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Who Should Use This Document

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How This Document Is Organized

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<td>This guide explains the known differences between the Zebra printer with APL-D firmware and the Datamax Prodigy Plus printer. For complete printer operation, use this guide with your Prodigy Plus Operator’s Manual.</td>
</tr>
<tr>
<td>Commands on page 17</td>
<td>This section provides you with a detailed listing of commands on your Zebra printer with APL-D firmware as implemented on the Prodigy Plus printer.</td>
</tr>
<tr>
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</tr>
<tr>
<td>Control Panel Options on page 69</td>
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Technical Support via the Internet is available 24 hours per day, 365 days per year.

**Web Site:** [www.zebra.com](http://www.zebra.com)

**E-mail Back Technical Library:**
- **E-mail address:** emb@zebra.com
- **Subject line:** Emailist

**Self Service Knowledge Base:** [www.zebra.com/knowledgebase](http://www.zebra.com/knowledgebase)

**Online Case Registration:** [www.zebra.com/techrequest](http://www.zebra.com/techrequest)

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### Contacts

**Which Department Do You Need?**

<table>
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<tr>
<th>The Americas</th>
<th>Europe, Middle East, and Africa</th>
<th>Asia Pacific and India</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Regional Headquarters</strong></td>
<td>Zebra Technologies Corporation 475 Half Day Road, Suite 500 Lincolnshire, IL 60069 USA T: +1 847 634 6700 Toll-free +1 866 230 9494 F: +1 847 913 8766</td>
<td>Zebra Technologies Europe Limited Dukes Meadow Millboard Road Bourne End Buckinghamshire, SL8 5XF United Kingdom T: +44 (0) 1628 556000 F: +44 (0) 1628 556001</td>
</tr>
</tbody>
</table>

**Technical Support**

For questions on the operation of Zebra equipment and software, please call your distributor. For additional assistance, contact us. Please have your model and serial numbers available.

<table>
<thead>
<tr>
<th>The Americas</th>
<th>Europe, Middle East, and Africa</th>
<th>Asia Pacific and India</th>
</tr>
</thead>
<tbody>
<tr>
<td>T: +1 877 ASK ZEBRA (275 9327) F: +1 847 913 2578 Hardware: <a href="mailto:ts1@zebra.com">ts1@zebra.com</a> Software: <a href="mailto:js3@zebra.com">js3@zebra.com</a> Kiosk printers: T: +1 866 322 5202 E: <a href="mailto:kiosksupport@zebra.com">kiosksupport@zebra.com</a></td>
<td>T: +44 (0) 1628 556039 F: +44 (0) 1628 556003 E: <a href="mailto:Tserveurope@zebra.com">Tserveurope@zebra.com</a></td>
<td>T: +65 6858 0722 F: +65 6885 0838 E: China: <a href="mailto:tschina@zebra.com">tschina@zebra.com</a> All other areas: <a href="mailto:tsasiapacific@zebra.com">tsasiapacific@zebra.com</a></td>
</tr>
</tbody>
</table>

**Repair Service Department**

For back-to-base service and repair.

<table>
<thead>
<tr>
<th>The Americas</th>
<th>Europe, Middle East, and Africa</th>
<th>Asia Pacific and India</th>
</tr>
</thead>
<tbody>
<tr>
<td>T: +1 877 ASK ZEBRA (275 9327) F: +1 847 821 1797 E: <a href="mailto:repair@zebra.com">repair@zebra.com</a> To request a repair in the U.S., go to <a href="http://www.zebra.com/repair">www.zebra.com/repair</a></td>
<td>T: +44 (0) 1772 693069 F: +44 (0) 1772 693046 New requests: <a href="mailto:ukrna@zebra.com">ukrna@zebra.com</a> Status updates: <a href="mailto:repairupdate@zebra.com">repairupdate@zebra.com</a></td>
<td>T: +65 6858 0722 F: +65 6885 0838 E: China: <a href="mailto:tschina@zebra.com">tschina@zebra.com</a> All other areas: <a href="mailto:tsasiapacific@zebra.com">tsasiapacific@zebra.com</a></td>
</tr>
</tbody>
</table>

**Technical Training Department**

For Zebra product training courses.

<table>
<thead>
<tr>
<th>The Americas</th>
<th>Europe, Middle East, and Africa</th>
<th>Asia Pacific and India</th>
</tr>
</thead>
<tbody>
<tr>
<td>T: +1 847 793 6868 T: +1 847 793 6864 F: +1 847 913 2578 E: <a href="mailto:tsamericas@zebra.com">tsamericas@zebra.com</a></td>
<td>T: +44 (0) 1628 556000 F: +44 (0) 1628 556001 E: <a href="mailto:Eutraining@zebra.com">Eutraining@zebra.com</a></td>
<td>T: +65 6858 0722 F: +65 6885 0838 E: China: <a href="mailto:tschina@zebra.com">tschina@zebra.com</a> All other areas: <a href="mailto:tsasiapacific@zebra.com">tsasiapacific@zebra.com</a></td>
</tr>
</tbody>
</table>

**Inquiry Department**

For product literature and distributor and dealer information.

<table>
<thead>
<tr>
<th>The Americas</th>
<th>Europe, Middle East, and Africa</th>
<th>Asia Pacific and India</th>
</tr>
</thead>
<tbody>
<tr>
<td>T: +1 877 ASK ZEBRA (275 9327) E: <a href="mailto:inquiry4@zebra.com">inquiry4@zebra.com</a></td>
<td>T: +44 (0) 1628 556037 F: +44 (0) 1628 556005 E: <a href="mailto:mseurope@zebra.com">mseurope@zebra.com</a></td>
<td>E: China: <a href="mailto:GCmarketing@zebra.com">GCmarketing@zebra.com</a> All other areas: <a href="mailto:APACChannelmarketing@zebra.com">APACChannelmarketing@zebra.com</a></td>
</tr>
</tbody>
</table>

**Customer Service Department (US) Internal Sales Department (UK)**

For printers, parts, media, and ribbon, please call your distributor or contact us.

<table>
<thead>
<tr>
<th>The Americas</th>
<th>Europe, Middle East, and Africa</th>
<th>Asia Pacific and India</th>
</tr>
</thead>
<tbody>
<tr>
<td>T: +1 877 ASK ZEBRA (275 9327) E: <a href="mailto:clientcare@zebra.com">clientcare@zebra.com</a></td>
<td>T: +44 (0) 1628 556032 F: +44 (0) 1628 556001 E: <a href="mailto:ccEurope@zebra.com">ccEurope@zebra.com</a></td>
<td>T: +65 6858 0722 F: +65 6885 0836 E: China: <a href="mailto:order-csr@zebra.com">order-csr@zebra.com</a> All other areas: <a href="mailto:csasiapacific@zebra.com">csasiapacific@zebra.com</a></td>
</tr>
</tbody>
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**Key:**
- T: Telephone
- F: Facsimile
- E: E-mail
Document Conventions

The following conventions are used throughout this document to convey certain information.

Alternate Color (online only) Cross-references contain hot links to other sections in this guide. If you are viewing this guide online in .pdf format, you can click the cross-reference (blue text) to jump directly to its location.

Command Line Examples Command line examples appear in Courier New font. For example, type ZTools to get to the Post-Install scripts in the bin directory.

Files and Directories File names and directories appear in Courier New font. For example, the Zebra<version number>.tar file and the /root directory.

Icons Used

Important • Advises you of information that is essential to complete a task.

Note • Indicates neutral or positive information that emphasizes or supplements important points of the main text.

