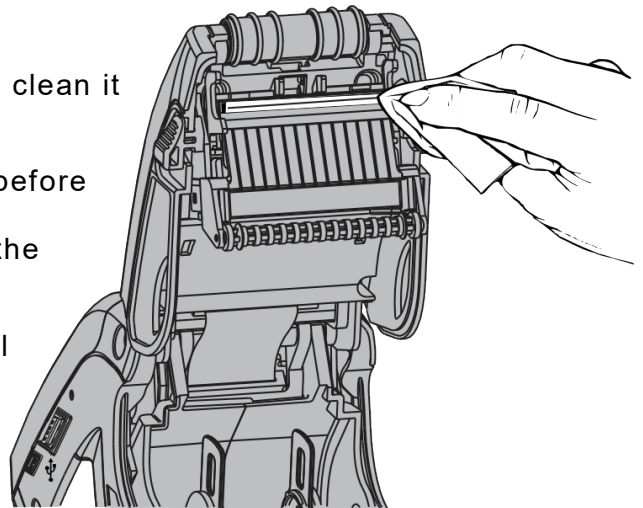
- ♦ **Do not** use silicone to clean or lubricate.
- ♦ **Do not** use sharp objects to remove adhesive or label particles from the printhead area.
- ♦ **Do not** touch the printhead with your fingers.

To clean the printhead:

1. Turn off the printer.
2. Open the supply cover and remove the supplies.
3. Check the supply holder for adhesive buildup and clean it if necessary.

Note: Ground yourself by touching a metal object before cleaning the printhead. Grounding prevents electrostatic discharge, which may damage the printhead.

4. Clean the printhead area of all adhesive and label pieces using a Cleaning Pen or a soft cloth moistened with isopropyl alcohol. Let the printhead dry.
5. Reload the supply roll and close the supply cover.
6. Turn on the printer.



Cleaning the Platen, Liner Drive, and Pinch Rollers

Clean these rollers when you see adhesive build-up or when a label is wrapped around them.

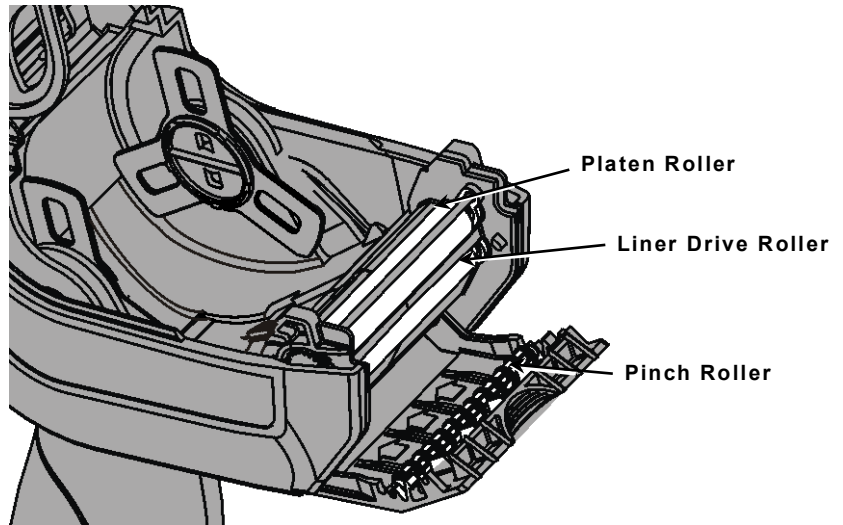
1. Turn off the printer, open the supply cover, and open the label deflector.
2. Remove the supplies.

3. Hold the printer upright and gently push down on the label deflector. It may be stiff.

4. Use a dry, soft-bristle brush, such as a toothbrush, to clean the rollers.

If the brush does not remove all adhesive, moisten a cotton swab with isopropyl alcohol and run the cotton swab across the roller. Wait a few minutes for the printer to dry.

