

Avery Dennison® Pathfinder® Edge™ Equipment Manual

June 2026



TCPFEDGEEM Rev AA 6/26



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Outside the U.S., send batteries to:

EMEA, 4 Awberry Court, Croxley Business Park, Hatters Lane, Watford, WD18 8PD

Avery Dennison
170 Monarch Lane
Miamisburg, OH 45342

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1. Getting Started

The Avery Dennison® Pathfinder® Edge™ prints, scans, and collects data. The printer operates in peel mode or non-peel mode. The printer uses the Android™ 15 platform. The printer contains an IEEE 802.11 a/b/g/n/ac/ax WLAN and Bluetooth® 5.3 dual mode radio.

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

Review the Regulatory information, printer's Safety sheet, and the *Battery (135484) Use & Care Instructions* found on our Web site: avydn.co/pathfinder-edge-printer.

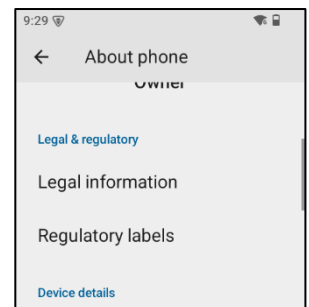
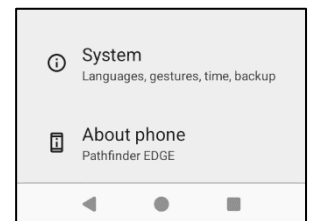
Additional manuals can be found on our Web site.

Keep the box and packaging materials in case the printer ever needs repair.

Regulatory eLabeling

The printer displays regulatory electronic labeling information.

1. Open the **Settings** application.
2. Scroll and tap **About Phone**.
3. Scroll and tap **Regulatory Labels**.
4. The regulatory label appears.



Printer Overview



1	USB Type C	5	Scanner
2	Trigger	6	Scanner Status LED
3	Battery Release	7	Power Button
4	Latch Button		

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 to select options. To scroll within 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.

Display

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

Use the standard Android Settings app to make changes to the screen brightness, setting the date/time, notifications, WiFi, etc. This manual does not address the Android Settings application.

Using the Printer's Battery

The printer uses a replaceable, rechargeable 7.26V lithium-ion battery. The printer also uses a coin cell backup battery to keep the printer's real time clock settings.

See Appendix A, "[Specifications & Accessories](#)" for the replacement battery part number.

Warnings: Do not substitute batteries. Risk of fire or explosion if the battery is replaced by an incorrect type. Dispose of used battery promptly. Keep away from children. Charge the battery using the Avery Dennison® Pathfinder® Edge™ charger listed in Appendix A, "[Specifications & Accessories](#)."

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.

Recycling Information

Do not throw batteries in the trash. Recycle according to your local regulations. For more information about how to recycle batteries in your area, visit www.call2recycle.org.

Batteries can also be returned postage-paid to:

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

Charging the Battery

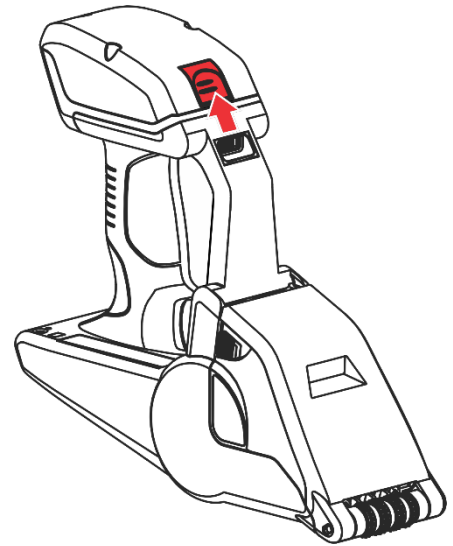
Charge the battery using the Avery Dennison® Pathfinder® Edge™ charger listed in Appendix A, "[Specifications & Accessories](#)".

Refer to the documentation provided with the chargers for more information.

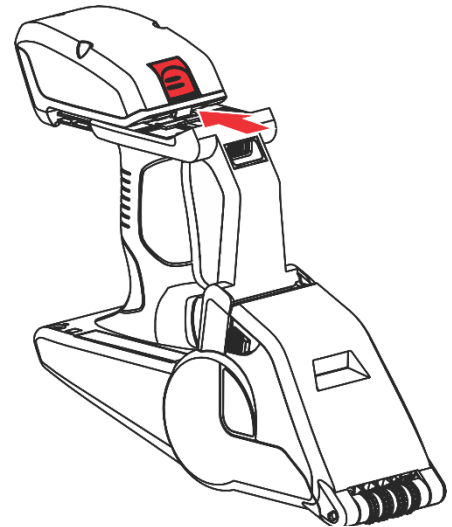
Replacing the Battery

Turn OFF the printer before replacing the battery. To replace the battery:

1. Hold the printer upside down with one hand and press the battery release button with your other hand.



2. Slide the battery off the printer.



3. Slide the new battery onto the bottom of the printer until it clicks into place.

CAUTION: Risk of fire or explosion if the battery is replaced by an incorrect type. Dispose of used battery promptly. Keep away from children.

2. Loading Supplies

The printer uses three types of supplies:

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

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.