Example • Provides an example, often a scenario, to better clarify a section of text.
Related Documents

The following documents might be helpful references:

- Programming Guide for ZPL II®, ZBI 2, Set-Get-Do, Mirror and WML (formerly the ZPL II Programming Guide)
- ZebraNet® PrintServer II User and Reference Guide
- ZebraNet® 10/100 Print Server User Guide
- ZebraNet® Wireless Print Server User Guide
This guide explains the known differences between the Zebra printer with APL-D firmware and the Prodigy Plus printer. For complete printer operation, use this guide with your Prodigy Plus Operator’s Manual.
Overview

The Zebra printer with APL-D firmware provides you with the capability to implement certain commands of the Datamax Programmers Manual (DPL). These are the Zebra printers that support this capability:

- Z4Mplus/Z6Mplus
- 105SL
- XiIIIPlus
- PAX4
- S4M
- ZM400/ZM600
- Xi4

Firmware

Table 1 lists the 203 dpi Zebra printers and the APL-D firmware version:

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<tr>
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If you are using a print server to communicate with your printer, see Table 3, Supported Print Servers and Firmware on page 64 for more specific firmware requirements.

Control Panel

The Zebra printer with APL-D firmware control panel menu options differs from non-APL-D printers. For APL-D firmware LCD menu options, see LCD Options on page 70.
Troubleshooting

The Zebra printer with APL-D firmware offers a feature called the Data Capture Tool (DCT). The DCT is supported on these Zebra printers: XiIIIPlus, 105SL, PAX4, or Z4Mplus/Z6Mplus. If you have a supported Zebra printer you can access this tool through the LCD menu. DCT allows you to capture any data that is sent to the printer on an ATA Flash card.

For troubleshooting purposes, you can remove the ATA Flash card from the printer when you complete the data capture, and send it to Zebra to be read.

Important • ATA Flash cards are the only supported Flash cards for all Zebra printers with APL-D firmware, except S4M, ZM400/ZM600, and Xi4 printers.
This section provides you with a detailed listing of commands on your Zebra printer with APL-D firmware as implemented on the Prodigy Plus printer.

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Immediate Commands

Reset

**Purpose**  This command resets all settings to the last saved value and clears out the printer’s buffers.

**Syntax**  `<SOH>#$`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Send ASCII Status String

**Purpose**  This command returns status information from the printer.

**Syntax**  `<SOH>A`

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- **Ribbon and Media errors:** When these type of errors occur, you are not able to request status information over the parallel port.

Toggle Pause

**Purpose**  This command pauses and unpauses the printer.

**Syntax**  `<SOH>B`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Stop/Cancel

**Purpose**  This command cancels the batch of labels that is currently printing.

**Syntax**  `<SOH>C`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.
SOH Shutdown

**Purpose**  This command causes the next immediate command to be ignored.

**Syntax**  `<SOH>D`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Send Batch Quantity

**Purpose**  This command tells the printer to return a 4-digit number that indicates the amount of labels that are remaining to print in the current batch.

**Syntax**  `<SOH>E`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Send Status Byte

**Purpose**  This command returns status information from the printer.

**Syntax**  `<SOH>F`

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- **Ribbon and Media errors:** When these type of errors occur, you are not able to request status information over the parallel port.
System Level Commands

Set Time and Date

**Purpose**  This command allows you to set the printer’s time and date.

**Syntax**  `<STX>A`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Enable Feedback Characters

**Purpose**  This command enables status bytes to be returned from the printer after certain events.

**Syntax**  `<STX>a`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Get Printer Time and Date Information

**Purpose**  This command recalls the printer’s time and date.

**Syntax**  `<STX>B`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Set Cutter Signal Time

**Purpose**  This command sets the cutter signal time values.

**Syntax**  `<STX>b`

**Not Supported**  This command does not work on the Zebra with APL-D, or it has significant deviations from the Prodigy Plus printer.
Copy Module

**Purpose**  This command copies the data on Module B to Module A.

**Syntax**  `<STX>C`

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:
- For this command to work, the memory type for Module A must be non-volatile.
- When the copy is complete, the front panel LCD reads **COPY COMPLETE**.

Set Continuous Paper Length

**Purpose**  This command causes the printer to operate in continuous mode with the specified label length.

**Syntax**  `<STX>c`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Memory Dump (Test Mode Only)

**Purpose**  This command returns memory information for testing purposes.

**Syntax**  `<STX>D`

**Not Supported**  This command does not work on the Zebra with APL-D, or it has significant deviations from the Prodigy Plus printer.

Set Quantity For Stored Label

**Purpose**  This command determines the print quantity for the last stored label.

**Syntax**  `<STX>E`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.
Select Edge Sensor

**Purpose**  This command tells the printer to sense a gap between labels.

**Syntax**  <STX>e

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Form Feed

**Purpose**  This command tells the printer to feed one label.

**Syntax**  <STX>F

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Set Form Stop Position (Backfeed Command)

**Purpose**  This command sets the tear off adjust position.

**Syntax**  <STX>f

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Print Last Label Format

**Purpose**  This command prints the last stored label format.

**Syntax**  <STX>G

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Set Cutter Signal Time

**Purpose**  This command sets the cutter signal time values.

**Syntax**  <STX>H

**Not Supported**  This command does not work on the Zebra with APL-D, or it has significant deviations from the Prodigy Plus printer.
Input Image Data

**Purpose** This command downloads image data to the printer from the host.

**Syntax** `<STX>I`

**Supported** Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Offset Distance, Top-of-Form

**Purpose** This command adjusts the label top position.

**Syntax** `<STX>K`

**Supported** Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Test RS-232 Port

**Purpose** This command causes the printer to transmit a Y from whatever port the command was received.

**Syntax** `<STX>k`

**Supported** Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Enter Label-Formatting Command

**Purpose** This command changes the printer to the label-formatting command input mode.

**Syntax** `<STX>L`

**Supported** Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Set Maximum Label Length

**Purpose** This command tells the printer the maximum distance to find the label’s edge before determining a paper fault event.

**Syntax** `<STX>M`

**Supported** Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.
Set Printer To Metric

**Purpose**  This command tells the printer to measure metrically.

**Syntax**  `<STX>m`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Set Printer To Inches

**Purpose**  This command tells the printer to receive measurements in inches.

**Syntax**  `<STX>n`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Set Start Of Print Position

**Purpose**  This command determines the print start point.

**Syntax**  `<STX>O`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Cycle Cutter

**Purpose**  This command instantly causes the cutter to cut.

**Syntax**  `<STX>o`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Character (HEX) Dump Mode

**Purpose**  This command tells the printer to start the ASCII Dump mode.

**Syntax**  `<STX>P`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.
Controlled Pause

**Purpose**  This command makes the printer pause.

**Syntax**  `<STX>p`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Clears All Modules

**Purpose**  This command tells the printer to clear all Flash, RAM, and Internal Modules.

**Syntax**  `<STX>Q`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Clear Module

**Purpose**  This command erases the selected memory module.

**Syntax**  `<STX>q`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Ribbon Saver On/Off

**Purpose**  This command turns the ribbon saver on and off.

**Syntax**  `<STX>R`

**Not Supported**  This command does not work on the Zebra with APL-D, or it has significant deviations from the Prodigy Plus printer.

Select Reflective Sensor

**Purpose**  This command tells the printer to sense a black mark between labels.

**Syntax**  `<STX>r`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.
Set Feed Rate

**Purpose**  This command sets the feed rate.

**Syntax**  `<STX>S`

**Partially Supported**  Based on testing, this is a partially supported command with the following differences and outputs:

- The Zebra printer with APL-D firmware is only able to feed at non-fractional speeds.

