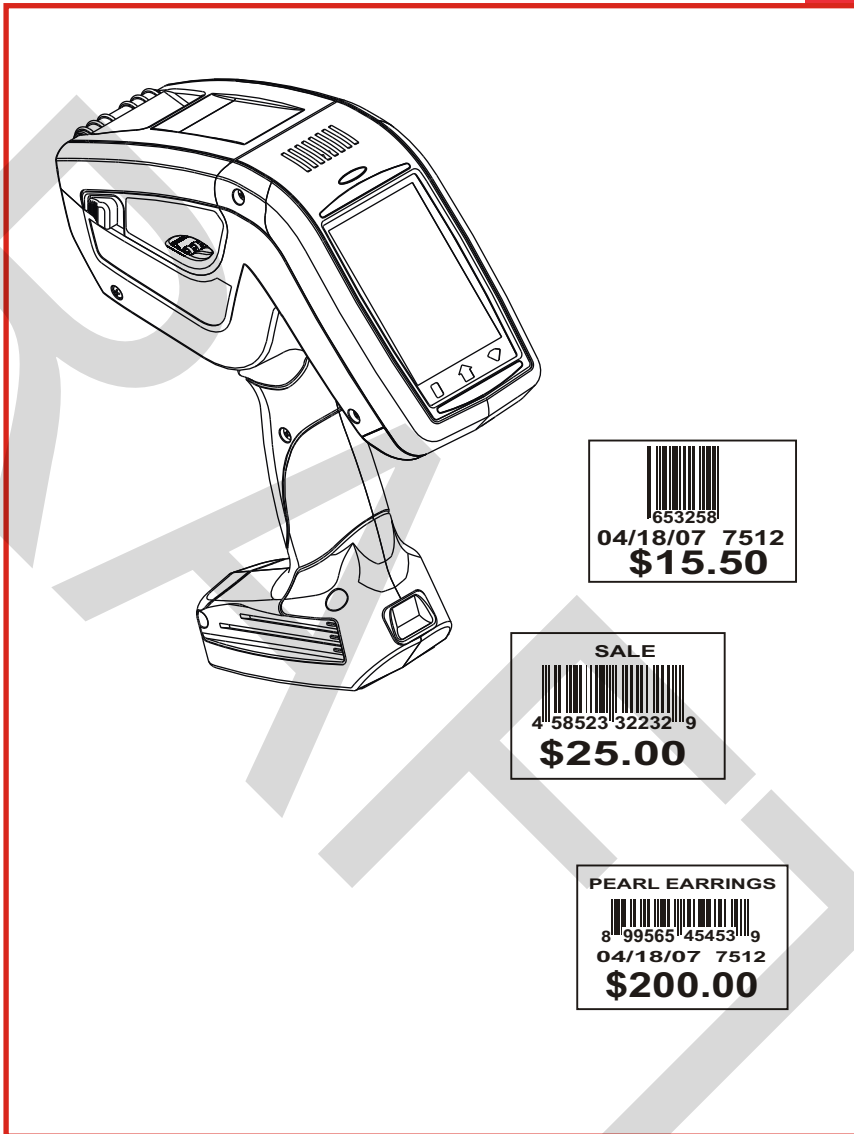


Operator's Handbook

Pathfinder® 6057
Printer



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WARNING

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 local radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

CANADIAN D.O.C. WARNING

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicte par le ministère des Communications du Canada.

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Avery Dennison Printer Systems Division
170 Monarch Lane
Miamisburg, OH 45342

LITHIUM - ION RECHARGEABLE BATTERY.
FOR PROPER RECYCLING OR DISPOSAL, CALL
YOUR LOCAL SERVICE OFFICE.



Li-Ion

Outside the U.S., send batteries to:
EMEA, 4 Awberry Court
Croxley Business Park, Hatters

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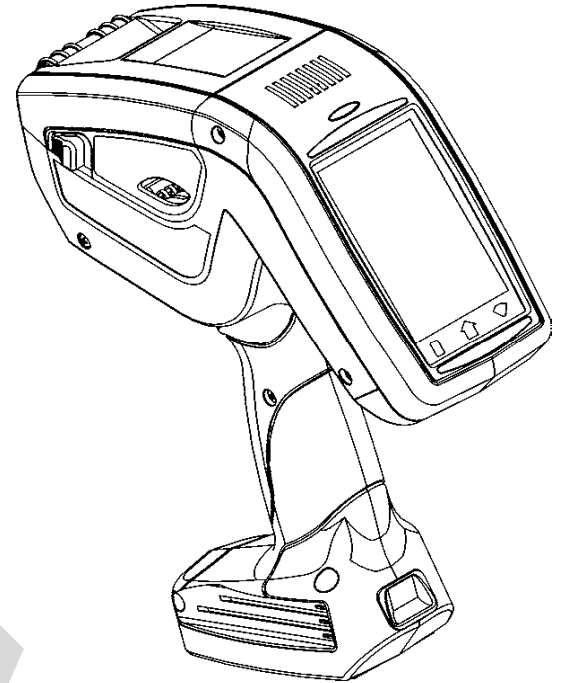
INTRODUCTION

1

The Pathfinder® 6057 printer prints, scans bar codes, collects data, and communicates with other devices. The printer operates on a Microsoft® Windows-based CE platform.

