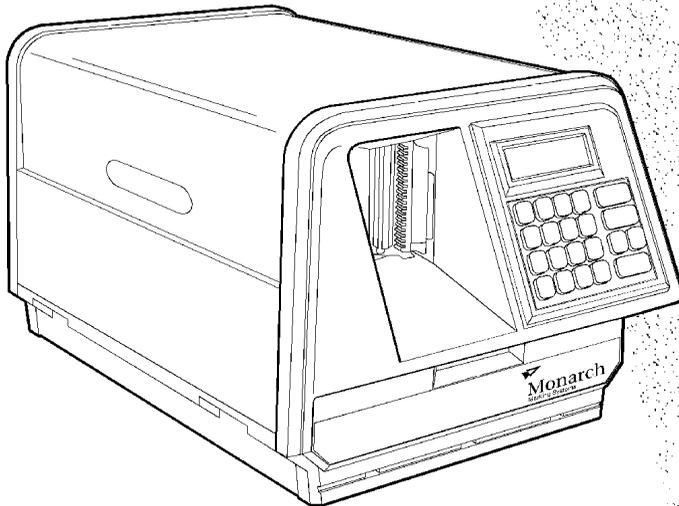


# Operator's Handbook

**Monarch®**  
**9403™ Printer**



**Monarch®**  
**PAXAR**

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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.

### **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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## **STATEMENT OF WARRANTY ON MONARCH MACHINES**

### Limited Warranty

THIS LIMITED WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OR REPRESENTATIONS EXPRESSED OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR BUYER'S PURPOSES. THERE IS NO WARRANTY WHICH EXTENDS BEYOND THE LIMITED WARRANTY.

The Monarch product covered by this limited warranty is warranted to be free from defects in materials and workmanship for a period of one (1) year from the date of shipment to the original purchaser. The limited warranty on the printhead is one million inches.

Monarch further warrants the satisfactory operation of the Monarch product during the warranty period, unless the product is damaged by accident, abuse or violence, or the original purchaser uses other than the standard supplies furnished by or meeting the specification of Monarch, or the Monarch product is operated or maintained contrary to the instructions provided by Monarch. This warranty is void if the machine is altered or repaired by other than Monarch representatives.

This warranty does not include the furnishing of ribbons, ink rollers, tags, labels, or other supplies.

The Monarch product requiring warranty service may be shipped to the nearest authorized Monarch service facility with the transportation charges PREPAID. Monarch is NOT responsible for damage that occurs during shipment if the product is not shipped in the original Monarch packaging. The Monarch product will be repaired free of charge during the warranty period.

This warranty is valid only in the United States.



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# GETTING STARTED

# 1

The Monarch® 9403™ printer prints text, graphics, and bar codes on thermal transfer (ribbon) or thermal direct supplies. The 9403 printer prints labels continuously (in one strip).

This chapter includes information about

- ◆ unpacking the printer.
- ◆ connecting the power cable.
- ◆ connecting the communications cable.
- ◆ using the printer's control panel.

## Standard Features

---

The following features are standard on the 9403 printer:

- ◆ 203 dots per inch (DPI) printhead
- ◆ 2-inch by 6-inch print image
- ◆ 21-key keypad
- ◆ 2 inches per second maximum print speed
- ◆ baud rate up to 19200
- ◆ formats, graphics, and check digits saved in Flash memory when printer is turned off (version 2.0 or greater)

## Audience

---

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

## Ordering Programmer's Manuals

---

An online version of the Packet Reference Manual describes how to create a format and batch packets for printing labels, how to diagnose printer error messages, and how to perform other advanced techniques. It is included with the MONARCH® quick-set software where you can print this manual, or you can order a hard-copy version (part number TC9800PM). e-mail to [gomaro@bluewin.ch](mailto:gomaro@bluewin.ch)

## Unpacking the Printer

---

After you unpack the printer, you should have

- ◆ 9403 printer
- ◆ power cord
- ◆ Operator's Handbook
- ◆ MONARCH quick-set software.

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

## Connecting the Power Cable

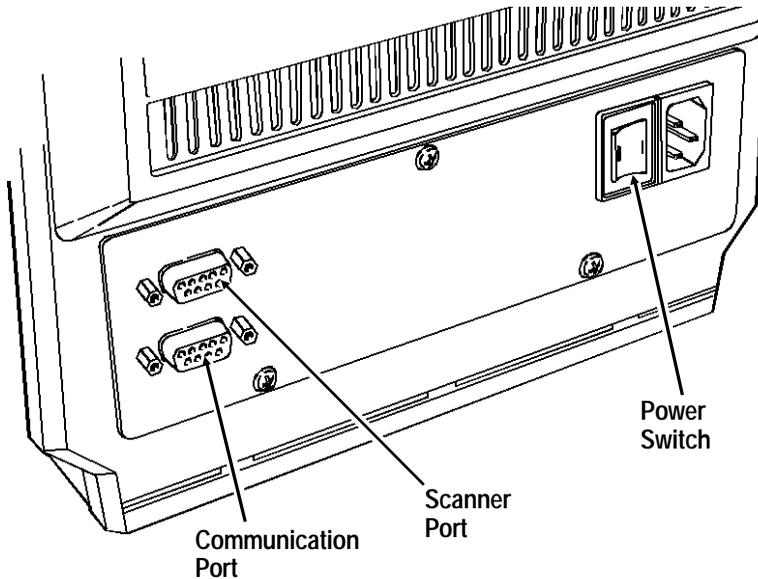
---

To connect the power cable:

### CAUTION

The power switch must be off while you connect any cables to the printer.

---



The scanner port is not active.

---

1. Plug the power cable into the socket. Plug the other end of the cable into a grounded electrical outlet.
2. Turn on the printer. Press (I) to turn on and (O) to turn off the printer.

## Establishing Communications

---

Before the printer can accept print jobs from the host, you must

- ◆ connect the communication cable to the printer and to the host.
- ◆ set the communication values on the printer to match those at the host.

### Connecting the Communication Cable

Make sure the printer is off before connecting the cable to the communication port.

#### Serial Communication

9 to 25 pin cable (#110451)

9 to 9 pin cable (#112073)

Connect the communication cable into the bottom port on the printer and the appropriate port of the host.

### Default Serial Port Communication Values

If you are communicating with the host through the serial port, make sure the printer's communication values match those at the host. The factory default values are:

- ◆ Baud                            9600
- ◆ Word Length                8 bit
- ◆ Stop Bits                      1 stop bit
- ◆ Parity                         none
- ◆ Flow Control                DTR

To change the printer's communication values, see Chapter 5, "Communication Values," or your System Administrator.

# About This Manual

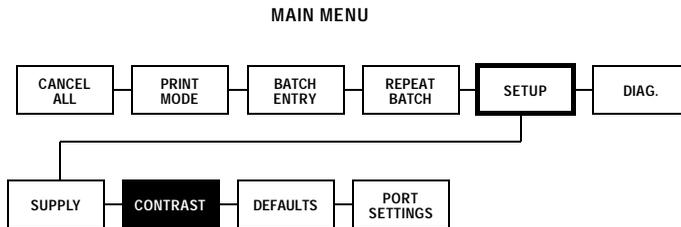
---

This manual explains how to

- ◆ load supplies and ribbons.
- ◆ set up and begin using the printer.
- ◆ select menu options.
- ◆ enter data.
- ◆ print supplies online or offline.
- ◆ perform general maintenance procedures.

## Menu Charts

Each chapter of this manual has one or more charts showing the printer's menu structure. For example:



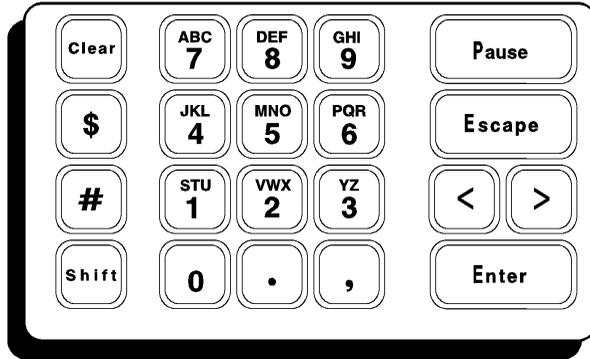
- ◆ Normal border boxes show the menu options.
- ◆ Heavy border boxes show the selections to get to the functions.
- ◆ Black background boxes show the functions.

The black boxes show where you are; the bordered boxes show how you got there.

## Using the Keypad

---

You can control printer operation and enter data offline using the keypad.



The printer has 21 keys allowing offline data entry. This keypad includes 7 function keys, 10 numeric keys, and 4 symbol keys.

### Control Keys

**Pause**

Interrupts printing.

Enters an international character for printing when you enter **Pause** plus a three-digit code. See Appendix B for more information.

**Escape**

Returns the display to the next higher menu, when you press **Escape** once.

In data entry, press **Shift**, then press **Escape** to return to the Main Menu.



Displays the next menu item.



Displays the previous menu item.



Selects the displayed menu item.

Use the alphanumeric keys to enter batch data. To switch between characters and numbers, press .

## Startup

---

When you turn the printer on, the printer displays a copyright message. You will see other messages as the printer loads formats.

The next message depends on how your printer is set up.

- ◆ If your printer is set for online power-up mode, you will see:

PRINT MODE Ready
---------------------

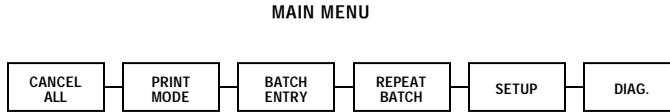
- ◆ If your printer is set for offline power-up mode, you will see:

←	MAIN MENU Print Mode	→
---	-------------------------	---

## Selecting a Function

---

The Main Menu has several functions (operating modes). These functions are shown in the chart below.



