

System Administrator's Guide



Monarch®
Pathfinder® Ultra®
Platinum Printer

PAXAR

This device has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the Federal Communications Commissions Rules and Regulation. 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. However, there is no guarantee that interference will not occur in a particular installation.

If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- ◆ Re-orient or relocate the receiving antenna.
- ◆ Increase the separation between the equipment and receiver.
- ◆ Connect the equipment into an outlet on a circuit different from that which the receiver is connected.

This Class B digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe B respecte toutes les exigences du Règlement sur le Matériel Brouilleur du Canada.

Note: Information in this document supercedes information in previous versions.

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INTRODUCTION

1

The Monarch® Pathfinder® Ultra® *Platinum* 6039™ printer prints, scans bar codes, collects data, and communicates with other devices. The printer operates on a modified Microsoft® Windows® CE platform.

Using this Manual

Following is a summary of the contents of this manual.

	Chapter	Contents
1	Introduction	Information you should know before using the printer.
2	Printer Diagnostics	Using printer diagnostics to print test labels, check sensors and view inches printed, etc.
3	Scanner Configuration	Configuring the scanner to accept certain bar codes and setting the scanner and trigger modes.
4	Scanner Diagnostics	Using scanner diagnostics.

To check your radio, use the diagnostics provided with your radio. This manual does not include any radio diagnostic information. You may only be able to “ping” your radio.

Audience

This manual is for the System Administrator who configures the printer and scanner and performs diagnostics.

A *Quick Reference* for this printer is available in the box. *Programmer's Manuals* and other documentation are also available on our Web site.

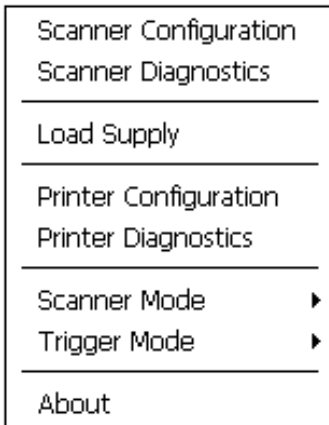
USING PRINTER DIAGNOSTICS **2**

You can use printer diagnostics to

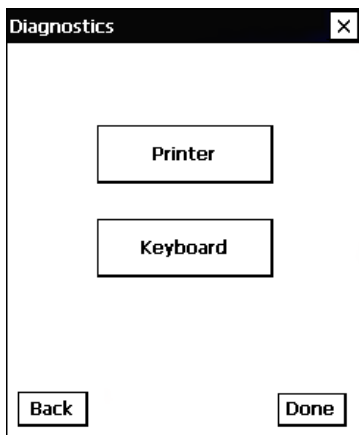
- ◆ check machine totals
- ◆ print diagnostic labels
- ◆ perform sensor tests
- ◆ perform a printhead dot resistance test
- ◆ check the keyboard's functionality

Accessing Printer Diagnostics

1. Select the printer icon from the Status Bar.

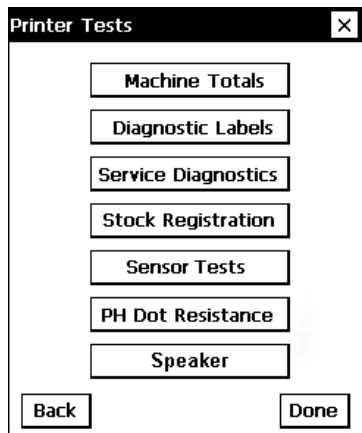


2. Select **Printer Diagnostics**.



3. Select **Printer**.

4. Decide which test to perform:

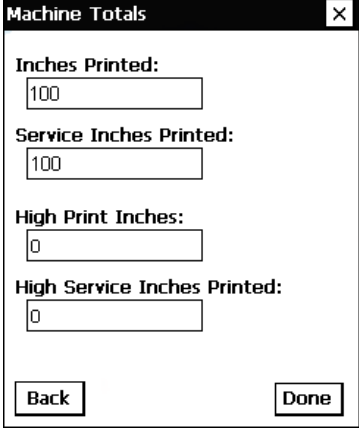


- ◆ For Machine Totals, see “Checking Machine Totals” for more information.
- ◆ For Diagnostic Labels, see “Printing Diagnostic Labels” for more information.
- ◆ For Stock Registration, see “Checking the Stock Registration” for more information.
- ◆ For Sensor Tests, see “Performing Sensor Tests,” for more information.
- ◆ For the Printhead, see “Testing the Printhead,” for more information.
- ◆ For the speaker, see “Testing the Speaker,” for more information.

The Service Diagnostics Menu can only be accessed by a Paxar Representative, because it requires a separate password.

Checking Machine Totals

1. Select **Machine Totals** from the Printer Tests screen. You see the machine totals for inches printed, service inches printed, high inches (for synthetic supply) printed, and service high inches printed. The printer tracks the number of inches of supplies it has printed.



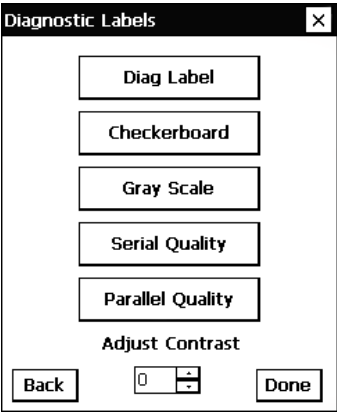
The image shows a software window titled "Machine Totals" with a close button (X) in the top right corner. Inside the window, there are four labels with corresponding input fields: "Inches Printed:" with a field containing "100", "Service Inches Printed:" with a field containing "100", "High Print Inches:" with a field containing "0", and "High Service Inches Printed:" with a field containing "0". At the bottom of the window, there are two buttons: "Back" on the left and "Done" on the right.