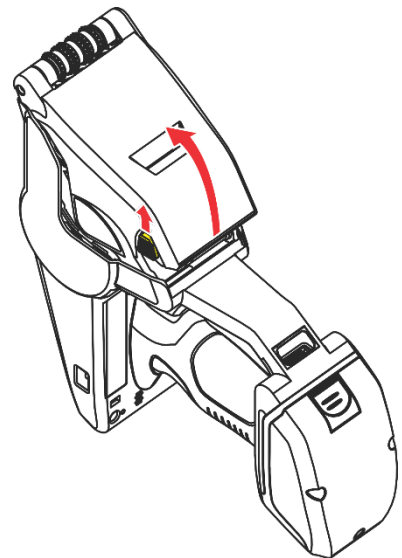
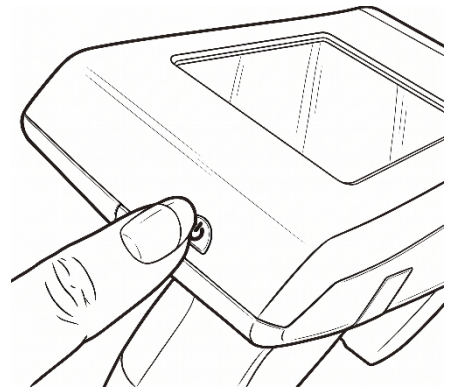
Before printing, your System Administrator may need to set the sensor type; refer to the *System Administrator's Guide*.

Regularly check the battery's power, if it is low, switch to a fully charged battery. We recommend checking it when you load a new roll of supplies.

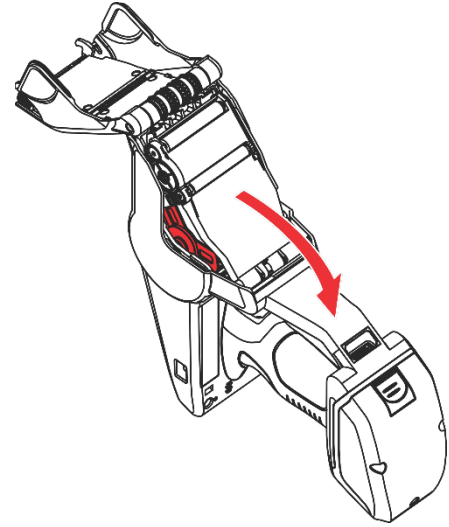
Loading Labels, Tags, or Receipt Paper

To load supplies:

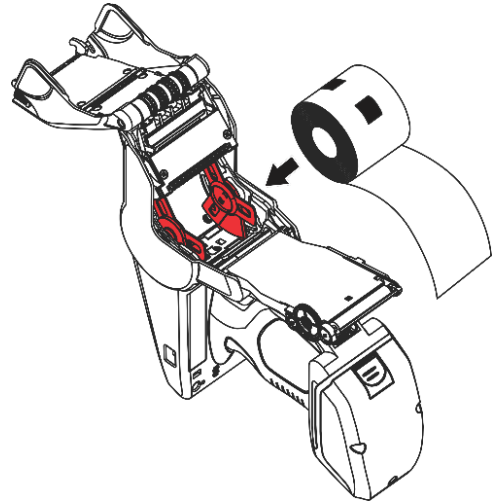
1. Turn on the printer. Swipe up the screen to unlock.
2. Push the latch buttons to release the outer door.
3. Open the outer door cover.



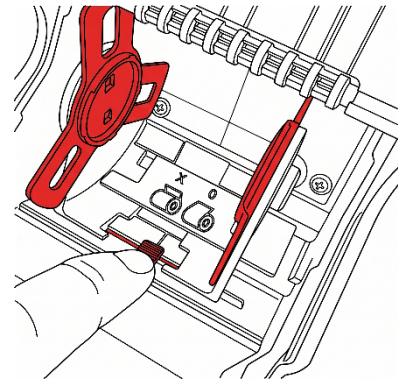
4. Open the inner supply door.



5. Spread the supply holder tabs apart with one hand so it adjusts to the size of your supply roll.
6. Press the supply lock tab (slide up) up once you have the size you need.
7. Insert the supply unrolling from the bottom as shown.



Note: Two icons inside the printer show how the supply roll should unwind. The supply tab locks the supply holder in place.



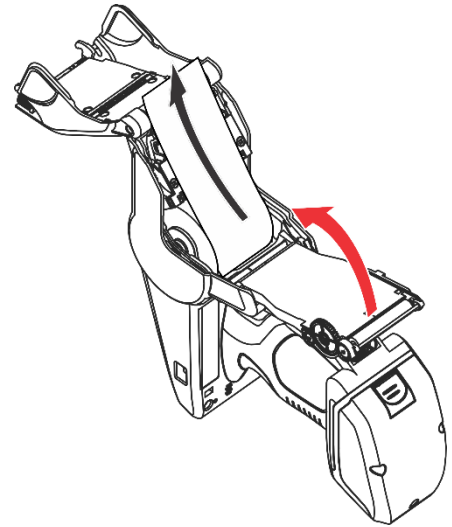
8. Continue loading supply for the printing mode you need: [peel](#) or [non-peel](#).