If the printer displays PRINT MODE Ready when you turn it on, press **Escape** to display the Main Menu.

To display menu options, press the arrow keys.

- ◆ When the screen displays a right arrow, press **>** to display more options.



- ◆ When the screen displays a left arrow, press **<** to display more options.



- ◆ When the screen displays a left and a right arrow, press either **<** or **>** to display more options.



- ◆ When you see the menu option you want, press **Enter** to select it.

## Exiting an Option

---

To exit an option, press **Escape** once. You will exit to the next higher menu.

---

When you press **Escape**, you lose any entries you have made since the last time you pressed **Enter**.

---

## Setting Up the Printer

---

Before you use the 9403 printer, you will need to set up your printer correctly. You may need to refer to the Packet Reference Manual as well as this manual.

To set up your printer:

1. Load your supply. See Chapter 3, "Loading Supplies."
2. Load your ribbon, if needed. See Chapter 2, "Loading a Ribbon."
3. Set the supply type. See Chapter 4, "Setting Supply Options."
4. Set the printer port options to match your computer's online communication values. See Chapter 5, "Communication Values."
5. Set the defaults. See Chapter 7, "Setting Defaults."
6. Download a label design with a bar code. See the Packet Reference Manual.
7. Check the print quality of the bar code with a verifier or your scanner.

8. If you do not have a verifier or scanner, check the bar code visually. A bar code that is in spec will have complete bars and clear spaces. Small alphanumeric characters will look complete. A bar code that is in spec may not look as good as one that is too dark, but it will have the highest scan rate.

**MONARCH MARKING**



1 2345678901

DAYTON, OHIO

**Dark**

**MONARCH MARKING**



1 2345678901

DAYTON, OHIO

**IN SPEC**

**MONARCH MARKING**



1 2345678901

DAYTON, OHIO

**Light**

9. If your print quality is not satisfactory, adjust your print contrast. See Chapter 6, "Setting the Contrast."
10. Download another label. If the print contrast is still not satisfactory, call Technical Support.

# LOADING SUPPLIES

## 2

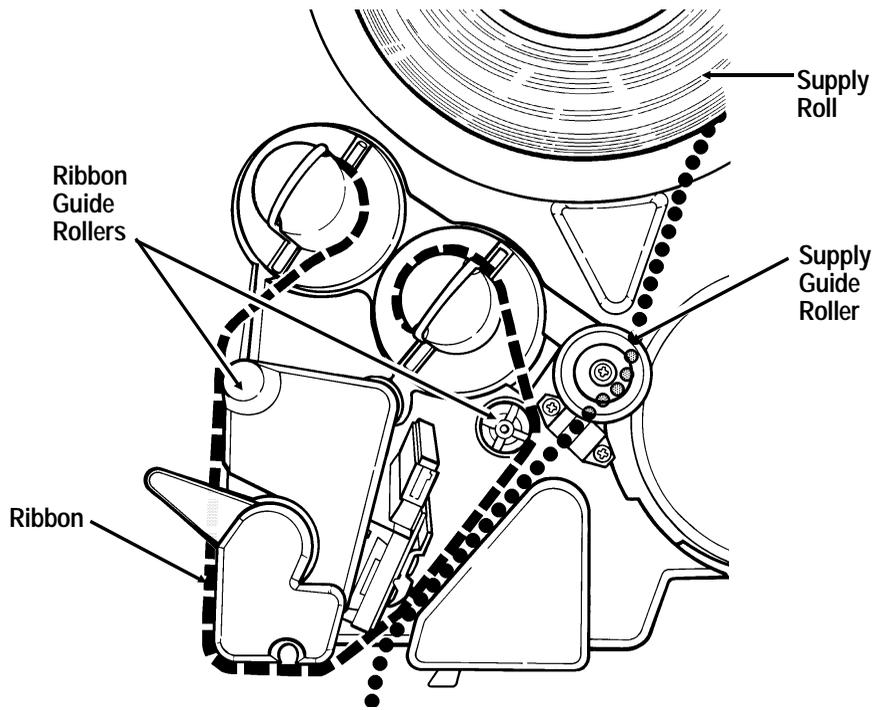
This chapter explains how to load supplies for continuous printing. The 9403 printer prints tags or labels in one strip.

The 9403 printer uses a standard 3-inch (76.2mm) core supply.

# Supply Loading Diagram

---

The illustration below shows the correct routing for supplies and ribbon.

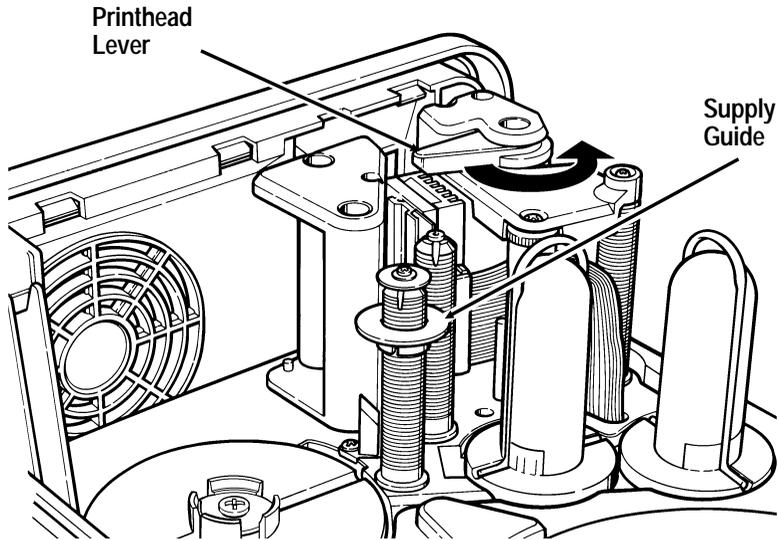


● ● ● ● ● supply  
■ ■ ■ ribbon

## Loading Supply

---

1. Remove the cover.
2. Turn the printhead lever counterclockwise to open the printhead.

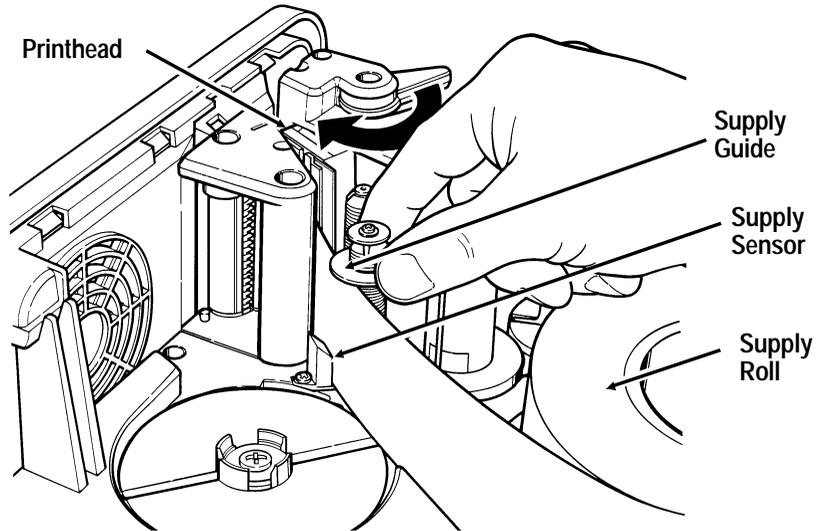


3. Remove the old supply roll.

Change the ribbon when loading new supplies, if necessary (see Chapter 3, "Loading the Ribbon").

4. Slide the supply guide to the top of the supply guide roller.
5. Remove the seal from the new roll of supplies.
6. Remove the first label from the backing paper.

7. Place the roll of supplies on the supply platter so the black marks pass the sensor.
8. Feed the supply through the supply sensor and slightly past the printhead.
9. Slide the supply guide down the supply guide roller until it just touches the



edge of the supply strip.

10. Turn the printhead lever clockwise to close the printhead.

## Printing a Test Label

---

Print a test label to see if your supply is loaded properly.

1. Turn the printer on. You will see

PRINT MODE  
Ready

2. Press **Escape**. You will see

←	MAIN MENU Print Mode	→
---	-------------------------	---

3. Press **>** until you see

←	MAIN MENU Diagnostics	
---	--------------------------	--

4. Press **Enter**. You will see

ENTER PASSWORD: _____		
--------------------------	--	--

The printer has a password of **Pause**, **Pause**, **Pause**, **Enter**.

5. Press **Pause** three times.

6. Press **Enter**.

- ◆ If you enter the password incorrectly, the printer returns to the Main Menu.
- ◆ If you enter the password correctly, you will see

	DIAGNOSTICS Version	→
--	------------------------	---

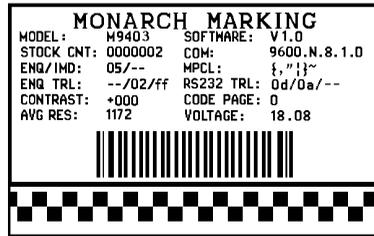
7. Press **>** once. Then, press **Enter**. You will see

	USER DIAG Supply Quality	→
--	-----------------------------	---

8. Press **>** twice. Then press **Enter**. You will see

Print Quantity  
[1/999]: +1

9. Press **Enter**, and a test label prints.



If the printer is not printing correctly, contact Technical Support.

# LOADING RIBBON

This chapter explains how to load a ribbon roll.

