



ZebraLink™

APL-D

Reference Guide



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Who Should Use This Document

This APL-D Reference Guide is intended for use by any person who needs to perform routine maintenance, upgrade, or troubleshoot problems with the printer.

How This Document Is Organized

The APL-D Reference Guide is set up as follows:

Section	Description
<i>Introduction on page 13</i>	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.
<i>Commands on page 17</i>	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.
<i>Network Configuration on page 63</i>	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.
<i>Control Panel Options on page 69</i>	This appendix provides you with control panel menu options on the Zebra printers with APL-D firmware.

Contacts

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E-mail Back Technical Library:

E-mail address: emb@zebra.com

Subject line: Emaillist

Self Service Knowledge Base: www.zebra.com/knowledgebase

Online Case Registration: www.zebra.com/techrequest

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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



Notes •



Introduction

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:

Table 1 • Printer and Firmware Support

Printer	Firmware
S4M and ZM400/ZM600	D53.15.x
Z4Mplus/Z6Mplus, 105SL, <i>XiIIIPlus</i> , PAX4	D60.15.x
Xi4	D53.17.x

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.



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Commands

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>0

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>0

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

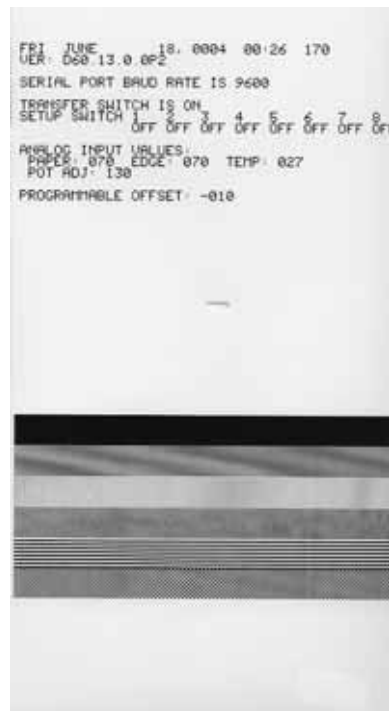
Purpose This command prints a configuration label and test label with dot patterns.

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



DPL



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)

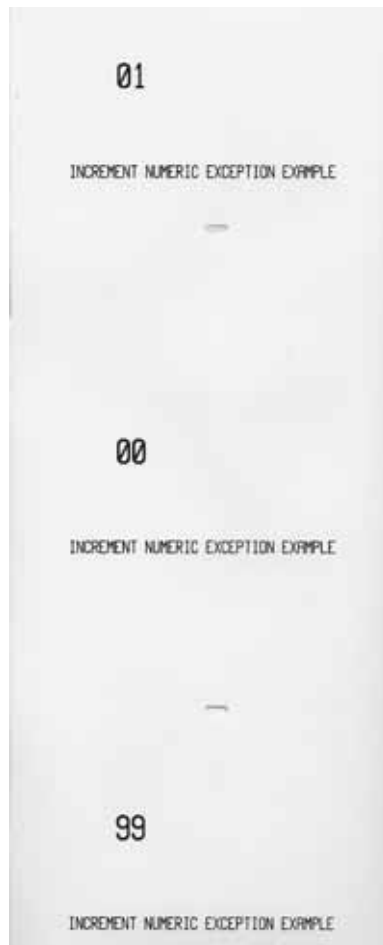
Purpose This command prints labels in a numeric sequence.

