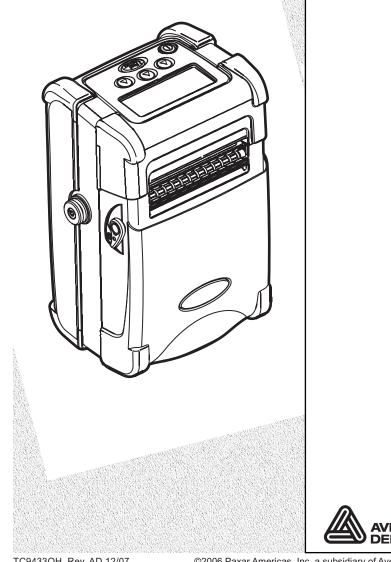
# Operator's Handbook

Monarch® 9433<sup>тм</sup> Sierra Sport3<sup>тм</sup> Printer



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#### WARNING

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

RF Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference including interference that may cause undesired operation of the device.

#### CANADIAN D.O.C. WARNING

This digital apparatus does not exceed the Class B 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 B prescrites dans le Réglement 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, Ohio 45342

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# GETTING STARTED

The Monarch® Sierra Sport3<sup>TM</sup> 9433<sup>TM</sup> printer is a portable, thermal-direct printer that prints on tags, labels, or receipt paper.

Note: Information in this document supercedes information in previous versions. Check our Web site for the latest documentation and release information.

## Using This Manual

Following is a summary of the contents of this manual.

|          | Chapter               | Contents  |
|----------|-----------------------|---|
| 1        | Getting Started       | Information you should know before using the printer. |
| 2        | Loading Supplies      | How to load and remove supplies.                      |
| 3        | Care &<br>Maintenance | Clearing supply jams and cleaning the printer.        |
| 4        | Troubleshooting       | Common problems and their solutions.                  |
| A        | Specifications        | Printer and supply specifications.                    |
| В        | Accessories           | Printer accessories and part numbers.                 |
| С        | Printer Options       | Available printer options.                            |
| Audience |                       |   |

The *Operator's Handbook* is for the person who prints and applies labels.

Getting Started 1-1

## Additional Documentation

A Quick Reference for this printer is available in the box. A Programmer's Manual and System Administrator's Guide are available or Web site (www.paxar.com).

## Printer Utilities

The Monarch® MPCL<sup>™</sup> Toolbox utilities are also available on our Web site and are free to download. This group of development utilities helps you configure the printer, customize fonts, and download files.

## Unpacking the Printer

After you unpack the printer, you may have (depending on your order):

- a 9433 printer
- one or more batteries
- an AC power adapter
- a shoulder/hand strap
- a communications cable
- a 3-inch core (for fan-fold supplies)
- Note: When unpacking, make sure you look through all of the packaging material for items. Keep all packaging material in case you need to move or return the printer.

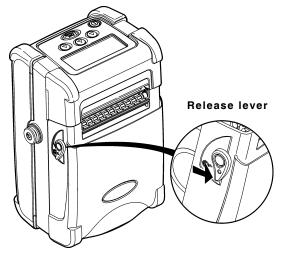
If any items are missing, contact Paxar at the number listed on the back of this manual for replacement items.

**1-2** Operator's Handbook

## Installing the Battery

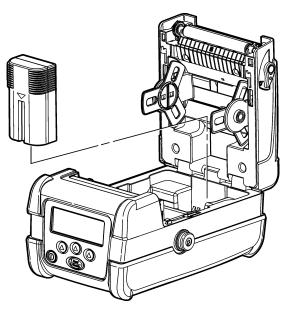
The printer uses a 7.4V Lithium Ion battery. The battery can be installed with or without supplies loaded.

- **Note:** Make sure you charge the battery before using it.
- 1. Pull the release levers located on both sides of the printer to open the supply door.



Getting Started 1-3

2. Insert the connector end of the battery into the printer.



- **3.** Close the supply door until the release levers click into place.
- Turn on the printer by pressing and holding 
  until the display turns on.