Category	Value
Inches Printed:	100
Service Inches Printed:	100
High Print Inches:	0
High Service Inches Printed:	0

2. Select **Back** or click **X** in the upper-right hand corner of the screen to return to the previous screen.

Printing Diagnostic Labels

1. Select **Diagnostic Labels** (test labels) from the Printer Tests screen.

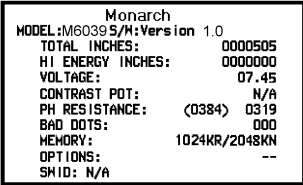
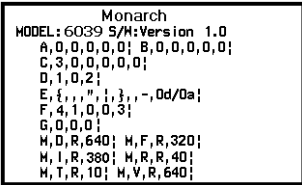


2. Before you run these tests, be sure to load your supply in Non-Peel mode. Refer to the *Operator’s Handbook* for more information about loading supply.

Note: As these tests are successfully performed, “success” appears at the top right-hand corner of the screen.

Select: The following labels print:

Diag(nostics)
Label

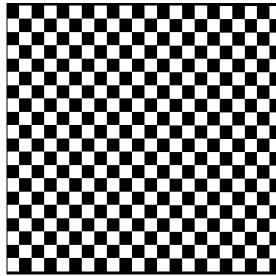


The first diagnostic (test) label shows the model number, software version, and the printer’s configuration by packet. Refer to the *Programmer’s Manual* for more information about configuration packets. The second diagnostic (test) label shows the model number, software version, total number of inches printed, voltage, print contrast, printhead resistance, number of bad dots, and memory.

Select:

The following label prints:

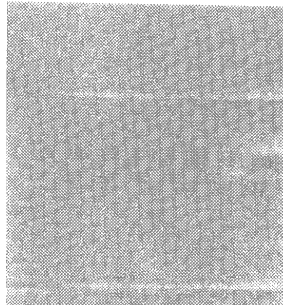
Checkerboard



Prints a label to verify that the printhead strobes are working.

If your printed sample has fewer lines or no lines, keep the sample and call Service.

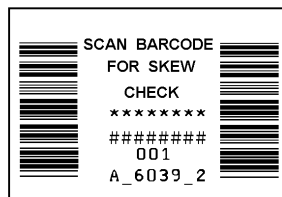
Grey Scale



The grey scale test checks the uniformity of the printing. The printed sample should be uniformly grey across the supply. If you see voids, especially on the edges, keep the sample and call Service.

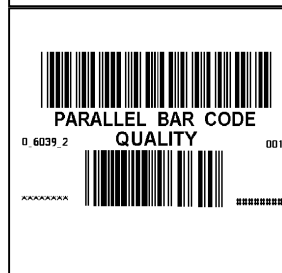
Label with voids

Serial Quality



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

Parallel Quality



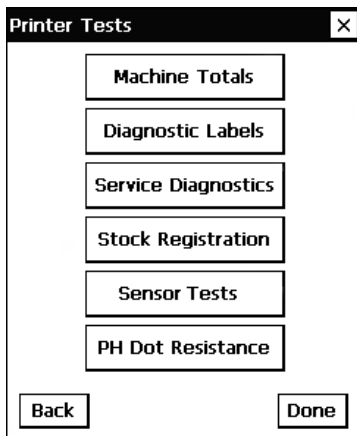
A label prints with bar codes to scan to check the quality of parallel bar codes.

Adjust Contrast

Use the arrow keys to change contrast. The higher the number, the darker the print; the lower the number, the lighter the print.

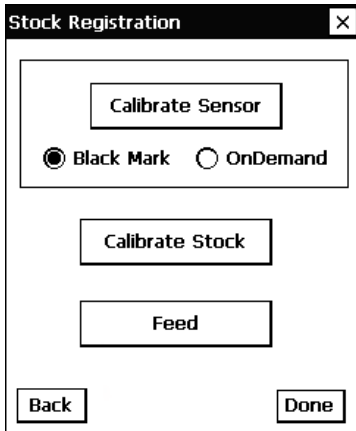
The print contrast controls the darkness of the printing on your supply. The range is -28 to $+40$ and the default is 0 . You may need to increase or decrease the print contrast depending on your supply type. Having the correct print contrast setting is important because it affects how well your bar codes scan and how long your printhead lasts.

3. Select **Back** or click **X** in the upper-right hand corner of the screen to return to the previous screen.



Checking the Stock Registration

1. Load the supply and feed it through the label path as shown in the *Operator's Handbook* or *Quick Reference*.
2. Select **Stock Registration** from the Printer Tests screen.



3. Select the sensor to calibrate (either Black Mark or On-Demand). The black mark sensor is used with black mark supplies (supplies with rectangular marks on the back side of the liner or on the supply). The on-demand sensor is for peeled supplies, either die-cut or black mark.
4. Select **Calibrate Sensor** to calibrate the selected sensor.

If you select the Black Mark sensor, the printer feeds supply until it detects a black mark to calibrate the sensor. When the calibration is successful, a label prints: "Stock Sensor Calibration Successful."

If you select the On-Demand sensor, the printer feeds one or two labels to calibrate the on-demand sensor.

As these tests are successfully performed, "success" appears at the bottom of the screen.

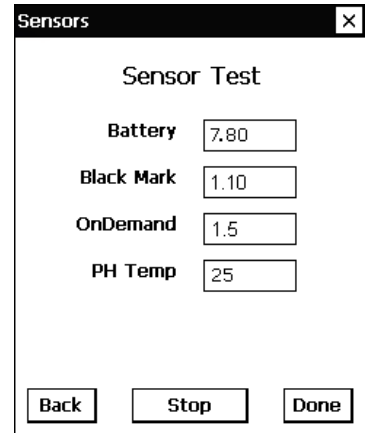
If you calibrate the sensor, there is no need to calibrate the supply. However, if you select **Calibrate Stock**, two or three labels are fed to calibrate the supply.

Note: If you want to feed a blank label, click **Feed**.