The printer features

- ◆ Touch screen display
- ◆ Adjustable supply width capabilities
- ◆ Clock/Calendar
- ◆ USB port communications
- ◆ Graphic printing capabilities
- ◆ Display backlight
- ◆ Low power shutdown to conserve the battery
- ◆ On-Demand (factory-installed option) and continuous printing
- ◆ Laser scanner (factory-installed option)
- ◆ Wireless 802.11b/g Radio (factory-installed option)



Using this Manual

Following is a summary of the contents of this manual:

	Chapter	Contents
1	Introduction	Information you should know before using the printer.
2	Using Batteries	Charging, changing, and using batteries safely.
3	Using Supplies	Supply loading.
4	Entering and Printing Data	Using the display, keypad, scanner, and printing.
5	Care & Maintenance	Clearing supply jams and cleaning the printer.
6	Troubleshooting	Common problems and solutions.
A	Specifications & Accessories	Printer specifications and accessories/options.

Audience

This manual is for the operator who scans or manually enters data and prints and applies labels.

Getting Started

To start using the printer, you must:

1. Review the safety information in the *Regulatory Compliance* document provided with your printer.
2. Charge the main battery. See “Charging the Main Battery” in Chapter 2 for more information.
Note: You *must* charge the battery before using it.
3. Insert the main battery. See “Changing the Main Battery” in Chapter 2 for more information.
4. Load supplies in the printer. See “Loading the Supplies” in Chapter 3 for more information.
5. Turn on the printer.

Note: Your System Administrator must load an application in the printer before you can use it.

Helpful Reminders

- ◆ Always start with a fully charged battery.
- ◆ Do not pound the printer when applying labels printed in peel mode.
- ◆ Switch to a fully charged battery every time you load a new roll of supplies (doing so ensures optimum print quality).
- ◆ Turn off the printer when you are not using it.
- ◆ Operate and store the printer with the recommended temperature and humidity ranges. See Appendix A, “Specifications and Accessories,” for more information.

The printer uses two batteries; a main battery and a backup battery.

Battery	Use
Main	Running the printer. It is rechargeable using one of the chargers listed in Appendix A, "Specifications & Accessories."
Backup	Maintaining the printer's system settings. Charges from the main battery. Not user replaceable.

Using the Main Battery

The printer's main power source is a 7.4V lithium-ion battery. To order a replacement battery, see Appendix A, "Specifications & Accessories" for more information.

Note: The printer uses *only* this battery; **do not** substitute batteries.

You must charge the battery when you receive the printer, even if you do not use it right away.

Charging the Main Battery

To charge the main battery, use one of the Monarch® chargers listed in Appendix A, "Specifications & Accessories." Refer to the documentation provided with the chargers for more information. Charging time is approximately 1.5 – 3 hours.

Warning: The battery must be charged using *only* the chargers listed in this manual; the battery might explode if placed on a different charger.

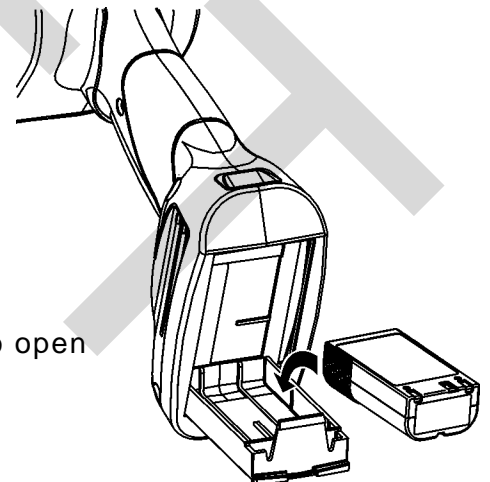
Replacing the Main Battery

To change the main battery:

1. Hold the printer upright with one hand and press the battery release button on the handle with your other hand.



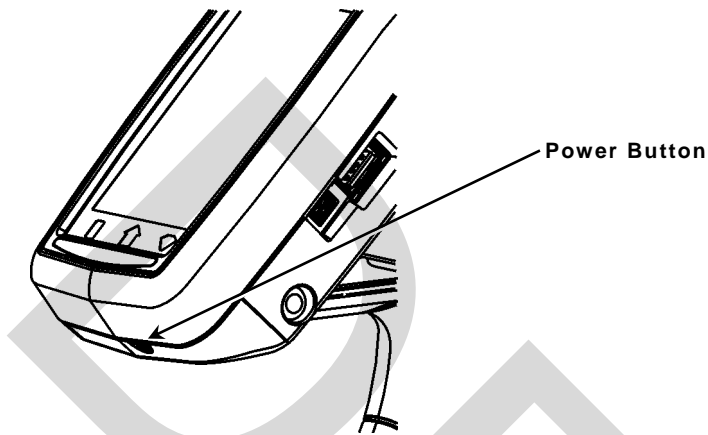
2. The battery compartment door opens slightly. Use your finger to open the door.
3. Remove the battery.
4. Insert a new battery (label side up) into the compartment (connector end last).
5. Close the compartment door until it clicks into place.




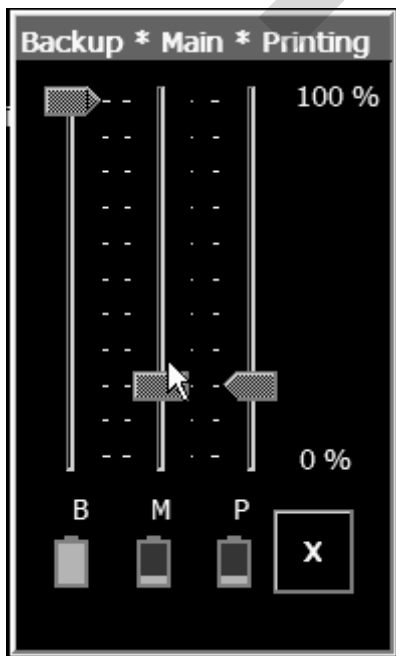
Checking the Battery Status

The printer easily provides the status of the main and backup batteries.