The display flashes printer version information, battery charging status, and then you see

Ready "

#### 1-4 Operator's Handbook

### Battery and Safety Information

- You must charge a battery before using it. For optimal battery life, charge the battery within three months of receipt.
- Warning: Use only Monarch chargers (Monarch® 9462<sup>™</sup> Single Station Charger or the Monarch® 9465<sup>™</sup> Four Station Charger) designed for Lithium Ion batteries when charging. 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). For more information about storage temperatures, see Appendix A, "Specifications." 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).
- Charging time is approximately 1 to 3 hours.
- Recycling Information Do not throw in trash. Recycle 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.

Getting Started 1-5

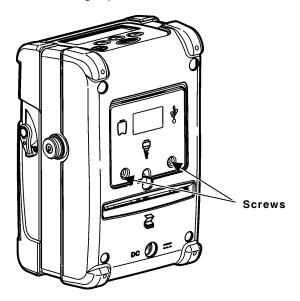
- **Note: Do not** disassemble, short-circuit, heat above 80°C, or incinerate the battery. It may explode.
- The battery should be charged immediately for long-term storage, or after the battery has been exhausted from a printing session. Frequent charging will prolong battery life and has no negative effects.
- **Do not** let the battery get wet or come into contact with metal objects.
- **Do not** use a battery with a cracked case.
- It is normal for battery capacity to decrease up to 20% over the first 300 cycles of use.
- The printer uses battery power even when the printer is not printing. Remove the printer's battery and place it on a charger when the printer is not in use.
- Many factors affect the battery's performance, including the quantity of labels printed, intervals of batches printed, percentage of black per label, and power management.

#### 1-6 Operator's Handbook

## **Connecting the Communications Cables**

9-pin serial communication cables and USB cables are available. For best results, use only Monarch® cables. See Appendix B, "Accessories" for part number information.

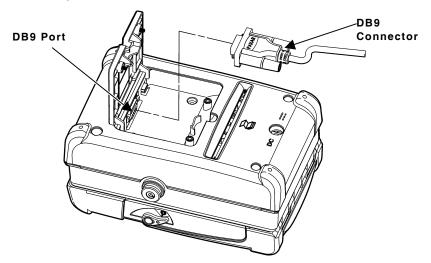
Open the hinged cable door by loosening the two Philips screws and lifting up on the door.



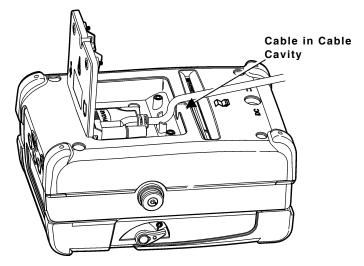
Getting Started 1-7

### Serial Cable

#### 1. Plug the DB9 connector into the DB9 port.



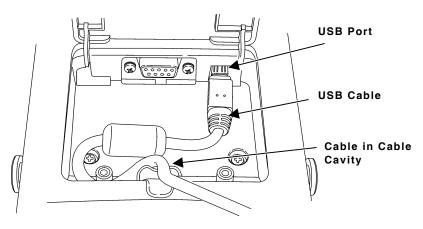
2. Place the cable in the cable cavity.



- **3.** Close the hinged cable door and tighten the screws.
- 1-8 Operator's Handbook

### USB Cable

#### 1. Plug the USB cable into the USB port.

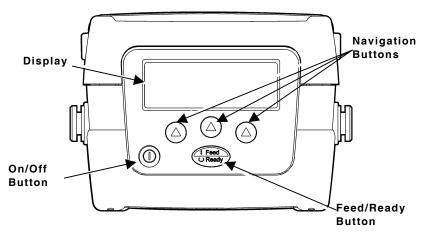


- 2. Lock the cable in place by placing it behind the left screw post and into the cable cavity as shown.
- **3.** Closed the hinged cable door and tighten the screws.

#### Getting Started 1-9

## Using the Display and Buttons

- ① Turns the printer on and off.
- Advances the supply or returns the display to the next higher menu.
- Three navigation buttons for selecting options on the display.



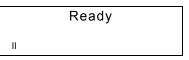
#### 1-10 Operator's Handbook

## Printing

The host sends online packets containing print jobs to the printer. Make sure supplies are loaded.

1. Turn on the printer by pressing and holding (1) until the display turns on.

The display flashes printer version information, battery charging status, and then you see



2. Download a format and a batch.

For information on creating packets and downloading print jobs, refer the *Programmer's Manual*, available on our Web site.