5. Select **Back** or click **X** in the upper-right hand corner of the screen to return to the previous screen.

Testing the Sensors

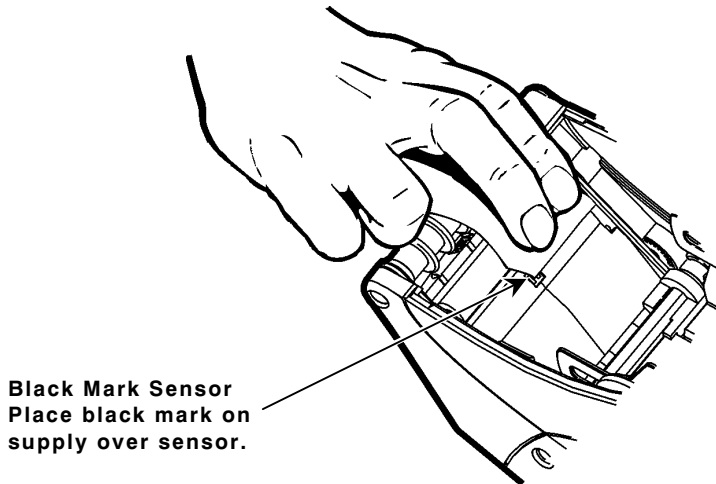
1. Select **Sensor Tests** from the Printer Tests screen.
2. The values for battery voltage, black mark sensor, on-demand sensor and printhead temperature appear. The battery voltage range is between 7.00 and 8.40 volts. The printer does not print if the voltage is below 7.0 volts.
3. To test the sensors, open the cover.
 - ◆ For the Black Mark sensor, hold a black mark against the sensor as shown. When you place the black mark on the sensor, the values change on the screen. If white is over the sensor, the values shown for the sensor are higher. The range is between 0 and 5.0.



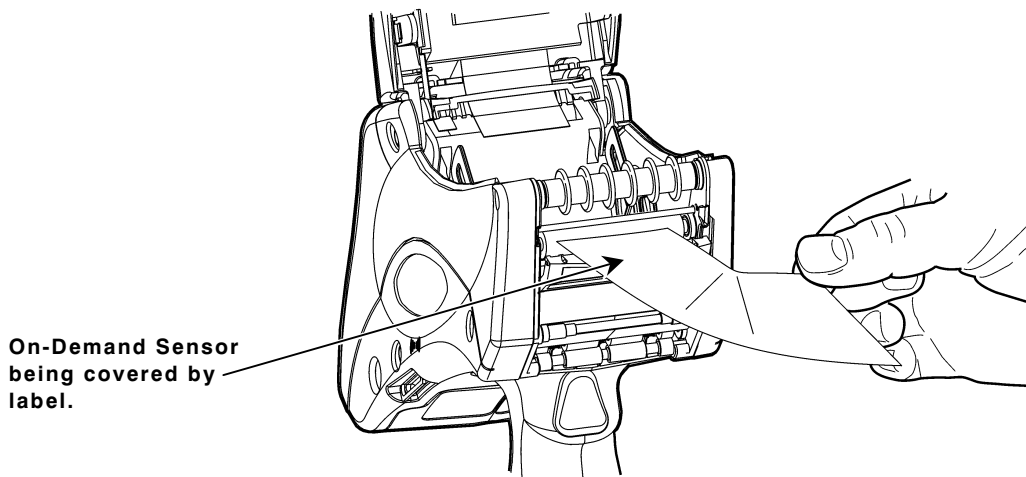
The screenshot shows a window titled "Sensors" with a close button (X) in the top right corner. Inside the window, the title "Sensor Test" is centered. Below the title, there are four rows of data, each with a label and a text box containing a value:

Sensor Test	
Battery	7.80
Black Mark	1.10
OnDemand	1.5
PH Temp	25

At the bottom of the window, there are three buttons: "Back", "Stop", and "Done".



- ◆ For the On-Demand sensor, hold a white label against the sensor as shown. When you cover the sensor with a label, the values change on the screen. The valid range is between 3.0 and 5.0. If the sensor is covered by a black mark, the valid range is between 0 and 1.5.



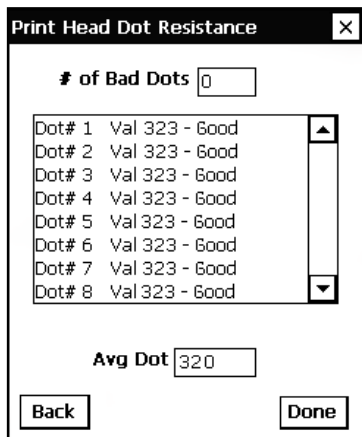
4. The value listed for PH Temperature is the current temperature of the printhead. The valid range is between 5 and 60 Celsius. The temperature of the printhead depends upon the number of labels printed and the operating environment. If the temperature is greater than 60, printing is not allowed.
5. Select **Stop** to stop the test and clear the values. Select Start to run the test again.

Note: If the value is not within the ranges, make a note and call Service.

6. Select **Back** or click **X** in the upper-right hand corner of the screen to return to the previous screen.

Testing the Printhead

1. Select **PH Dot Resistance** from the Printer Tests screen to perform the printhead dot resistance test.



Print Head Dot Resistance [X]

of Bad Dots

Dot# 1	Val 323 - Good
Dot# 2	Val 323 - Good
Dot# 3	Val 323 - Good
Dot# 4	Val 323 - Good
Dot# 5	Val 323 - Good
Dot# 6	Val 323 - Good
Dot# 7	Val 323 - Good
Dot# 8	Val 323 - Good

Avg Dot

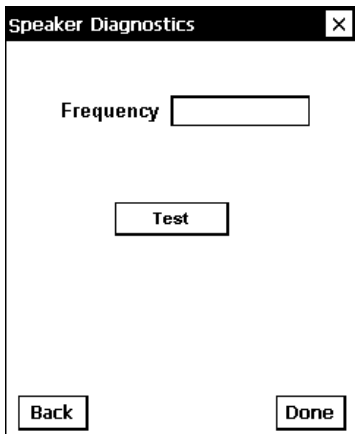
2. The printhead test checks for dot resistance. The dot resistance test checks each dot on the printhead. The valid range is between 245 and 455.

Note: If the values are not within range, make a note and call Service.

