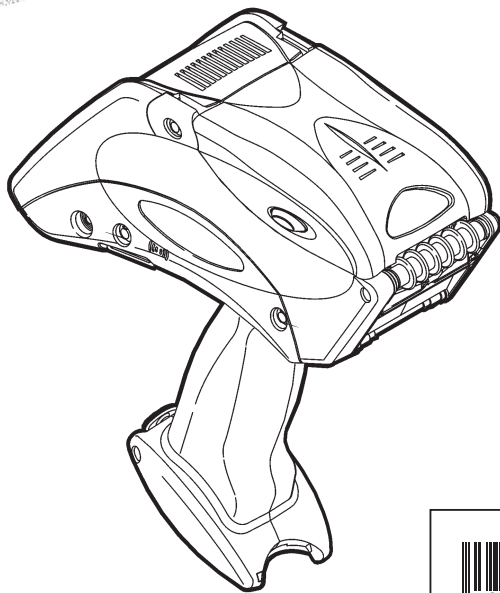


Equipment Manual



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Pathfinder® Ultra®
Gold Printer**

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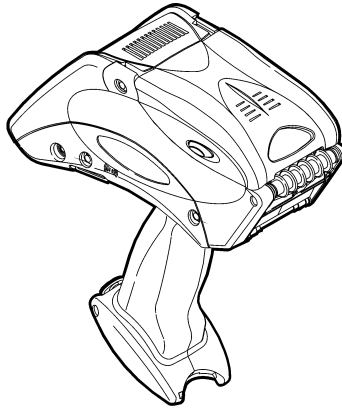
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INTRODUCTION

1

The Monarch® Pathfinder® Ultra® *Gold* 6037™ printer prints, scans bar codes, collects data, and communicates with other devices. Your System Administrator must configure it for you to use.



This manual describes how to use these printers.

Getting Started

To start using the printer, you must:

1. Charge the main battery. See “Charging the Main Battery” in Chapter 2.

NOTE: You must charge the battery before using it. For optimal battery life, charge the battery *within three months of receipt*.

2. Insert the main battery and the backup battery in the printer. See “Changing the Main Battery” and “Changing the Backup Battery” in Chapter 2.
3. Attach the safety strap found in the documentation package. See “Attaching the Safety Strap” in Chapter 4.

4. Load supplies in the printer. See “Loading Supplies” in Chapter 3.
5. Turn on the printer.

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

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 the Battery	Charging, changing, and using batteries safely.
3	Using Supplies	Supply loading and removal.
4	Basic Operations	Everyday printer usage.
5	Care and Maintenance	Clearing supply jams and cleaning the printer.
6	Troubleshooting	Common problems and their solutions.
A	Glossary	Printer terms and their definitions.
B	Reference Information	Printer specifications and accessories/options.

The printer’s end user should read this manual. This person uses the printer to print and scan bar codes.

In addition to this manual, you also have a printed, quick-reference version of this manual. Other documentation is available on our Web site (www.monarch.com).

USING BATTERIES

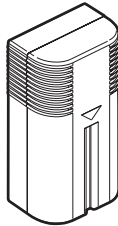
2

The 6037 printer uses two batteries: a main battery and a backup battery. Both are located in a compartment at the bottom of the printer's handle.

Battery	Use
Main	Running the printer. Several other Monarch printers also use this battery, which is rechargeable.
Backup	Maintaining the system settings.

Using the Main Battery

The printer's main power source is a 7.4V lithium-ion battery.



NOTE: The printer takes *only* this battery. **Do Not** substitute batteries from any other manufacturer.

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

Charging the Main Battery

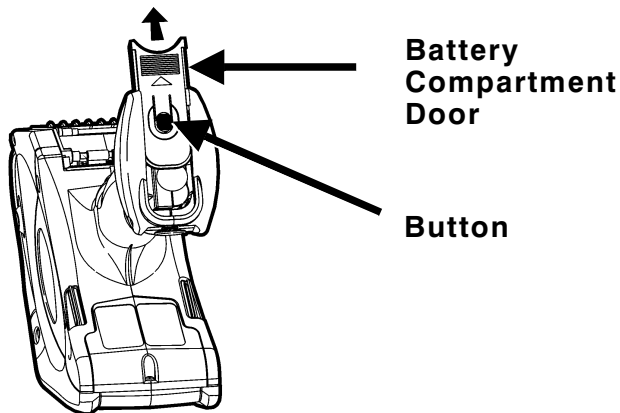
To charge the main battery, use either the Monarch 9462™ single-station or 9464™ four-station battery chargers. See the documentation for those chargers for more information. Charging time is approximately 1.5 – 3 hours.