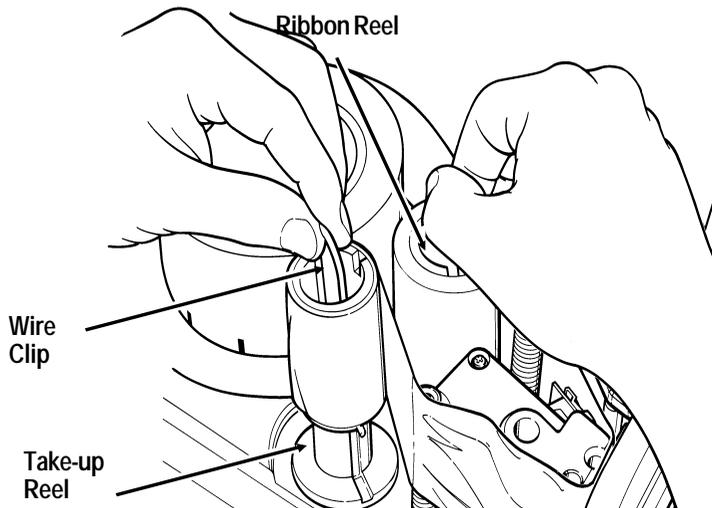
There are two types of supplies:

- |                         |  |
|-------------------------|--|
| <b>Thermal Direct</b>   | <b>specialty treated thermal supplies that do not use a ribbon for printing.</b> |
| <b>Thermal Transfer</b> | <b>standard supplies that require a ribbon for printing.</b>                     |

**If you are using thermal direct supplies, do not load a ribbon.**



4. Remove the old ribbon by pulling the wire clips as shown.

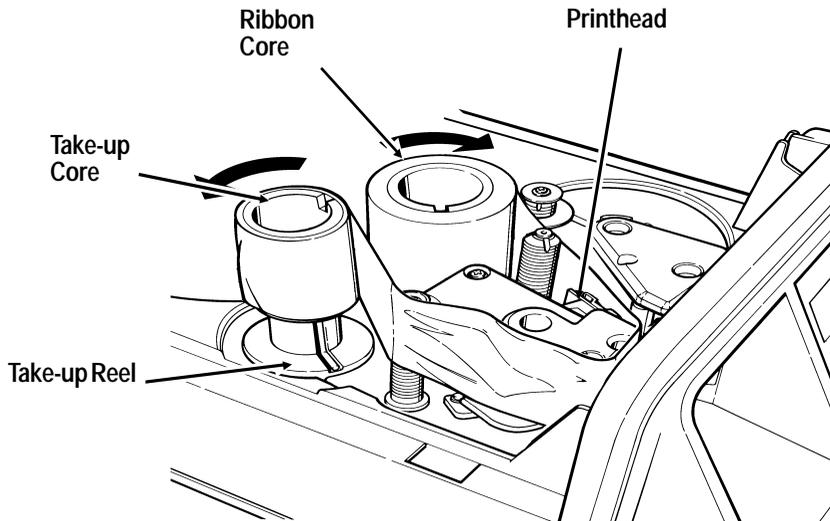


5. Remove the ribbon cores from the wire clips and discard the old cores.
6. Place the wire clips back on the take-up reel and ribbon reel.
7. Remove the new ribbon from the package.

8. Place the full ribbon core on the ribbon reel as shown.

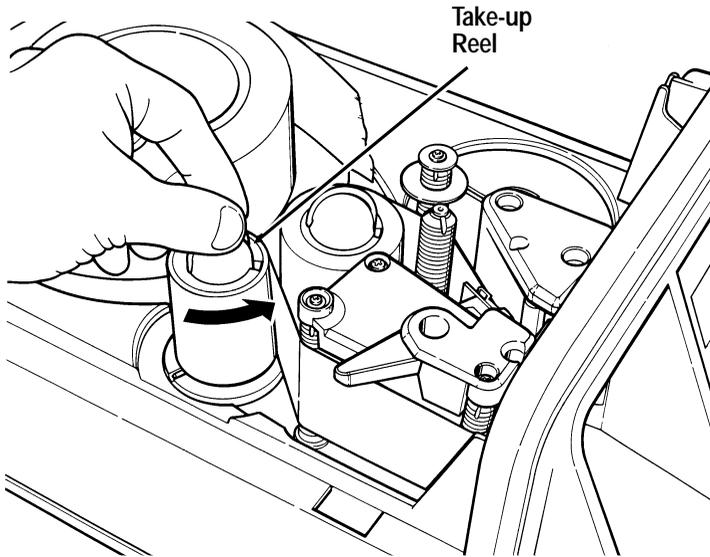
The ribbon reel feeds the ribbon in a clockwise direction. The take-up reel winds the ribbon in a counterclockwise direction.

9. Guide the ribbon down between the printhead and the front of the printer and around the rollers as shown.



10. Place the empty take-up core on the take-up reel.
11. Press down firmly on the cores to ensure they are seated on the bases.

12. Manually turn the take-up reel as shown until the ribbon is tight. Make sure the ribbon is not wrinkled or bunched.

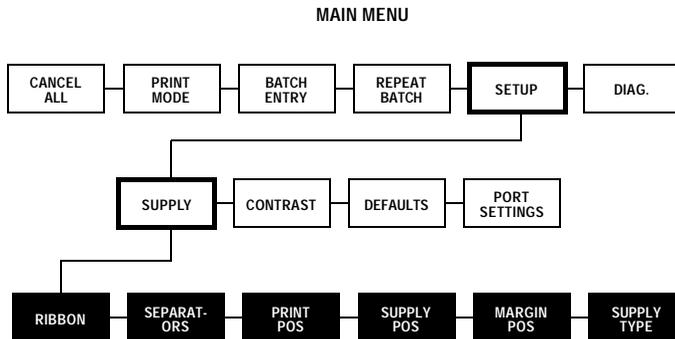


13. Slide the supply through the printhead and slightly past the printhead, as described in Chapter 2, "Loading Supplies."
14. Turn the printhead lever clockwise to close the printhead.



# SETTING SUPPLY OPTIONS

This chapter explains how to set the ribbon, separators, print position, supply position, margin position, and supply type.



You may need to set supply options when you change supplies. The options are listed in the table below:

Option	Choices	Default
Ribbon	No/Yes	No
Separators	Off/On	Off
Print Position	-99 to +99	0
Supply Position	-99 to +99	0
Margin Position	-99 to +99	0
Supply Type	Black Mark/Die Cut	Black Mark

To exit an option without changing the setting, press Escape.

## Ribbon

---

You have to tell the printer if your supplies require a ribbon. To change the setting, from the Main Menu select Setup, then Supply. Then, follow these steps:

1. Press  or  until you see

SUPPLY Ribbon →
--------------------

2. Press  to set the ribbon option. You will see the current setting, for example:

RIBBON No →
----------------

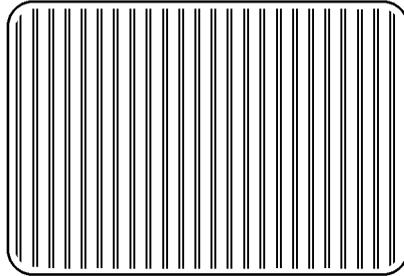
3. Press  or  to see the other options. After you display the option you want, press . Press  twice to exit to the Main Menu.

—————  
If you set the Ribbon option to Yes, install a ribbon  
before printing.  
—————

## Batch Separators

---

A batch separator is an extra tag printed between batches that has a pinstripe pattern to make it easy to find.



Batch Separator

To change the setting, from the Main Menu select Setup, then Supply. Then, follow these steps:

Changing this setting only affects new formats sent to the printer.

1. Press **<** or **>** until you see



2. Press **Enter** to set the batch separators option. You will see the current setting, for example:



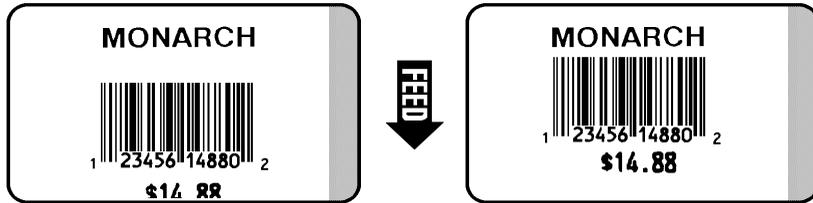
3. Press **<** or **>** to see the other option. After you display the option you want, press **Enter**. Press **Escape** twice to exit to the Main Menu.

## Print Position

---

This function adjusts where data prints vertically on the supply. Adjust the print if it is too close to the top or bottom of the supply, or overtypes the pre-printed area (see the "MONARCH" sample). One dot is 0.0049 inch.

- ◆ If the data is too close to the bottom, increase the number.
- ◆ If the data is too close to the top of the supply, decrease the number.



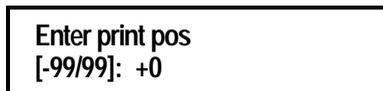
Changing this setting only affects new formats sent to the printer.

To change the setting, from the Main Menu select Setup, then Supply. Then, follow these steps:

1. Press  or  until you see



2. Press . You will see the current setting, for example:



3. Use the arrow keys to change the print position. Pressing **>** increases the value (moves the image up); **<** decreases it (moves the image down). Press the arrow key once to change one number at a time.
4. Press **Enter** when the number you need appears. Press **Escape** twice to exit to the Main Menu.

## Supply Position

---

This function adjusts how much supply feeds out of the exit chute. You may need to adjust the supply in or out to allow

- ◆ tags and labels to be removed.
- ◆ die cut labels to be removed easily.

The adjustments are in dots (0.0049 inch).

- ◆ Increase the number to feed more supply out of the chute.
- ◆ Decrease the number to feed less supply out of the chute.

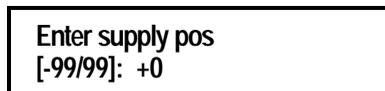
This option takes effect on the next label or tag printed. Changing supply position may also affect print position.

To change the setting, from the Main Menu select Setup, then Supply. Then, follow these steps:

1. Press **<** or **>** until you see



2. Press **Enter**. You will see the current setting, for example:



3. Use the arrow keys to change the supply position. Pressing **>** increases the value (feeds more supply); **<** decreases it (feeds less supply). Press the arrow key once to change one number at a time.
4. Press **Enter** when the number you need appears. Press **Escape** twice to exit to the Main Menu.