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



DPL



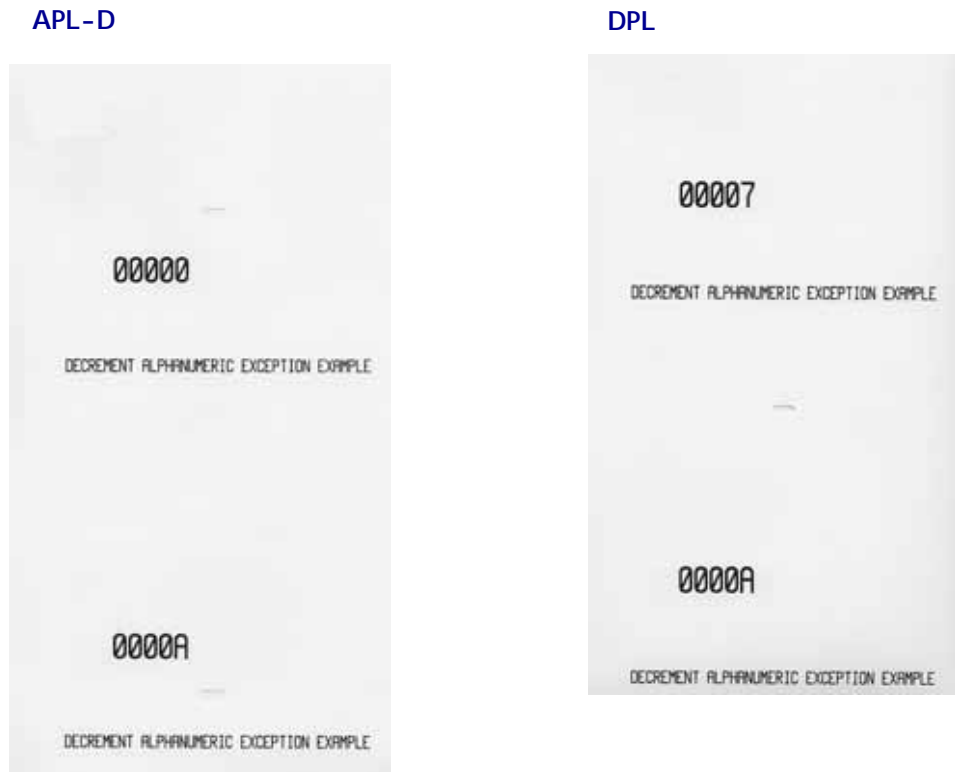
Make Last Field Entered Decrement Numeric (Alphanumeric)

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:



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

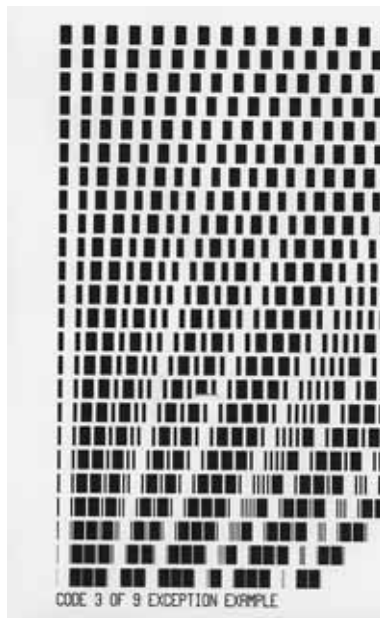
Purpose This command prints a Code 3 of 9 bar code.

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:

APL-D



DPL



UPC-A

Purpose This command prints a UPC-A bar code.

Syntax B

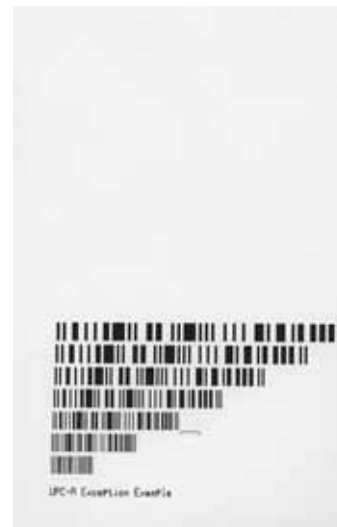
Partially Supported Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- 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:

APL-D



DPL



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:

APL-D



DPL



Interleaved 2 of 5 (I 2 of 5)

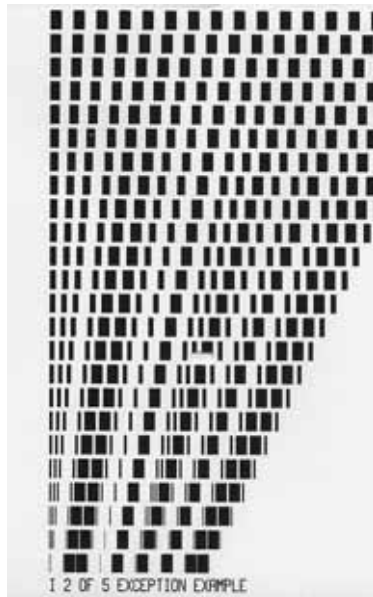
Purpose This command prints an Interleaved 2 of 5 bar code.