3. Select **Back** or click **X** in the upper-right hand corner of the screen to return to the previous screen.

Testing the Speaker

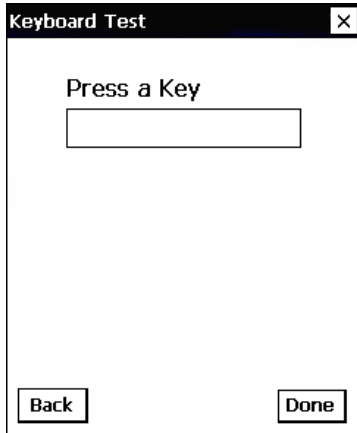
1. Select **Speaker** from the Printer Tests screen to perform the speaker test.



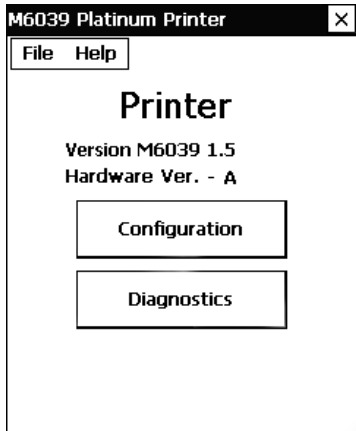
2. Select **Test**. While the test is performed, you hear a tone sounded at each frequency (200 Hz – 6400 Hz). The frequencies are displayed for each tone.
3. Select **Back** or click **X** in the upper-right hand corner of the screen to return to the previous screen.

Testing the Keyboard

1. From the Diagnostics screen, select **Keyboard**.



2. Press the key you want to test. The key pressed appears on the display. If you press Enter, the word "Enter" appears on the display.
3. Select **Back** or click **X** in the upper-right hand corner of the screen to return to the previous screen.



You can select

- ◆ **Diagnostics** to go back to the Main Diagnostics menu.
- ◆ **Configuration** to configure the printer. Refer to the *Operator's Handbook* for more information about configuring the printer.
- ◆ **Exit** from the File menu to quit.
- ◆ **About** from the Help menu. You see the printer's software version and other information.



4. Select **OK** to close the About box.
5. Select **Back** or click **X** in the upper-right hand corner of the screen to return to the previous screen.

CONFIGURING THE SCANNER

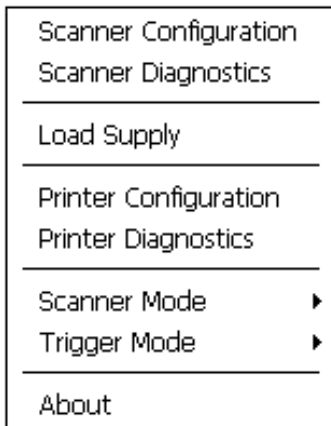
3

You can use scanner configuration to

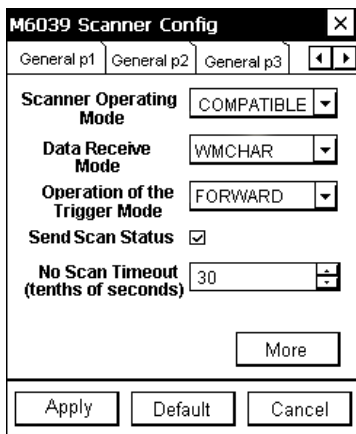
- ◆ set the scanner operating mode, trigger mode, and scanner timeout
- ◆ select the .wav file for good and unsuccessful scans
- ◆ enable and disable each specific bar code

Setting Scanner Options

1. Select the printer icon from the Status bar.



2. Select **Scanner Configuration**.



M6039 Scanner Config

General p1 | General p2 | General p3

Scanner Operating Mode: COMPATIBLE

Data Receive Mode: WMCHAR

Operation of the Trigger Mode: FORWARD

Send Scan Status: ☒

No Scan Timeout (tenths of seconds): 30

More

Apply | Default | Cancel

Note: Select **Apply** to save all the settings at any time. Select **Default** to return all the scanner settings to the default values at any time.

3. Set the **Scanner Operating Mode**: Momentary, Continuous, or Compatible. The default is compatible.

Momentary The scanner is on when the trigger is pressed.

Continuous The scanner is always on. A good scan causes the scanner to reset and continue scanning.

Compatible The scanner operates in Monarch® 6037™ compatible mode, which means the scanner is on when the trigger is pressed.

Note: An unsuccessful scans turns off the scanner and activates the tone (.wav file) set using the Scanner Configuration menu. A “no scan” is interpreted as an unsuccessful scan.

4. Set the **Data Receive Mode**: WMCHAR or SMSCANCHAR. The default is WMCHAR.

WMCHAR The application receives data by the keyboard buffer.

SMSCANCHAR The application receives data by the scanner through a special message.

5. Set the **Operation of the Trigger Mode**: Scan, Drop, or Forward. The default is Forward.

Scan Pressing the trigger turns on the scanner.

Drop The printer ignores the trigger press and does not turn on the scanner.

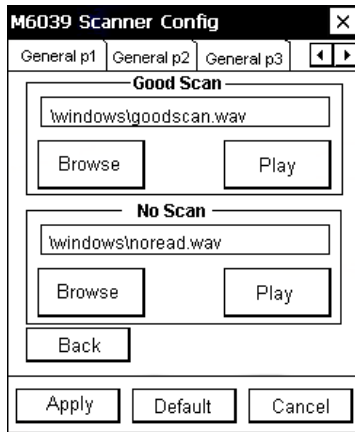
Forward The printer passes the trigger press to the application as an F11, which allows for more control of the application. You can code a custom application to perform a special function whenever it receives an F11.

6. Enable **Send Scan Status** to return the data after any scan. This data precedes the bar code and includes the length of data and bar code type. See Appendix A, “Scan Status Values,” for more information.
7. Set the **No Scan Timeout** in tenths of seconds, which is the amount of time the scanner beam is on before turning off when the trigger is pressed. The range is **5 – 99**. The default is 30.
8. Select **More** to continue. You see additional options:

The screenshot shows a dialog box titled "M6039 Scanner Config" with a close button (X) in the top right corner. It has three tabs: "General p1", "General p2", and "General p3", with "General p1" being the active tab. The dialog contains several settings: "Preamble" and "Postamble" are text input fields with up/down arrow buttons; "AIM Duration" is a numeric input field set to 0; "Linear Security" is a numeric input field set to 1; and "Bi-Directional Redundancy" is a checked checkbox. At the bottom, there are three buttons: "Back", "More", and "Apply". Below these are three more buttons: "Apply", "Default", and "Cancel".