Loading for Peel Mode

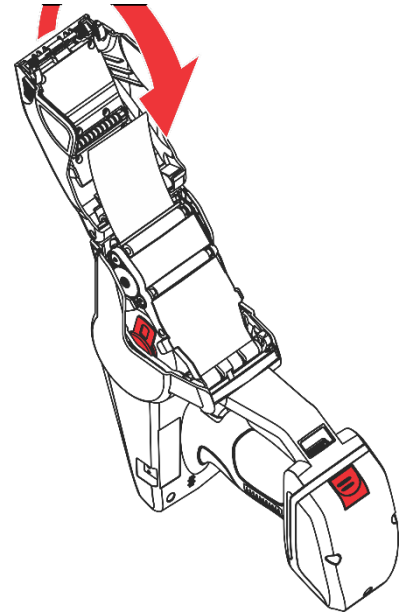
Peel mode removes the backing paper from the supplies while printing. Apply the label with steady pressure (not force).

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

1. Peel and discard the first three to four inches of labels from the backing paper and place the supply roll in the printer.
2. Close the inner supply door.

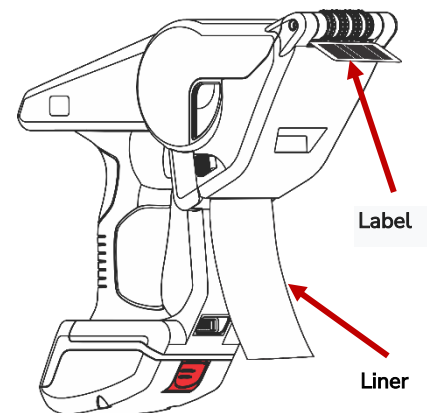


3. Close the outer door.



Printer in Peel mode.

4. Calibrate the supply. See "[Calibrating the Supply](#)" for more information.

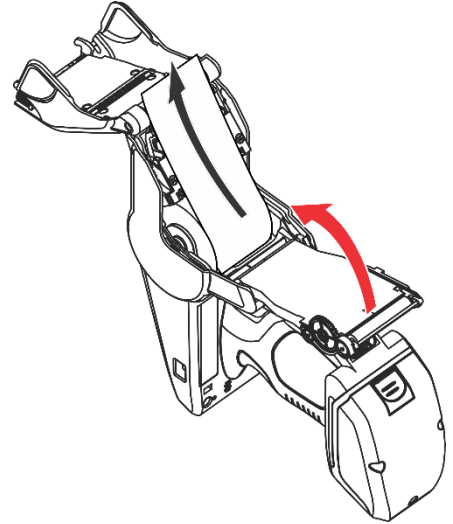


Loading for Non-Peel Mode

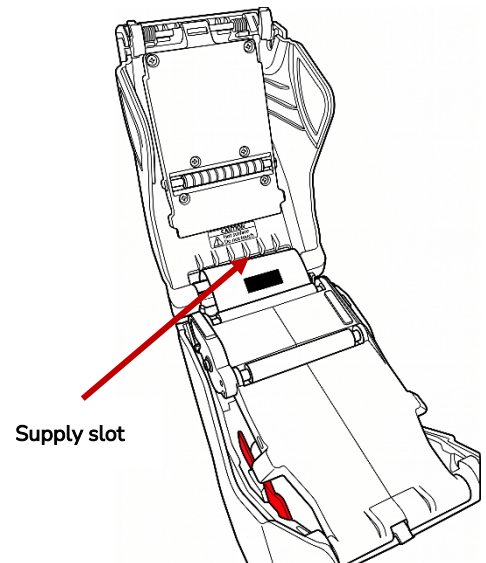
Non-Peel mode does not remove the backing paper – supplies are printed in a continuous strip.

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

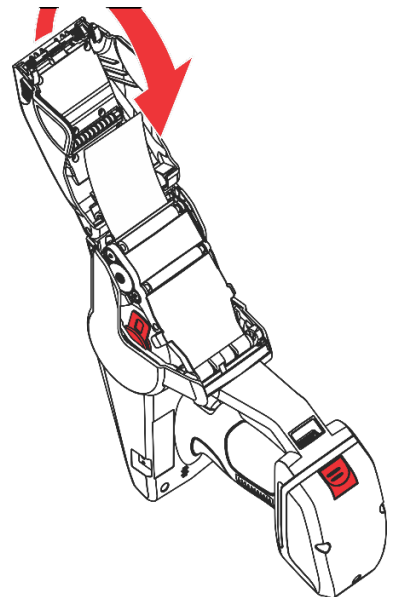
1. Place the supply roll in the printer.
2. Close the inner supply door.



3. Feed the supply through the slot.

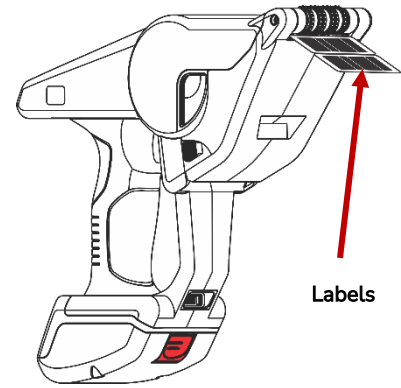


4. Close the outer door.



Printer in non-Peel mode.

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



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).

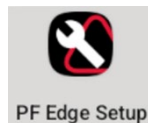
Your printer may have a custom application that automatically calibrates supply. The calibration technique is the same for all supply types. If the printer fails calibration, call Technical Support.

The black mark sensor is on the back of the inner supply door.