1. Turn on the printer.



2. Tap the **HOME** key.
3. Double tap the battery icon ().



Power Supply	Description
Backup Battery	Shows the status of the backup battery. If you replace the main battery, its charge depletes while charging the backup battery. You cannot replace the backup battery.
Main Battery	Shows the status of the main battery. If the status is low, printing may be interrupted. Replace the main battery in the printer with a fully charged battery.
Printing	Shows the power levels of the main battery for system operations and printing. If the printing power level is low, you may still be able to use Windows functions, but you do not have enough battery power to print. Replace the main battery in the printer with a fully charged battery.

4. Tap **X** to close the battery status window.

Main Battery Safety Information

To order a replacement battery, see Appendix A, “Specifications & Accessories” for more information.

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

Warning: The battery must be charged using *only* the chargers listed in this manual; the battery might explode if placed on a different charger.

- ◆ Take the battery out of the printer when storing the printer for a month or longer.
- ◆ 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.
- ◆ The operating temperature for the battery is the same as for the printer. See Appendix A, “Specifications and Accessories,” for more information.
- ◆ The recommended charging temperature is 68°F to 77°F (20°C to 25°C)
- ◆ Recycle 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

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

- ◆ **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.
- ◆ 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.
- ◆ The printer uses battery power even when it is not printing. Remove the printer’s main battery and place on a charger when the printer is not in use.
- ◆ Many factors affect your battery’s performance, including the quantity of labels printed, percentage of black per label, and power management.

DRAFT

The printer uses two types of supplies:

- ◆ Labels
- ◆ Tags

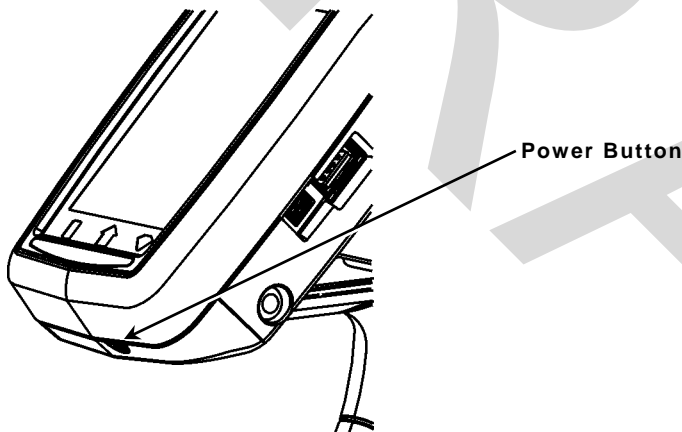
There are two print modes. The way you load the supplies depends on the print mode you use.

- ◆ *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. When using the on-demand sensor, you can 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 tags and labels printed in a continuous strip.

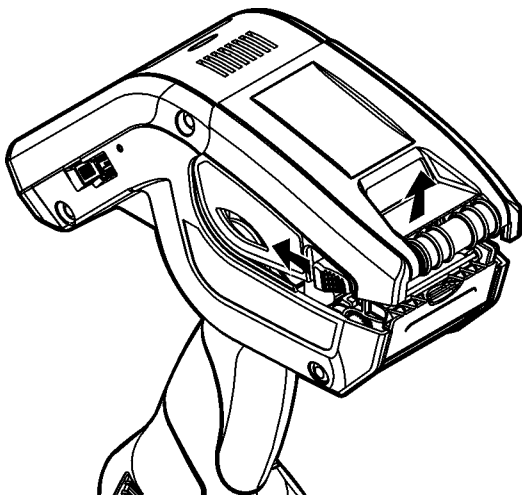
Loading Supplies

To load supplies:

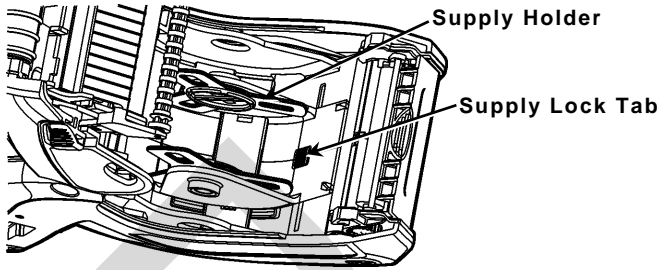
1. Turn on the printer.



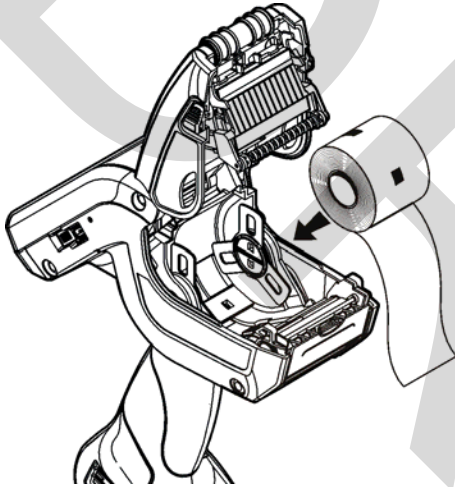
2. Press the latch buttons and open the supply cover. Open the spring-loaded supply holder. Spread the supply holder tabs apart with one hand so it adjusts to the size of your supply roll.