WARNING: The battery might explode if placed on a different charger.

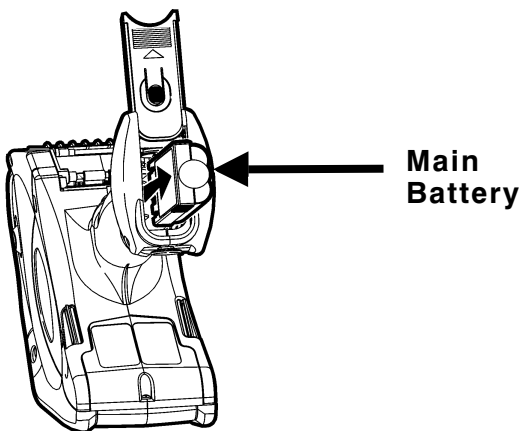
Changing the Main Battery

To change the main battery:

1. Turn the printer over and press the button on the battery compartment door (at the bottom of the printer's handle) and slide it open (the door stays attached). The main battery pops out slightly.



2. Pull the main battery out of the compartment. Or, place your hand beneath the printer, turn it upright, and catch the battery in your hand as it slides out.



3. Insert a new battery into the compartment (non-ribbed end first).
4. Slide the compartment door shut. You will have to press the battery in slightly so the door fits over it. When the door shuts, you hear it click into place.

Using the Backup Battery

The backup battery is a 3-volt lithium coin cell. You can buy additional backup batteries at most stores.

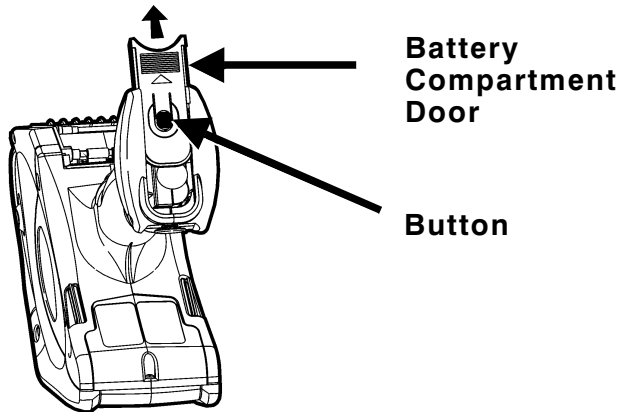


You must switch backup batteries when you receive a CMOS error.

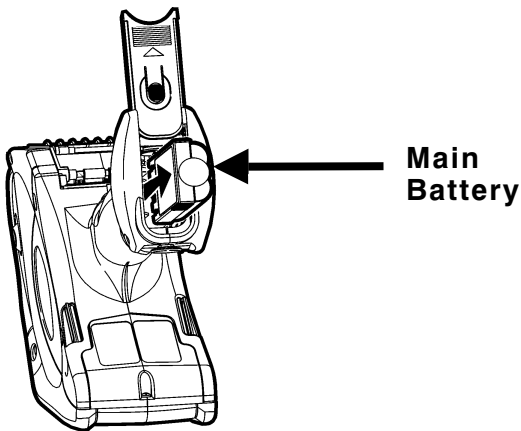
Changing the Backup Battery

To change the backup battery:

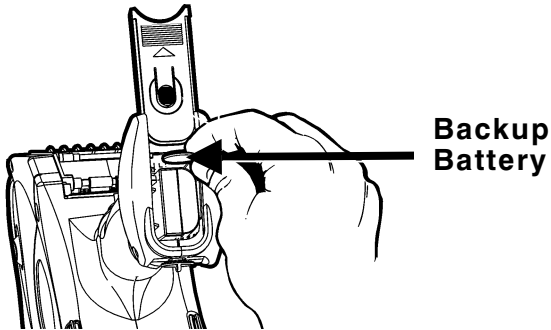
1. Turn the printer over and press the button on the battery compartment door (at the bottom of the printer's handle) and slide it open (the door stays attached). The battery pops out slightly.



2. Pull the main battery out of the compartment. Or, place your hand beneath the printer, turn it upright, and catch the battery in your hand as it slides out.



3. Remove the backup battery by turning it slightly counterclockwise, and pulling it out.



4. At the same angle, place the new battery (positive side facing away from the main battery) at the edge of the track. As you push it in, it will straighten itself.
5. Replace the main battery.
6. Slide the compartment door shut. You will have to press the main battery in slightly so the door fits over it. When the door shuts, you hear it click into place.