9. Set the **Preamble**, which specifies the characters to preface returned data from certain bar codes. The Preamble can be up to twenty user-defined characters.
10. Set the **Postamble**, which is the data to be sent after each scanned barcode. The Postamble can be up to twenty user-defined characters.

11. Set the **AIM Duration**, which is the duration of the aiming beam when the scanner is activated. The range is **0.0 - 9.9** seconds in .1 second increments (0 disables the scanner). The default is 0.
12. Set the **Linear Security**, which is how many times to scan the same barcode to determine a successful read. The range is 1 – 4. The default is 1.
13. Enable **Bi-Directional Redundancy**, which specifies that good scans must occur in both directions (forward and reverse) for the scan to be complete.
14. Select **More** to continue.



15. Use **Browse** to select the tone (.wav file) for a Good Scan. This tone is heard whenever a bar code is successfully scanned.
16. Select **Play** to hear the tone.
17. Use **Browse** to select the tone (.wav file) for No Scan. This tone is heard whenever a bar code is unsuccessfully scanned.
18. Select **Play** to hear the tone.
19. Select **Apply** to save all the settings.
20. Select **Default** to return all the scanner settings to the default values.

Enabling Specific Bar Codes

You must enable and disable each specific bar code type for scanning. Some bar codes require additional settings.

You can scan any of these bar codes:

- ◆ UPC/EAN (2 SCREENS)
- ◆ CODE 39
- ◆ CODE 93
- ◆ I 2OF5
- ◆ RSS
- ◆ CODABAR
- ◆ CODE 128
- ◆ MSI
- ◆ D 2OF5
- ◆ PDF417

Configuring UPC/EAN Bar Codes

1. To configure UPC/EAN settings, use the scroll bar at the top of the screen to scroll until you select the UPC/EAN p1 (Page 1) Tab.

2. Select each bar code you need to scan:

- UPCA** Allows the scanner to scan UPCA, UPCA+2, and UPCA+5 bar codes.
- UPCE** Allows the scanner to scan UPCE bar codes.
- UPCE1** Allows the scanner to scan UPCE1 bar codes.
- EAN8** Allows the scanner to scan EAN8 bar codes.
- EAN13** Allows the scanner to scan EAN13 bar codes.

3. For each bar code, decide if you want to tell the scanner to return the check digit with the data when the bar code is scanned. Select the **Transmit CD** box as necessary.

The screenshot shows the 'M6039 Scanner Config' dialog box with the 'UPC/EAN p1' tab selected. The dialog has three tabs: 'General p3', 'UPC/EAN p1', and 'UPC/EAN p2'. The 'UPC/EAN p1' tab contains a table with columns for 'Enable', 'Transmit CD', and 'Preamble'. The 'Enable' column has checkboxes for UPCA, UPCE, UPCE1, EAN8, and EAN13. The 'Transmit CD' column has checkboxes for the same bar codes. The 'Preamble' column has dropdown menus for UPCA (SYSCHAR), UPCE (NONE), and UPCE1 (SYSCHAR). There is a 'More' button next to the EAN8 and EAN13 rows. At the bottom of the dialog are 'Apply', 'Default', and 'Cancel' buttons.

Enable	Transmit CD	Preamble
<input checked="" type="checkbox"/> UPCA	<input checked="" type="checkbox"/>	SYSCHAR
<input checked="" type="checkbox"/> UPCE	<input checked="" type="checkbox"/>	NONE
<input type="checkbox"/> UPCE1	<input checked="" type="checkbox"/>	SYSCHAR
<input checked="" type="checkbox"/> EAN8		
<input checked="" type="checkbox"/> EAN13		

More

Apply Default Cancel

4. For each bar code, set the **Preamble**, which specifies the characters that preface the returned data from a UPCA bar code. The choices are:
 - ◆ No Data
 - ◆ System Character
 - ◆ Country Code and System Character.

Note: The USA country code is 0.

5. Select **More** to continue.

6. Select each bar code you need to scan:

Coupon Code Allows the scanner to scan UPCA, UPCA+2, UPCA+5, and UPCA/EAN-128 bar codes.

Note: Set Supplemental to **Auto** to use this option.

UPCE to UPCA Tells the scanner to convert UPCE bar codes to a UPCA format before returning the data.

Note: After the conversion, your UPCA selections affect the data.

EAN Zero Extend Tells the scanner to add 5 leading zeros to EAN8 bar codes to convert them into EAN13 bar codes.

Bookland Allows the scanner to scan Bookland EAN bar codes.

EAN8 to EAN13 Tells the scanner to label the bar code as EAN8 or EAN13 when EAN Zero Extend is enabled.

UPCE1 to UPCA Tells the scanner to convert UPCE1 bar codes to a UPCA format before returning the data.

Note: After the conversion, your UPCA selections affect the data.