The printer prints either a continuous strip of supplies or one at a time (on-demand mode).

3. Remove the printed supplies.

Getting Started 1-11

### 1-12 Operator's Handbook

# LOADING SUPPLIES

2

This chapter describes how to load supply for

- non-peel mode (prints a continuous strip of supply)
- peel mode (prints and separates the label from the liner).

Loading tips:

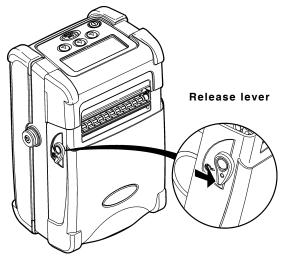
- The printer may be on or off when loading supplies.

Loading Supplies 2-1

## Loading for Non-Peel Mode

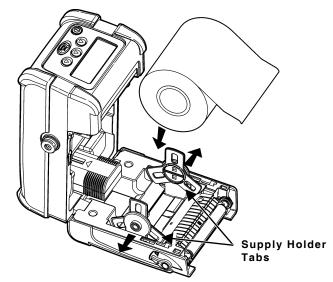
Use these instructions to load labels, tags, and receipt paper to print in a continuous strip.

1. Pull the release levers located on both sides of the printer to open the supply door.

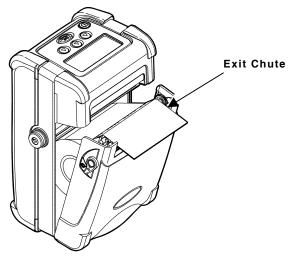


- 2. Remove the tape from a new roll of supply.
- **3.** Push apart the supply holder tabs to widen the supply holders. Insert a roll of supplies.

#### 2-2 Operator's Handbook

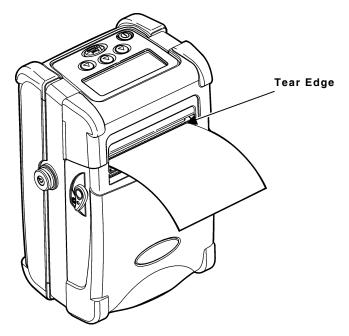


- **Note:** The supply should unwind from the top with the loose end of the supply feeding through the exit chute.
- 4. Pull out enough supply to lay across the exit chute and raise the supply door back to the upright position as shown.



Loading Supplies 2-3

- 5. Close the supply door until the release levers click into place.
- 6. Press 🕢 to advance the supply. If you receive a supply error, see Chapter 4, "Troubleshooting," for more information.



**Caution: Do not** touch the tear edge. You may cut yourself.

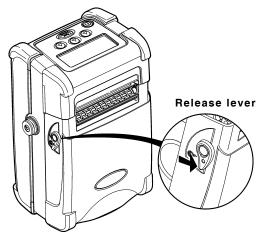
### **Tearing the Supplies**

Tear the supply from the right or left using the tear edge as a guide.

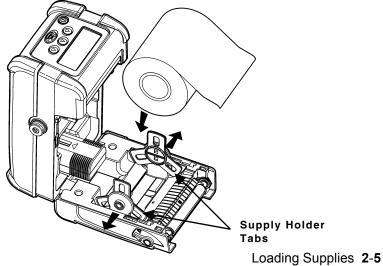
**Note: Do not** pull straight up on the supply. You may lose registration.

#### 2-4 Operator's Handbook

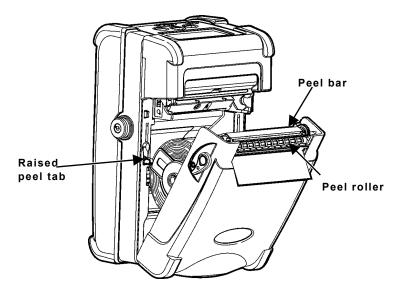
Use these instructions to print labels and separate them from the liner (on-demand).



- 1. Pull the release levers located on both sides of the printer to open the supply door.
- 2. Remove the tape from a new roll of supply.
- **3.** Push apart the supply holder tabs to widen the supply holders. Insert a roll of supplies.