3. 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"



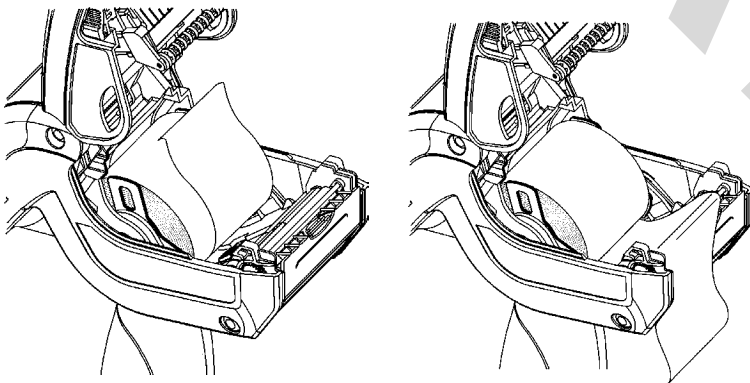
4. Place the supply roll in the supply holder so the supply feeds from the bottom.



5. Continue loading supply for the printing mode you want (peel or non-peel).

Loading for Non-Peel Mode

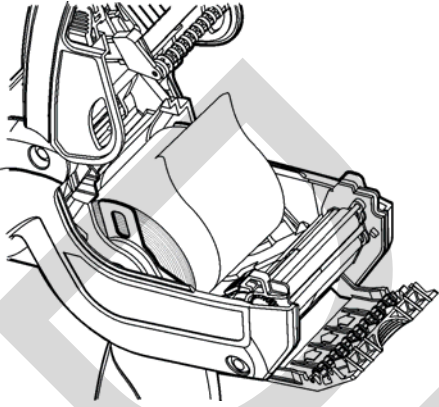
1. Feed the supply **over** the platen roller, peel bar, and label deflector.



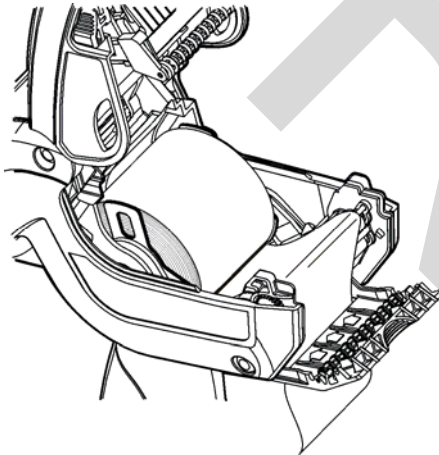
2. Close the supply cover.
3. Calibrate the supply. See "Calibrating the Supply" for more information.

Loading Peel Mode Supplies

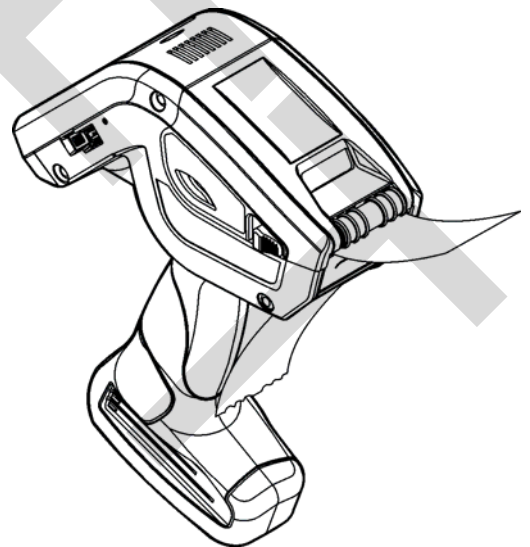
1. Peel and discard the first four inches of labels from the backing paper.
2. Hold the printer upright and gently push down on the label deflector.



3. Feed all four inches of the backing paper **over** the peel bar and **under** the label deflector.



4. Close the cover.
5. Hold the backing paper and push up the label deflector until it snaps into place.
6. Calibrate the supply. See “Calibrating the Supply” for more information.

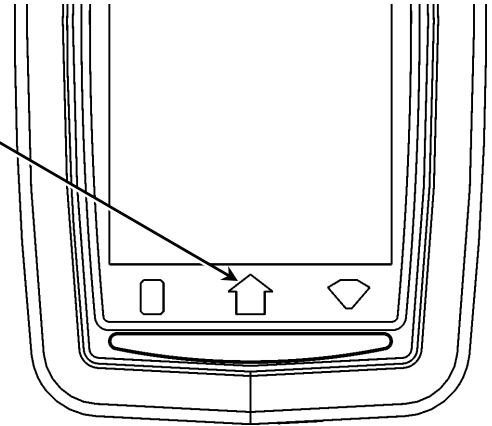


Calibrating the Supply

To calibrate the supply:

1. Turn on the printer.
2. Tap the home key.
3. Tap Load Supply.
4. Tap **Calibrate Stock**. A label or two feeds while the supply is calibrated.