5. Reload the supplies, close the label deflector and supply cover.
6. Turn on the printer.

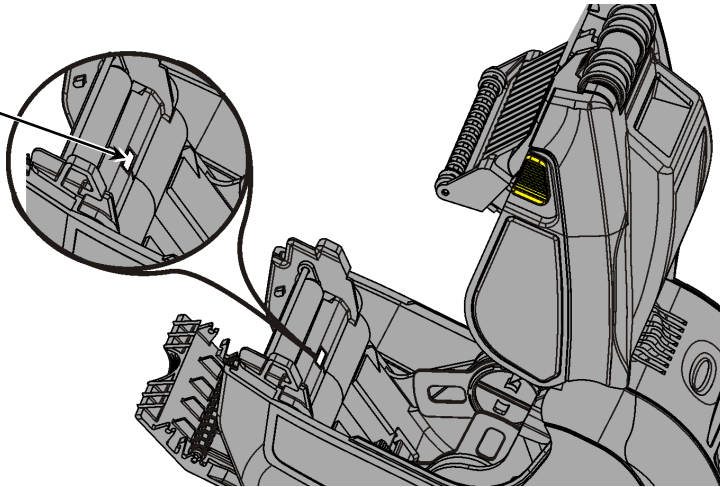


Cleaning the Supply Sensors

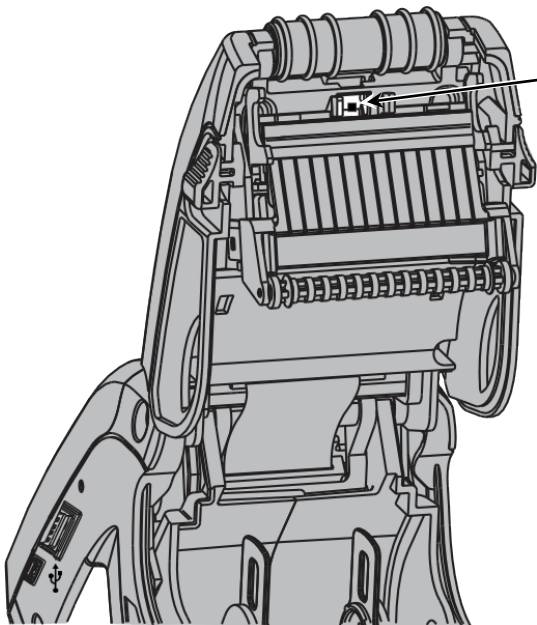
To clean the supply sensors:

1. Turn off the printer and open the supply cover.
2. Remove the supplies.
3. Open the label deflector by gently pushing down on the label deflector.
4. Clean the black mark sensor and on-demand sensor with a dry cotton swab.

Black Mark
Sensor



On-Demand Sensor



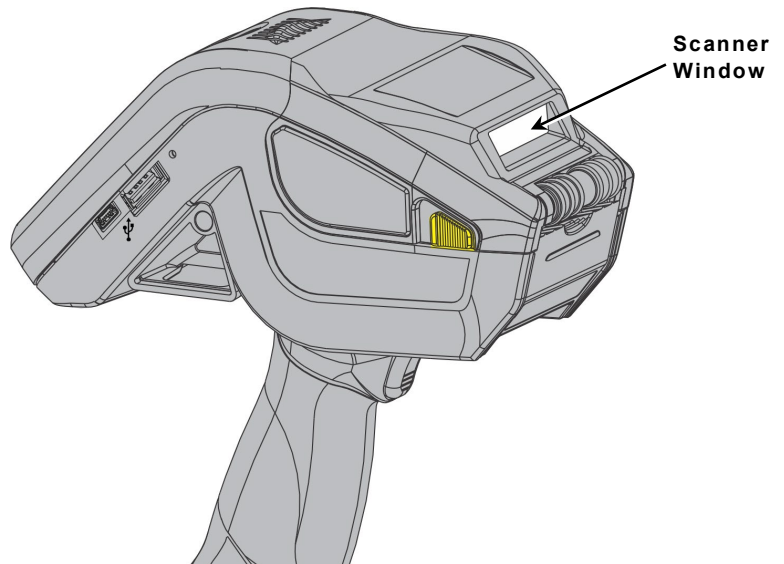
5. Reload the supplies.
6. Close the supply cover and the label deflector.

Cleaning the Display Screen and Scanner Window

Make sure the printer is turned off when cleaning the display and scanner window. Slightly dampen a soft cloth with distilled water and *gently* wipe the display and the scanner window.

Do not use household cleaners on the display or scanner window.

Do not press too hard on the scanner window – it may move or crack.



TROUBLESHOOTING

This chapter lists some common printer problems and their solutions.