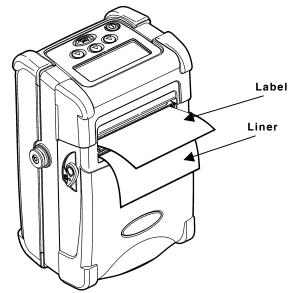


- **Note:** The supply should unwind from the top with the loose end of the supply feeding through the exit chute.
- 4. Raise the peel tabs on both sides of the printer.
- 5. Remove a couple of labels from the liner. Feed the liner over the platen roller, over the peel bar, and under the peel roller.



#### 2-6 Operator's Handbook

- 6. Close the supply door until the release levers click into place.
- 7. Lightly tug on the liner to remove the slack.
- Press to advance the supply. If you receive a supply error, see Chapter 4, "Troubleshooting," for more information.



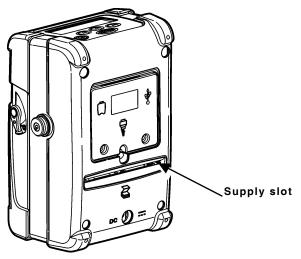
The liner separates from the label.

Loading Supplies 2-7

## Loading Fan-Fold Supplies

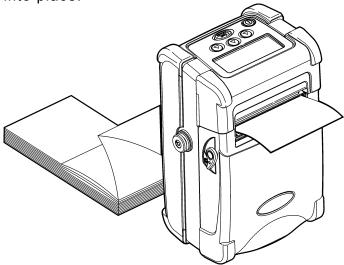
Use these instructions to load fan-fold supply.

- 1. Pull the release levers located on both sides of the printer to open the supply door.
- Insert the 3-inch core in between the supply holder tabs to open them to their widest position.
- **3.** Place a stack of fan-fold supplies behind the printer, printing side up.
- Slide the supply guides, located inside the printer on each side of the external supply slot, out to their widest position.
- 5. Feed the fan-fold supply, printing side up, into the supply slot on the back of the printer.



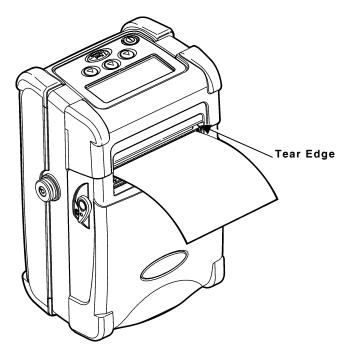
- 6. Center adjust the supply guides so that they barely touch the edge of the supply.
- Pull out enough supply to lay across the exit chute.
- **2-8** Operator's Handbook

**8.** Close the supply door until the release levers click into place.



 Press () to advance the supply. If you receive a supply error, see Chapter 4, "Troubleshooting," for more information.

Loading Supplies 2-9



**Caution: Do not** touch the tear edge. You may cut yourself.

### **Tearing the Supplies**

Tear the supply from the right or left using the tear edge as a guide.

**Note: Do not** pull straight up on the supply. You may lose registration.

#### 2-10 Operator's Handbook

# CARE & MAINTENANCE



This chapter explains how to

- clean the printhead, platen roller, and supply sensors
- clear label jams.
- Caution: Do not touch the printhead with your fingers. The printhead may be hot after printing and may burn you. Wait until the printhead is cool before cleaning. Do not use sharp objects around the printhead. This may damage the printhead and require a service charge.

## Cleaning

Your printing rate and frequency determines how often you must clean the printer.

You may need to clean the printhead and platen roller

- after using seven to ten (7-10) rolls of supplies
- in extreme temperatures, humid conditions or a dirty environment
- when you see voids in the print as shown



• after a label jam.

You may have to clean the supply sensors more often if you receive supply error messages frequently.

Care & Maintenance 3-1

Use any of the following items to clean the printhead:

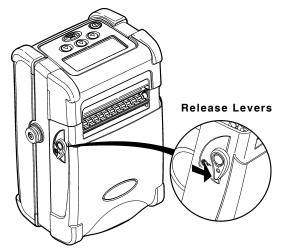
• A soft cloth moistened with isopropyl alcohol.

**Caution:** Use isopropyl alcohol on the interior areas only, never on the exterior.

• A Monarch Cleaning Pen (part number 114226).