Home




Selecting the Supply Type

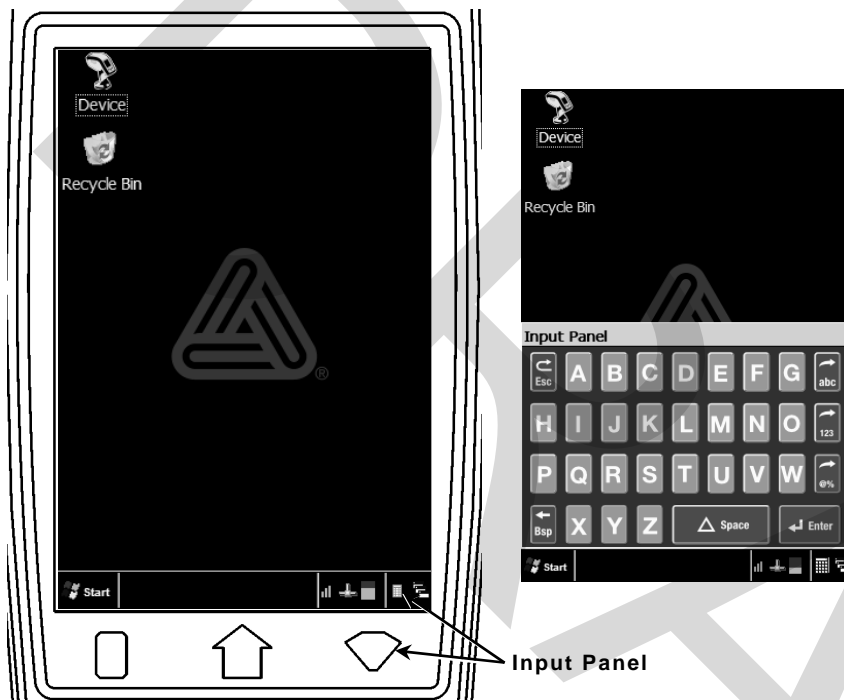
To select the supply type:

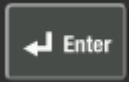





1. Turn on the printer.
2. Tap the home key.
3. Tap Printer Config.
4. Tap Print Energy Vals.
5. Select the printhead energy as Standard or High. Use High for synthetic supplies. Use Standard for all other supplies.
6. Check **Use Black Mark** if your supplies have a black mark.
7. Tap **Done** when finished.

This chapter explains the printer's features and how to use them.

Using the Input Panel

To access the printer's input panel, touch the input panel icon  located in the lower right-hand corner of the display or the Diamond key.



Key(s)	Description
	Accepts data or menu selection.
	Closes any open windows. Closes the input panel.
 or 	Displays upper case or lower-case alphabetic input panel.
	Displays numeric input panel.
	Displays special character & symbol input panel.

Using the Display






The printer has a touch screen display similar to a hand held computer. Touch the screen to select the option you want from the display.

Note: Use **only your finger** on the display. Pens and other items can cause damage. Use distilled water and a soft cloth to clean the display. **Do not use household cleaners.**

To change the sound (beep) and other standard Windows options, from the Start Menu, tap **Settings, Control Panel.**

Reading the Status Bar

The Status Bar has the following indicators:

Indicator	Description
 Wireless Connection	Tap to configure the wireless connection settings.
 Wireless Signal Strength	Indicates wireless signal strength.
 Battery Status	Tap to see battery status information. See "Checking the Battery Status" in Chapter 2 for more information.
 Input Panel	Tap to open the Input Panel.
 Desktop	Tap to minimize any open windows and return to the desktop.



Scanning Bar Codes

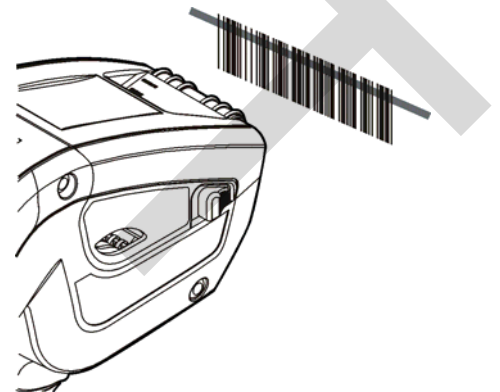
Your printer may have a built-in scanner.

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 at the top of the keypad.



Scanner LED	Description
Green	Successful scan.
Amber	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 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.

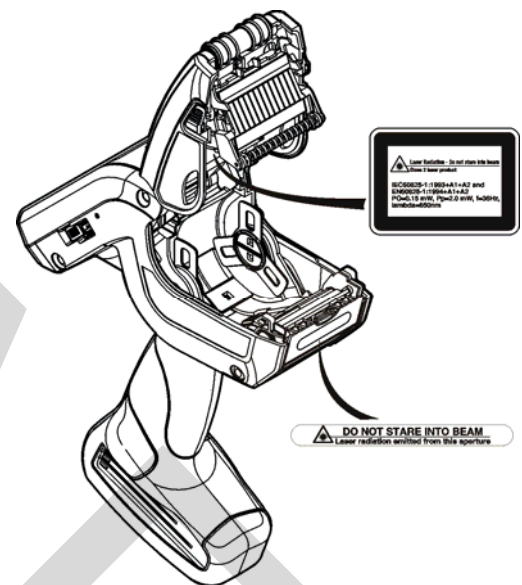
Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

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

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 press a key
- ◆ automatically with no input from you
- ◆ one label or a strip of labels.



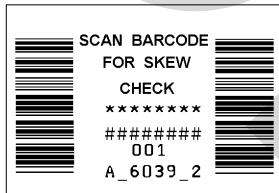
Adjusting the Print Contrast

To adjust the print contrast:

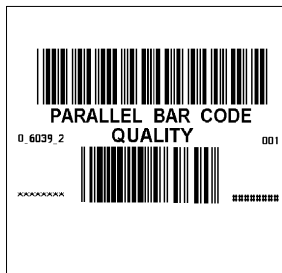
1. Turn on the printer.
2. Press the home key.
3. Tap Printer Config and then Print Energy Vals.
4. Tap the left or right arrows to increase or decrease the contrast.