Main Battery Safety Information

- ◆ You must charge the battery before using it. For optimal battery life, charge the battery *within three months of receipt*.
- ◆ **WARNING:** 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 – 73°F (10°C – 23°C), with a maximum of 104°F (40°C). The battery may lose its charge capacity permanently 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 recommended temperature for charging is 68°F – 77°F (20°C – 25°C)
- ◆ Disposal Information – Do not throw in trash. Dispose 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: ERC; 200 Monarch Lane Door #39; Miamisburg, OH 45342.

CAUTION

Do Not disassemble, short-circuit, heat above 80°C, or incinerate the battery. It may explode.

- ◆ The battery should be charged immediately for either long-term storage or after the battery has been exhausted from a printing session. Frequent charging will actually prolong battery life and has no negative effects such as memory issues.
- ◆ Do not let the battery come into contact with metal objects.
- ◆ Do not use a battery with a cracked case.

- ◆ Do not let the battery get wet.
- ◆ The operating temperature for the battery is the same as for the printer. See “Specifications.”
- ◆ It is normal for battery capacity to decrease up to 20% over the first 300 cycles of use.
- ◆ The battery should be charged immediately for either long-term storage or after the battery has been exhausted from a printing session. Frequent charging will actually prolong battery life and has no negative effects such as memory issues.
- ◆ The printer uses battery power even when the printer is not printing. Remove the printer’s 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, intervals of batches printed, percentage of black per label, and power management.

USING SUPPLIES

3

The printer can use three types of supplies:

- ◆ Labels
- ◆ Tags
- ◆ Receipt Paper

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

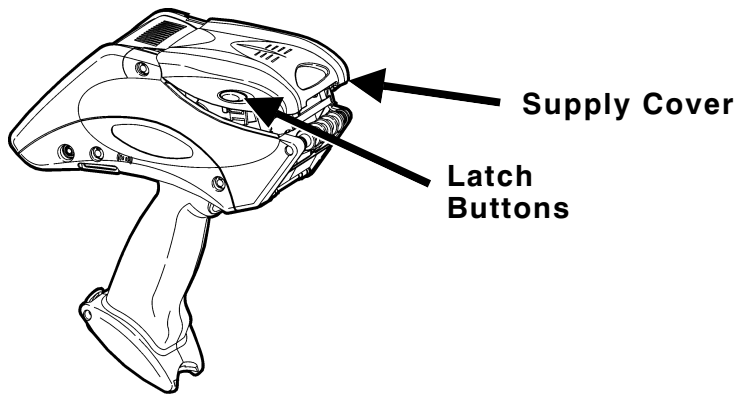
- ◆ *Peel mode* removes the backing paper from the supplies as it prints the labels. This mode allows you to apply the label immediately. It is only for labels. If you have purchased and selected the on-demand sensor, you must press the trigger between labels. Otherwise, the next label prints only when the previous one is applied.
- ◆ *Non-Peel mode* does not remove the backing paper. It is for labels printed in a continuous strip, tags, and receipt paper.

Loading Supplies

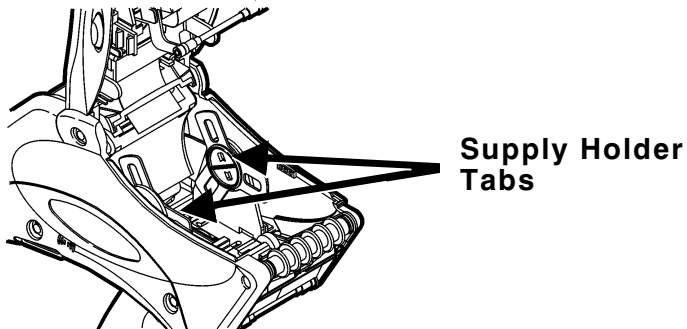
To load supplies:

1. Turn on the printer. (The power key is at the top right of the keypad.) The application starts running.
2. Maneuver to the point where you are prompted to load the supplies.

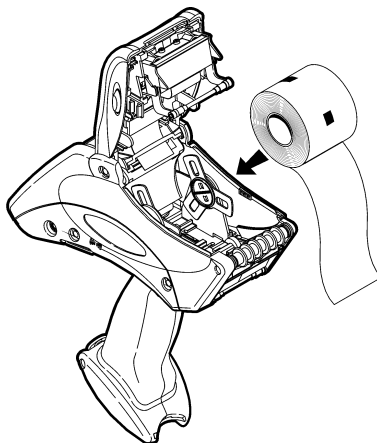
3. Press the latch buttons and open the supply cover completely.