Set Printer To Single Buffer Mode

**Purpose**  This command tells the printer to use single buffer mode.

**Syntax**  `<STX>s`

**Not Supported**  This command does not work on the Zebra with APL-D, or it has significant deviations from the Prodigy Plus printer.

Printhead Dot Pattern Test Label

**Purpose**  This command tells the printer to print a test label with dot patterns.

**Syntax**  `<STX>T`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Test RAM Memory Module

**Purpose**  This command tests all RAM modules.

**Syntax**  `<STX>t`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Label Format Field Replacement

**Purpose**  This command puts new data into format fields.

**Syntax**  `<STX>U`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.
Software Switch Settings

**Purpose**  This command allows multiple option settings to be modified without using the front panel menu.

**Syntax**  `<STX>V`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Printer's Firmware Version Information

**Purpose**  This command makes the printer return a version string.

**Syntax**  `<STX>v`

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- **APL-D:** The printer’s firmware information that is transmitted over the communication port that the command was sent on is as follows: VER: D60.13.0.0.
- **DPL:** The printer’s firmware information that is transmitted over the communication port that the command was sent on is as follows: VER: BA - 03.25 06/18/99.

Request Memory Module information

**Purpose**  This command transmits a listing of all fonts, graphics, or formats on the printer’s memory modules.

**Syntax**  `<STX>W`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Test Flash Memory Module

**Purpose**  This command tests all non-volatile memory modules.

**Syntax**  `<STX>w`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.
Set Default Module

**Purpose**  This command sets the default memory module to download data to.

**Syntax**  `<STX>X`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Output Sensor Values

**Purpose**  This command, in test mode, returns the sensor values.

**Syntax**  `<STX>Y`

**Not Supported**  This command does not work on the Zebra with APL-D, or it has significant deviations from the Prodigy Plus printer.
Print Internal Information and Dot Pattern

**Purpose**  This command prints a configuration label and test label with dot patterns.

**Syntax**  `<STX>Z`

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the fields that have been removed from the APL-D configuration label:

  ![APL-D Label Example](image1)
  ![DPL Label Example](image2)
Label-Formatting Commands

Set Cut By Amount

**Purpose**  This command sets the quantity of labels to be printed between cuts (0001 to 9999).

**Syntax**  :

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Set Column Offset Amount

**Purpose**  This command allows you to horizontally adjust where printing starts.

**Syntax**  C

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Set Cut By Amount

**Purpose**  This command sets the quantity of labels to be printed between cuts (01 to 99).

**Syntax**  c

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Set Width and Height Dot Size

**Purpose**  This command changes the minimum resolution of the printer.

**Syntax**  D

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.
Terminate Label Formatting Mode and Print Label

**Purpose**  This command forces a label to print immediately.

**Syntax**  E

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Place Data In Global Register

**Purpose**  This command stores the data from the last specified field so it can be recalled from another field.

**Syntax**  G

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Enter Heat Setting

**Purpose**  This command adjusts the darkness relative to the front panel setting.

**Syntax**  H

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Set Metric Mode

**Purpose**  This command tells the printer to measure metrically.

**Syntax**  m

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Set Print Speed

**Purpose**  This command sets the rate the label advances while printing.

**Syntax**  P

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:
  - The Zebra printer with APL-D firmware is only able to print at non-fractional speeds.
Set Label Backup Speed

**Purpose**  This command sets the rate the label backfeeds.

**Syntax**  \p

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:
- The Zebra printer with APL-D firmware is only able to back feed at non-fractional speeds.

Set Quantity Of Labels To Print

**Purpose**  This command sets the quantity of labels that will print.

**Syntax**  \Q

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Set Row Offset Amount

**Purpose**  This command allows you to vertically adjust where printing starts.

**Syntax**  \R

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Recall Stored Label Format

**Purpose**  This command retrieves a label format that is stored on a memory module.

**Syntax**  \r

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.
Set Slew Rate

**Purpose**  This command sets the rate to feed blank labels.

**Syntax**  S

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- The Zebra printer with APL-D firmware is only able to feed at non-fractional speeds.

Store Label Format In Module

**Purpose**  This command stores a label format on a specific modules.

**Syntax**  S

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- The size of the stored format may differ between the Zebra printer with APL-D firmware and the Prodigy Plus printer.

Set Field Data Line Terminator

**Purpose**  This command changes the line terminator for the next format record.

**Syntax**  T

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Make Previous Field A String Replace Field

**Purpose**  This command designates the previous field as a replacement field.

**Syntax**  U

**Not Supported**  This command does not work on the Zebra with APL-D, or it has significant deviations from the Prodigy Plus printer.
Terminate Label-Formatting Mode

**Purpose**  This command changes to the system-command mode without printing a label.

**Syntax**  X

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Zero (Ø) Conversion to "0"

**Purpose**  This command, in fonts 0-8 and bar codes, eliminates slashes from zeros.

**Syntax**  z

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.
Make Last Field Entered Increment Numeric (Alphanumeric)

**Purpose**  This command prints labels in a numeric sequence.

**Syntax**  \( = (> \) \)

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference in how the Zebra printer with APL-D firmware and the Prodigy Plus printer increments when wrapping around 0:

```
**APL-D**

\[99\]
- \(99\)
- \(00\)
- \(01\)
- \(02\)

**DPL**

\[99\]
- \(99\)
- \(01\)
- \(02\)
```
Make Last Field Entered Decrement Numeric (Alphanumeric)

**Purpose**  This command prints labels that are numerically in reverse sequence.

**Syntax**  \( = (<) \)

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference in how the Zebra printer with APL-D firmware and the Prodigy Plus printer decrements when wrapping from A to 0:

![APL-D Example Image](image1)

![DPL Example Image](image2)

Set Count By Amount

**Purpose**  This command, while printing sequentially, prints multiple labels with the same data.

**Syntax**  \(^\)

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.
Recall Global Data And Place In Field

**Purpose**  This command indicates that the current field should use data previously stored by a G command.

**Syntax**  `<STX> S`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Print Time and Date

**Purpose**  This command prints the time and date using the real time clock.

**Syntax**  `<STX> T`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.
Code 3 of 9

**Purpose**  This command prints a Code 3 of 9 bar code.

**Syntax**  A

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:

![Label Examples](image-url)
UPC-A

Purpose  This command prints a UPC-A bar code.

Syntax  B

Partially Supported  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- The Prodigy Plus printer can include an extra check sum in the sixth or seventh position of the UPC-A bar code, but the Zebra printer with APL-D firmware, only allows for a check sum in the seventh position.
- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:
UPC-E

**Purpose**  This command prints a UPC-E bar code.

**Syntax**  `C`

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:
Interleaved 2 of 5 (I 2 of 5)

**Purpose**  This command prints an Interleaved 2 of 5 bar code.

**Syntax**  `D`

**Partially Supported**  Based on testing, this is a partially supported command with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:

![Label Examples](image)
Code 128

**Purpose**  This command prints a Code 128 bar code.

**Syntax**  E

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:

  ![APL-D](image1)

  ![DPL](image2)
EAN 13

**Purpose**  This command prints an EAN 13 bar code.

**Syntax**  \( F \)

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- The Zebra printer with APL-D firmware can include an extra check sum in the seventh or eight position of the EAN-13 barcode, but the Zebra printer with APL-D only allows for a checksum in the eight position.

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:
EAN 8

**Purpose**  This command prints an EAN 8 bar code.

**Syntax**  

G

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:
Health Industry Bar Code (HIBC) (Code 39 bar code with a Modulo 43 Checksum)

**Purpose**  This command prints an HIBC bar code.

**Syntax**  H

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:
Codabar

Purpose  This command prints a Codabar bar code.