Syntax D

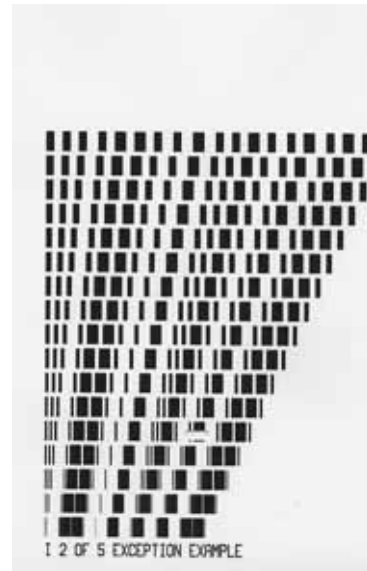
Partially Supported Based on testing, this is a partially supported command with the following differences and outputs:

- 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:

APL-D



DPL



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



DPL



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:

APL-D



DPL



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:

APL-D



DPL



Health Industry Bar Code (HIBC) (Code 39 bar code with a Modulo 43 Checksum)

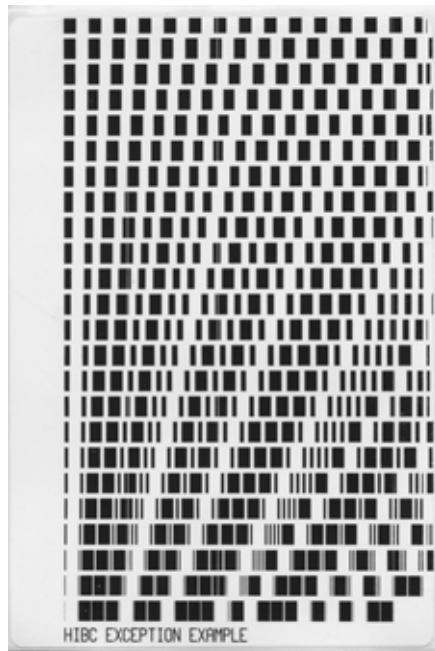
Purpose This command prints an HIBC bar code.

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:

APL-D



DPL



Codabar

Purpose This command prints a Codabar bar code.

Syntax I

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



DPL



Interleaved 2 of 5 with a Modulo 10 Checksum

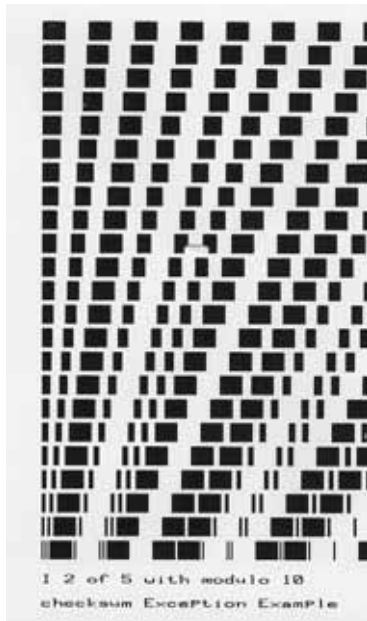
Purpose This command prints an Interleaved 2 of 5 bar code.