1. Load supply.
2. Close the inner supply door.
3. Close the outer door.

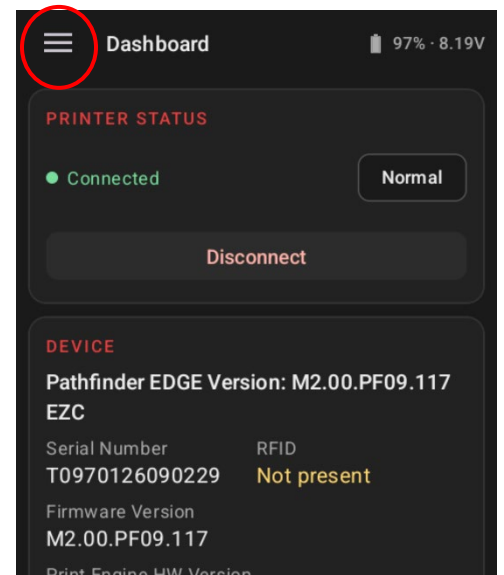
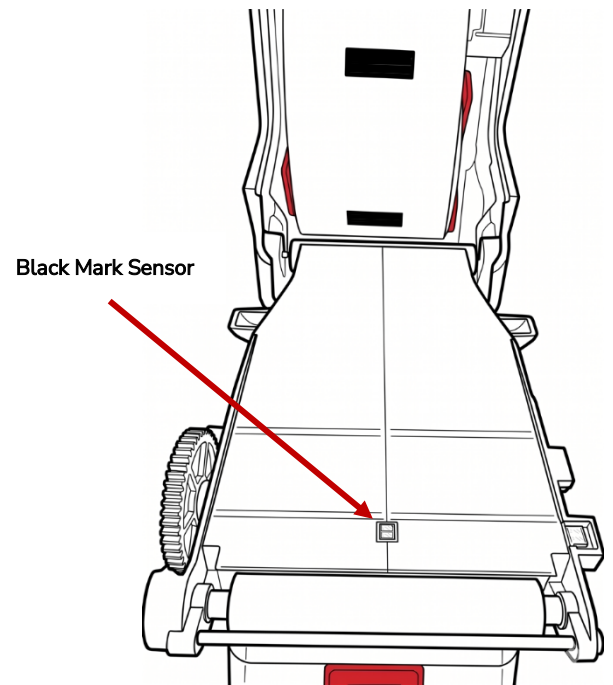
In the *PF Edge Setup Application*, when calibrating the black mark sensor, three labels are used for calibration. The printer feeds a blank label, looking for the sense mark. The second label is used to verify the black mark. The third label prints a message if the calibration is successful

4. Tap the **PF Edge Setup** application.

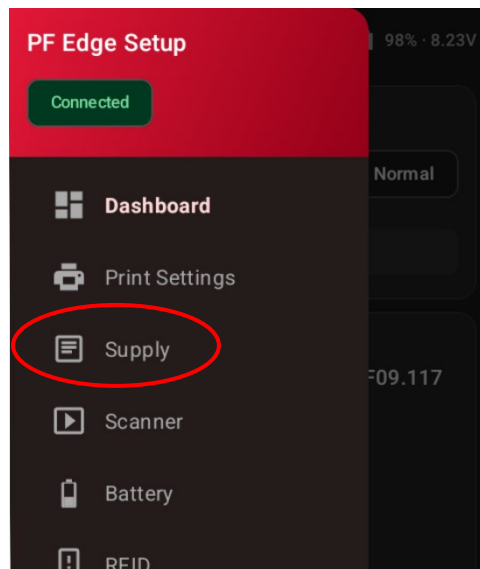


You will see the printer Dashboard.

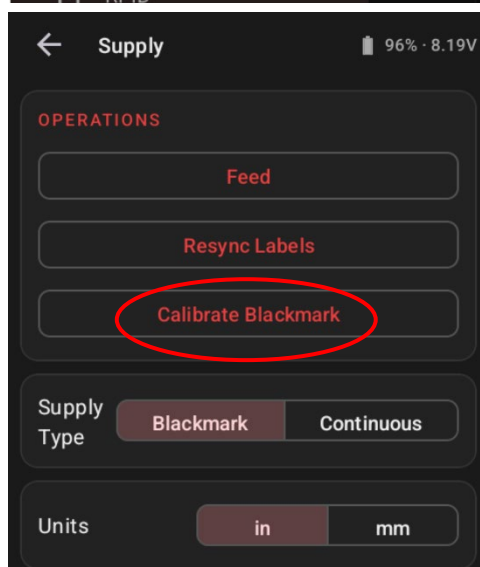
5. Tap the Menu.



6. Tap **Supply**.



7. Tap **Calibrate Blackmark**.



3. Printing & Scanning

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.