Syntax  

Partially Supported  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:
Interleaved 2 of 5 with a Modulo 10 Checksum

**Purpose**  This command prints an Interleaved 2 of 5 bar code.

**Syntax**  \( J \)

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:
Plessey

Purpose  This command prints a Plessey bar code.

Syntax  K

Partially Supported  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:

![APL-D and DPL labels comparison](image-url)
Interleaved 2 of 5 with a Modulo 10 Checksum and Shipping bars

**Purpose**  This command prints an Interleaved 2 of 5 with a Modulo 10 checksum and shipping bars bar code.

**Syntax**  L

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:

![APL-D Example](image1.png)

![DPL Example](image2.png)
2-Digit UPC Addendum

**Purpose**  This command prints a 2-digit UPC addendum bar code.

**Syntax**  M

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:
5-Digit UPC Addendum

**Purpose**  This command prints a 5-digit UPC addendum bar code.

**Syntax**  \( N \)

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:
Code 93

**Purpose**  This command prints a Code 93 bar code.

**Syntax**  ○

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:
Postnet

**Purpose**  This command prints a Postnet bar code.

**Syntax**  \( p \)

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:

![APL-D vs DPL Examples](image-url)
**UCC/EAN Code 128**

**Purpose**  This command prints a UCC/EAN Code 128 bar code.

**Syntax**  Q

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:
UCC/EAN Code128 K-MART NON EDI bar code

**Purpose**  This command prints a UCC/EAN Code128 K-MART NON EDI bar code.

**Syntax**  R

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the difference between the Zebra printer with APL-D firmware and the Prodigy Plus when the bar codes print off the edge of the label:
PDF-417

**Purpose**  This command prints a PDF-417 bar code.

**Syntax**  \texttt{z}

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- These label examples show the differences in auto sizing between the APL-D printer and the Prodigy Plus printer.
Font-Loading Commands

Assign Font ID Number

**Purpose**  This command assigns an ID number to the font that will be downloaded next.

**Syntax**  `<ESC>*c###D`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Font Descriptor

**Purpose**  This command downloads general information for the current font.

**Syntax**  `<ESC)>s#W`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Character Code

**Purpose**  This command specifies which character data will be downloaded next.

**Syntax**  `<ESC>*c#E`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Character Download Data

**Purpose**  This command downloads all information for the previously specified character.

**Syntax**  `<ESC>(s###Wnn...n`

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.
Generating Label Formats

Internal Bit-mapped Font

**Purpose**  This command prints a text field using one of the internal bitmapped fonts.

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Smooth Font, Modules, Downloaded Bit-mapped Fonts

**Purpose**  This command prints a text field using the internal smooth font or one of the downloaded fonts.

**Partially Supported**  Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- Currently, the Zebra APL-D printer does not support font modules.

Bar Code

**Purpose**  This command prints a bar code field.

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Images

**Purpose**  This command prints an image field using one of the downloaded images.

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.

Graphics

**Purpose**  This command prints a line or box field.

**Supported**  Based on testing, this command works the same on the Zebra printer with APL-D firmware as on the Prodigy Plus printer.
Control Codes

Control Codes are required for the printer to receive a command sequence. The code also specifies what type of command is being sent. Alternate control codes are available, which can be substituted for the standard control characters.

Table 2 shows the alternate control codes available.

<table>
<thead>
<tr>
<th>Control Character</th>
<th>Standard</th>
<th>Main Frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOH</td>
<td>0x01</td>
<td>0x5E</td>
</tr>
<tr>
<td>STX</td>
<td>0x02</td>
<td>0x7E</td>
</tr>
<tr>
<td>CR</td>
<td>0x0D</td>
<td>0x0D</td>
</tr>
<tr>
<td>ESC</td>
<td>0x1B</td>
<td>0x1B</td>
</tr>
<tr>
<td>*“Count By”</td>
<td>0x5E</td>
<td>0x40</td>
</tr>
</tbody>
</table>

*Note: See Label-Formatting commands, ^set count by amount.
Set-Get-Do (SGD) Commands

Print server configurations are achieved using standard Set-Get-Do commands.

For more detailed information on Set-Get-Do commands, see the Programming Guide for ZPL II®, ZBI 2, Set-Get-Do, Mirror and WML (formerly the ZPL II Programming Guide), Internal Wired and Wireless SGD sections.
Network Configuration

This section describes the features and functionality of the ZebraNet Print Servers with printers using APL-D firmware.

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Overview

The Zebra printer with APL-D firmware with a Zebra print server option allows network connectivity for printer communication.

Supported Print Servers

Table 3 shows the version of APL-D firmware required to support each of the ZebraNet Print Servers.

<table>
<thead>
<tr>
<th>Print Server</th>
<th>Printer</th>
<th>Firmware</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/100 PS External Print Server</td>
<td>XiIIIPlus, 105SL, Z4Mplus/Z6Mplus, or PAX4</td>
<td>D60.13.0.0 or later</td>
</tr>
<tr>
<td>(Internal or External)</td>
<td>S4M</td>
<td>D50.13.3 or later</td>
</tr>
<tr>
<td></td>
<td></td>
<td>D53.15.0 or later</td>
</tr>
<tr>
<td></td>
<td>ZM400/ZM600</td>
<td>D53.15.0 or later</td>
</tr>
<tr>
<td></td>
<td>Xi4</td>
<td>D53.17.2 or later</td>
</tr>
<tr>
<td>Wireless Print Server</td>
<td>XiIIIPlus, 105SL, Z4Mplus/Z6Mplus or PAX4</td>
<td>D60.15.0 or later</td>
</tr>
<tr>
<td>Wireless Plus Print Server</td>
<td>XiIIIPlus, 105SL, or PAX4</td>
<td>D60.15.0 or later</td>
</tr>
<tr>
<td></td>
<td>ZM400/ZM600, or S4M</td>
<td>D53.15.0 or later</td>
</tr>
<tr>
<td></td>
<td>Xi4</td>
<td>D53.17.2 or later</td>
</tr>
<tr>
<td>Internal Wireless Plus Print</td>
<td>XiIIIPlus, 105SL, or PAX4</td>
<td>D60.17.2 or later</td>
</tr>
<tr>
<td>Server</td>
<td>ZM400/ZM600, S4M, or Xi4</td>
<td>D53.17.2 or later</td>
</tr>
</tbody>
</table>
10/100 Internal/External Wired Print Server

Configuration

You can configure the 10/100 Print Server for use with your printer running APL-D firmware using WebView, ZebraNet View, DHCP, or Telnet.

Important • For more detailed information on 10/100 print servers, see the ZebraNet® 10/100 Print Server User Guide.

Supported Protocols

All network features described in the 10/100 Print Server User Guide are supported with APL-D firmware except:

• APL-D is not a ZebraLink enabled firmware.
• You are not able to print a network configuration label using the button on the print server. But, you can still default the print server using this button.
• The 10/100 Print Server alerts can be configured using ZebraNet View, but not ZebraLink Alerts.
• When viewing the web page, you will only see the print server web pages, not the printer web pages.

Defaulting the 10/100 PS

You can default the 10/100 PS to factory settings using WebView, ZebraNet View, and the Test button.

Important • For more detailed information on 10/100 Internal/External Wired print servers, see the ZebraNet® 10/100 Print Server User Guide.
Internal 10/100 Print Server for Xi4 and ZM400/ZM600

Configuration

You can configure the 10/100 Internal Print Server for use with your printer running APL-D firmware using DHCP, SGD, or Telnet.