M6039 Scanner Config

UPC/EAN p1 | UPC/EAN p2 | Code 39

☐ Coupon Code ☐ Bookland

☐ UPCE to UPCA ☐ EAN8 to EAN13

☐ EAN Zero Ext ☐ UPCE1 to UPCA

Supplemental:

Supplemental Redundancy:

Security:

Back

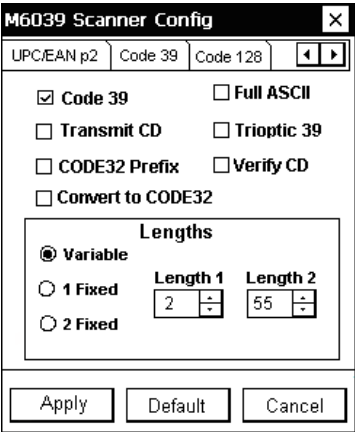
Apply Default Cancel

- 7.** Set the **Supplemental Mode** for UPC/EAN bar codes, which specifies how to treat UPC and EAN bar codes with supplemental characters (UPCA+2, for example). The choices are Required, Ignore, or Auto. The default is Ignore.
- Required** The scanner scans bar codes with supplemental characters only. For example, it scans a UPCA+2 bar code, but not UPCA.
 - Ignore** The scanner ignores supplemental characters. For example, it scans a UPCA+2 bar code as a UPCA.
 - Auto** Uses scanning information as specified in Scan UPC/EAN Supplemental Redundancy.
- 8.** Set the **Supplemental Redundancy**, which sets the number of times a symbol without supplemental information is decoded. The range is 2 – 20. The default is 7.
- 9.** Set the **Security**, which is how many times to scan the same barcode to determine a successful read. The range is **1 – 4**. The default is 1.
- Before setting this security level, you must decide the print quality of the bar codes you are scanning. The better the quality of the bar code, the lower security level you should choose.
- 1** Choose 1 if most of your scans are successful.
 - 2** Choose 2 when your unsuccessful scans are related to characters 1, 2, 7, and 8.
 - 3** Choose 3 when your unsuccessful scans are not limited to characters 1, 2, 7, and 8.
 - 4** Choose 4 if unsuccessful scans still occur at level 2.
- 10.** Select **Apply** to save all the settings. .
- 11.** Select **Default** to return all the scanner settings to the default values.

Configuring Code 39 Bar Codes

- 1. To configure Code 39 settings, use the scroll bar at the top of the screen to scroll until you select the Code 39 Tab.
- 2. Select each bar code you need to scan:

Code 39	Allows the scanner to scan Code 39 bar codes.
Transmit CD	Tells the scanner to return the check digit with the data when a Code 39 bar code is scanned.
Code32 Prefix	Allows the scanner to scan Code 32 Prefix bar codes.
Convert to Code32	Tells the scanner to convert Code 39 bar codes to Code 32 bar codes.
Full ASCII Conversion	Allows the scanner to interpret data in a Code 39 bar code as an ASCII representation. The scanner does not autodiscriminate between Code 39 and Code 39 Full ASCII. Note: Do not enable this option and Trioptic Code 39 at the same time.
Trioptic 39	Allows the scanner to scan Trioptic Code 39 bar codes. The length is always 6. Note: Do not enable this bar code and Code 39 Full ASCII at the same time.
Verify CD	Tells the scanner to check the integrity of all Code 39 bar codes that it scans. Note: This option only works on Code 39 bar codes that include a modulo 43 check digit.



Lengths

Sets the length(s) for Code 39 bar codes.

Variable, specifies that Code 39 bar codes can be any length.

Note: Lengths include check digits.

1 Fixed, specifies a single length for valid Code 39 bar codes. The range for Length 1 is 2 – 99.

The default is 2.

2 Fixed, specifies two lengths for valid Code 39 bar codes. The range for Length 2 is 2 – 99.

The default is 55.

If you have enabled Code 39 Full ASCII, choose

Variable.

Note: Specifying a range of lengths increases the likelihood of unsuccessful scans.

3. Select **Apply** to save all the settings.
4. Select **Default** to return all the scanner settings to the default values.

Configuring Code 128 Bar Codes

1. To configure Code 128 settings, use the scroll bar at the top of the screen to scroll until you select the Code 128 Tab.

2. Select each bar code you need to scan:

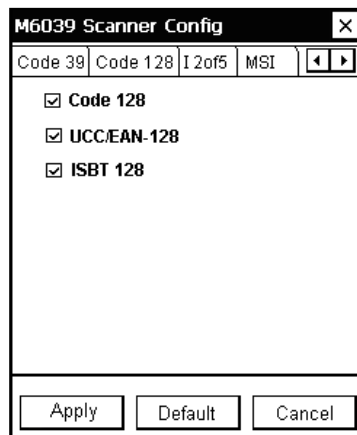
Code 128 Allows the scanner to scan Code 128 bar codes.

**UCC/
EAN-128** Allows the scanner to scan UCC/EAN-128 bar codes.

ISBT 128 Allows the scanner to scan ISBT 128 bar codes. Any length bar code is valid.

3. Select **Apply** to save all the settings.

4. Select **Default** to return all the scanner settings to the default values.



Configuring I 2of5 Bar Codes

1. To configure I 2of5 settings, use the scroll bar at the top of the screen to scroll until you select the I 2of5 Tab.

2. Select each bar code you need to scan:

I 2of5 Allows the scanner to scan I 2of5 bar codes.

Transmit CD Tells the scanner to return the check digit with the data when an I 2of5 bar code is scanned.

Convert to EAN13 Tells the scanner to convert 14-character I 2of5 bar codes into an EAN13 bar code.

For the conversion to work, the following must occur:

- ◆ I 2of5 bar codes must be enabled.
- ◆ 14 must be a valid length.
- ◆ The data must have a leading zero.
- ◆ The data must include an EAN13 check digit.

Verify CD Tells the scanner to check the integrity of a scanned I 2of5 bar code to ensure it complies with either USS or OPCC standards.

Lengths *Variable*, specifies that I 2of5 bar codes can be any length.

Sets the length(s) for 12 of 5 bar codes. **Note:** Specifying a range of lengths increases the likelihood of unsuccessful scans.

1 Fixed, specifies a single length for valid I 2of5 bar codes. The range for Length 1 is 2 – 99. The default is 2.

2 Fixed, specifies two lengths for valid I 2of5 bar codes. The range for Length 2 is 2 – 99. The default is 55.

M6039 Scanner Config

Code 128 | **I 2of5** | MSI | Codabar

☒ **I 2of5** ☐ **Verify CD**

☐ **Transmit CD**

☐ **Convert to EAN13**

Lengths

☒ **Variable**

☐ **1 Fixed**

☐ **2 Fixed**

Length 1: 2

Length 2: 22

Apply Default Cancel

3. Select **Apply** to save all the settings.

4. Select **Default** to return all the scanner settings to the default values.

Configuring MSI Bar Codes

1. To configure MSI settings, use the scroll bar at the top of the screen to scroll until you select the MSI Tab.

2. Select each bar code you need to scan

MSI Allows the scanner to scan MSI bar codes.