## Margin Position

---

This function adjusts where the format prints horizontally on the supply. The adjustments are in dots (0.0049 inch), which is the smallest measurement the printer recognizes.

Print too far to the left.

Print too far to the right.



- ◆ If the data is too close to the left side of the supply, increase the number.
- ◆ If the data is too close to the right side of the supply, decrease the number.

The width of the print area depends on your supply size. Maximum width is two inches. When you move the image to the right or left on the supply, avoid moving the image within one tenth of an inch from either edge, because that is the non-printing zone.

---

Changing this setting only affects new formats sent to the printer.

---

To change the setting, from the Main Menu select Setup, then Supply. Then, follow these steps:

1. Press **<** or **>** until you see

A rectangular box with a black border containing the text "SUPPLY" on the top line and "Margin Pos" on the bottom line. A left-pointing arrow is on the left side and a right-pointing arrow is on the right side.

SUPPLY  
← Margin Pos →

2. Press **Enter**. You will see the current setting, for example:

A rectangular box with a black border containing the text "Enter margin pos" on the top line and "[ -99/99]: +0" on the bottom line.

Enter margin pos  
[ -99/99]: +0

3. Use the arrow keys to change the margin position. Pressing **>** increases the value (moves the image toward the right side of the supply); **<** decreases it (moves the image toward the left side of the supply).
- ◆ Press the arrow key once to change one number at a time.
  - ◆ Press and hold the arrow key to change rapidly.
4. Press **Enter** when the number you need appears. Press **Escape** twice to exit to the Main Menu.

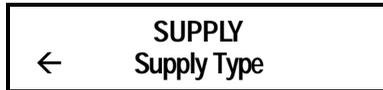
## Supply Type

---

You can print on black mark or die cut supplies, but you have to tell the printer which supplies you are using.

To change the setting, from the Main Menu select Setup, then Supply. Then, follow these steps:

1. Press **<** or **>** until you see



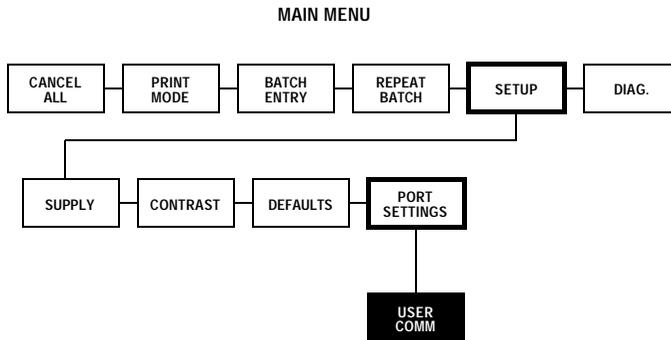
2. Press **Enter** to set the supply type option. You will see the current setting, for example:



3. Press **>** to see the next option. After you display the option you want, press **Enter**. Press **Escape** twice to exit to the Main Menu.

# COMMUNICATION VALUES

This chapter tells you how to set the User Communication (User Comm) values. These values provide the link for normal online printing.



You need to set your User Comm values to match your computer's online communications. Before entering the communication values, see your System Administrator.

The communication values are listed in the table below.

Option	Choices	Default
Baud rate	1200/2400/4800/9600/19200	9600
Word length	7/8	8
Stop bits	1/2	1
Parity	None/Odd/Even	None
Flow control	None/Xon/Xoff/DTR/CTS	DTR
Reset	No/Yes	No

## Baud Rate

---

To change the setting, from the Main Menu select Setup, Port Settings, then User Comm. Then, follow these steps:

1. Press **Enter** to set the baud rate. You will see the current setting, for example:



2. Press **<** or **>** to display the baud rate you need, then press **Enter**. Press **Escape** three times to exit to the Main Menu.

## Word Length

---

To change the setting, from the Main Menu select Setup, Port Settings, then User Comm. Then, follow these steps:

1. Press **<** or **>** until you see



2. Press **Enter**. You will see the current setting, for example:



3. Press **<** or **>** to display the word length you need, then press **Enter**. Press **Escape** three times to exit to the Main Menu.

## Stop Bits

---

To change the setting, from the Main Menu select Setup, Port Settings, then User Comm. Then, follow these steps:

1. Press **<** or **>** until you see

```

  ←  USER COMM  →
      Stopbits

```

2. Press **Enter**. You will see the current setting, for example:

```

  STOPBITS
    1      →

```

3. Press **<** or **>** to display the number of stop bits you need, then press **Enter**. Press **Escape** three times to exit to the Main Menu.

## Parity

---

To change the setting, from the Main Menu select Setup, Port Settings, then User Comm. Then, follow these steps:

1. Press **<** or **>** until you see

```

  ←  USER COMM  →
      Parity

```

2. Press **Enter**. You will see the current setting, for example:

```

  PARITY
  None   →

```

3. Press **<** or **>** to display the parity you need, then press **Enter**. Press **Escape** three times to exit to the Main Menu.

## Flow Control

---

To change the setting, from the Main Menu select Setup, Port Settings, then User Comm. Then, follow these steps:

1. Press **<** or **>** until you see

```

  USER COMM
  ←      Flow Control      →

```

2. Press **Enter**. You will see the current setting, for example:

```

  FLOW CONTROL
  ←      DTR      →

```

3. Press **<** or **>** to display the flow control you need, then press **Enter**. Press **Escape** three times to exit to the Main Menu.

XON is 17; XOFF is 19. Set flow control to DTR for PC computers (unless you have XON/XOFF software).

## Reset to Default Values

---

To change the setting, from the Main Menu select Setup, Port Settings, then User Comm. Then, follow these steps:

1. Press **>** until you see

```

  USER COMM
  ←      Reset      →

```

2. Press **Enter**. You will see

```

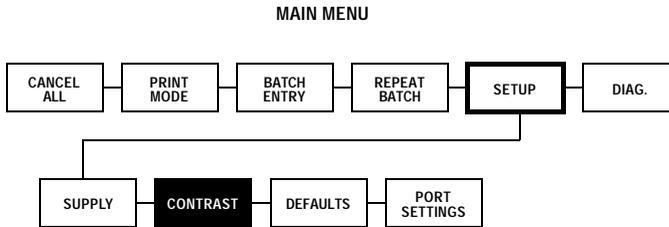
  Are you sure?
  No      →

```

3. Press **<** or **>** to make your selection, then press **Enter**. Press **Escape** three times to exit to the Main Menu.

# SETTING CONTRAST

This chapter explains how to set the contrast, which controls the darkness of the printing on your supply.



Correct contrast setting is important because it affects how well your bar codes scan and how long your printhead lasts. You can use a verifier to check bar codes for contrast.

1. From the Main Menu, press **<** or **>** until you see

```
MAIN MENU
<      Setup      >
```

2. Press **Enter**. You will be at the Setup menu. Press **<** or **>** until you see

```
SETUP
<      Contrast    >
```

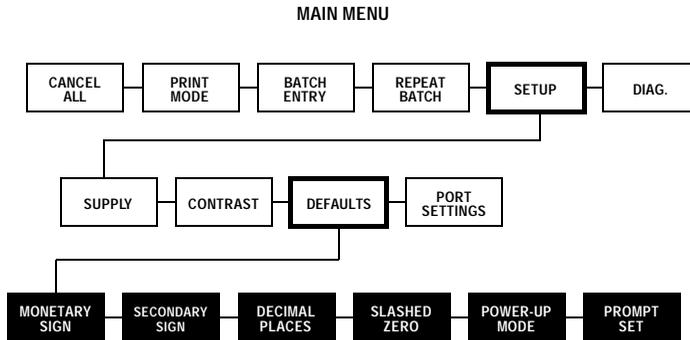
3. Press **Enter**. You will see the current setting, for example:

```
Enter contrast
[-390/156]: +0
```

4. Use the arrow keys to change the contrast. Pressing **>** darkens the print; **<** lightens the print. Press the arrow key once to change one number at a time.
5. Press **Enter** to select the displayed value. Press **Escape** to exit to the Main Menu.

# SETTING DEFAULTS

This chapter explains how to select the monetary sign, secondary sign, decimal places, slashed zero, power-up mode, and prompt set.



You can set your printer configurations to fit your daily operation, using either the offline menus or the online configuration option. To set these options online, see the Packet Reference Manual. After an option is selected in the online configuration or offline Setup Menu, the option is saved in memory and saved after power down.

The monetary formatting options are listed in the table below.

Option	Choices	Default
Monetary sign	None/USA/UK/Japan/ Germany/France/Spain/ Italy/Sweden/Finland/ Austria/India/Russia/ Korea/Thailand/China	USA
Secondary Sign	No/Yes	No
Decimal Places	0/1/2/3	2
Slashed Zero	No/Yes	No
Power-up Mode	Online/Offline	Online
Prompt Set	English/French/German/ Spanish	English

The monetary sign, secondary sign, and decimal places options are used in conjunction with option 42. See the Packet Reference Manual for more information.

The settings for Monetary Sign, Secondary Sign, Slashed Zero, and Decimal Places are applied when a format is downloaded. Changing the settings does not affect batches already in the printer.

## Monetary Sign

---

The monetary signs available for 15 countries are shown in the table below:

You can also select None if you do not want a monetary sign to print in price fields.

Country	Currency	Description
USA	\$	dollar
UK	£	pound
Japan	¥	yen
Germany	DM	deutsche mark
France	F	franc
Spain	P	peseta
Italy	L.	lira
Sweden	Kr	krona
Finland	₤	markka
Austria	₯	schilling
India	Rs	rupee
Russia	₮	ruble
Korea	₩	won
Thailand	฿	baht
China	¥	yuan

To change the setting, from the Main Menu select Setup, then Defaults. Then, follow these steps:

1. Press **Enter**. You will see the current setting, for example:

MONETARY SIGN		
←	USA	→

2. Press **<** or **>** until you see the country's monetary sign you want.
3. Press **Enter**. Press **Escape** twice to exit to the Main Menu.