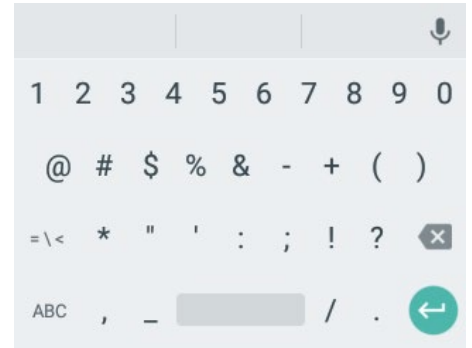
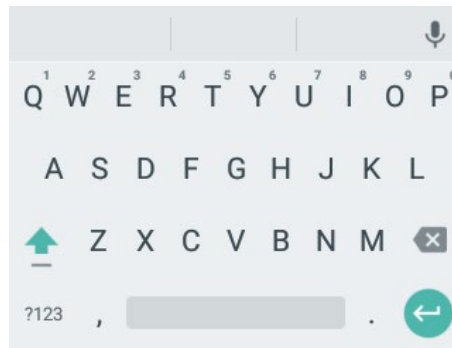
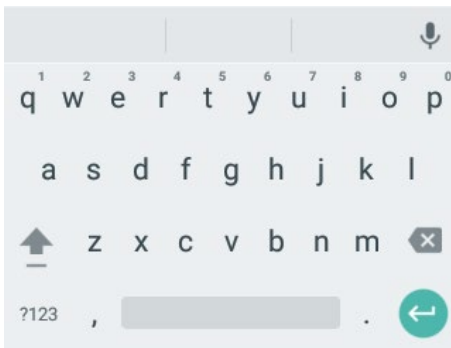
Printing

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.

- 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.

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 Barcodes

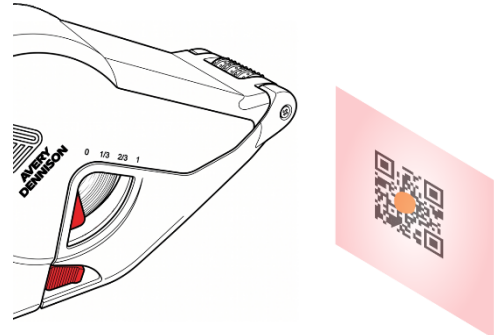
Your printer has a built-in two dimensional scanner.

To scan a barcode:

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

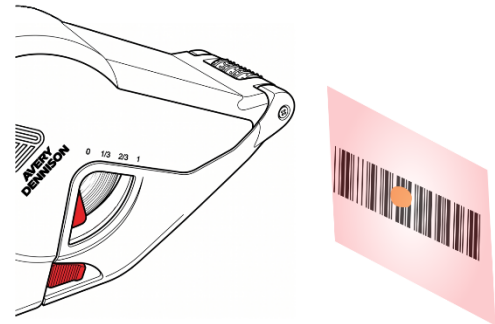
The scanner LED is above the display.

Scan Status LED	Description
Green	Successful scan.
Red	Unsuccessful scan.



If the barcode does not scan:

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



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

Printing Test Labels

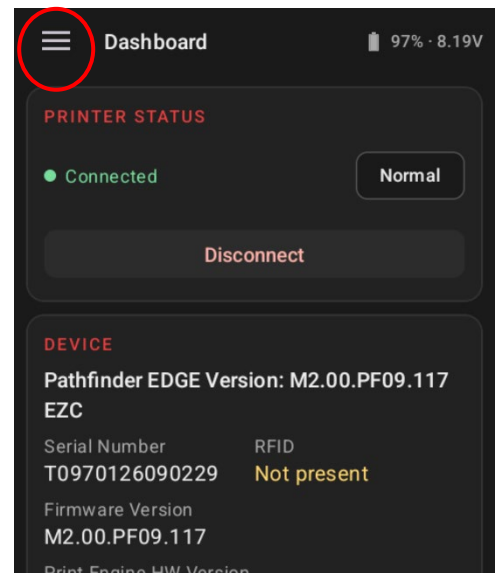
Several test label options are available in the *PF Edge Setup Application*. Before you run these tests, load the supply in non-peel mode. The information fits best on 2x2 or 2x4 labels.

1. Tap the **PF Edge Setup** application.

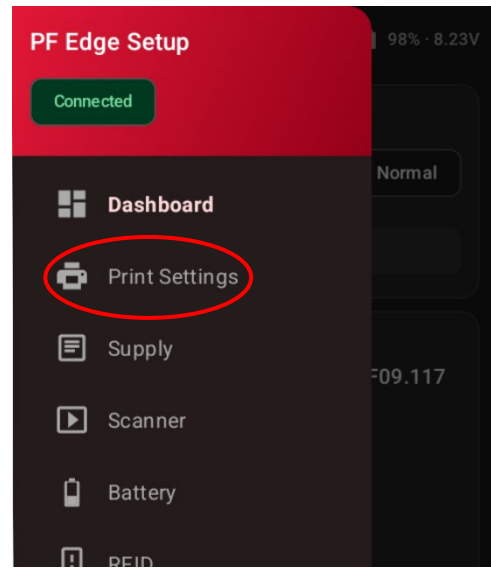


You will see the printer Dashboard.

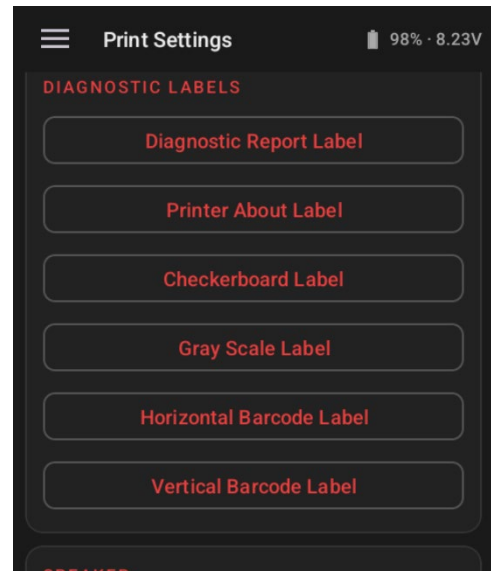
2. Tap the Menu.