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:

APL-D



DPL



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



DPL



Interleaved 2 of 5 with a Modulo 10 Checksum and Shipping bars

Purpose This command prints a 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



DPL



2-Digit UPC Addendum

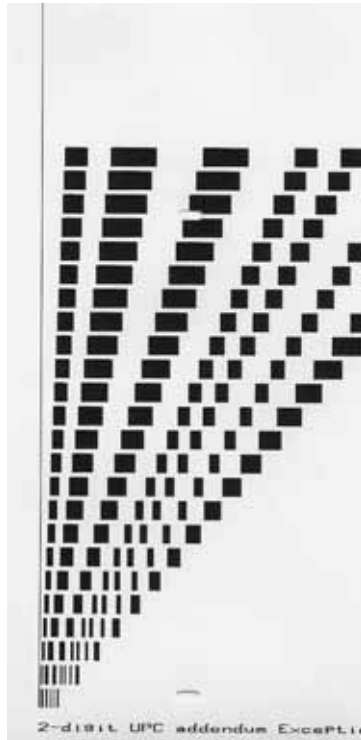
Purpose This command prints a 2-digit UPC addendum bar code.

Syntax M

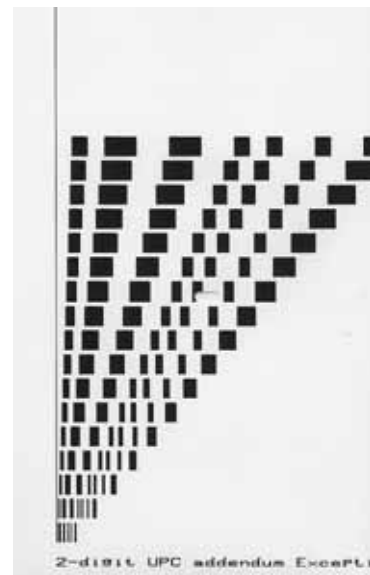
Partially Supported Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- 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:

APL-D



DPL



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:

APL-D



DPL



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:

APL-D



DPL



Postnet

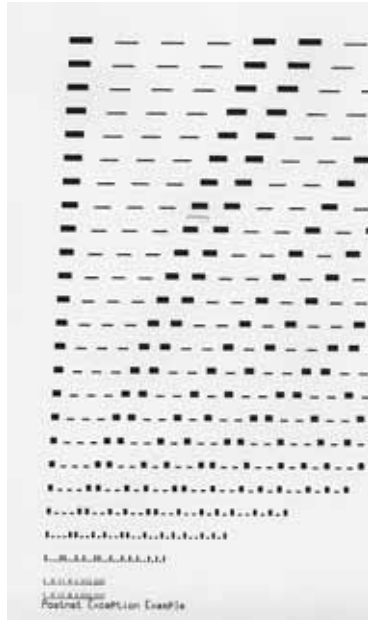
Purpose This command prints a Postnet bar code.

Syntax `p`

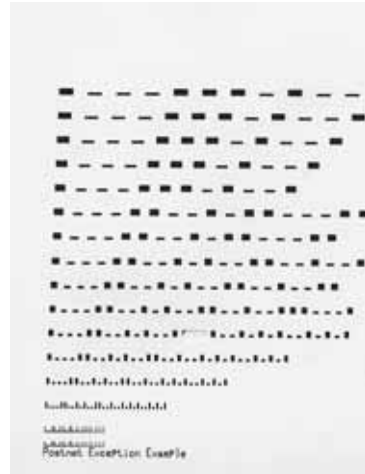
Partially Supported Based on testing, this command is partially supported on the Zebra printer with APL-D firmware with the following differences and outputs:

- 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



DPL



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:

APL-D



DPL



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:

APL-D



DPL



PDF-417

Purpose This command prints a PDF-417 bar code.

Syntax `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.

APL-D



DPL



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 2 • Alternate Control Codes

Control Character	Standard	Main Frame
SOH	0x01	0x5E
STX	0x02	0x7E
CR	0x0D	0x0D
ESC	0x1B	0x1B
* "Count By"	0x5E	0x40

*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 3 • Supported Print Servers and Firmware

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

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.