Transmit CD Tells the scanner to return the check digit with the data when an MSI bar code is scanned.

Mod 10/11 CD Scheme Tells which algorithm to use to ensure the integrity of a two-check digit MSI bar code.

Use 2 CDs Tells the number of check digits that MSI bar codes should have.

Note: Check digits are not always returned with the data. If you choose two check digits, you must choose a check digit algorithm.

Lengths *Variable*, specifies that MSI bar codes can be any length.

Sets the length(s) for MSI bar codes. **Note:** Specifying a range of lengths increases the likelihood of unsuccessful scans.

1 Fixed, specifies a single length for valid MSI bar codes. The range for Length 1 is 2 – 99. The default is 2.

2 Fixed, specifies two lengths for valid MSI bar codes. The range for Length 2 is 2 – 99. The default is 55.

M6039 Scanner Config

Code 128 | I 2 of 5 | **MSI** | Codabar

☒ **MSI** ☐ Use 2 CDs

☐ Transmit CD

☐ Mod 10/11 CD Scheme

Lengths

☒ **Variable**

☐ 1 Fixed

☐ 2 Fixed

Length 1: 1

Length 2: 55

Apply Default Cancel

3. Select **Apply** to save all the settings.

4. Select **Default** to return all the scanner settings to the default values.

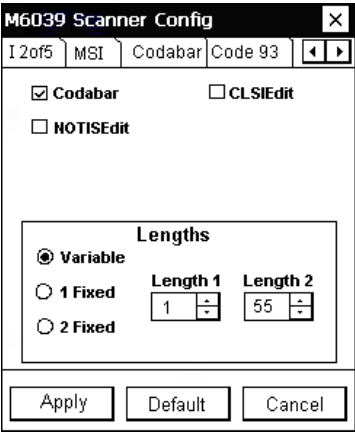
Configuring Codabar Bar Codes

- 1. To configure Codabar settings, use the scroll bar at the top of the screen to scroll until you select the Codabar Tab.
- 2. Select each bar code you need to scan:

- Codabar** Allows the scanner to scan Codabar bar codes.
- NOTISEdit** Tells the scanner to strip the start and stop characters from scanned Codabar bar codes.
- CLSIEdit** Tells the scanner to strip the start and stop characters from 14-character Codabar bar codes and insert spaces after the first, fifth, and tenth characters.
Note: The 14-character length does not include start and stop characters.

- Lengths** Sets the length(s) for Codabar bar codes.
Variable, specifies that Codabar bar codes can be any length.
Note: Specifying a range of lengths increases the likelihood of unsuccessful scans.
1 Fixed, specifies a single length for valid Codabar bar codes. The range for Length 1 is 2 – 99. The default is 2.
2 Fixed, specifies two lengths for valid Codabar bar codes. The range for Length 2 is 2 – 99. The default is 55.

- 3. Select **Apply** to save all the settings.
- 4. Select **Default** to return all the scanner settings to the default values.



Configuring Code 93 Bar Codes

1. To configure Code 93 settings, use the scroll bar at the top of the screen to scroll until you select the Code 93 Tab.

2. Select each bar code you need to scan:

Code 93 Allows the scanner to scan Code 93 bar codes.

Lengths *Variable*, specifies that Code 93 bar codes can be any length.

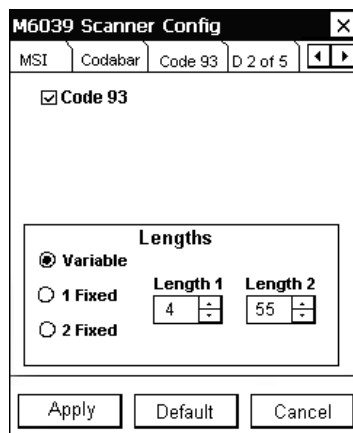
Sets the length(s) for Code 93 bar codes. **Note:** Specifying a range of lengths increases the likelihood of unsuccessful scans.

1 Fixed, specifies a single length for valid Code 93 bar codes. The range for Length 1 is 2 – 99. The default is 2.

2 Fixed, specifies two lengths for valid Code 93 bar codes. The range for Length 2 is 2 – 99. The default is 55.

3. Select **Apply** to save all the settings.

4. Select **Default** to return all the scanner settings to the default values.



Configuring D 2of5 Bar Codes

1. To configure D 2of5 settings, use the scroll bar at the top of the screen to scroll until you select the D 2of5 Tab.

2. Select each bar code you need to scan:

D 2of5 Allows the scanner to scan D 2of5 bar codes.

Lengths *Variable*, Specifies that D 2of5 bar codes can be any length.

Sets the length(s) for D 2of5 bar codes. **Note:** Specifying a range of lengths increases the likelihood of unsuccessful scans.

1 Fixed, Specifies a single length for valid D 2of5 bar codes. The range for Length 1 is 2 – 99. The default is 2.

2 Fixed, Specifies two lengths for valid D 2of5 bar codes. The range for Length 2 is 2 – 99. The default is 55.

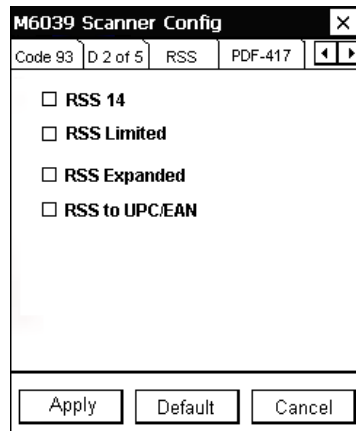
3. Select **Apply** to save all the settings.