4. Remove the seal from the supply roll.
5. Spread the spring-loaded supply holder tabs apart.



6. Place the supply roll in the supply holder so it feeds labels from the bottom. The black marks on the labels should face down.



NOTE: Specialty paper has no black marks.

7. Load the supplies for the print mode you want. See “Loading for Peel Mode” or “Loading for Non-Peel Mode.”

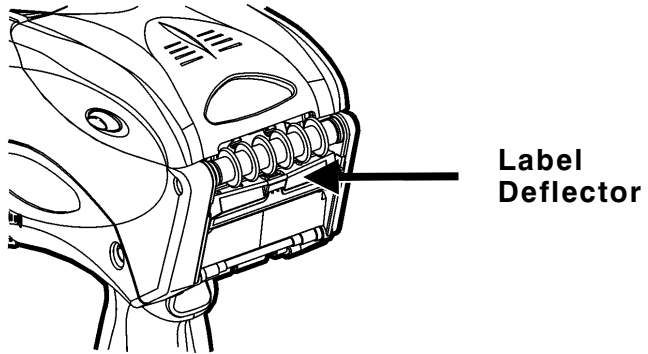
Loading for Peel Mode

To load supplies for peel mode:

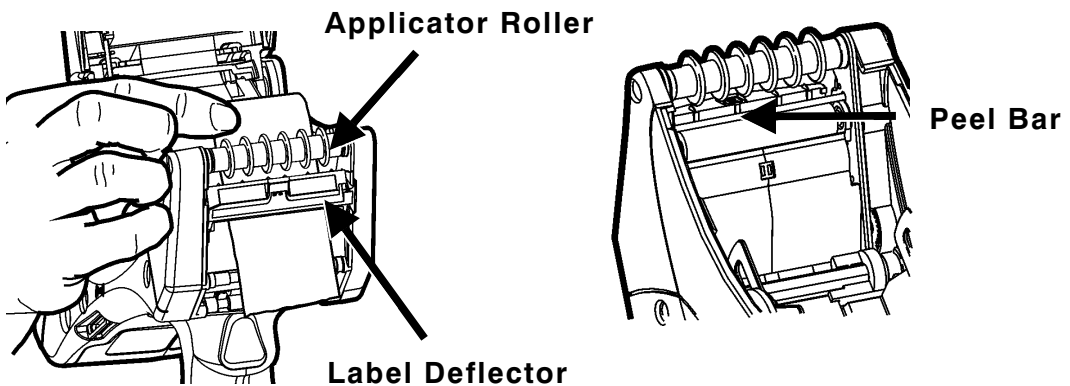
- A. Peel and discard the first four inches of labels from the backing paper.

NOTE: **Do Not** tear the supplies at the four-inch point; just peel the labels.

- B.** Hold the printer upright and gently press down on the label deflector. It may be stiff.



- C.** Feed all four inches of the backing paper over the peel bar and under the applicator roller and the label deflector.

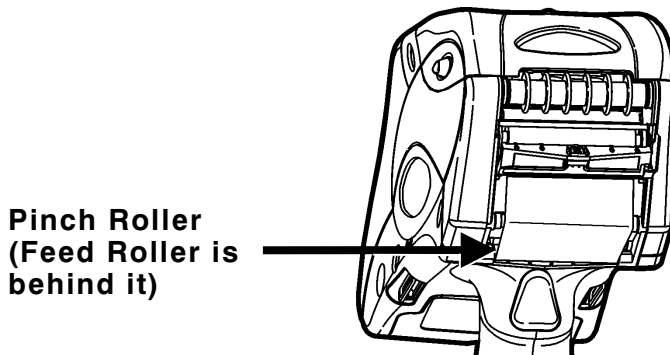


- D.** Push the label deflector up until it snaps into place.

E. Partially close the supply cover to the first position.

NOTE: **Do Not** close the cover completely at this step or label jams may occur.

F. Hold the supply edge between the feed and pinch rollers (located just above the trigger), and press the trigger. Discard the extra labels that feed.