Problem	Solution
Printer does not feed.	<p>Switch to a fully charged battery.</p> <p>Close the supply cover completely.</p> <p>Load the supply correctly. See Chapter 2, "Loading Supplies" for more information.</p> <p>Check the platen roller for jammed labels.</p> <p>Make sure the pinch roller is in place.</p>
Printer does not print.	<p>Switch to a fully charged battery.</p> <p>Load the supply correctly. See Chapter 2, "Loading Supplies" for more information.</p> <p>Clean the printhead. See "Cleaning the Printhead" for more information.</p>
Print has voids or is too light.	<p>Load the supply correctly. See Chapter 2, "Loading Supplies" for more information.</p> <p>Close the supply cover completely.</p> <p>Switch to a fully charged battery.</p> <p>Clean the printhead. See "Cleaning the Printhead" for more information.</p> <p>Check the supply for damage or defects.</p>
Printer partially prints on the supply and fails to respond to the keypad or trigger.	<p>Load the supply correctly or load new supplies, if necessary. See Chapter 2, "Loading Supplies" for more information.</p> <p>Clear any supply jams.</p> <p>Clean the printhead. See "Cleaning the Printhead" for more information.</p> <p>Switch to a fully charged battery.</p>
Scanner does not scan a bar code.	<p>See "Scanning Bar Codes" for more information.</p>
<p>The display does not turn on.</p> <p>A label with an overstrike pattern prints.</p>	<p>Make sure the power is on.</p> <p>Switch to a fully charged battery.</p> <p>The RFID inlay failed to encode. See your System Administrator.</p>

This section lists common error codes and their descriptions.

Code(s)	Description
004 - 005	Supply size is incorrect. Load the correct supplies.
267 – 271 410 - 413	Communication error. See your System Administrator.
703 - 704	Supply Error. Load supplies or make sure they are loaded correctly. See Chapter 2, “ Loading Supplies ” for more information.
706	Remove any jammed supplies. See “ Clearing Supply Jams ” for more information. If the supply is not jammed or you have removed the jam, and the error continues, see your System Administrator.
727 - 744	RFID Errors. See your System Administrator. When the printer cannot program an inlay, it prints an overstrike pattern on the label. The overstrike pattern prevents someone from using a bad label.
750	Printhead is overheated. Turn off the printer to let it cool.
751 - 753	The printer sensed a problem with a mark on the supplies. Check the supplies to see if they are loaded correctly.
756	The printer is out of supplies. Load supplies. See Chapter 2, “ Loading Supplies ” for more information.
757	The calibrated supply length differs by plus or minus .25 inches from the format. Load supplies.
758	Check supply. Remove any printed labels. Check for a label jam. Clear the supply path or reload supplies.
762	Low battery. Recharge the battery. See “ Charging the Battery ” for more information.
763	Waiting to dispense label. Press the trigger.
768	Printhead error. See your System Administrator.
790 - 791	The printer is busy or has an error pending. Turn off the printer, wait two seconds, and then turn it back on.
904 – 911	System error. See your System Administrator.
SYSTEM ERROR VECTOR ##	System error. See your System Administrator.