To clean the printhead, platen roller, and supply sensors:

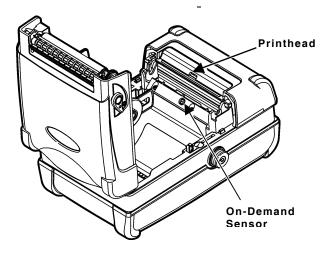
- Turn off the printer by pressing and holding 
   until the display is blank.
- **Note: Do not** use sharp objects to remove adhesive or label particles from the printhead area.
- 2. Pull the release levers located on both sides of the printer to open the supply door.



3. Lay the printer on its back.

#### 3-2 Operator's Handbook

- Clean the printhead with a clean soft cloth moistened with isopropyl alcohol, a cleaning pen, or a small brush.
- **Note:** The printhead is sensitive to static electricity, which can damage the printhead or reduce its life. Ground yourself by touching a metal surface before cleaning the printhead.



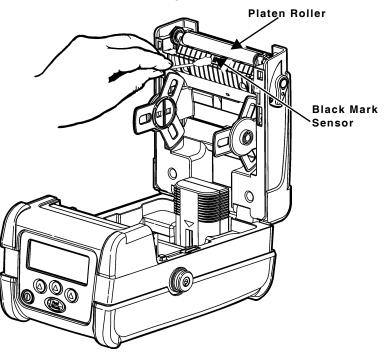
5. Clean the on-demand sensor with a clean soft cloth, a cotton swab moistened with isopropyl alcohol, or a cleaning pen.

Care & Maintenance 3-3

6. Clean the platen roller with a clean soft cloth moistened with isopropyl alcohol or a cleaning pen.

Turn the platen roller with your finger to clean the entire surface.

 Clean the black mark sensor with a clean soft cloth or cotton swab moistened with isopropyl alcohol or a cleaning pen.



- 8. Reload the supply.
- **9.** Close the supply door until the release levers click into place.
- 10. Turn on the printer by pressing and holding until the display turns on.
- **3-4** Operator's Handbook

When you are printing and a jam occurs, a supply error message appears. To clear the jam:

- Turn off the printer by pressing and holding until the display is blank.
- 2. Pull the release levers located on both sides of the printer to open the supply door.
- **3.** If necessary, remove the roll of supplies.
- **4.** Remove the jammed supplies and reload the supply.
- 5. Close the supply door until the release levers click into place.
- 6. Turn on the printer by pressing and holding (1) until the display turns on.

### 3-6 Operator's Handbook

# TROUBLESHOOTING

This chapter lists some of the common printer problems and their possible solutions. If these solutions do not work, call Service at the number listed on the back of this manual.

| Problem                                   | Solution  |
|---|---|
| Printer does                              | Use a fully charged battery.  |
| not feed or<br>print.                     | Close the supply cover completely.  |
| OR  | Load supply properly. See Chapter 2,<br>"Loading Supply" for more information.  |
| Print has<br>voids or is<br>too light     | Clean the printhead. See Chapter 3,<br>"Care and Maintenance" for more<br>information.  |
|   | Run the printer diagnostic tests. Refer to the System Administrator's Guide for more information.   |
| Printer turns                             | Recharge the battery.   |
| off while<br>printing                     | Resend the format.  |
| and/or the<br>display goes<br>blank.      | Check your format for unnecessary thick<br>horizontal lines. The maximum black to<br>white print ratio for each label/tag is 25%.                 |
| Supply does<br>not calibrate<br>properly. | Check the on-demand, black mark, die<br>cut, or non-indexed sensors. Refer to the<br><i>System Administrator's Guide</i> for more<br>information. |

Troubleshooting 4-1

## **Common Errors**

The following is a list of common printer errors you may receive. If you receive a message not listed here, see your System Administrator or call Service at the number listed on the back of this manual.