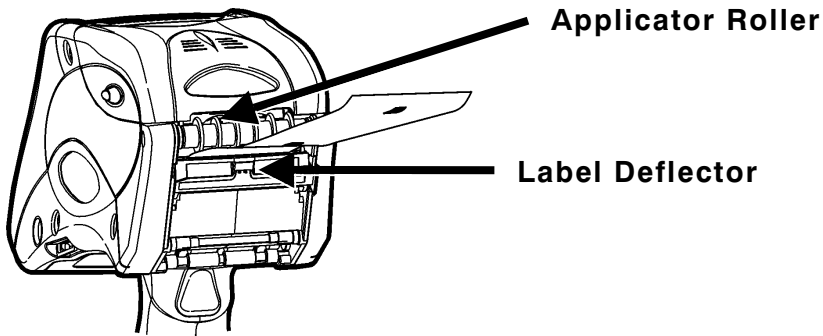
G. Close the supply cover completely.

H. Press the trigger or key assigned by your System Administrator to remove all slack. Discard the extra labels that feed.

Loading for Non-Peel Mode

To load supplies for non-peel mode:

- A.** Feed the supply under the applicator roller and over the label deflector.



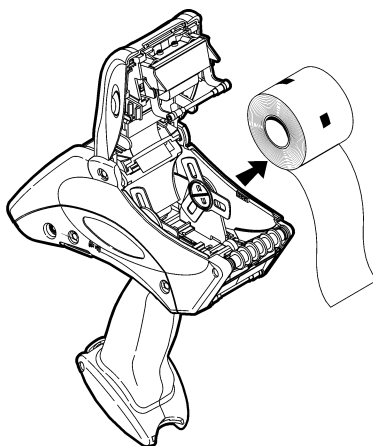
- B.** Close the supply cover completely.
- C.** Press the trigger or key assigned by your System Administrator to remove all slack. Discard the extra labels that feed.

Removing Supplies

To remove supplies:

- 1. Peel mode only.** Tear the backing paper just above the pinch roller.
- 2.** Open the supply cover completely.

3. Spread the supply holder tabs apart with one hand and remove the supply roll.



4. **Peel mode only.** Carefully pull out the supply backing paper still in place between the pinch and feed rollers.

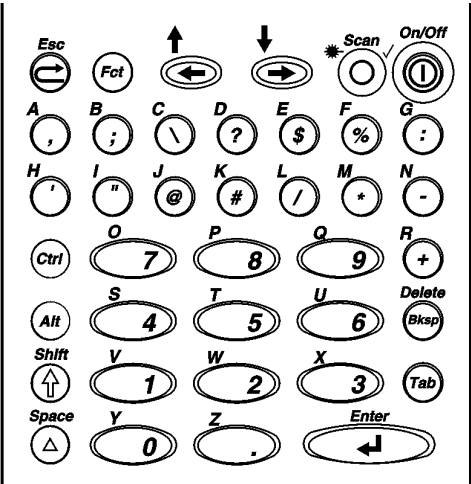
BASIC OPERATIONS

4

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

Using the Keypad

The printer keypad appears below.



Key(s)	Description
Enter	Accepts data or a menu selection.
Ctrl	For future use.
Alt	Displays a special character when pressed with a 3-digit number. Your System Administrator will tell you what number to use.
Tab	For future use.
Fct	Performs a specially-defined function when pressed with a single-digit number.
Delete	Clears the entire line that the cursor is currently on.

Key(s)	Description
Bksp	Moves the cursor one space to the left and deletes the character in that position. Or, deletes the current line when pressed with Shift.
Shift	◆ Displays a letter. ◆ Deletes all data on the current line when pressed with Bksp.
Esc	Moves to the previous menu, or exits the current module or program.
Arrows	Moves between items in a menu.
On/Off	Turns the printer on and off.
Space	Enters a space character.
Numeric/ Alphabetic	Displays a numeric digit or letter.
Symbols	Displays the character shown on the face of the key.

Entering Data

There are three data entry modes:

- ◆ **Numeric/Symbol mode** – *Default*. Press the key to display what appears on the face of the key.
- ◆ **Alphabetic mode** – Press Shift to display letters or delete the current line.
- ◆ **Special Key mode** – Press a special key (Fct or Alt) to access functions or display special characters).

Using the Display

The display has eight lines and one status line.

Reading the Status Line

The status line has the following indicators:

Indicator	Description
F	You have pressed the Fct key, and the printer is in Special Key mode. This mode remains in effect through the next key press. To return to Numeric/Symbol mode without accessing a function, press the Fct key again.
A	You have pressed the Alt key, and the printer is in Special Key mode. This mode remains in effect until you enter a 3-digit number. To return to Numeric/Symbol mode without entering a number, press the Alt key again.
C	For future use.
S	You have pressed the Shift key, and the printer is in Alphabetic mode. This mode remains in effect until you press the Shift key again.