**Important** • For more detailed information on internal 10/100 print servers, see the ZebraNet® 10/100 Internal Print Server User Guide.

Supported Protocols

All network features described in the 10/100 Internal Print Server User Guide are supported with APL-D firmware except:

- APL-D is not a ZebraLink enabled firmware.
- The ZebraLink Alerts are not supported.
- FTP, POP3, SMTP, and SNMP are not supported.
- Mirroring is not supported.
- No web pages are supported.

Defaulting the 10/100 Print Server PS

You can default the 10/100 Internal Print Server User Guide to factory settings using the default network menu on the printer’s control panel. For more information, see the 10/100 Internal Print Server User Guide.
Wireless, Wireless Plus, and Internal Wireless Plus Print Servers

This section provides details on working with a wireless print server.

Configuration

You can configure the Wireless Print Server for use with your printer running APL-D firmware using DHCP, SGD, or Telnet.

Important • For more detailed information on wireless print servers, see the ZebraNet® Wireless User Guide.

Supported Protocols

All network features described in the Wireless User Guide are supported with APL-D firmware except:

• APL-D is not a ZebraLink enabled firmware.
• The ZebraLink Alerts are not supported.
• FTP, POP3, SMTP, and SNMP are not supported.
• Mirroring is not supported.
• No web pages are supported.

Defaulting the Wireless Print Servers

You can default the Wireless Print Servers to factory settings using the default network menu on the printer’s control panel. For more information, see the specific wireless user guide.
Control Panel Options

This appendix provides you with control panel menu options on the Zebra printers with APL-D firmware.

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Supported Menu ....................................................... 71
S4M LCD Options .................................................... 79
S4M Control Panel Navigation ................................. 79
S4M Password Protected Menus ................................ 79
Supported Menu ....................................................... 80
LCD Options

Some of the LCD options are password protected. This section tells you how to work through password protected menu options and provides a table of all the LCD options for the supported APL-D printers.

Note • For S4M LCD menu options, see S4M LCD Options on page 79.

Protected Menus

This section tells you how to access these protected parameters.

To access the password protected menu options, complete these steps:

The password is: 1234.

1. If the LCD reads ENTER PASSWORD you need to enter a password to access given LCD menu options.

2. To increase the value, from the front panel:
   - on a XiIIIPlus or 105SL printer, press the right arrow.
   - on a PAX4, press the up arrow.
   - on the Z4Mplus/Z6Mplus, ZM400/ZM600, or Xi4 printers, press plus (+).

3. To move to the next digit, from the front panel:
   - on a XiIIIPlus or 105SL printer, press the left arrow.
   - on a PAX4, press the down arrow.
   - on the Z4Mplus/Z6Mplus, ZM400/ZM600, or Xi4 printers, press minus (–).

4. When the password is entered.
   - on a XiIIIPlus, 105SL, or Xi4 printer, press NEXT/SAVE.
   - on a PAX4, press NEXT.
   - on the Z4Mplus/Z6Mplus or ZM400/ZM600 printers, press SELECT.
### Supported Menu

Table 4 identifies the LCD menu options available on your Zebra XiIIIPlus, Z4Mplus/Z6Mplus, 105SL, ZM400/ZM600, and PAX4 printer with APL-D firmware.

For S4M LCD Options, see *S4M LCD Options* on page 79.

#### Table 4 • LCD Differences on Supported Printers

<table>
<thead>
<tr>
<th>XI3Plus</th>
<th>Z4Mplus/Z6Mplus</th>
<th>105SL</th>
<th>ZM400/ZM600</th>
<th>PAX4</th>
<th>XI4</th>
<th>LCD Option</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>DARKNESS</td>
<td>This allows you to adjust the darkness of your output.</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>PRI NT SPEED</td>
<td>This allows you to change the print speed inches per second (ips).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Important • Typically, the slower the print speed, the better the print quality.</td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td></td>
<td>√</td>
<td></td>
<td></td>
<td></td>
<td>SLEW SPEED</td>
<td>This allows you to adjust the speed for feeding a blank label (given in inches per second).</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>BACKFEED SPEED</td>
<td>If backfeed is on, this allows you to adjust the speed at which the label backs up before printing (given in inches per second).</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>TEAR OFF</td>
<td>This allows you to set the position of the labels over the tear-off/peel-off bar.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>APPLICATOR PORT</td>
<td>This allows you to determine the action of the verifier port.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>Password protected.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>START PRI NT SI G</td>
<td>This allows you to determine how the printer reacts to the Start Print Signal input on pin 3 of the applicator interface.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Password protected.</td>
<td></td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>PRI NT MODE</td>
<td>This allows you to set the type of label delivery.</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>COMPAT. MODE</td>
<td>This allows you to put the printer in compatibility mode. In compatibility mode, you can change the default label top from 1.1 inches to 2.5 inches.</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>CONTROL CODES</td>
<td>This allows you to select which set of language control codes will be sent to the printer. (For more specific information, see <em>Table 2, Alternate Control Codes</em> on page 61.)</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>MODULE A</td>
<td>This allows you to assign an actual 512 KB memory device to a module letter.</td>
</tr>
</tbody>
</table>
### Table 4 • LCD Differences on Supported Printers

<table>
<thead>
<tr>
<th></th>
<th>X4i/Plus</th>
<th>Z4MP/Plus/Z6MP/Plus</th>
<th>105SL</th>
<th>ZM400/ZM600</th>
<th>PAX4</th>
<th>X4</th>
<th>LCD Option</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODULE B</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>MODULE B</td>
<td>This allows you to assign an actual 512 KB memory device to a module letter.</td>
</tr>
<tr>
<td>MEDIA TYPE</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>MEDIA TYPE</td>
<td>This allows you to set the type of media you are using.</td>
</tr>
<tr>
<td>SENSOR TYPE</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>SENSOR TYPE</td>
<td>This allows you to set the type of media you are using with a web. This indicates the spacing between labels, or if you are using media with black mark print on the back.</td>
</tr>
<tr>
<td>SENSOR SELECT</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>SENSOR SELECT</td>
<td>This allows you to choose the sensor that you want to use.</td>
</tr>
<tr>
<td>PRINT METHOD</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>PRINT METHOD</td>
<td>This allows you to set the method of printing.</td>
</tr>
<tr>
<td>PRINT WIDTH</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>PRINT WIDTH</td>
<td>This allows you to set the printable area across the label width.</td>
</tr>
<tr>
<td>MAXIMUM LENGTH</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>MAXIMUM LENGTH</td>
<td>This allows you to set the maximum length of the label.</td>
</tr>
<tr>
<td>EARLY WARNING MEDIA SUPPLIES WARNING</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td>✓</td>
<td>EARLY WARNING MEDIA SUPPLIES WARNING</td>
<td>This allows you to enable or disable warnings to appear if label or ribbon is low. <strong>Password protected.</strong></td>
</tr>
<tr>
<td>LABELS PER ROLL</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>LABELS PER ROLL</td>
<td>This parameter appears only when Early Warning for Media is enabled. This value should correspond to the number of labels per roll of the media that you are using.</td>
</tr>
<tr>
<td>MEDIA REPLACED?</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>MEDIA REPLACED?</td>
<td>This parameter appears only when Early Warning for Media is enabled.</td>
</tr>
<tr>
<td>RIBBON LENGTH</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>RIBBON LENGTH</td>
<td>This parameter appears only when Early Warning for Media is enabled and the printer is set for Thermal Transfer operation.</td>
</tr>
<tr>
<td>RIBBON REPLACED?</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>RIBBON REPLACED?</td>
<td>This parameter appears only when Early Warning for Media is enabled and the printer is set for Thermal Transfer operation.</td>
</tr>
<tr>
<td>EARLY WARNING MAINT.</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>EARLY WARNING MAINT.</td>
<td>This allows you to enable or disable warnings to appear if the printhead needs to be cleaned. <strong>Password protected.</strong></td>
</tr>
<tr>
<td>HEAD CLEANING</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td>✓</td>
<td>HEAD CLEANING</td>
<td>This allows you to enable or disable a warning to appear when the printhead needs to be cleaned. This value is set to correspond to the length of the media or ribbon roll that you are using.</td>
</tr>
</tbody>
</table>
### Table 4 • LCD Differences on Supported Printers