## Secondary Sign

---

If you select USA as the monetary sign, you can print amounts less than \$1.00 either by using a dollar sign and decimal (\$.30) or by using a cent sign (30¢).

- ◆ If you set the secondary sign option to No, prices under \$1.00 will print like this: \$ .45
- ◆ If you set the secondary sign option to Yes, prices under \$1.00 will print like this: 45¢

The same option applies to the appropriate secondary sign for monetary signs other than USA.

To change the setting, from the Main Menu select Setup, then Defaults. Then, follow these steps:

1. Press **<** or **>** until you see

DEFAULTS		
←	Secondary Sign	→

2. Press **Enter**. You will see the current setting, for example:

SECONDARY SIGN		
	No	→

- 3.

Press **<** or **>** until you see the option you want. Then press **Enter**.  
Press **Escape** twice to exit to the Main Menu.

## Decimal Places

---

You can set the printer for 0, 1, 2, or 3 places after the decimal in a price field. In U.S. currency, you might print prices like this:

\$24.00 (2 decimal places) or like this: \$24 (0 decimal places).

To change the setting, from the Main Menu select Setup, then Defaults. Then, follow these steps:

1. Press **<** or **>** until you see



2. Press **Enter**. You will see the current setting, for example:



3. Press **<** or **>** until you see the option you want. Then press **Enter**.  
Press **Escape** twice to exit to the Main Menu.

## Slashed Zero

---

The slashed zero feature lets you select how you want the zero character printed: without a slash (0) or with a slash (ø).

Standard or reduced fonts print the slashed zero character (ø). Bold and OCR fonts print the standard zero (0) only. The slashed zero selection will not be in effect until the format is sent to the printer again.

If you change the way zero is printed, you must resend your formats.

To change the setting, from the Main Menu select Setup, then Defaults. Then, follow these steps:

1. Press **<** or **>** until you see



2. Press **Enter**. You will see the current setting, for example:



3. Select the option you want. Then press **Enter**. Press **Escape** twice to exit to the Main Menu.

## Power-Up Mode

---

Power-up mode lets you decide how your printer starts each time you turn it on. If you normally want the printer to be ready to start printing when it is turned on, use the Online power-up mode. If you normally want the operator to perform some other task first, use the Offline power-up mode.

To change the setting, from the Main Menu select Setup, then Defaults. Then, follow these steps:

1. Press **<** or **>** until you see



2. Press **Enter**. You will see the current setting, for example:



3. Press **<** or **>** until you see the option you want. Then press **Enter**. Press **Escape** twice to exit to the Main Menu.

## Prompt Set

---

Prompt set determines which language displays on the printer's menu. You can select English, French, German, or Spanish.

To change the setting, from the Main Menu select Setup, then Defaults. Then, follow these steps:

1. Press **>** until you see



2. Press **Enter**. You will see the current setting, for example:



3. Press **<** or **>** until you see the option you want. Then press **Enter**. Press **Escape** twice to exit to the Main Menu.

This option only affects the displayed prompts. It will not change what is printed by the printer.



# PRINTING

## 8

This chapter explains how to print, interrupt, restart, cancel, and repeat a batch.

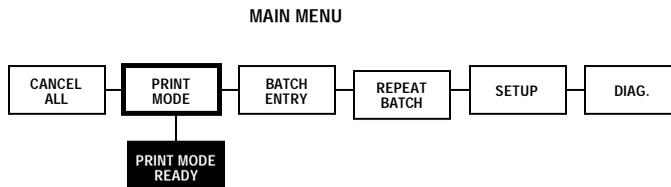
You can send format, batch, and graphic data to the printer from a host. When the printer receives the data, batches begin printing automatically. The Packet Reference Manual tells how to create, store, and download the data necessary to print batches. You can also use the MONARCH quick-set software to create and download packets.

Before you print, make sure the printer is connected and ready to receive data.

Your printer is ready to receive and print batches when you see

PRINT MODE  
Ready

Printing begins as soon as you download the format and batch data from the host. If there are offline batches in the print queue, the offline batches print after the downloaded batches have printed. If you send formats that require operator data, use Batch Entry Mode to enter the data. See "Entering a Batch" for more information.



## Interrupting a Batch

---

You can interrupt printing by pressing **Escape**. You may want to interrupt a batch to make adjustments for:

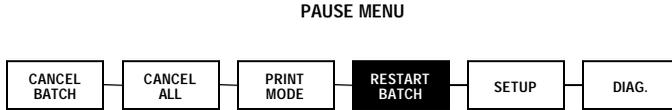
- ◆ Loading a different roll of supply or a ribbon. See Chapter 3, "Loading Supplies."
- ◆ Adjusting the supply position or contrast using the Setup menu. See Chapter 4, "Setting Supply Options," or Chapter 6, "Setting the Contrast."

When you press **Pause** you will see

← PAUSE MENU →  
Print Mode

You can press **Enter** to resume printing or press **<** or **>** to display the Pause Menu options.

The following chart shows the Pause Menu options.



## Restarting a Batch

---

You can reprint a paused batch from the beginning (using the original quantity).

1. When you press **Pause**, you will see



2. Press **>** until you see



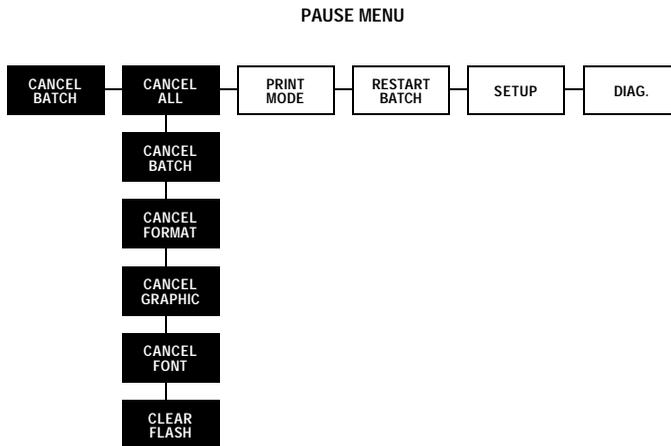
3. Press **Enter**. The batch starts printing from the beginning.

## Canceling a Paused Batch

---

You can cancel a paused batch, delete a format, graphic, or font in memory, or all the batches waiting to print.

Before any format, graphic, or font in memory can be deleted, you must cancel all batches.



1. Press **Pause** to interrupt printing. You will see



- ◆ If you want to cancel only the paused batch, skip step 3.
- ◆ If you want to cancel all the batches, skip step 2.

2. To cancel only the paused batch, press **<** or **>** until you see

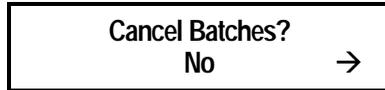


Then press **Enter**. The batch is deleted and the printer prints any remaining batches.

3. To cancel all the batches (including the paused batch), press **<** or **>** until you see



and press **Enter**. You will see

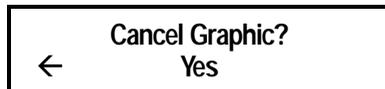


4. You can

- ◆ exit without canceling any batches. Press **Escape** or press **>** to display No and then press **Enter**. The printer returns to the Pause Menu. Press **<** or **>** to select another function from the Pause Menu, or to return to Print Mode and print all the batches.
- ◆ cancel all batches in the print queue including the paused batch. You can still use repeat batch to reprint the last batch. The last batch remains in memory until the next format is sent. Press **>** to display Yes, then press **Enter**. You will see



Press **<** or **>** then press **Enter**. You will see



Press **>** or **<** then press **Enter**. You will see



If you select Yes, these prompts delete ALL formats, graphics, and/or fonts in the printer.

Press **>** or **<** , then press **Enter** . You will see

Clear Flash?  
No →

Press **>** to display Yes and then press **Enter** . If you select Yes, ALL packets (formats, graphics, and/or check digits) stored in flash memory (with "F" selector) are deleted.

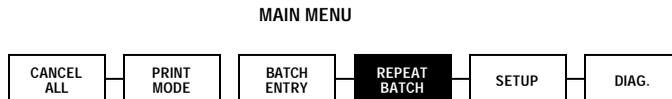
To reload the three standard formats and/or service-installed formats: turn the printer off, wait five seconds, and then turn on the printer. You will see:

PRINT MODE  
Ready

## Repeating a Batch

---

Before you start printing a new batch, you can reprint the last batch. The batch can be the last one you printed completely, or one that you canceled after starting to print.



1. From the Main Menu, press **>** or **<** until you see

← MAIN MENU Repeat Batch →

2. Press  . You will see



Printing  
xxxx of xxxx

The number increments until the entire batch has printed. When it is finished, you will see



PRINT MODE  
Ready

## Offline Printing

---

This section explains how to prepare your printer for offline printing and enter data. Offline printing means entering batch data from the keypad and printing batches. There are three standard formats included with your printer. See "Using the Standard Formats" for more information.

You can enter numbers, letters, and a variety of symbols (including punctuation and international characters). International characters are available by pressing  and code numbers. See Appendix B for more information.

You can switch between character and numeric mode at any time by pressing the  key.

For offline printing, send the format to the printer first. You can send several offline formats to the printer. If the formats are stored in flash memory, they remain when the printer is turned off. Do not send packets with the same number to flash memory. If two packets with the same number are stored in flash, only the last packet sent is used. See the Packet Reference Manual for more information.

## Entering Numbers

You must be in numeric mode to enter numbers. If a caret (^) appears in the upper right corner of the printer display, press **Shift** to remove. If no caret appears in the upper right corner, you are ready to enter numbers.