The printer is in Normal mode if no indicator is on the display.

Scanning Bar Codes

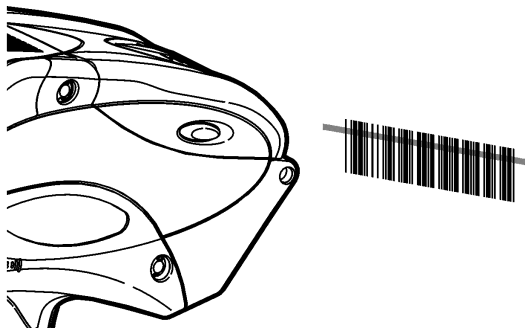
Your printer may have a built-in scanner.

When you scan depends on the application the printer is running. It will most likely prompt you on the display to press a certain key (probably the trigger). When you press it, you activate the scanner.

To scan a bar code:

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

CAUTION: Do Not stare into the beam.



The laser scan LED lights green after a successful scan. It lights amber after an unsuccessful scan. This light is at the upper right of the keypad, to the left of the On/Off key.

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. The scanner emits less than 1.3 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 IEC 825 and DHHS Regulation 21, Subchapter J. No controls are provided for operation or maintenance.

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 or many labels at once.

Power Management

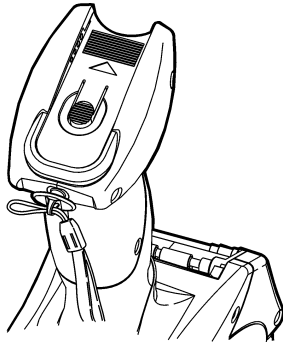
If the printer stays on, but you do not use it for a while, it goes into sleep mode to conserve power. The printer wakes up when you start using it again.

Radio Frequency Communications

Your printer may be able to communicate with other printers or a base station via radio frequency (RF) communications. Your System Administrator can tell you if you have this feature and any special procedures you need to perform.

Attaching the Safety Strap

1. Turn the printer upside down, resting its top on the table.
2. Take the thin end of the safety strap, and push it through the loop at the bottom of the printer handle (near the battery compartment).



3. Push the thick end of the safety strap through the thin end's loop.
4. Pull the strap. It may be necessary to help the thin end's loop fit over the plastic piece in the middle of the strap.



5. Pull the strap tight.



Helpful Reminders

- ◆ Always start with a fully-charged battery.
- ◆ Attach the safety strap to your wrist before using the printer.
- ◆ **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 the printer off when not using it.
- ◆ Operate and store the printer with the recommended temperature and humidity ranges. See Appendix B, “Reference Information,” for more information.

CARE AND MAINTENANCE

5

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. There are four main areas that you must clean:

- ◆ Printhead
- ◆ Platen Roller
- ◆ Sensors
- ◆ Scanner Window

To clean the printer, you can use

- ◆ Monarch Cleaning Pen #114226
- ◆ Monarch 6076™ Cleaning Kit.
- ◆ a soft cloth moistened with isopropyl alcohol

Do Not use sharp objects to clean the printer. Use isopropyl alcohol on the interior areas only; never on the exterior.

Printhead

Clean the printhead

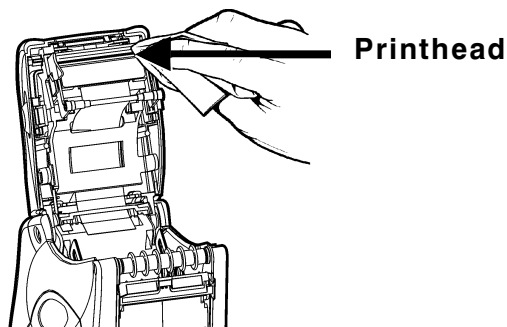
- ◆ after using 7-10 rolls of supplies.
- ◆ in extreme temperatures, humid conditions, or a dirty environment.
- ◆ when you see voids in the print.
- ◆ after a supply jam.

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. These actions may damage the printhead and void your warranty.

To clean the printhead:

1. Turn off the printer.
2. Open the supply cover and remove the supply roll. See “Removing Supplies” in Chapter 3.
3. Check the supply holder for adhesive buildup, and clean it, if necessary.
4. Ground yourself by touching metal on something 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 one of the items listed above.