| Error                  | Description  |
|------------------------|--|
| 025<br>Invalid Length  | String length is outside the range <b>0</b> to <b>2710</b> .   |
| 101<br>Invalid/Missing | The format referenced by batch is not in memory.   |
| 409<br>Memory Full     | The printer memory is full. Delete<br>unnecessary formats or graphics from<br>memory.                    |
| 410<br>Parity          | Parity mismatch. Check your parity settings at the printer and at the host.                              |
| 411<br>Framing         | Framing error (baud rate mismatch).<br>Check your baud rate settings at the<br>printer and at the host.  |
| 413<br>Overrun         | Online receive queue is full. Check for a flow control problem.  |
| 611<br>Error Loading   | Font, bar code, or density in the batch does not fit the format.   |
| 612<br>Invalid Data    | The data in this line of the batch is missing or does not match the format.                              |
| 613<br>Invalid Data    | Reference point off supply.  |
| 614<br>Invalid Data    | Portion of field off supply or there may be an invalid character in the packet.                          |
| 703<br>Check Supply    | The printer sensed a calibration of different-sized black marks. Make sure the correct supply is loaded. |

#### 4-2 Operator's Handbook

| Error                | Description  |
|----------------------|--|
| 704<br>Check Supply  | Printer has not sensed a supply mark<br>within the specified number of inches<br>or is out of supplies. Check the supply<br>tracking, supply marks, black mark<br>sensor position, and supply roll for<br>binding. Press () under x to clear the<br>error. Change supply.                    |
| 750<br>Hot Head      | Printhead is overheated. Press (a)<br>under x to clear the error. Turn off the<br>printer to let the printhead cool.<br>If error persists, call Service.   |
| 751<br>Check Supply  | Printer did not sense a black mark<br>when expected. For errors 751-753,<br>Check the supply tracking, supply<br>marks, black mark sensor position, and<br>supply roll for binding. Press (a) under<br><b>x</b> to clear the error and try to continue<br>printing the batch. Change supply. |
| 752<br>Check Supply  | Printer sensed a mark in the wrong place. Press $$ under <b>x</b> to clear the error.  |
| 753<br>Check Supply  | Printer sensed a mark that is too long. Press ( ) under $\mathbf{x}$ to clear the error.   |
| 756<br>Load Supplies | Load supplies. Press (a) under <b>x</b> to clear the error.  |
| 757<br>Load Supplies | Load supplies (supply length<br>mismatch), because the calibrated<br>supply length differs by plus or minus<br>0.25 inches from the format. Press (<br>under <b>x</b> to clear the error.  |

Troubleshooting 4-3

| Error                     | Description  |
|---------------------------|--|
| 758<br>Check Supply       | Either the supply is not seen or the on-<br>demand sensor is broken. Press (a)<br>under x to clear the error. Check for a<br>label jam, clear the supply path, or<br>reload supplies. This error may occur if<br>you remove a label too quickly in on-<br>demand mode. The printer does not<br>recalibrate after this error. |
| 762<br>Low Battery        | Recharge the battery. Press $$ under $\mathbf{x}$ to clear the error.  |
| 763<br>Remove Label       | Waiting to dispense label. Press $\textcircled{A}$ under $\mathbf{x}$ to clear the error.  |
| 765<br>Check<br>Printhead | The printhead has less than four bad<br>dots. The printer can shift bar code<br>fields to avoid bad dots. Press (a) under<br><b>x</b> to clear the error and continue printing.  |
| 768<br>Check<br>Printhead | Printhead has more than 10 bad dots or is not connected. Connect the printhead. Press ( ) under $\mathbf{x}$ to clear the error.   |
| 791<br>Error Pending      | The printer has an error pending. Turn<br>off the printer. Wait 15 seconds and turn<br>it back on. Resend the packets.   |

If you see a System Error Vector ## on the display, call Service for instructions. If you need to return the printer to Paxar, use the original packaging.

#### 4-4 Operator's Handbook

# SPECIFICATIONS



This appendix includes information about printer specifications and cable pin-outs.

## **Printer Specifications**

| Height:                                   | 3.5" (89 mm)  |
|---|---|
| Width:                                    | 5.25" (133 mm)  |
| Depth:                                    | 7.25" (184 mm)  |
| Weight (with<br>Battery and<br>Supplies): | 2.47 lb. (1.12 kg)  |
| Shipping Weight<br>(no supplies):         | 3.35 lbs. (1.5 kg) - depends<br>on options shipped with<br>printer. |
| Display:                                  | 2-line graphical LCD with<br>backlight                              |
| Printhead:                                | 3.0" (76 mm)<br>203 dpi (8 dots per mm)                             |
| Memory:                                   | 2 MB SDRAM<br>4 MB Flash  |
| Power:                                    | 7.4V Lithium Ion battery  |
| Battery Life:                             | 4000" of 25% black<br>supplies at 3ips.                             |