To enter numeric data, press the alphanumeric key that shows the number you want. The screen displays the number, and the cursor moves to the next position in the field. This is also how you enter a period (.), comma (,), dollar sign (\$) or pound sign (#).

You can switch back to character mode at any time by pressing **Shift**. Each time you press this key, the mode switches from one to the other.

Here is an example of how to enter \$23.00.

1. Press the \$ key. The symbol \$ appears.
2. Press the 2 key. The number 2 appears.
3. Press the 3 key. The number 3 appears.
4. Press the . key (below the 2 key). The symbol . appears.
5. Press the 0 key twice. The numbers 00 appear.
6. Press **Enter** when you have entered all the data for the field.

## Entering Letters

When you use **Shift**, a caret symbol (^) appears in the upper right corner of the printer display. This indicates you are in character mode and can enter letters. To enter character data, press **Shift** to switch to character mode.

Item: _____ ^
---------------

Once character mode is active, press the alphanumeric key that shows the letter you want. The first letter assigned to the key appears in the field. Each time you press the same key, the next letter that is assigned appears. An alphanumeric key may have up to six letters assigned, three in upper-case and three in lower case. When the character you need appears, press **>** to move to the next position in the field.

Some symbol characters are assigned to the dollar sign (\$) and pound sign (#). They switch between characters each time you press the same key. They are (in the order assigned):

\$            ¢  
#            ? @ & ! \_ p \ ^ ~

Here is an example of how to enter the word Shirt.

---

Not all fonts support lower-case letters. See Appendix B, "Character Sets," for the character set information.

---

1. Press **Shift** to switch to character mode.
2. Press the 1 key once. The letter S appears in upper case.
3. Press **>** to move the cursor to the next position on the screen.
4. Press the 9 key five times. The letter h appears in lower-case.
5. Press **>** to move the cursor to the next position on the screen.
6. Press the 9 key six times. The letter i appears in lower-case.
7. Press **>** to move the cursor to the next position on the screen.
8. Press the 6 key six times. The letter r appears in lower-case.
9. Press **>** to move the cursor to the next position on the screen.
10. Press the 1 key five times. The letter t appears in lower-case.
11. Press **Enter** when you have entered all the data for the field.

## Entering Symbols

You can use character codes to enter symbols. See Appendix B for a list of symbols and their corresponding character codes.

To enter a character code

1. Press **Pause**.
2. Use the data entry keys to enter the three-digit character code. For example, enter 179 for ¥ .
3. Press **Enter**.

## Using Bar Code 128

You can enter function codes 1 - 4 for code 128 bar codes. These codes only function as code 128 data. They do not print if you enter them as data anywhere else. See the Code 128 table in Appendix B for the function code you want.

To enter a function code

1. Press **Pause**.
2. Use the data entry keys to enter the function code you want.
3. Press **Enter**.

## Entering and Changing Data

When you need to enter data, the screen shows a prompt with an underscore for each character you can enter.

```
DEPT:
JUNIOR _ _ _
```

For example, this screen shows you can enter up to three characters before pressing **Enter**. If you try to enter more than three characters, the printer does not accept the data. Your entry is not accepted until you press **Enter**.

Some fields specifically require numeric or alphabetic data. If you try to enter numeric data for an alpha field, or alphabetic data for a numeric field, the printer does not accept the data. Enter the correct data and press **Enter**.

## To change data

- ◆ use **<** to back up, type the new data over the old data and then press **Enter**, or
- ◆ press **Clear** to clear all data, then re-enter the correct data and press **Enter**.

When you enter data incorrectly, the printer displays a message. Following is a list of conditions that cause an error and how to correct them. Sometimes a data entry problem may be a combination of these conditions.

Problem	Action
The data you entered is not accepted.	Refer to your format definition for acceptable characters for this field. Some fields accept only letters, some accept only numbers. Some accept only specific ranges of letters or numbers.
Your data was not accepted; blanks still showing.	This field requires data for all underscores shown. Enter the correct data and press <b>Enter</b> .
You entered an incorrect check digit.	The data and check digit must be the correct combination. Enter the correct data and press <b>Enter</b> .
You tried to skip a required field.	This field requires data before continuing to the next field. Enter data and press <b>Enter</b> .

## Types of Data Entry

Following are samples of the prompts you may see when entering data.

### Entering General Data

When you see a prompt similar to the one below, you can enter a character for each blank.

DEPT: DEPT _ _ _ _
-----------------------

### Entering a Price

At data entry, the price prompt includes the pricing symbols (unless you select None for Monetary Sign). Your price prompt may look like this

PRICE: \$0.00
------------------

...or like this

PRICE: 0¢
--------------

The difference between these prompts is the symbol used for printing amounts less than \$1.00. You can select the cent sign for printing amounts less than \$1.00 using the Defaults function. The same option is available for other currencies. See Chapter 7, "Setting Defaults."

You can enter and print: cent amounts, dollar and cent amounts, or unit prices. For example: 3¢, 2/59¢, \$.59, 3/\$1.00, or \$15.98.

## Entering "2-For" Price Data

You can use any price field in a "2-for" pricing scheme. When entering data for a price field offline (at the printer), use the # key to separate the 2 and the price data in the "2-for" price. For example, to enter the price "Two for \$5.00," enter 2#500. If you use field option 42 to format the field online as a price field, enter the quantity, a slash, and the price data. For example, to enter the price "Two for \$5.00," enter 2/500.

## Prompts with Fixed Characters

When a field has fixed characters, they appear as part of the data entry prompt. The fixed data stays the same, and prints on every tag that uses the format. Only the data you enter can be changed. In the example below, the first six digits are fixed characters.

UPCA Barcode: 004156 _ _ _ _ _
-----------------------------------

The printed field contains both the fixed characters and the data you enter.

## Entering a Batch

Batch Entry lets you enter the data to print a batch (or batches) of supplies. You can enter up to 3 batches before you print.

1. Press **Escape** until you see the Main Menu.
2. Press **<** or **>** until you see

←	MAIN MENU	→
	Batch Entry	

3. Press **Enter**.



10. Press **Enter**. You will see

**PRINT MODE**  
nnnn of nnnn

The first nnnn counts tags or labels as they print; the second nnnn tells you how many tags or labels are in the batch.

When all the batches have printed, you will see

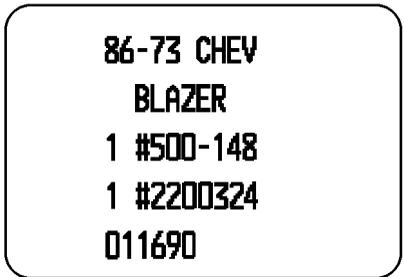
**PRINT MODE**  
Ready

### Using the Standard Formats

The 9403 printer comes with three standard formats. Here are examples of the standard formats with sample data. You can modify these formats by using different batch data.



FMT-1



FMT-2



FMT-3

To use the standard formats:

1. From the Main Menu, press < or > until you see



2. Press . Press < or > until you see the format you want to use.

The standard formats are

Fmt - 1 96

Fmt - 2 97

Fmt - 3 98

3. Press . Follow the prompts to print the batch of labels.

Any other formats that you download remain in Batch Entry until you turn off the printer. The standard formats are saved when you turn off the printer; however, you must re-enter the batch data.

If you saved your formats, graphics, or check digits in flash memory, they are saved when the printer is turned off. For more information about flash memory, refer to the online version of the Packet Reference Manual provided on diskette with the printer.

# CLEANING

# 9

This chapter covers cleaning the printhead and platen roller.

## CAUTION

Do not use sharp objects to clean the printer. This may damage the printer and void your warranty.

---

## Cleaning the Printhead and Platen Roller

---

The rate and frequency at which you print determines how often you must clean the printer.

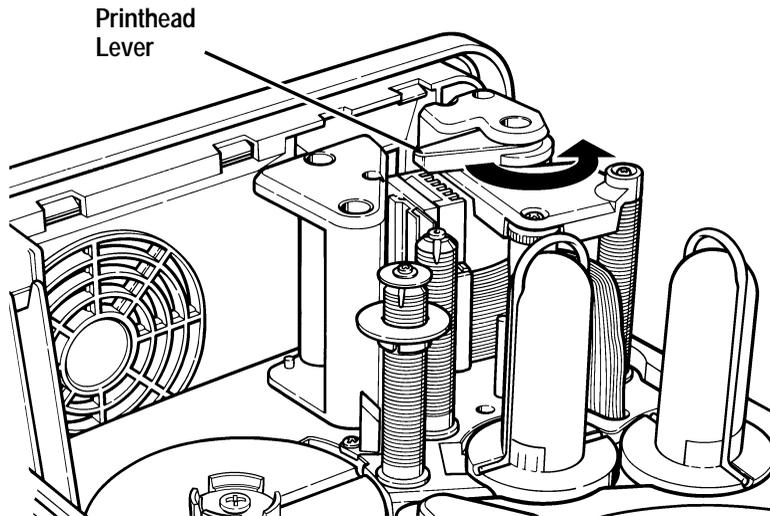
You may need to clean the printhead and platen roller:

- ◆ if there is any adhesive build-up in the supply path
- ◆ daily if your printer is in an excessively dirty, hot, or humid environment
- ◆ when you see voids in the print as shown:

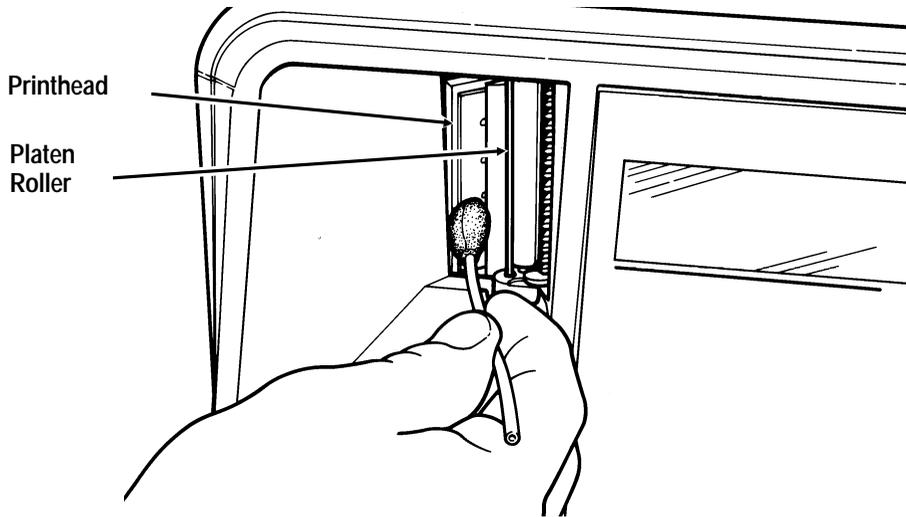


To clean the printer:

1. Turn off printer.
2. Unplug the power cord.
3. Remove the cover.
4. Turn the printhead lever counterclockwise to open the printhead.