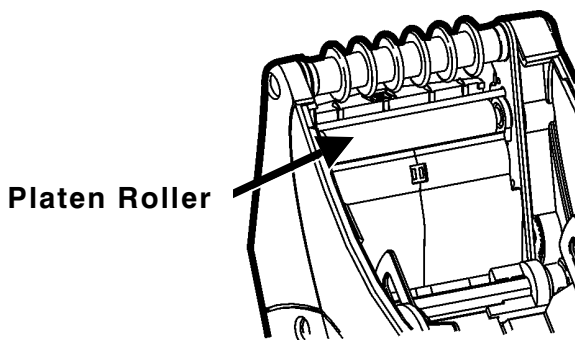


6. Reload the supply roll and close the supply cover.

Platen Roller

To clean the platen roller:

1. Turn the printer off and open the supply cover.
2. Remove the supplies. See “Removing Supplies” in Chapter 3.
3. Hold the printer upright and gently press down on the label deflector. It may be stiff.
4. Clean the platen roller and remove any adhesive buildup.



5. Turn the platen roller with your finger, and then continue cleaning.
6. Reload your supply and close the label deflector and supply cover.

Pinch and Feed Rollers

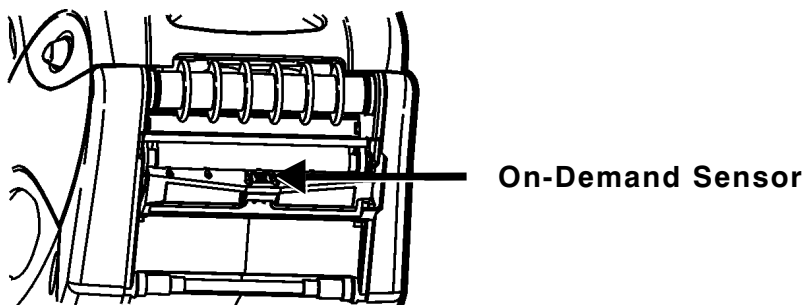
To clean the pinch and feed rollers:

1. Turn the printer off and open the supply cover.
2. Remove the supplies. See “Removing Supplies” in Chapter 3.
3. Turn the platen roller with your fingers. This action also turns the pinch and feed rollers.
4. Clean any adhesive buildup you see as the rollers turn.
5. Reload the supplies after the printer dries.

Sensors

To clean the on-demand sensor:

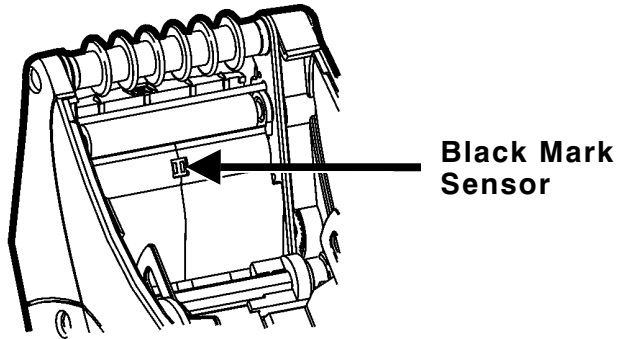
1. Turn the printer off and open the supply cover.
2. Remove the supplies. See “Removing Supplies” in Chapter 3.
3. Open the label deflector by gently pressing down with two fingers.
4. Clean the on-demand sensor with a soft cloth moistened with water.



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

To clean the black mark sensor:

1. Turn the printer off and open the supply cover.
2. Remove the supplies. See “Removing Supplies” in Chapter 3.
3. Clean the black mark sensor with a soft cloth moistened with water.



4. Reload the supplies and close the supply cover.

Scanner Window

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

1. Moisten a soft cloth with water.
2. Wipe the window until it is completely clean.

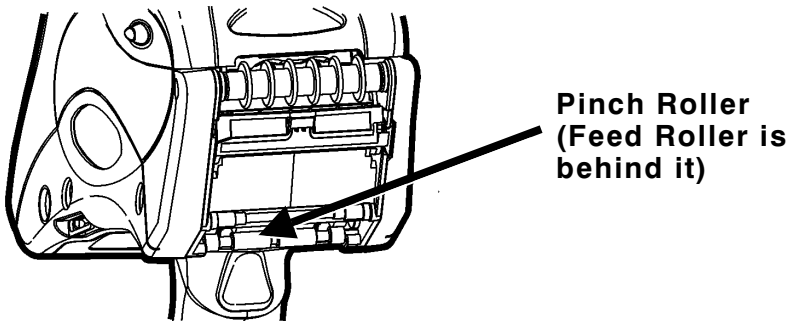
Clearing Supply Jams

To clear a supply jam:

1. Turn off the printer.
2. Open the supply cover completely.
3. Open the label deflector by gently pressing down on it with two fingers.
4. Remove the supplies. See “Removing Supplies” in Chapter 3.
5. 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.