<table>
<thead>
<tr>
<th></th>
<th>XIPlus</th>
<th>Z4Mplus/Z6Mplus</th>
<th>105SL</th>
<th>ZM400/ZM600</th>
<th>PAX4</th>
<th>XI4</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD Option</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEAD CLEANED?</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEAD LIFE</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NEW PRINTERHEAD</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NONRESET CNTR</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RESET CNTR1</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RESET CNTR2</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PRI NT METERS</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIST FONTS</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIST IMAGES</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIST FORMATS</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIST SETUP</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIST NETWORK</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FORMAT CARD</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INIT FLASH MEM</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SENSOR PROFILE</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MEDIA AND RIB.</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Details**

- **HEAD CLEANED?**: This allows you to reset the printhead cleaning counter.
- **HEAD LIFE**: This allows you to set the number of inches of media that the printhead is expected to print.
- **NEW PRINTERHEAD**: This allows you to reset the printhead life counter.
- **NONRESET CNTR**: This allows you to reset the advanced counter used by the printer to monitor the label generation in inches, centimeters, and number of labels.
- **RESET CNTR1**: This allows you to reset the advanced counter used by the printer to monitor the label generation in inches, centimeters, and number of labels.
- **RESET CNTR2**: This allows you to reset the advanced counter used by the printer to monitor the label generation in inches, centimeters, and number of labels.
- **PRI NT METERS**: This allows you to view the current date and change the date. **Password Protected**.
- **LIST FONTS**: This allows you to print a label that lists all available fonts.
- **LIST IMAGES**: This allows you to print a label that lists all images that are stored in the printer’s RAM, Flash memory, optional EROM, or optional memory card.
- **LIST FORMATS**: This allows you to print a label that lists all formats that are stored in the printer’s RAM, Flash memory, optional ERPROM, or optional memory card.
- **LIST SETUP**: This allows you to print a configuration label.
- **LIST NETWORK**: This allows you to print a network configuration label.
- **FORMAT CARD**: This allows you to erase all information from the memory card. **Password protected**.
- **INIT FLASH MEM**: This allows you to reformat your Flash memory. **Password protected**.
- **SENSOR PROFILE**: This prints out a sensor profile label.
- **MEDIA AND RIB.**: This allows you to adjust the sensitivity of the media and ribbon sensors.
## Control Panel Options

### LCD Options

<table>
<thead>
<tr>
<th>LCD Option</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARALLEL COMM</td>
<td>This allows you to select a communications port. It must match the one being used by the host.</td>
</tr>
<tr>
<td>BAUD</td>
<td>This allows you to select a baud rate. It must match the rate being used by the host. Password protected.</td>
</tr>
<tr>
<td>DATA BITS</td>
<td>This allows you to select the data bits. It must match the data bits being used by the host. Password protected.</td>
</tr>
<tr>
<td>PARITY</td>
<td>This allows you to select the parity. It must match the parity on the host. Password protected.</td>
</tr>
<tr>
<td>HOST HANDSHAKE</td>
<td>This allows you to select the handshake protocol. It must match the protocol on the host. Password protected.</td>
</tr>
<tr>
<td>COMMUNICATIONS</td>
<td>This allows you to troubleshoot and check the interconnection between the printer and the host computer. Password protected.</td>
</tr>
<tr>
<td>RIBBON TENSION</td>
<td>This sets the tension applied to the ribbon supply spindle (170PAX4 only).</td>
</tr>
<tr>
<td>MEDIA POWER UP</td>
<td>This allows you to set the action of the labels when the printer is turned on. Password protected.</td>
</tr>
<tr>
<td>HEAD CLOSE</td>
<td>This allows you to set the action of the labels when the printhead is closed. Password protected.</td>
</tr>
<tr>
<td>BACKFEED</td>
<td>This allows you to determine when and how much label feedback occurs after a label is removed. Password protected.</td>
</tr>
<tr>
<td>LABEL TOP</td>
<td>This allows you to adjust the print position on the label vertically. Password protected.</td>
</tr>
<tr>
<td>LEFT POSITION</td>
<td>This determines how far from the left edge of a label the format begins to print.</td>
</tr>
<tr>
<td>HEAD TEST COUNT</td>
<td>The printer periodically performs a test of the printhead functionality. This establishes how many labels are printed between these internal tests.</td>
</tr>
</tbody>
</table>
### Table 4 • LCD Differences on Supported Printers

<table>
<thead>
<tr>
<th></th>
<th>XIll Plus</th>
<th>Z4Mplus/Z6Mplus</th>
<th>105SL</th>
<th>ZM400/ZM600</th>
<th>PAX4</th>
<th>XI4</th>
<th>LCD Option</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HEAD RESISTOR</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This value is preset at the factory to match the resistance value of the printhead. It does not need to be changed unless the printhead or the main logic board is replaced. <strong>Important</strong> • If this needs to be changed, the change should be done by a qualified service technician.</td>
</tr>
<tr>
<td><strong>VERIFIER PORT</strong></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This allows you to determine how the printer reacts to the online verifier. <strong>Password protected.</strong></td>
</tr>
<tr>
<td><strong>ERROR ON PAUSE</strong></td>
<td>✓</td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td>When this option is enabled and the print engine is paused, the print engine sets the applicator error state.</td>
</tr>
<tr>
<td><strong>RESYNCH MODE</strong></td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td></td>
<td>✓</td>
<td></td>
<td>This allows you to determine how the printer reacts if the label synchronization is lost and the label top is not where is should be. <strong>Password protected.</strong></td>
</tr>
<tr>
<td><strong>RIBBON LOW MODE</strong></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>When the amount of ribbon on the supply spindle reaches the specified length, the output signal asserts HIGH to provide a RIBBON LOW warning.</td>
</tr>
<tr>
<td><strong>RIBBON LOW OUTPUT</strong></td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>This is dependent on the setting of <strong>RIBBON LOW MODE</strong>. If <strong>RIBBON LOW MODE</strong> is enabled, this is asserted HIGH and the amount of ribbon remaining on the supply spool is below a specific threshold level. <strong>If</strong> <strong>RIBBON LOW MODE</strong> is disabled, this output lead is disabled.</td>
</tr>
<tr>
<td><strong>WEB S.</strong></td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td>This is automatically set during calibration. <strong>Password protected.</strong> <strong>Important</strong> • If this needs to be changed, the change should be done by a qualified service technician.</td>
</tr>
<tr>
<td><strong>MEDIA S.</strong></td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td>This is automatically set during calibration. <strong>Password protected.</strong> <strong>Important</strong> • If this needs to be changed, the change should be done by a qualified service technician.</td>
</tr>
</tbody>
</table>
### Table 4 • LCD Differences on Supported Printers