The higher the number, the darker the print; the lower the number, the lighter the print. The print contrast controls the darkness of the printing on your supply. The range is -28 to +40 and the default is 0. You may need to increase or decrease the print contrast depending on your supply type. Having the correct print contrast setting is important because it affects how well your barcodes scan and how long your printhead lasts.

5. Tap **Print Serial Quality Label** to print a label with bar codes to scan and check the quality of serial bar codes.



6. Tap **Print Parallel Quality Label** to print a label with bar codes to scan and check the quality of parallel bar codes.



7. Tap **Done** when finished.

Power Management

The printer shuts off after a predetermined amount of idle time. The printer “wakes up” when you start using it again. Turn off the backlight to conserve power when leaving the printer on and idle. **From the Control Panel, tap Power, Display, Backlight.**

Caring for and properly maintaining your printer protects it and keeps it running smoothly.

This chapter explains how to

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

Cleaning

It is important to keep the printer clean. You must clean five main areas:

- ◆ Display
- ◆ Printhead
- ◆ Platen Roller
- ◆ Sensors
- ◆ Scanner Window
- ◆ Scanner Flex Cable

Do not use sharp objects to clean the printer.

Do not use household cleaners to clean the printer.

Cleaning the Display Screen

Make sure the printer is turned off when cleaning the display. Use distilled water and a soft cloth to clean the display.

Do not use household cleaners.

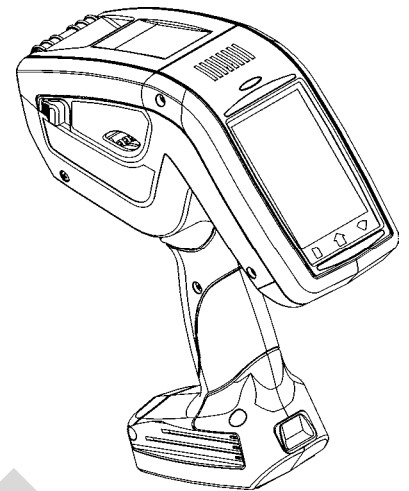
Cleaning the Printhead

Clean the printhead

- ◆ after using 7-10 rolls of supplies
- ◆ in extreme temperatures, humid conditions, or a dirty environment
- ◆ when you see voids in the print
- ◆ after a supply jam.

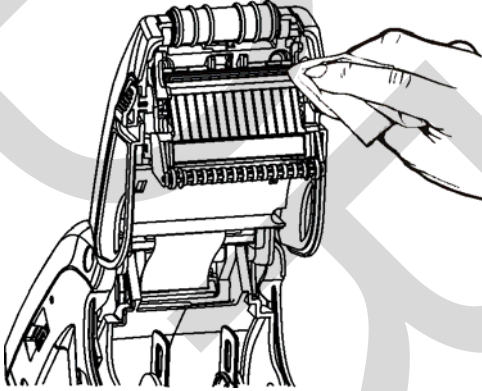
CAUTIONS: The following actions may damage the printhead and void your warranty.

- ◆ **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.
4. Ground yourself by touching a metal object other than the printer. Grounding prevents electrostatic discharge, which may damage your printer.
5. Clean the printhead area of all adhesive and label particles using a Cleaning Pen or a soft cloth moistened with isopropyl alcohol.



6. Reload the supply roll and close the supply cover.

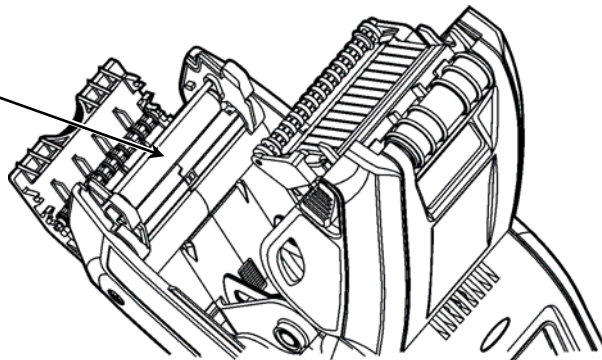
Cleaning the Platen Roller

Clean the platen roller when you see significant adhesive build-up or when a label is wrapped around the platen roller.

1. Turn off the printer and open the supply cover.
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 platen roller.

If the brush does not remove all the adhesive use isopropyl alcohol **ONLY** on the platen roller. Moisten a cotton swab with isopropyl alcohol and run the cotton swab across the platen roller. After cleaning, feed several inches of supply through without printing to remove any remaining isopropyl alcohol.

Platen Roller

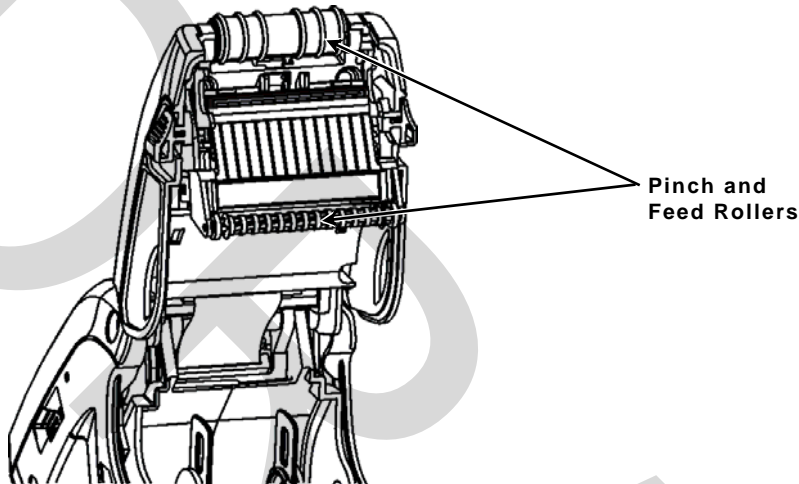


5. Reload the supplies, close the label deflector and supply cover.

Cleaning the Pinch and Feed Rollers

To clean the pinch and feed rollers:

1. Turn off the printer and open the supply cover.
2. Remove the supplies.
3. Rub a dry, lint-free cloth across the pinch and feed rollers as they turn. Make sure the rollers are clean all the way around. If necessary, use a cloth dampened slightly with distilled water.