5. Wind the supplies back onto the supply roll.
6. Remove the ribbon, if one is loaded. See Chapter 2, "Loading a Ribbon."
7. Moisten a cotton swab with isopropyl alcohol.



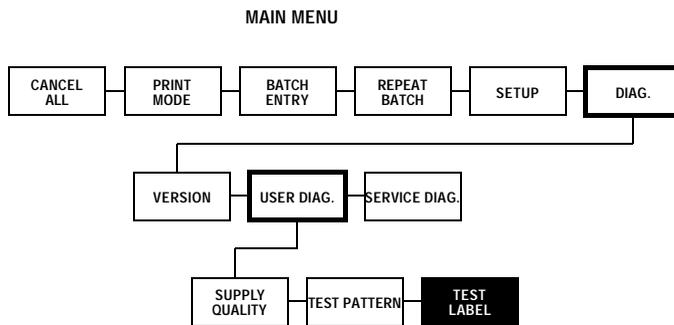
8. Rub the swab across the printhead and remove any build-up.
9. Rub the cotton swab over the platen roller and remove any build-up.
10. Re-load the supply roll and ribbon, if necessary.
11. Turn the printhead lever clockwise to close the printhead.
12. Turn on printer.

If printing has not improved, call Technical Support.



# DIAGNOSTICS

This chapter explains how to perform simple diagnostic functions such as checking the software version and sensor mark quality, and printing a pattern or test label. This information will be needed if you have to contact Technical Support.



## Factory Set Password

---

You need a password for access to diagnostic functions.

The permanent factory-set password is

Pause Pause Pause Enter

## Checking the Software Version

---

1. From the Main Menu, press **>** until you see

```
MAIN MENU
Diagnostics
```

2. Press **Enter**. You will see

```
ENTER PASSWORD
-----
```

Type your password. Press **Enter**.

3. From the Diagnostics Menu, press **<** or **>** until you see

```
DIAGNOSTICS
Version >
```

Press **Enter**. You will see

```
M9403    PN118628
      V 1.0
```

- ◆ Line one lists the printer model number (M9403) and the part number for the printer ROM.
- ◆ Line two is the version of software in the printer.

# Printing a Test Pattern

---

1. From the Diagnostics Menu, press  or  until you see



2. Press . You will see



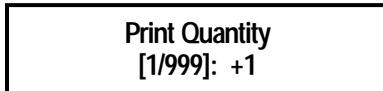
3. Press  until you see



4. Press . You will see

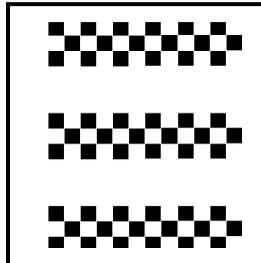


5. Press . You will see



6. Press  or  to select the quantity of test patterns you want to print. Press .

The test pattern will look like this:



## Printing a Test Label

---

See "Printing a Test Label" in Chapter 3 for more information. If you need to call Technical Support, print a test label.

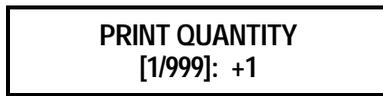
1. From the Diagnostic Menu, press  or  until you see



2. Press  and  or  until you see

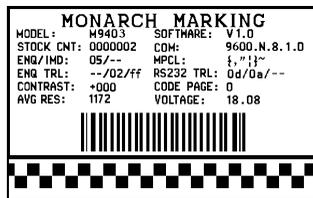


3. Press . You will see



4. Select the number of labels you want to print using  or . Press .

The test label should look like this:



The test label displays

- ◆ printer model number
- ◆ software version number
- ◆ number of inches printed to date
- ◆ user COM port settings
- ◆ a test pattern.

This information will help Technical Support diagnose the problem. Refer to the Packet Reference Manual for more information about the test label.

## Checking Sensor Mark Quality

---

The printer continuously stores data from the most recent 16 supplies printed. This checks the quality of the sensor marks on the supply.

Print a batch of supplies or test labels.

To check the sensor mark quality:

From the Diagnostics Menu, press  or  until you see



1. Press . Press  or  until you see



2. Press . If you have not printed any labels, you will see a message saying "No data."

If you have printed labels since turning the printer on, you will see

Len	Min	Max	OK
0290	036	188	Y

The Len listing is the length of the supply in dots. The other information describes the sense mark reading on the supply.

Press **>** to see other readings. The printer stores readings on the last 16 tags or labels printed.

## Service Diagnostics

---

The Service Diagnostics menu can only be accessed by a Monarch Representative, because it requires a separate password. If you have any problems, print a test label and call Technical Support.

# SPECIFICATIONS



## Printer

---

<b>Length:</b>	<b>16.5 inches (419 mm)</b>
<b>Width:</b>	<b>10 inches (254 mm)</b>
<b>Height:</b>	<b>9 inches (229 mm)</b>
<b>Weight:</b>	<b>15.5 lb. (7.05 kg)</b>
<b>Shipping Weight:</b>	<b>22 lb. (10 kg)</b>
<b>Power:</b>	<b>Domestic: 115 VAC, 80W, .7A, 60 Hz. International: 230 VAC, 80W, .35A, 50 Hz.</b>
<b>Display:</b>	<b>Liquid crystal display with 2 lines 16 characters per line</b>
<b>Printhead:</b>	<b>Thermal at 2.2 inches wide (56 mm / 448 dots) 203 dots/inch (8.0 dots/mm)</b>
<b>Printing method:</b>	<b>Thermal transfer (ribbon) or Thermal direct</b>
<b>Ribbon type:</b>	<b>Standard</b>

<b>Operating Limits:</b>	<b>For Thermal Transfer: 40°F to 95°F (4°C to 35°C) For Thermal Direct: 40°F to 110°F (4°C to 43°C)</b>
<b>Ribbon widths:</b>	<b>1.26 inches (32.0 mm) 1.57 inches (39.88 mm) 2.10 inches (53.34 mm)</b>
<b>Ribbon length:</b>	<b>308.4 feet (94 meters)</b>
<b>Ribbon storage:</b>	<b>41°F to 95°F (5°C to 35°C). DO NOT leave ribbons in direct sunlight, high temperatures, or high humidity.</b>
<b>Print speed:</b>	<b>2 inches (51.0 mm) per second</b>
<b>Max. print image:</b>	<b>2 inches (51.0 mm) by 6 inches (152 mm)</b>

## Supplies

---

<b>Supply types:</b>	<b>Thermal transfer or thermal direct (tags or labels)</b>	
<b>Width:</b>	<b>Maximum</b>	<b>2.0 inches (51 mm)</b>
	<b>Minimum</b>	<b>0.75 inches (19.05 mm)</b>
<b>Length:</b>	<b>Maximum</b>	<b>6 inches (152 mm)</b>
	<b>Minimum</b>	<b>0.75 inches (19.05 mm)</b>
<b>Supply thickness:</b>	<b>Maximum</b>	<b>12 mil</b>
	<b>Minimum</b>	<b>6 mil</b>
<b>Roll diameter:</b>	<b>Inside diameter: 3 inches (76.2 mm) Outside diameter: 6.75 inches (171.45 mm)</b>	

# CHARACTER SETS



## Character Sets

---

The following lists show the characters available in the fonts for the 9403 printer.

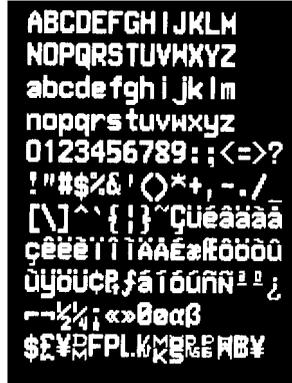
### Standard Font

ABCDEFGHIJKLM  
NOPQRSTUVWXYZ  
abcdefghijklmnop  
nopqrstuvwxyz  
0123456789:;<=>?  
!"#\$%&'()\*+,-./  
[\]^\_`{|}~Cüéääåä  
çèéèìíîïÀÁÊæÆðöóù  
úÿÖÜÇŔřfaíouñÑº;º;  
—¼½;«»Øøαβ  
\$£¥¤¦§¨ª«¬®¯°±²³



### Reduced Font

ABCDEFGHIJKLM  
NOPQRSTUVWXYZ  
abcdefghijklmnop  
nopqrstuvwxyz  
0123456789:;<=>?  
!"#\$%&'()\*+,-./  
[\]^\_`{|}~Cüéääåä  
çèéèìíîïÀÁÊæÆðöóù  
úÿÖÜÇŔřfaíouñÑº;º;  
—¼½;«»Øøαβ  
\$£¥¤¦§¨ª«¬®¯°±²³



### Bold Font

**ABCDEFGHIJKLM  
 NOPQRSTUVWXYZ  
 0123456789@½  
 !"#\$%&'()\*+,-  
 [\]^\_./:;<=>?  
 \$%&'()\*+,-./:;<=>?  
 \$%&'()\*+,-./:;<=>?  
 \$%&'()\*+,-./:;<=>?**

**ABCDEFGHIJKLM  
 NOPQRSTUVWXYZ  
 0123456789@½  
 !"#\$%&'()\*+,-  
 [\]^\_./:;<=>?  
 \$%&'()\*+,-./:;<=>?  
 \$%&'()\*+,-./:;<=>?  
 \$%&'()\*+,-./:;<=>?**

### OCRA-like Font

ABCDEFGHIJKLM  
 NOPQRSTUVWXYZ  
 0123456789  
 "/+,-./<>R@B¥  
 \$%&'()\*+,-./:;<=>?