Notes • _____



Control Panel Options

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

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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

<i>XiIIIPlus</i>	Z4Mplus/Z6Mplus	105SL	ZM400/ZM600	PAX4	Xi4	LCD Option	Details
✓	✓	✓	✓	✓	✓	DARKNESS	This allows you to adjust the darkness of your output.
✓	✓		✓	✓	✓	PRINT SPEED	This allows you to change the print speed inches per second (ips). Important • Typically, the slower the print speed, the better the print quality.
				✓		SLEW SPEED	This allows you to adjust the speed for feeding a blank label (given in inches per second).
				✓		BACKFEED SPEED	If backfeed is on, this allows you to adjust the speed at which the label backs up before printing (given in inches per second).
✓	✓	✓	✓	✓	✓	TEAR OFF	This allows you to set the position of the labels over the tear-off/peel-off bar.
✓				✓	✓	APPLICATOR PORT	This allows you to determine the action of the verifier port. Password protected.
✓				✓	✓	START PRINT SIG	This allows you to determine how the printer reacts to the Start Print Signal input on pin 3 of the applicator interface. Password protected.
✓	✓	✓	✓	✓	✓	PRINT MODE	This allows you to set the type of label delivery.
✓	✓	✓	✓	✓	✓	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.
✓	✓	✓	✓	✓	✓	CONTROL CODES	This allows you to select which set of language control codes will be sent to the printer. (For more specific information, see Table 2, Alternate Control Codes on page 61.)
✓	✓	✓	✓	✓	✓	MODULE A	This allows you to assign an actual 512 KB memory device to a module letter.

Table 4 • LCD Differences on Supported Printers

XIII Plus	Z4Mplus/Z6Mplus	105SL	ZM400/ZM600	PAX4	Xi4	LCD Option	Details
✓	✓	✓	✓	✓	✓	MODULE B	This allows you to assign an actual 512 KB memory device to a module letter.
✓	✓	✓	✓	✓	✓	MEDIA TYPE	This allows you to set the type of media you are using.
✓	✓	✓			✓	SENSOR TYPE	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.
	✓					SENSOR SELECT	This allows you to choose the sensor that you want to use.
✓	✓	✓	✓	✓	✓	PRINT METHOD	This allows you to set the method of printing.
✓	✓	✓	✓	✓	✓	PRINT WIDTH	This allows you to set the printable area across the label width.
✓	✓	✓	✓	✓	✓	MAXIMUM LENGTH	This allows you to set the maximum length of the label.
✓				✓	✓	EARLY WARNING MEDIA/SUPPLIES WARNING	This allows you to enable or disable warnings to appear if label or ribbon is low. Password protected.
✓				✓	✓	LABELS PER ROLL	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.
✓				✓	✓	MEDIA REPLACED?	This parameter appears only when Early Warning for Media is enabled.
✓				✓	✓	RIBBON LENGTH	This parameter appears only when Early Warning for Media is enabled and the printer is set for Thermal Transfer operation.
✓				✓	✓	RIBBON REPLACED?	This parameter appears only when Early Warning for Media is enabled and the printer is set for Thermal Transfer operation.
✓			✓	✓	✓	EARLY WARNING MAINT.	This allows you to enable or disable warnings to appear if the printhead needs to be cleaned. Password protected.
✓			✓	✓	✓	HEAD CLEANING	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.

Table 4 • LCD Differences on Supported Printers

XIII Plus	Z4Mplus/Z6Mplus	105SL	ZM400/ZM600	PAX4	Xi4	LCD Option	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 PRINthead	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.
✓			✓	✓	✓	PRINT 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 ERPRM, or optional memory card.
✓	✓	✓	✓	✓	✓	LIST SETUP	This allows you to prints 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.