3. Tap **Print Settings**.



4. Scroll to see the Diagnostics Menu and tap the label option you want to print.



Printing a Diagnostic Report Label

The Diagnostic label shows the print engine version, total inches, battery voltage, and printhead dot information. The Settings Diagnostics shows the current sensor, and supply position. The label also shows Network Diagnostics information.

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

PFEDGE Diagnostics Info	
PE Version	: M2.00.PF09.117 EZC
Total Inches	: 00000490
Battery Voltage	: 8.077V
PH Dot Resist Avg	: 735
Bad Dot Count	: 0
Settings Diagnostics Info	
Sensor	: Black Mark
Shift Position - X	: 0
Shift Position - Y	: 0
Network Diagnostics Info	
IP Address	000.000.000.000
MAC Wired	
MAC Wireless	:00:00:00:0A:40:7E

Printing a Printer About Label

The Printer about label shows the print engine hardware version, Build number, Control Board version, Bootloader version and Print Engine version/ , battery voltage, and printhead dot information. The Printer Setup label shows the current sensor, and supply position. The label also shows Network Diagnostics information.

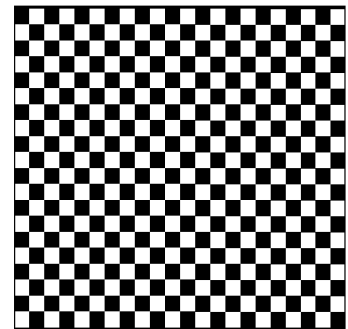
If the printed sample has fewer lines or no lines, keep the sample and call Technical Support.

P / E Hardware V :	2
Build Number	: 15
Control Board V	: 0
Bootloader V	:
P / E V	: M2.00.PF09.117
Printer Setup - About	
P/E Version	: M2.00.PF09.117 EZC
Model	: Pathfinder EDGE
S / N	: T0970126090229
Kernel V	:5.10
End of Print	

Printing a Checkerboard Label

Tap **Checkerboard Label**. This label verifies the printhead strobos are working.

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



Printing a Gray Scale Label

Tap **Gray Scale Label**. This label checks the uniformity of the printing. The printed sample should be uniformly gray across the supply.

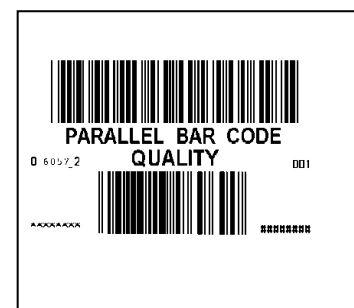
If you see voids, especially on the edges, keep the sample and call Technical Support.



Label with voids

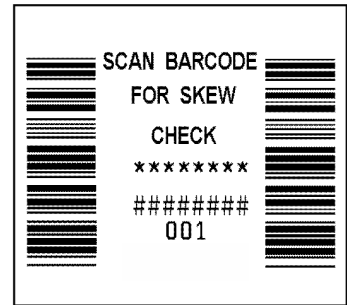
Printing a Horizontal Barcode Label

Tap **Parallel Barcode Label**. A label prints parallel barcodes for you to scan to check the quality of parallel barcodes.



Printing a Vertical Barcode Label

Tap **Horizontal Barcode Label**. This label prints serial barcodes for you to scan to check the quality of serial barcodes.



4. Care & Maintenance

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 outer door and the inner supply door.
2. Remove the supplies.
3. 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.
4. Clean any adhesive build-up.
5. Reload the supplies, close the inner supply door, and close the outer door.

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.
- before loading a new roll of supply.
- 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 99% Isopropyl alcohol; we recommend pre-moistened wipes, approved Cleaning Pen or swab.

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:

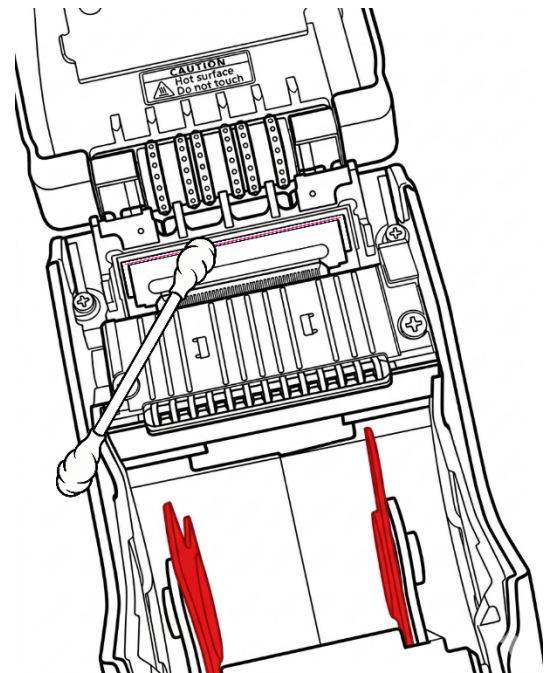
1. Turn off the printer.
2. Open the outer door and inner supply door and remove the supplies.
3. Check the supply holder for adhesive buildup and clean it if necessary.

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

Allow the printhead to cool for a minute.

Clean the printhead before loading a new roll of supply.