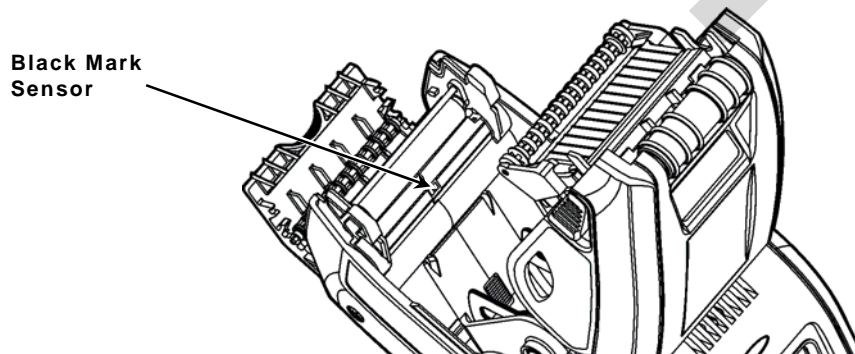


4. Reload the supplies after the printer dries.

Cleaning the Black Mark Sensor

To clean the black mark sensor:

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.

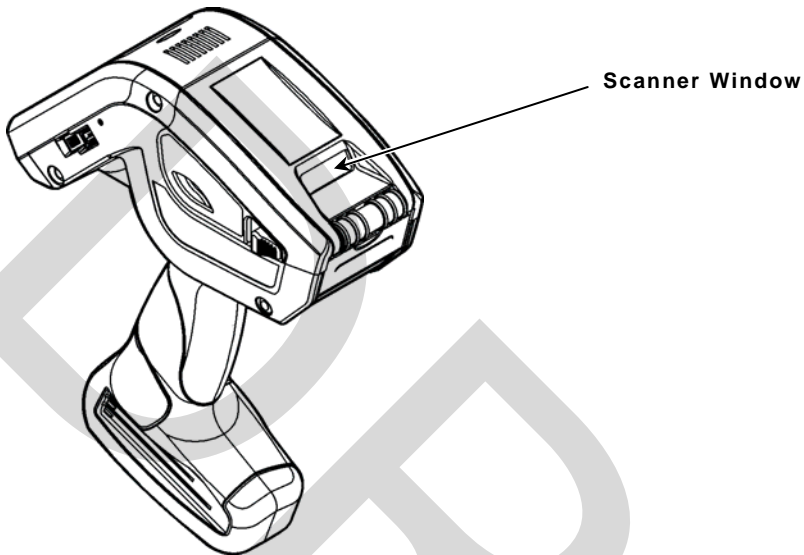


4. Clean the black mark sensor with a dry cotton swab.
5. Reload the supplies, close the cover and the label deflector.

Cleaning the Scanner Window

Clean the scanner window whenever it appears to be dirty or smeared. To clean it:

1. Moisten a soft cloth with distilled water. Do not use household cleaners to clean the printer.

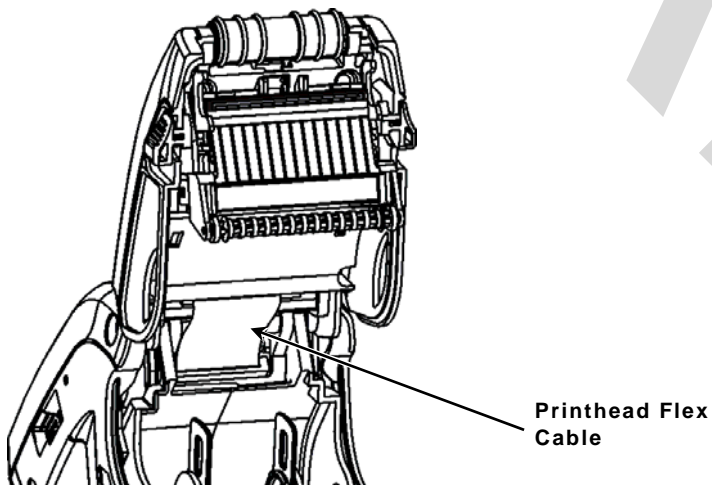


2. Wipe the window until it is completely clean.

Cleaning the Printhead Flex Cable

Occasionally, adhesive buildup appears on the printhead flex cable. To clean the cable:

1. Turn off the printer and open the supply cover.
2. Inspect the printhead flex cable. At any place that adhesive buildup appears, clean the cable with 99% isopropyl alcohol and a cotton swab.



3. Close the supply cover.

Clearing Supply Jams

To clear a supply jam:

1. Turn off the printer and open the supply cover completely.
2. Open the label deflector by gently pushing down on the label deflector.
3. Remove the supplies.
4. Carefully remove any jammed supply and close the deflector.

Note: **Do not** pull the jammed supply out through the front of the label deflector. **Do not** use sharp objects to remove jammed supplies.

5. Carefully remove any jammed supply.
6. Clean any adhesive build-up.
7. Reload the supplies, close the cover and the label deflector.