Table 4 • LCD Differences on Supported Printers

XIII Plus	Z4Mplus/Z6Mplus	105SL	ZM400/ZM600	PAX4	Xi4	LCD Option	Details
✓	✓	✓	✓	✓	✓	PARALLEL COMM.	This allows you to select a communications port. It must match the one being used by the host.
✓	✓	✓	✓	✓	✓	BAUD	This allows you to select a baud rate. It must match the rate being used by the host. Password protected.
✓	✓	✓	✓	✓	✓	DATA BITS	This allows you to select the data bits. It must match the data bits being used by the host. Password protected.
✓	✓	✓	✓	✓	✓	PARITY	This allows you to select the parity. It must match the parity on the host. Password protected.
✓	✓	✓	✓	✓	✓	HOST HANDSHAKE	This allows you to select the handshake protocol. It must match the protocol on the host. Password protected.
✓	✓	✓	✓	✓	✓	COMMUNICATIONS	This allows you to troubleshoot and check the interconnection between the printer and the host computer. Password protected.
				✓		RIBBON TENSION	This sets the tension applied to the ribbon supply spindle (170PAX4 only).
✓	✓	✓	✓	✓	✓	MEDIA POWER UP	This allows you to set the action of the labels when the printer is turned on. Password protected.
✓	✓	✓	✓	✓	✓	HEAD CLOSE	This allows you to set the action of the labels when the printhead is closed. Password protected.
✓	✓	✓	✓	✓	✓	BACKFEED	This allows you to determine when and how much label feedback occurs after a label is removed. Password protected.
✓	✓	✓	✓	✓	✓	LABEL TOP	This allows you to adjust the print position on the label vertically.
✓	✓	✓	✓	✓		LEFT POSITION	This determines how far from the left edge of a label the format begins to print.
				✓	✓	HEAD TEST COUNT	The printer periodically performs a test of the printhead functionality. This establishes how many labels are printed between these internal tests.

Table 4 • LCD Differences on Supported Printers

XIII Plus	Z4Mplus/Z6Mplus	105SL	ZM400/ZM600	PAX4	Xi4	LCD Option	Details
✓		✓		✓		HEAD RESI STOR	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. Important • If this needs to be changed, the change should be done by a qualified service technician.
✓					✓	VERI FIER PORT	This allows you to determine how the printer reacts to the online verifier. Password protected.
✓				✓	✓	ERROR ON PAUSE	When this option is enabled and the print engine is paused, the print engine sets the applicator error state.
✓				✓	✓	RESYNCH MODE	This allows you to determine how the printer reacts if the label synchronization is lost and the label top is not where it should be. Password protected.
				✓		RIBBON LOW MODE	When the amount of ribbon on the supply spindle reaches the specified length, the output signal asserts HIGH to provide a RIBBON LOW warning.
				✓		RIBBON LOW OUTPUT	This is dependent on the setting of RIBBON LOW MODE. If RIBBON LOW MODE is enabled, this is asserted HIGH and the amount of ribbon remaining on the supply spool is below a specific threshold level. If RIBBON LOW MODE is disabled, this output lead is disabled.
✓	✓	✓	✓	✓	✓	WEB S.	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.
✓	✓	✓	✓	✓	✓	MEDIA S.	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.

Table 4 • LCD Differences on Supported Printers

XIII Plus	Z4Mplus/Z6Mplus	105SL	ZM400/ZM600	PAX4	Xi4	LCD Option	Details
✓	✓	✓	✓	✓	✓	RI BBON S.	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.
✓	✓	✓	✓		✓	TAKE LABEL	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 S.	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.
			✓		✓	TRANS GAIN	This is automatically set during calibration. Important • If this needs to be changed, the change should be done by a qualified service technician.
			✓		✓	TRANS BASE	This is automatically set during calibration. Important • If this needs to be changed, the change should be done by a qualified service technician.
			✓		✓	TRANS BRI GHT	This is automatically set during calibration. Important • If this needs to be changed, the change should be done by a qualified service technician.
✓		✓		✓	✓	MARK MED S.	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.
✓	✓	✓		✓		MEDIA 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.

Table 4 • LCD Differences on Supported Printers

XIII Plus	Z4Mplus/Z6Mplus	105SL	ZM400/ZM600	PAX4	Xi4	LCD Option	Details
✓	✓	✓	✓	✓	✓	RIBBON GAIN/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 GAIN	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 ADJUST	This allows you to adjust the contrast of your LCD.
				✓		RTS TAKEUP 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 DISPLAY	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 TIME	This allows you to view the current time and change the time. Password protected.
✓	✓	✓		✓	✓	WIRED PS CHECK?	This tells if the printer searches for a wired print server at bootup.
			✓		✓	PRIMARY NETWORK	This allows you to see if the printer is using a IP setting from the wireless or a wired print server at bootup.
✓	✓	✓		✓	✓	LOAD LAN FROM?	This determines if the printer uses IP settings from the printer or the print server at bootup.
✓	✓	✓	✓	✓	✓	ACTIVE PRINTSRVR	This allows you to see which print server is being used.