4. Clean the printhead area of all adhesive and label pieces using a Cleaning Pen, swab or a soft cloth moistened with 99% isopropyl alcohol. Let the printhead dry.
5. Reload the supply roll and close the inner supply door and outer door.
6. Turn on the printer.



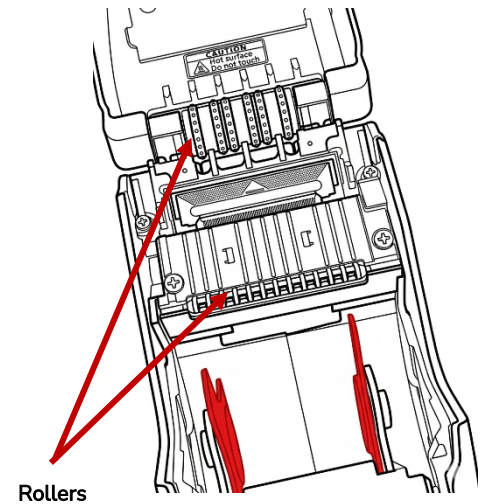
Caution: Printhead surface is hot. Do not touch.



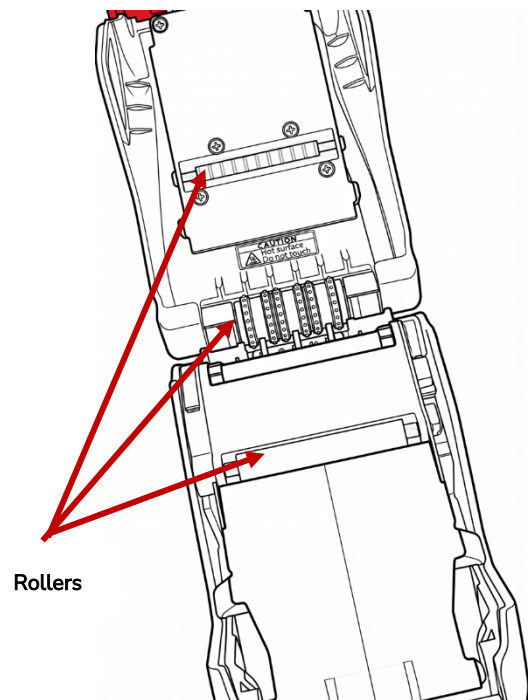
Cleaning the Platen, Liner Drive, and Pinch Rollers

Clean these rollers when you see adhesive build-up, when a label is wrapped around them or each time you load a new roll of supply.

1. Turn off the printer, open the outer door and inner supply door.
2. Remove the supplies.
3. Use a dry, soft-bristle brush, such as a toothbrush, to clean the rollers.
4. If the brush does not remove all adhesive, moisten a cotton swab with 99% isopropyl alcohol and run the cotton swab across the roller. Wait a few minutes for the printer to dry.



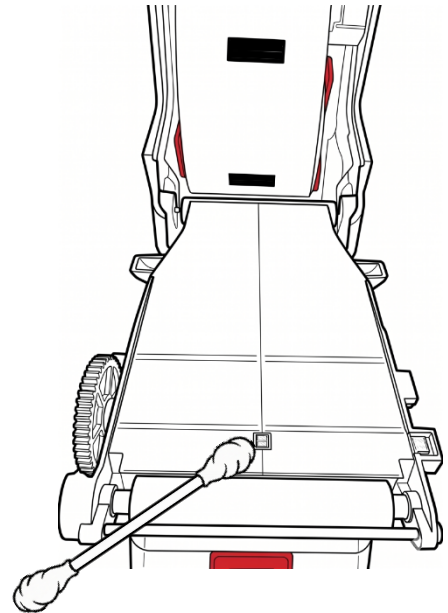
5. Reload the supplies, inner supply door and the outer door.
6. Turn on the printer.



Cleaning the Black Mark Sensor

To clean the black mark sensor:

1. Turn off the printer and open the outer door and the inner supply door. The black mark sensor is under the inner supply door
2. Remove the supplies.
3. Clean the black mark sensor with a dry cotton swab.
4. Reload the supplies.
5. Close the supply cover.
6. Close the outer door.

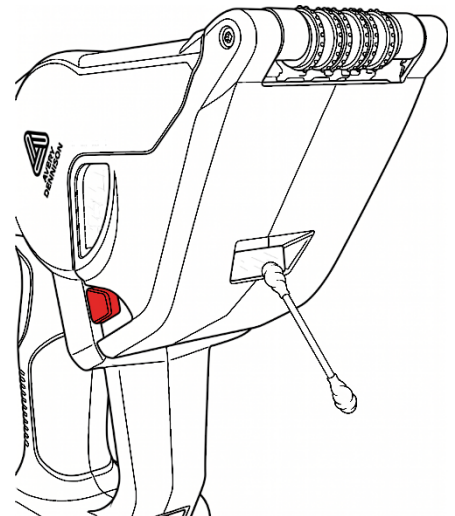


Cleaning the Scanner Window

Make sure the printer is turned off when cleaning the 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.



5. Troubleshooting

This chapter lists some common printer problems and their solutions.