<table>
<thead>
<tr>
<th>Xillilm Plus</th>
<th>Z4Mplus/Z6Mplus</th>
<th>105SL</th>
<th>ZM400/ZM600</th>
<th>PAX4</th>
<th>XI4</th>
<th>LCD Option</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td><strong>RI BBON S.</strong></td>
<td>This is automatically set during calibration. Password protected.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Important</strong> • If this needs to be changed, the change should be done by a qualified service technician.</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td><strong>TAKE LABEL</strong></td>
<td>This is automatically set during calibration. Password protected.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Important</strong> • If this needs to be changed, the change should be done by a qualified service technician.</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td><strong>MARK S.</strong></td>
<td>This is automatically set during calibration. Password protected.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Important</strong> • If this needs to be changed, the change should be done by a qualified service technician.</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td><strong>TRANS GAIN</strong></td>
<td>This is automatically set during calibration. <strong>Important</strong> • If this needs to be changed, the change should be done by a qualified service technician.</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td><strong>TRANS BASE</strong></td>
<td>This is automatically set during calibration. <strong>Important</strong> • If this needs to be changed, the change should be done by a qualified service technician.</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td><strong>TRANS BRIGHT</strong></td>
<td>This is automatically set during calibration. <strong>Important</strong> • If this needs to be changed, the change should be done by a qualified service technician.</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td><strong>MARK MED S.</strong></td>
<td>This is automatically set during calibration. Password protected.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Important</strong> • If this needs to be changed, the change should be done by a qualified service technician.</td>
</tr>
<tr>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td><strong>MEDIA LED</strong></td>
<td>This is automatically set during calibration. Password protected.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Important</strong> • If this needs to be changed, the change should be done by a qualified service technician.</td>
</tr>
</tbody>
</table>
Table 4 • LCD Differences on Supported Printers

<table>
<thead>
<tr>
<th>X//II/Plus</th>
<th>Z4Mplus/Z6Mplus</th>
<th>105SL</th>
<th>ZM400/ZM600</th>
<th>PAX4</th>
<th>X4</th>
<th>LCD Option</th>
<th>Details</th>
</tr>
</thead>
</table>
| ✓          | ✓               | ✓     | ✓            | ✓    | ✓  | RB BCN GAI N / LED | This is automatically set during calibration. **Password protected.**
|            |                 |       |              |      |    | Important • If this needs to be changed, the change should be done by a qualified service technician. |
| ✓          | ✓               |       | ✓            | ✓    | ✓  | MARK GAI N | This is automatically set during calibration. **Important • If this needs to be changed, the change should be done by a qualified service technician.** |
| ✓          | ✓               | ✓     |              | ✓    |    | MARK LED  | This is automatically set during calibration. **Password protected.**
|            |                 |       |              |      |    | Important • If this needs to be changed, the change should be done by a qualified service technician. |
| ✓          | ✓               | ✓     | ✓            | ✓    | ✓  | LCD ADJ UST | This allows you to adjust the contrast of your LCD. |
| ✓          | ✓               |       |              | ✓    | ✓  | RTS TAK EUP ARM | This is used as a diagnostic tool to monitor the voltage supplied to the Ribbon Tensioning System Takeup Dancer Arm. |
| ✓          | ✓               |       |              | ✓    | ✓  | RTS SUPPLY ARM | This is used as a diagnostic tool to monitor the voltage supplied to the Ribbon Tensioning System Supply Dancer Arm. |
| ✓          | ✓               |       | ✓            | ✓    | ✓  | IDLE DI SPLAY | This allows you to select the LCD options for the real-time clock. |
| ✓          | ✓               | ✓     |              | ✓    | ✓  | RTC DATE  | This allows you to view the current date and change the date. **Password Protected.** |
| ✓          | ✓               | ✓     |              | ✓    | ✓  | RTC TI ME | This allows you to view the current time and change the time. **Password protected.** |
| ✓          | ✓               | ✓     |              | ✓    | ✓  | WI RED PS CHECK? | This tells if the printer searches for a wired print server at bootup. |
| ✓          | ✓               | ✓     |              | ✓    | ✓  | PR I MARY NETWORK | This allows you to see if the printer is using a IP setting from the wireless or a wired print server at bootup. |
| ✓          | ✓               | ✓     |              | ✓    | ✓  | LO AD LAN FROM? | This determines if the printer uses IP settings from the printer or the print server at bootup. |
| ✓          | ✓               | ✓     |              | ✓    | ✓  | ACT I VE PRI NTSRV R | This allows you to see which print server is being used. |
### LCD Options Details

<table>
<thead>
<tr>
<th>LCD Option</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP PROTOCOL</td>
<td>The allows you to see if the user (permanent) or the server (dynamic) selects the IP address.</td>
</tr>
<tr>
<td>IP ADDRESS</td>
<td>This allows you to modify this setting, only when Permanent is select for OBTAIN IP ADDRESS.</td>
</tr>
<tr>
<td>SUBNET MASK</td>
<td>This allows you to view the subnet mask.</td>
</tr>
<tr>
<td>DEFAULT GATEWAY</td>
<td>This allows you to view the default gateway.</td>
</tr>
<tr>
<td>MAC ADDRESS</td>
<td>This allows you to view the MAC address for the current wireless radio card.</td>
</tr>
<tr>
<td>ESSID</td>
<td>This allows you to view the ESSID for the current wireless configuration.</td>
</tr>
<tr>
<td>WLAN SECURITY</td>
<td>This allows you to view the current security type.</td>
</tr>
<tr>
<td>RESET NETWORK</td>
<td>This allows you to reinitialize the wireless radio card and the print server (wired or wireless).</td>
</tr>
<tr>
<td>PASSWORD LEVEL</td>
<td>This allows you to select if certain Zebra-selected menu items or all menu items are password protected.</td>
</tr>
<tr>
<td>DATA CAPTURE</td>
<td>This allows you to turn this feature ON and OFF. When this feature is ON, all the data is received by the printer is captured to an ATA PCMCIA Flash card.</td>
</tr>
<tr>
<td>LANGUAGE</td>
<td>This allows you to change the LCD language.</td>
</tr>
</tbody>
</table>
S4M LCD Options

S4M Control Panel Navigation

How you navigate through the S4M menu impacts if you come to the top of a protected menu or the bottom of a protected menu. For an example of how the LCD menu navigation works, see the table that follows:

<table>
<thead>
<tr>
<th>If you navigate…</th>
<th>Then…</th>
</tr>
</thead>
<tbody>
<tr>
<td>Using the right arrow key</td>
<td>When you come to a protected menu, for example <strong>ADVANCED SETUP 3</strong>, a password needs to be entered. When you access the protected menu, the menu is listed from the top of the menu to the bottom of the menu. For menu details, see Table 6, <em>S4M Protected Menu</em> on page 82.</td>
</tr>
<tr>
<td>Using the left arrow key</td>
<td>When you come to a protected menu, for example <strong>ADVANCED SETUP 3</strong>, a password needs to be entered. When you access the protected menu, the menu is listed from the bottom of the menu to the top of the menu. For menu details, see Table 6, <em>S4M Protected Menu</em> on page 82.</td>
</tr>
</tbody>
</table>

**Example** • This example provides you with a scenario using the right arrow key and a scenario using the left arrow key and how they differ, as follows:

**Scenario One - Using the right arrow key to navigate**

You use the right arrow key to move through the menu for your S4M printer. You come to **ADVANCED SETUP 3**. You enter the password to access the menu. You come to the first menu item in **ADVANCED SETUP 3**, which is **PRINT OUT**.

**Scenario Two - Using the left arrow key to navigate**

You use the left arrow key to move through the menu for your S4M printer. You come to **ADVANCED SETUP 3**. You enter the password to access the menu. You come to the last menu item in **ADVANCED SETUP 3**, which is **LANGUAGE**.