Specifications A-1

| Operating Limits<br>(Printer):              | 32° to 109° F (0° to 43° C)<br>Storage 14° to 122° F (-10° to<br>50° C)  |
|---|--|
| Relative Humidity<br>(Battery and Printer): | 5% to 90%<br>non-condensing  |
| Printing Method:                            | Thermal Direct   |
| Recommended<br>Duty Cycle:                  | 33% Duty Cycle (5 minutes<br>out of 15 minutes time<br>intervals). On-demand or<br>intermittent printing has no<br>restrictions. |

### A-2 Operator's Handbook

# Supply Specifications

| Supply Types:    | Labels, tags, or receipt paper                    |
|------------------|---|
| Supply Widths:   | 0.5" (13 mm) minimum<br>2.99" (76 mm) maximum     |
| Supply Lengths:  | 0.375" (9.5 mm) minimum<br>12.0" (305 mm) maximum |
| Max. Print Area: | 3.0" (76 mm) x 12" (305 mm)                       |
| Cable Pin-outs   |   |

#### ANSI/EIA-232-D

| Contact # | Description                                      |
|-----------|--|
| 6         | DSR (Data Set Ready)                             |
| 1         | Reserved - Do not connect                        |
| 4         | DTR (Data Terminal<br>Ready), or +5V if selected |
| 5         | Signal Ground                                    |
| 2         | Received Data (RXD)                              |
| 3         | Transmitted Data (TXD)                           |
| 8         | Clear to Send (CTS)                              |
| 7         | Request to Send (RTS)                            |
| 9         | No connect                                       |

### A-4 Operator's Handbook

# ACCESSORIES



This appendix lists the accessories that work with your printer and briefly describes them.

Use these part numbers when ordering an item. Call Paxar at the number listed on the back of this manual to order parts or supplies.

| Accessory Items                   | Part Number |
|-----------------------------------|-------------|
| Single Station Battery<br>Charger | M09462      |
| Four Station Battery<br>Charger   | M09465      |
| Spare Battery                     | 12009502    |
| Serial Cable - DB9 to 9-pin       | 12665914    |
| USB Cable                         | 125859      |
| 3-inch Core                       | 90096       |
| Shoulder Strap                    | 119998      |
| Hand Strap                        | 120277      |
| Cleaning Pen                      | 114226      |
| Operator's Handbook               | ТС9433ОН    |
| Programmer's Manual               | ТС9433РМ    |
| System Administrator's<br>Guide   | TC9433SA    |

Accessories B-1

## Single Station Battery Charger

The Monarch® 9462<sup>™</sup> Single Station Battery Charger charges one battery at a time. See Chapter 1 for more information about the battery. For more information about the Single Station Battery Charger, refer to 9462 Operating Instructions included with the charger.

## Four Station Battery Charger

The Monarch® 9465<sup>TM</sup> Four Station Battery Charger charges the individual batteries or the printer with a battery installed. Full charging of a battery takes between 1.5 hours and 3 hours. For more information about the Four Station Charger, refer to the 9465 Operating Instructions included with the charger.

## **Carrying Accessories**

A shoulder strap and hand strap are available for carrying the printer. Refer to your *Operating Instructions* provided with each strap for more information.

#### B-2 Operator's Handbook

# PRINTER OPTIONS

This appendix lists the options that may be installed in your printer.

- Linerless
- Bluetooth®

## Linerless

The printer is configured to use supplies without the backing paper. This option is available at the time of order.

## Bluetooth @

Bluetooth wireless technology provides a low powerconsuming method to communicate between devices. It has a maximum range of 30 feet (10m). Our Bluetooth device connects to your printer's serial port and conforms to V2.0 of the Bluetooth specification. The printer defaults to receiving unencrypted data for the Bluetooth device. See the *System Administrator's Guide* for more information about Bluetooth.

Printer Options C-1

### C-2 Operator's Handbook

Visit **www.paxar.com** for sales, service, supplies, information, and telephone numbers for our International locations.

TOLL FREE: 1-800-543-6650 (In the U.S.A.) 1-800-363-7525 (In Canada)

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