4. Select **Default** to return all the scanner settings to the default values.

The screenshot shows the 'M6039 Scanner Config' window. At the top, there is a tab bar with 'Codabar', 'Code 93', 'D 2 of 5', and 'RSS'. The 'D 2 of 5' tab is selected. Below the tab bar, there is a checkbox labeled 'D 2of5' which is checked. Underneath, there is a section titled 'Lengths' with three radio button options: 'Variable', '1 Fixed', and '2 Fixed'. The '1 Fixed' option is selected. To the right of '1 Fixed', there are two input fields: 'Length 1' with the value '12' and 'Length 2' which is empty. At the bottom of the window, there are three buttons: 'Apply', 'Default', and 'Cancel'.

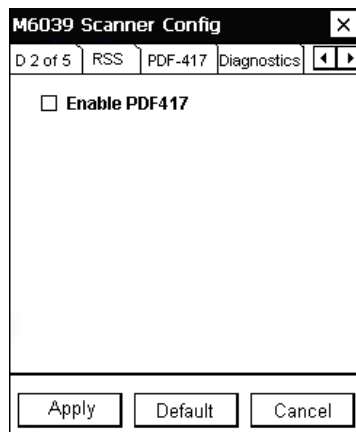
Configuring RSS Bar Codes

1. To configure RSS settings, use the scroll bar at the top of the screen to scroll until you select the RSS Tab.
2. Select each bar code you need to scan:
 - RSS 14** Allows the scanner to scan RSS 14 bar codes.
 - RSS Limited** Allows the scanner to scan RSS Limited bar codes.
 - RSS Expanded** Allows the scanner to scan RSS Expanded bar codes.
 - RSS to UPC/EAN** Tells the scanner to convert RSS bar codes into an UPC/EAN bar code.
3. Select **Apply** to save all the settings.
4. Select **Default** to return all the scanner settings to the default values.



Configuring PDF417 Bar Codes

1. To configure PDF417 settings, use the scroll bar at the top of the screen to scroll until you select the PDF417 Tab.
2. Select the bar code you need to scan:
PDF417 Allows the scanner to scan PDF417 bar codes.
3. Select **Apply** to save all the settings.
4. Select **Default** to return all the scanner settings to the default values.



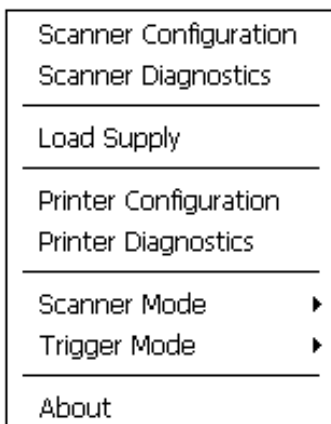
USING SCANNER DIAGNOSTICS

You can use scanner diagnostics to

- ◆ check the data in a bar code
- ◆ view a bar code's type and length.

Performing Scanner Diagnostics

1. Select the printer icon from the Status bar.



2. Select **Scanner Diagnostics**.

The screenshot shows the 'M6039 Scanner Config' dialog box with the 'Diagnostics' tab selected. The 'Scanner Type' is set to 'Symbol 923HS'. There are input fields for 'Scan Barcode', 'Type' (currently showing 'No Scan'), and 'Length'. An 'About' button is located at the bottom right of the main dialog area. At the very bottom are 'Apply', 'Default', and 'Cancel' buttons.

3. Scan a bar code. The bar code's data and length appears.

4. Select **About** to see additional scanner information.

This screenshot shows the 'M6039 Scanner Config' dialog box with the 'About' dialog box open over it. The 'About' dialog box contains the text: 'M6039 Pathfinder Ultra Platinum Scanner Config Prototype 1.0.0.0.1', 'Copyright © 2005', and 'Paxar Americas, Inc.'. The 'About' button in the background dialog is still visible.

5. Select **OK** to close the About box.

6. Select **Apply** to save all the settings.

7. Select **Default** to return all the scanner settings to the default values.

8. Click **X** in the upper-right hand corner of the screen to return to the previous screen.

Setting the Scanner Mode

This is a quick way to set the scanner mode, instead of accessing the Scanner Configuration menu.

1. Select the printer icon from the Status Bar.
2. Select **Scanner Mode**: Momentary, Continuous, or Compatible.

Momentary	The scanner is on as long as the trigger is pressed.
Continuous	The scanner is always on. A good scan causes the scanner to reset and continue scanning.
Compatible	The scanner operates in Monarch® 6037™ compatible mode. The scanner is on as long as the trigger is pressed.

Note: A bad scans turns off the scanner and activates the tone (.wav file) set using the Scanner Configuration menu.

Setting the Trigger Mode

This is an easier way to get to the same menu that appears when you select Scanner Configuration.

1. Select the printer icon from the Status Bar.
2. Select **Trigger Mode**: Scan, Drop, or Forward. The default is Forward.

Scan	Pressing the trigger activates the scanner.
Drop	The printer ignores the trigger press and does NOT activate the scanner.
Forward	The printer passes the trigger press to the application, which simulates pressing F11.

SCAN STATUS VALUES

If you have enabled **Send Scan Status**, use the following table to interpret the data returned from every scan. This data precedes the bar code and includes the length of data and bar code type. Refer to the *Programmer's Manual* for more information.

Value	Bar Code Type
0	No Scan
1	Code 39
2	Codabar
3	Code 128
4	Discrete 2of5
5	IATA 2of5
6	Interleaved 2of5
7	Code 93
8	UPC A
9	UPC E
10	EAN 8
11	EAN 13
14	MSI Plessey
15	EAN 128
16	UPC E1
17	PDF417
21	Trioptic Code 39
22	Bookland EAN
23	Coupon Code

Value	Bar Code Type
48	RSS 14
49	RSS Limited
50	RSS Expanded
72	UPC A with 2 Supplements
73	UPC E with 2 Supplements
74	EAN 8 with 2 Supplements
75	EAN 13 with 2 Supplements
80	UPC E1 with 2 Supplements
136	UPC A with 5 Supplements
137	UPC E with 5 Supplements
138	EAN 8 with 5 Supplements
139	EAN 13 with 5 Supplements
144	UPC E1 with 5 Supplements

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