Problem	Solution
Printer does not feed.	Switch to a fully charged battery. Close the outer door completely. Load the supply correctly. See Chapter 2, " Loading Supplies " for more information. Check the platen roller for jammed labels. Make sure the pinch roller is in place.
Printer does not print.	Switch to a fully charged battery. Load the supply correctly. See Chapter 2, " Loading Supplies " for more information. Clean the printhead. See " Cleaning the Printhead " for more information.
Print has voids or is too light.	Load the supply correctly. See Chapter 2, " Loading Supplies " for more information. Close the outer door completely. Switch to a fully charged battery. Clean the printhead. See " Cleaning the Printhead " for more information. Check the supply for damage or defects.
Printer partially prints on the supply and fails to respond to the keypad or trigger.	Load the supply correctly or load new supplies, if necessary. See Chapter 2, " Loading Supplies " for more information. Clear any supply jams. Clean the printhead. See " Cleaning the Printhead " for more information. Switch to a fully charged battery.
Scanner does not scan a barcode.	See " Scanning Barcodes " for more information.
The display does not turn on.	Make sure the power is on. Switch to a fully charged battery.

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.

A. Specifications & Accessories

Printer Specifications

Dimensions:	Width – 6.97" (177 mm) Height – 12.43" (315.5 mm) Depth – 3.45" (87.5 mm)
Weight:	Weight – 1.65 lbs. (750 g) no supply or battery Shipping Weight – 3.75 lbs. (1.70 kg)
Display:	Capacitive touch
Printhead:	1.89" (48mm) (203 dots per inch)
Printing:	Thermal direct (no ink /ribbon)
Print Speed:	Up to 4" (101.6 mm) per second 5" (127 mm) per second, Text Only 6" (152.44 mm) per second, Text Only
Printer System Rating:	8.4V, 2.45A
Battery:	7.26Vdc, 4900mAh, 35.58Wh lithium-Ion
Memory:	6 GB DDR5 RAM; 64 GB NAND Flash
Operating Temp. (Operating & Storage):	32°F – 104°F (0°C – 40°C) Operating 4°F - 140°F (-20°C - 60°C) Storage
Humidity (Operating & Storage):	5% – 90% non-condensing

Radio Specifications

Radio	IEEE 802.11 a/b/g/n/ac/ax WLAN and Bluetooth® 5.3 dual mode radio
Bands	2.4GHz to 2.5GHz (b/g/n/ax), 5.15GHz to 5.825GHz (a/n/ac/ax), and 5.925GHz to 7.125GHz (ax) bands

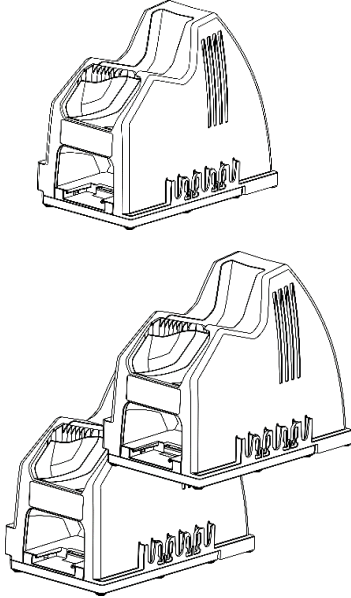
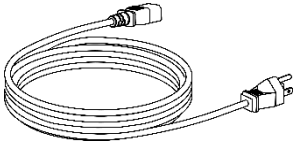

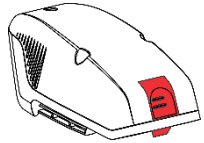


Bluetooth® Specifications

Version	IEEE 802.11 a/b/g/n/ac/ax WLAN and Bluetooth® 5.3 dual mode radio
Band	2.4GHz Band

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

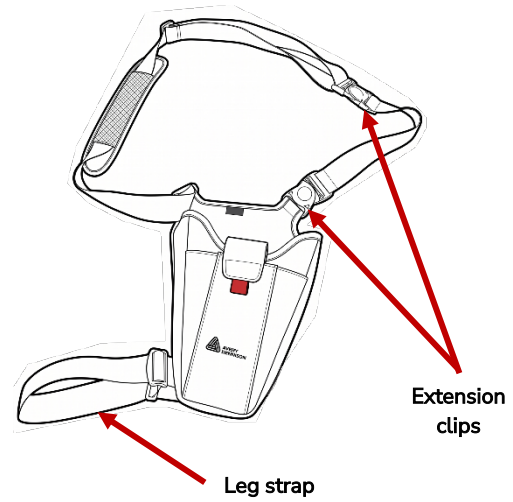
Part Number	Model/Description	
135485	Battery Charger	
126892	Charger Power Cable	
135843	Holster	
135484	Extra Battery	
135401	USB Cable	
114226	Cleaning Pen	

Using the Holster

The holster has a shoulder strap with an extension and a leg strap.

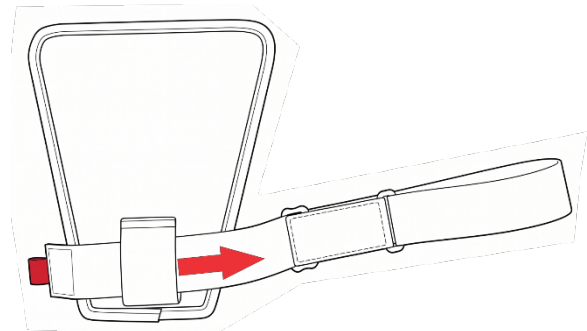
To add the extension,

1. Clip both ends of the extension onto the shoulder strap.



To remove the leg strap,

2. Open the hook and loop closure.
3. Slide the strap off through the loop.





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