S4M Password Protected Menus

Some of the LCD options are password protected. As you navigate through the printer menu, if you come to an **ADVANCED SETUP** menu option, then you have come to password protected menu. These LCD menu options appear when you are about to enter a protected menu:

- **ADVANCED SETUP 3** — for menu details, see *S4M Protected Menu* on page 82.
- **ADVANCED SETUP 4** — for menu details, see the Maintenance Manual.
To access the password protected menu options, complete these steps:

1. If the LCD reads **ADVANCE SETUP 3**, you need to enter a password to access given LCD menu options.

2. On the control panel, press Enter.
   The LCD displays **PASSWORD 0000**. The default password to access **ADVANCED SETUP 3** is 1234.

3. Use the up and down arrow keys to increase and decrease the numbers. Use the right arrow key to advance to the next field.

4. When the password is entered, press Enter.
   The first menu selection in **ADVANCED SETUP 3** is **PRINT OUT**.

To understand how the display of the protected menus depend on how you navigate through the LCD, be sure to read *S4M Control Panel Navigation on page 79*.

**Supported Menu**

Table 5 identifies the unprotected menu options and Table 6 identifies the protected menu options your Zebra S4M printer with APL-D firmware.

**Table 5 • S4M Unprotected Menus**

<table>
<thead>
<tr>
<th>LCD Option</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DARKNESS</strong></td>
<td>This allows you to adjust the darkness of your output.</td>
</tr>
<tr>
<td><strong>TEAR OFF</strong></td>
<td>This allows you to set the position of the labels over the tear-off/peel-off bar.</td>
</tr>
<tr>
<td><strong>LABEL TOP</strong></td>
<td>This allows you to adjust the print position on the label vertically.</td>
</tr>
<tr>
<td><strong>LEFT POSITION</strong></td>
<td>This allows you to set how far from the left edge of the label the format begins to print.</td>
</tr>
<tr>
<td><strong>MEDIA TYPE</strong></td>
<td>This allows you to set the type of media you are using.</td>
</tr>
<tr>
<td><strong>SENSOR SELECT</strong></td>
<td>This allows you to choose the sensor that you want to use.</td>
</tr>
<tr>
<td><strong>REMOVAL</strong></td>
<td>This allows you to select the type of label removal method you want to use.</td>
</tr>
<tr>
<td><strong>PRINT SPEED</strong></td>
<td>This allows you to change the print speed inches per second (ips).</td>
</tr>
</tbody>
</table>

**Important** • Typically, the slower the print speed, the better the print quality.

| **PRINT WIDTH**    | This allows you to set the printable area across the label width. |
| **COMPAT. MODE**   | This allows you to put the printer in compatibility mode. In compatibility mode, you can change the default label top from 1.1 inches to 2.5 inches. |
### Table 5 • S4M Unprotected Menus

<table>
<thead>
<tr>
<th>LCD Option</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CONTROL CODES</strong></td>
<td>This allows you to select which set of language control codes will be sent to the printer. (For more specific information, see Table 2, <em>Alternate Control Codes</em> on page 61.)</td>
</tr>
<tr>
<td><strong>LENGTH</strong></td>
<td>This allows you to set the maximum length of the label.</td>
</tr>
</tbody>
</table>
Table 6 shows the protected menu for **ADVANCED SETUP 3**. To access this, see *S4M Password Protected Menus* on page 79.

### Table 6 • S4M Protected Menu

<table>
<thead>
<tr>
<th>LCD</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRINT OUT</strong></td>
<td>This allows you to print certain types labels with specific printer information.</td>
</tr>
<tr>
<td><strong>MODULE A</strong></td>
<td>This allows you to assign an actual 512 KB memory device to a module letter.</td>
</tr>
<tr>
<td><strong>MODULE B</strong></td>
<td>This allows you to assign an actual 512 KB memory device to a module letter.</td>
</tr>
<tr>
<td><strong>PARALLEL COMM</strong></td>
<td>This allows the communications port that matches the one being used by the host computer.</td>
</tr>
<tr>
<td><strong>DATA BITS</strong></td>
<td>This allows you to select the data bits. It must match the data bits being used by the host.</td>
</tr>
<tr>
<td><strong>PARITY</strong></td>
<td>This allows you to select the parity. It must match the parity on the host.</td>
</tr>
<tr>
<td><strong>HOST HANDSHAKE</strong></td>
<td>This allows you to select the handshake protocol. It must match the protocol on the host.</td>
</tr>
<tr>
<td><strong>ACTIVE PRI NTSRVR</strong></td>
<td>This allows you to see which print server is being used.</td>
</tr>
<tr>
<td><strong>OBTAIN IP ADDRESS</strong></td>
<td>This allows you to select the method by which an IP address will be assigned to the printer.</td>
</tr>
<tr>
<td><strong>CHANGE IP PROTOCOL</strong></td>
<td>This allows you to select the method(s) by which the print server (wired or wireless) receives the IP address from the server, only when PERMANENT is select for OBTAIN IP ADDRESS.</td>
</tr>
<tr>
<td><strong>CHANGE IP ADDRESS</strong></td>
<td>This allows you to view or change the printer’s IP address, only when PERMANENT is select for OBTAIN IP ADDRESS.</td>
</tr>
<tr>
<td><strong>CHANGE SUBNET</strong></td>
<td>This allows you to view or change the printer’s subnet, only when PERMANENT is select for OBTAIN IP ADDRESS.</td>
</tr>
<tr>
<td><strong>CHANGE GATEWAY</strong></td>
<td>This allows you to view or change the printer’s gateway, only when PERMANENT is select for OBTAIN IP ADDRESS.</td>
</tr>
<tr>
<td><strong>HEXDUMP</strong></td>
<td>This allows you to check the connection between the printer and the host computer.</td>
</tr>
<tr>
<td><strong>CHANGE RTC DATE</strong></td>
<td>This allows you to view the current date and change the date.</td>
</tr>
<tr>
<td><strong>CHANGE RTC TIME</strong></td>
<td>This allows you to view the current time and change the time.</td>
</tr>
<tr>
<td><strong>LOAD DEFAULTS</strong></td>
<td>This allows you to reset the parameters back to the factory default settings.</td>
</tr>
</tbody>
</table>
Table 6 • S4M Protected Menu (Continued)

<table>
<thead>
<tr>
<th>LCD</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEFAULT NET</td>
<td>This restores the wired and wireless network settings back to factory defaults.</td>
</tr>
<tr>
<td>INIT FLASH MEM</td>
<td>This allows you to reformat your Flash memory.</td>
</tr>
<tr>
<td>RIBBON</td>
<td>This is automatically set during calibration.</td>
</tr>
<tr>
<td></td>
<td><strong>Important</strong> • If this needs to be changed, the change should be done by a qualified service technician.</td>
</tr>
<tr>
<td>SENSOR PROFILE</td>
<td>This prints out a sensor profile label.</td>
</tr>
<tr>
<td>MEDIA / RIBBON</td>
<td>This allows you to adjust the sensitivity of the media and ribbon sensors.</td>
</tr>
<tr>
<td>LANGUAGE</td>
<td>This allows you to change the LCD language.</td>
</tr>
<tr>
<td>MAC ADDRESS</td>
<td>This allows you to view the MAC address for the current wireless radio card.</td>
</tr>
<tr>
<td>ESSID</td>
<td>This allows you to view the ESSID for the current wireless configuration.</td>
</tr>
<tr>
<td>WLAN SECURITY</td>
<td>This allows you to view the current security type.</td>
</tr>
<tr>
<td>RESET NETWORK</td>
<td>This allows you to reinitialize the wireless radio card and the print server (wired or wireless).</td>
</tr>
</tbody>
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