Technical Support

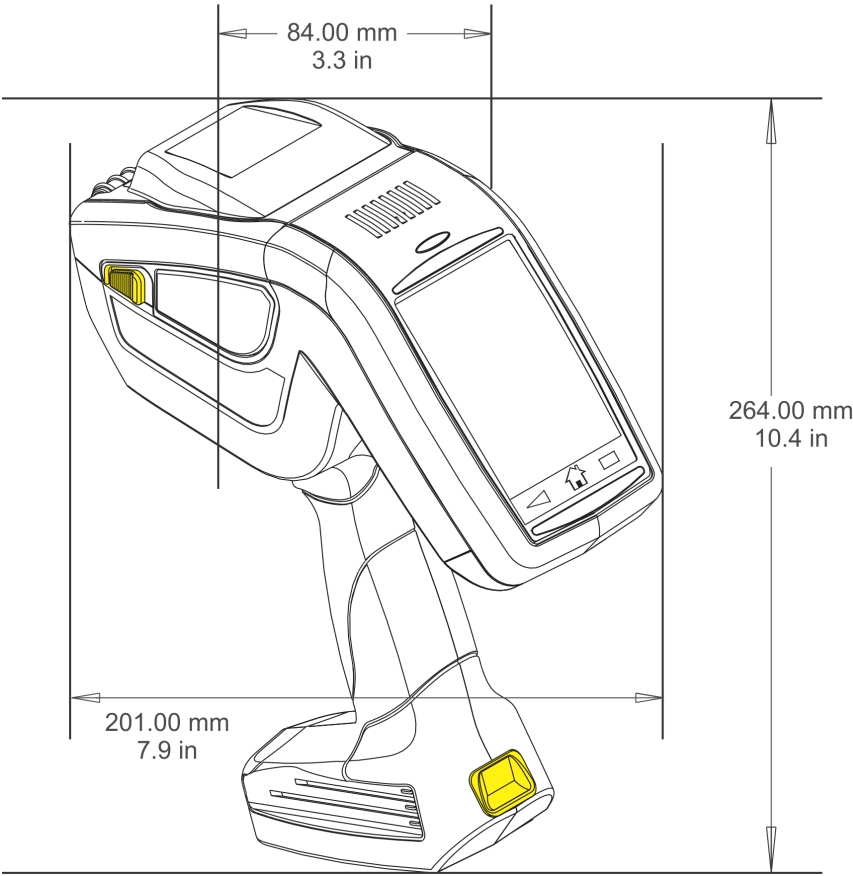
If these solutions do not work or you have a problem or error code not listed, see your System Administrator or call Technical Support. Before calling Technical Support, print a test label.

SPECIFICATIONS & ACCESSORIES



Printer Specifications

Dimensions:	Width – 3.3" (84 mm)
	Height – 10.4" (264 mm)
	Depth – 7.9" (201 mm)
	Weight – 2.0 lbs. (908 g) no supply or battery
	Shipping Weight – 5.9 lbs. (2.6 kg)



Display:	Capacitive touch with three context-sensitive buttons.
Printhead:	1.89" (48mm/384 dots) (203 dots per inch)
Printing:	Thermal direct (no ink /ribbon)
Print Speed:	Up to 4" (101.6 mm) per second
Memory:	2 GB RAM; 4 GB NAND Flash
Operating Temperature:	40°F – 110°F (4°C – 43°C)
Humidity (Operating & Storage):	5% – 90% non-condensing

Battery Specifications

Battery Type:	7.4V Lithium-Ion Two 3.6V Lithium-Ion (internal; not replaceable) one internal battery backs up the real-time clock
Battery Recharge Time:	1 – 3 hours, depending on the charger used. The optimal battery storage temperature is 50°F to 73°F (10°C to 23°C), with a maximum of 104°F (40°C). The battery may permanently lose its charge capacity if stored at temperatures less than 32°F (0°C) or greater than 104°F (40°C). For longest life, the battery should be stored in a cool, dry place. Many factors affect your battery's performance, including the quantity of labels printed, percentage of black per label, and battery life.
Charging Temperature	68°F to 77°F (20°C to 25°C)

Radio Specifications

Radio	802.11 a/b/g/n/ac WLAN plus Bluetooth 4.2 dual mode
Bands	2.4GHz and 5GHz RF Bands

Bluetooth Specifications

Version	802.11 a/b/g/n/ac WLAN plus Bluetooth 4.2 dual mode (Bluetooth 2.1 +EDR mode and 4.2 Bluetooth mode)
Band	2.4GHz Band

RFID Specifications

Antenna Frequency Bands	900 MHz to 930 MHz band (FCC) 865 MHz to 869 MHz band (European Union)
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Supply Specifications

Supply Sizes:	Widths: 1.2", 1.5", and 2.0" (30mm, 38mm, and 51mm) adjustable between 1.2 – 2.0" (30 mm – 51 mm) Lengths .55" – 8.0" (14mm –203mm) Peel mode supports .785" (20 mm) or greater lengths. Non-Peel mode supports .55" (14mm) or greater lengths.
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Accessories

The following accessories are available:

Part Number	Description
M09462	Single-Station Battery Charger
M09465	Four-Station Battery Charger
114226	Cleaning Pen
M06054	Network Control Module Use one module with up to four 6055 Docking modules
M06055	Docking Module Connects to the Network Control Module. Holds the printer, charges the battery while inside the printer, and allows Ethernet communication with the printer.
130606	Deluxe Hand Strap
130605	Shoulder Strap
130604	Petite Wrist Strap
125859	USB Cable
12009502	Extra Battery

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