Storing the Printer

Do not store the printer in or near

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

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This section 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 “Loading Supplies” in Chapter 3 for more information.</p> <p>Check the platen roller for jammed labels.</p>
Printer does not print.	<p>Switch to a fully charged battery.</p> <p>Load the supply correctly. See “Loading Supplies” in Chapter 3 for more information.</p> <p>Clean the printhead. See “Cleaning the Printhead” in Chapter 5 for more information.</p>
Print has voids or is too light.	<p>Load the supply correctly. See “Loading Supplies” in Chapter 3 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” in Chapter 5 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 “Loading Supplies” in Chapter 3 for more information.</p> <p>Clear any supply jams.</p> <p>Clean the printhead. See “Cleaning the Printhead” in Chapter 5 for more information.</p> <p>Switch to a fully charged battery.</p>
Scanner does not scan a bar code.	See “Scanning Bar Codes” in Chapter 4 for more information.
The display does not turn on.	<p>Make sure the power is on.</p> <p>Switch to a fully charged battery.</p>

Checking the Software Version

To check the Software version of the printer, the Ultra Class library, the scanner configuration, printer diagnostics, and the Application version:

1. Turn on the printer.
2. Press the home key.
3. Tap **About**.
4. Scroll to check the versions of the API, print engine, etc.
5. Tap **Done** when finished.

Printing a Test Label

To print a Test Label:

1. Press the home key.
2. Tap Printer Diag.
3. Tap **Diagnostic Labels** from the Print Engine Tests screen.
4. Tap one of the following from the Diagnostic Labels screen.

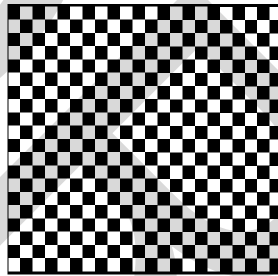
Select:

The following labels print:

Information Labels

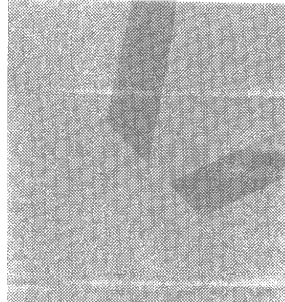
Prints a label that contains the printer information.

Checkerboard Label



Prints a label to verify that the printhead strobes are working. If your printed sample has fewer lines or no lines, keep the sample and call Service.

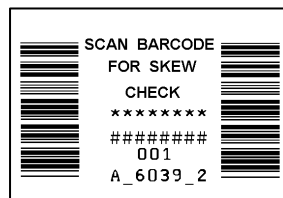
Gray Scale Label



The gray scale test 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 Service.

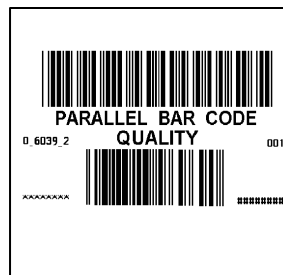
Label with voids

Serial Quality Label



A label prints bar codes for you to scan to check the quality of serial bar codes.

Parallel Quality Label



A label prints bar codes for you to scan to check the quality of parallel bar codes.

Error Codes

This section lists common error codes and their descriptions.

Code(s)	Description
004 - 005	Supply size is incorrect. Reload 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 “Loading Supplies” in Chapter 3 for more information.
706	Remove any jammed supplies. See “Clearing Supply Jams” in Chapter 5 for more information. If the supply is not jammed or you have removed the jam, and the error continues, see your System Administrator.
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 “Loading Supplies” in Chapter 3 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 Main Battery” in Chapter 2 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 Service at the number listed on the back of this manual.

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SPECIFICATIONS & ACCESSORIES

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Specifications

Dimensions:	Width – 3.3" (84 mm) Length – 9.84" (250 mm) Height – 7.9" (201 mm) Weight – 1.8 lbs. (822 g) Shipping Weight – 5.9 lbs. (2.6 kg)
Printhead:	1.89" (48mm/384 dots) (203 dots per inch)
Printing:	Thermal direct (no ink /ribbon)
Print Speed:	Up to 4" (102 mm) per second
Memory:	128 MB DDR RAM; 256 MB NAND Flash
Battery Type:	7.4V Lithium-Ion (110V – 240V AC adapter) 3.6V Lithium-Ion (internal)
Battery Recharge Time:	1 – 3 hours, depending on the charger used.
Supply Sizes:	Widths: 1.2", 1.5", and 2.0" (12.7mm, 30mm, 38mm, and 51mm) adjustable between 1.2 – 2.0" (12.7 mm – 51 mm) Lengths .55" – 4.0" (14mm –102mm) Peel mode supports .785" (20 mm) or greater lengths. Non-Peel mode supports .55" (13.97mm) or greater lengths.
Operating Temperature:	40°F – 110°F (4°C – 43°C)
Humidity (Operating & Storage):	5% – 90% non-condensing

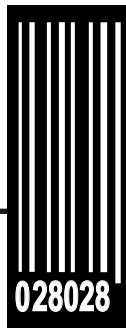
Accessories

This section lists some of the accessories available for your printer and their part numbers. For more accessories, refer to the *Accessories List* available on our Web site (www.monarch.com).

Part Number	Description
M09462	Single-Station Battery Charger
M09465	Four-Station Battery Charger
114226	Cleaning Pen
M06054	Communication Charging System Use one system with up to four 6055 Communication Charger Stations
M06055	Communication Charger Station with a built-in stand that charges the battery while inside the printer
125859	USB Cable
12009502	Extra Battery

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