**ABCDEFGHIJKLM  
 NOPQRSTUVWXYZ  
 0123456789  
 "/+,-./<>R@B¥  
 \$%&'()\*+,-./:;<=>?**

### CG Triumvirate Bold Font

ABCDEFGHIJKLM  
 NOPQRSTUVWXYZ  
 abcdefghijklm  
 nopqrstuvwxyz  
 0123456789;:;<=>?  
 !"#\$%&'()\*+,-./  
 [ ] ^ { } ~ Çüéáàåä  
 çèéèïîïËÄÅæÆøöòù  
 ùÿÖÜcPtfáíóúñÑ°º  
 ¸ ¼ ½ ¾ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ±

### CG Triumvirate Font

ABCDEFGHIJKLM  
 NOPQRSTUVWXYZ  
 abcdefghijklm  
 nopqrstuvwxyz  
 0123456789;:;<=>?  
 !"#\$%&'()\*+,-./  
 [ ] ^ { } ~ Çüéáàåä  
 çèéèïîïËÄÅæÆøöòù  
 ùÿÖÜcPtfáíóúñÑ°º  
 ¸ ¼ ½ ¾ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ±

**ABCDEFGHIJKLM  
 NOPQRSTUVWXYZ  
 abcdefghijklm  
 nopqrstuvwxyz  
 0123456789;:;<=>?  
 !"#\$%&'()\*+,-./  
 [ ] ^ { } ~ Çüéáàåä  
 çèéèïîïËÄÅæÆøöòù  
 ùÿÖÜcPtfáíóúñÑ°º  
 ¸ ¼ ½ ¾ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ±**

**ABCDEFGHIJKLM  
 NOPQRSTUVWXYZ  
 abcdefghijklm  
 nopqrstuvwxyz  
 0123456789;:;<=>?  
 !"#\$%&'()\*+,-./  
 [ ] ^ { } ~ Çüéáàåä  
 çèéèïîïËÄÅæÆøöòù  
 ùÿÖÜcPtfáíóúñÑ°º  
 ¸ ¼ ½ ¾ ¡ ¢ £ ¤ ¥ ¦ § ¨ © ª « ¬ ® ¯ ° ±**

## Uppercase Letters

---

Use Character Mode to enter the offline code.

Char.	Online Code	Offline Code	Char.	Online Code	Offline Code
A	A	7	N	N	55
B	B	77	O	O	555
C	C	777	P	P	6
D	D	8	Q	Q	66
E	E	88	R	R	666
F	F	888	S	S	1
G	G	9	T	T	11
H	H	99	U	U	111
I	I	999	V	V	2
J	J	4	W	W	22
K	K	44	X	X	222
L	L	444	Y	Y	3
M	M	5	Z	Z	33

## Lowercase Letters

---

These letters are available only in Standard and Reduced fonts.

Char.	Online Code	Offline Code	Char.	Online Code	Offline Code
a	a	7777	n	n	55555
b	b	77777	o	o	555555
c	c	777777	p	p	6666
d	d	8888	q	q	66666
e	e	88888	r	r	666666
f	f	888888	s	s	1111
g	g	9999	t	t	11111
h	h	99999	u	u	111111
i	i	999999	v	v	2222
j	j	4444	w	w	22222
k	k	44444	x	x	222222
l	l	444444	y	y	333
m	m	5555	z	z	3333

## Currency Symbols

---

You can enter international currency symbols offline by setting the default monetary sign to the desired country setting and pressing the \$ key. The \$ enters the monetary sign that is currently active. **Shift** /\$ enters the secondary sign (for example, ¢ in U.S. currency). To change the monetary sign, see Chapter 7, "Setting Defaults."

Char.	Online Code	Offline Code	Char.	Online Code	Offline Code
\$	\$	\$	L.	~183	<b>Pause</b> 183
£	~178	<b>Pause</b> 178	K <sub>r</sub>	~184	<b>Pause</b> 184
¥	~179	<b>Pause</b> 179	M <sub>K</sub>	~185	<b>Pause</b> 185
₪	~180	<b>Pause</b> 180	Ḡ	~186	<b>Pause</b> 186
F	~181	<b>Pause</b> 181	R <sub>s</sub>	~187	<b>Pause</b> 187
P	~182	<b>Pause</b> 182	P <sub>6</sub>	~188	<b>Pause</b> 188
¢	~155	<b>Shift</b> \$	₩	~189	<b>Pause</b> 189
₹	~156	<b>Pause</b> 156	₪	~190	<b>Pause</b> 190
			¥	~191	P191

## Punctuation and Symbols

Char.	Online Code	Offline Code	Char.	Online Code	Offline Code
.	.	.	,	,	,
{ <sup>1</sup>	{	Shift ..	} <sup>1</sup>	}	Shift ,,
[ <sup>2</sup>	[	Shift ...	] <sup>2</sup>	]	Shift ,,,
<	<	Shift .....	>	>	Shift ,,,,,
(	(	Shift .....	)	)	Shift ,,,,,,
'	'	Shift .....	"	"	Shift ,,,,,,
;	;	Shift .....	:	:	Shift ,,,,,,
#	#	#	(spc)	(spc)	Shift 0
?	?	Shift #	/	/	Shift 00
@	@	Shift ##	*	*	Shift 000
&	&	Shift ###	+	+	Shift 0000
!	!	Shift ####	-	-	Shift 00000
-	-	Shift #####	%	%	Shift 000000
<sup>1</sup>		Shift #####	\ <sup>2</sup>	\	Shift 0000000
, <sup>1</sup>	,	Shift #####	"	~034	Pause 034
^		Shift #####	~	~198	Pause 198
=	=	(None)	_2	~199	Pause 199
¢		Shift \$			

<sup>1</sup>Not available in the OCRA-like and Bold fonts. <sup>2</sup>Not available in the OCRA-like font.

## International Characters

These characters are available only in Standard and Reduced fonts.

Char.	Online Code	Offline Code	Char.	Online Code	Offline Code
Ç	~128	Pause 128	Ö	~153	Pause 153
Û	~129	Pause 129	Ü	~154	Pause 154
é	~130	Pause 130	¢	~155	Pause 155*
â	~131	Pause 131	£	~156	Pause 156*
ä	~132	Pause 132	¥	~157	Pause 157*
à	~133	Pause 133	₤	~158	Pause 158*
á	~134	Pause 134	_	~159	Pause 159
ç	~135	Pause 135	á	~160	Pause 160
ê	~136	Pause 136	í	~161	Pause 161
ë	~137	Pause 137	ó	~162	Pause 162
è	~138	Pause 138	ú	~163	Pause 163
ï	~139	Pause 139	ñ	~164	Pause 164
î	~140	Pause 140	Ñ	~165	Pause 165
ì	~141	Pause 141	<sup>a</sup>	~166	Pause 166
Ä	~142	Pause 142	°	~167	Pause 167
Å	~143	Pause 143	¿	~168	Pause 168
É	~144	Pause 144	¬	~169	Pause 169
æ	~145	Pause 145	¬	~170	Pause 170
Æ	~146	Pause 146	¡	~173	Pause 173
ó	~147	Pause 147	«	~174	Pause 174
ö	~148	Pause 148	»	~175	Pause 175
ò	~149	Pause 149	~	~198	Pause 198

\*Available in Bold and OCRA-like fonts using Currency codes.

Char.	Online Code	Offline Code	Char.	Online Code	Offline Code
û	~150	<input type="button" value="Pause"/> 150	_	~199	<input type="button" value="Pause"/> 199
ù	~151	<input type="button" value="Pause"/> 151	Ø	~210	<input type="button" value="Pause"/> 210
ÿ	~152	<input type="button" value="Pause"/> 152	ø	~214	<input type="button" value="Pause"/> 214
1/2	~171	<input type="button" value="Pause"/> 171	α	~224	<input type="button" value="Pause"/> 224
1/4	~172	<input type="button" value="Pause"/> 172	β	~225	<input type="button" value="Pause"/> 225

## Code 128 Function Codes

Code	Function Code
~201	F1
~202	F2
~203	F3
~204	F4

# GLOSSARY

batch	Group of tags or labels that contain the same data.
batch separator	Extra tag between batches that shows where one batch ends and the next one begins.
character	Letter, number, or symbol.
continuous	Feed mode in which the printer prints all the tags in a batch without stopping.
cursor	Underline symbol that shows where you are on the screen.
data entry keypad	21-key keypad that includes letters and numbers.
digits	Numbers only.
drawing	Term that appears on the printer to indicate bar code printing.
enter	Type in data from the keypad.
field	Area on the supply where data prints.
format	Arrangement of fields printed on the supply.
imaging	Term that appears on the printer to indicate text printing.
offline	Entering data and printing batches by using the printer alone (without a computer).
online	Entering data and printing batches by sending data from a computer.
printing	Term that appears on the printer to indicate graphics printing.

<b>queue</b>	<b>Batches waiting to print (also includes the batch that is printing).</b>
<b>supplies</b>	<b>Tags or labels used for printing.</b>