

MLI QUICK REFERENCE

Avery Dennison's MONARCH LANGUAGE INTERPRETER™ (MLI™) and this *Quick Reference* are intended to help you use the MONARCH® ADTP1 printer or MONARCH® ADTP2 printer, which were set up for use with ZIH Corp.'s ZPL II®. If you have any questions about using a MONARCH® printer with these data streams, please contact your Monarch representative.

This *Quick Reference* lists the ZPL II® commands (with any applicable notes) that the ADTP1/ADTP2 printers can interpret.

Note: Information in this document supercedes information in previous versions. Check our Web site (<http://printers.averydennison.com>) for the latest release and documentation information.

Selecting the Interpreter

When you turn on the printer, you must set the interpreter to MLI or MPCL to print non-MLI data streams.



To change this setting from the **Main Menu**, select **Setup, Interpreter, MLI**.

- ◆ The printer reboots automatically after selecting an interpreter. This process may take several seconds.
- ◆ When you print test labels with MLI set as the interpreter, the model number appears as **ADTP1 (MLI)** or **ADTP2 (MLI)**.

Overview of Differences

- ◆ ZPL II® formats have a reference point at the upper left-hand corner of the printed label. These printers's reference point is at the lower left-hand corner of the printed label.
- ◆ These MONARCH printers are center justified, maximum supply width is 4.2 inches wide, and the maximum image size is 4.09 inches.
- ◆ The MONARCH printers calibrate when it receives the first byte of data from the host or whenever the printhead is closed.
- ◆ The MONARCH printers, using the MLI™ interpreter, only report the following errors: 409-426; 497, 499, and 703-793. Refer to your printer's *Packet Reference Manual* for descriptions of these errors.

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Setting MLI Options



The MLI options are listed in the table below.

Option	Choices	Default
Print Mode	Tear Off/Cutter	Tear Off
Supply Width	203 to 832	832

Setting the Print Mode

The printer must be set for the correct print mode for your application: Tear Off or Cutter.



Select	To
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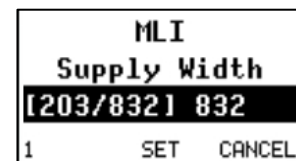
Tear Off	Print tags or labels without using a cutter.
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Cutter	Prints tags or label with a cutter.
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Entering the Supply Width

The printer must be set for the width of the loaded supply. Follow these instructions any time you load supplies with a different supply width.

After you load supplies, select **Supply Width** from the MLI Menu.



Select	To
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←	Decrease the supply width.
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→	Increases the supply width.
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Note: Press the left function button to change the amount (by 1, 10, or 100).

Interpreted ZPL II® Commands

The following lists the ZPL II® commands interpreted by the MONARCH® ADTP1/ADTP2 printer's MLI™ interpreter.

Imaging

ZPL II® Cnds	Notes:	ZPL II® Cnds	Notes:	ZPL II® Cnds	Notes:
^A		^DF	We only support downloading to RAM.	^IS	
^A@		~DG	No rotation of graphics.	~JA	
^B2		~DY	No rotation of graphics.	^LH	
^B3		~EF		^LL	
^B7	If the number of rows or columns is not specified, the bar code size is different.	~EG	Graphics cannot be erased from within a format.	^LR	
^B8	No interpretation line (human readable characters) when narrow element is wider than 4 dots.	^FB	Use only for text justification.	^LS	
^B9	No interpretation line (human readable characters) when narrow element is wider than 4 dots.	^FD		^LT	
^BA		^FH		^MM	We support t and c.
^BB	Supports CODABLOCK F	^FN		^MU	
^BC		^FO		^PO	
^BD	Supports modes 2, 3, and 4.	^FR		^RF	No support for ^RFR or ^RFe.
^BE	No interpretation line (human readable characters) when narrow element is wider than 4 dots.	^FS		^RT	Does not read an RFID tag, but is required if an ^HV command is used.
^BK		^FT	The X and Y coordinates must be specified.	^SF	
^BL		^FV	This command works the same as the ^FD command.	^WT	Number of retries, etc. is not used.
^BM	The printer only uses one mod-10 check digit.	^FW		^XA	
^BU	No interpretation line (human readable characters) when narrow element is wider than 4 dots.	^FX		^XF	
^BX	The bar code size is different. Only use the value of 200 for the error correction level, no rectangular symbols or custom formats.	^GB	No support for rounded corners.	^XG	No magnification.
^BY		^GF	No rotation of graphics.	^XZ	
^CF		^ID			
~DB	No support for double-wide character fonts.	^IL			

Parser

ZPL II® Cnds	Notes:
^CC ~CC	
^CD ~CD	Does not change delimiter to a period (.) character.
^CM	
^CT ~CT	
^CW	

Printer Setup

ZPL II® Cnds	Notes:
^MT	
^PQ	No support for the pause and serial number replication options.
^PR	Each unsupported speed is mapped to the printer's next lower speed. No support for backfeed speed or blank-label feeding speeds.
^PW	
^SC	
~SD	
~TA	Adjustment applies to the next label printed. Use 0 to turn off backfeed.
^XB	

Host

ZPL II® Cnds	Notes:
~HS	Fixed status response only.
^HV	Only used in conjunction with an RFID tag that uses the ^WT command followed by the ^RT command.