6. Carefully remove any jammed supply between the pinch and feed rollers.



7. Reload the supplies and close 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.

TROUBLESHOOTING

6

Following are some common printer problems and their solutions.

Problem	Solution
Printer will not feed.	Switch to a fully-charged battery.
	Close the supply cover completely.
	Load the supply correctly.
	Check the platen roller for jammed labels.
Printer will not print.	Switch to a fully-charged battery.
	Load the supply correctly.
	Clean the printhead.
Print has voids or is too light.	Load the supply correctly.
	Close the supply cover completely.
	Switch to a fully-charged battery.
	Clean the printhead.
	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.
	Clear any supply jams.
	Clean the printhead.
	Switch to a fully-charged battery.
CMOS Error	Replace the backup battery. See “Using the Backup Battery” in Chapter 2.
Scanner will not scan a bar Code.	See “Scanning Bar Codes” in Chapter 4.
The display does not turn on.	Make sure the power is on.
	Switch to a fully-charged battery.

Error Codes

Following are some common error codes you may receive and their meanings.

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.
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.
757	Load supplies. The calibrated supply length differs by plus or minus .25 inches from the format.
758	Check supply. Either the supply is not seen, or the on-demand sensor is broken (purchase optional). Check for a label jam. Clear the supply path or reload supplies. The printer does not recalibrate after this error.
762	Low battery. Recharge the battery.
763	Waiting to dispense label. Press Enter.
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 turn it back on.
904 – 911	System error. See your System Administrator.
SYSTEM ERROR VECTOR ##	System error. See your System Administrator.

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.

GLOSSARY

A

To use this printer, you should be familiar with the following terms.

Term	Definition
Alphabetic mode	The print mode where the user presses the Shift key to ♦ display a letter. ♦ delete all data on the current line when pressed with Bksp.
Bar code	A sequence of vertical black and white bars or a square of black and white dots. The spacing and thickness of these bars or dots is a way of representing data. A scanner reads bar codes.
Non-peel mode	The print mode that does not remove the backing paper. It is for labels printed in a continuous strip, tags, and receipt paper.
Numeric/Symbol mode	The default data entry mode. In it, the user presses a key to display what appears on the face of the key.
Peel mode	The print mode that 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.
Platen roller	The surface in the printer that the supply is held against. It rotates, helping to move the supply along.
Printhead	The surface in the printer where the printing occurs. The supply moves across the printhead to get the label printed.
RF	Radio frequency. A special type of printer communication in which it “talks” to a base station without a cable.
Sensor	A device that “sees” a new label has started. It works by using either black marks on the back of the supplies or sensing when a label ends.
Supplies	The paper (labels, tags, or receipt paper) printed on.
Special key mode	The data entry mode after the user presses the Fct or Alt keys and then a number to access functions or display special characters.

REFERENCE INFORMATION

B

Specifications

Dimensions:	Width – 7.75" (197mm) Length – 3.25" (83mm) Height – 6.50" (165mm) Weight – 2.2 lbs. (1 kg) Shipping Weight – 5.86 lbs. (2.66 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:	1MB RAM and 2MB Flash
Battery Type:	7.4V Lithium Ion (110V – 240V AC adapter) 3V Lithium Coin Cell
Battery Recharge Time:	1 – 3 hours, depending on the charger used.
Supply Sizes:	Width 1.2", 1.5", and 2.0" (30mm, 38mm, and 51mm) Lengths .785" – 4.0" (20mm – 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/Options

- ◆ On-demand sensor
- ◆ 9462 Single-Station Battery Charger
- ◆ 9464 4-Station Battery Charger
- ◆ AC Power Supply (110V – 240V)—operating range is 95V – 264V
- ◆ Integrated Laser Scanner (regular or high-speed)
- ◆ Memory or Radio Cards
- ◆ Extra Battery
- ◆ Documentation*
- ◆ Wrist Strap
- ◆ Software Development Kit*

*Available on Web site (www.monarch.com)

For supplies, service, or assistance call toll free:

1-800-543-6650 (USA)

1-800-263-4650 (Canada)

44 1279 786777 (UK)

45 14 67 00 (France)

49 5731 78060 (Germany)

34-93 746 43 10 (Spain)

01 800 300 72927 (Mexico)

55 (47) 338 2396 (Brazil)

61 2 9647 1833 (Australia)

852-2328-9949 (Hong Kong)

94-1-46500 (Sri Lanka)

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