Table 4 • LCD Differences on Supported Printers

XIII Plus	Z4Mplus/Z6Mplus	105SL	ZM400/ZM600	PAX4	Xi4	LCD Option	Details
✓	✓	✓	✓	✓	✓	IP PROTOCOL	The allows you to see if the user (permanent) or the server (dynamic) selects the IP address.
✓	✓	✓	✓	✓	✓	IP ADDRESS	This allows you to modify this setting, only when Permanent is select for OBTAIN IP ADDRESS.
✓	✓	✓	✓	✓	✓	SUBNET MASK	This allows you to view the subnet mask.
✓	✓	✓	✓	✓	✓	DEFAULT GATEWAY	This allows you to view the default gateway.
✓	✓	✓	✓	✓	✓	MAC ADDRESS	This allows you to view the MAC address for the current wireless radio card.
✓	✓	✓	✓	✓	✓	ESSID	This allows you to view the ESSID for the current wireless configuration.
✓	✓	✓	✓	✓	✓	WLAN SECURITY	This allows you to view the current security type.
✓	✓	✓	✓	✓	✓	RESET NETWORK	This allows you to reinitialize the wireless radio card and the print server (wired or wireless).
✓	✓	✓	✓	✓	✓	PASSWORD LEVEL	This allows you to select if certain Zebra-selected menu items or all menu items are password protected.
✓	✓	✓		✓		DATA CAPTURE	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.
✓	✓	✓	✓	✓	✓	LANGUAGE	This allows you to change the LCD language.

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:

If you navigate...	Then...
Using the right arrow key	When you come to a protected menu, for example ADVANCED SETUP 3 , 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, S4M Protected Menu on page 82 .
Using the left arrow key	When you come to a protected menu, for example ADVANCED SETUP 3 , 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, S4M Protected Menu on page 82 .



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

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

LCD Option	Details
CONTROL CODES	This allows you to select which set of language control codes will be sent to the printer. (For more specific information, see Table 2, <i>Alternate Control Codes</i> on page 61.)
LENGTH	This allows you to set the maximum length of the label.

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

LCD	Details
PRINT OUT	This allows you to print certain types labels with specific printer information.
MODULE A	This allows you to assign an actual 512 KB memory device to a module letter.
MODULE B	This allows you to assign an actual 512 KB memory device to a module letter.
PARALLEL COMM.	This allows the communications port that matches the one being used by the host computer.
DATA BITS	This allows you to select the data bits. It must match the data bits being used by the host.
PARITY	This allows you to select the parity. It must match the parity on the host.
HOST HANDSHAKE	This allows you to select the handshake protocol. It must match the protocol on the host.
ACTIVE PRINTSRVR	This allows you to see which print server is being used.
OBTAIN IP ADDRESS	This allows you to select the method by which an IP address will be assigned to the printer.
CHANGE IP PROTOCOL	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.
CHANGE IP ADDRESS	This allows you to view or change the printer's IP address, only when PERMANENT is select for OBTAIN IP ADDRESS.
CHANGE SUBNET	This allows you to view or change the printer's subnet, only when PERMANENT is select for OBTAIN IP ADDRESS.
CHANGE GATEWAY	This allows you to view or change the printer's gateway, only when PERMANENT is select for OBTAIN IP ADDRESS.
HEXDUMP	This allows you to check the connection between the printer and the host computer.
CHANGE RTC DATE	This allows you to view the current date and change the date.
CHANGE RTC TIME	This allows you to view the current time and change the time.
LOAD DEFAULTS	This allows you to reset the parameters back to the factory default settings.

Table 6 • S4M Protected Menu (Continued)

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



Notes • _____

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