

MLI QUICK REFERENCE

Avery Dennison's MONARCH LANGUAGE INTERPRETER™ (MLI™) and this *Quick Reference* are intended to help you use the MONARCH® 9416® XL® printer, which was 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 9416® XL® printer can interpret.

Note: Information in this document supercedes information in previous versions. Check our Web site (www.monarch.com) for the latest release and documentation information.

Overview of Differences

- ◆ ZPL II® formats have a reference point at the upper left-hand corner of the printed label.
- ◆ The MONARCH 9416 printer is center justified, maximum supply width is 4.25 inches wide, and the maximum image size is 4.09 inches.
- ◆ You must manually calibrate the MONARCH 9416 printer before the first MLI data is sent from the host.
- ◆ The MONARCH 9416 printer, using the MLI™, only reports the following errors: 409-426; 497, 499, and 703-793. Refer to the 9416 *Programmer's Manual* for descriptions of these errors.

Interpreted ZPL II® Commands

The following lists the ZPL II® commands interpreted by the MONARCH® 9416 printer's MLI™.

Command	Description	Comment
^A	Scalable/Bitmapped Font	
^A@	Use Font Name to Call Font	
^B0	Aztec Bar Code	
^B1	Code 11 Bar Code	
^B2	Interleaved 2 of 5 Bar Code	
^B3	Code 39 Bar Code	
^B4	Code 49 Bar Code	
^B5	Planet Code bar code	
^B7	PDF417 Bar Code	
^B8	EAN-8 Bar Code	
^B9	UPC-E Bar Code	
^BA	Code 93 Bar Code	
^BC	Code 128 Bar Code (Subsets A, B, and C)	
^BD	UPS MaxiCode Bar Code	

Command	Description	Comment
^BE	EAN-13 Bar Code	
^BF	Micro PDF417 Bar Code	
^BI	Industrial 2 of 5 Bar Codes	
^BJ	Standard 2 of 5 Bar Code	
^BK	ANSI Codabar Bar Code	
^BL	LOGMARS Bar Code	
^BM	MSI Bar Code	
^BO	Aztec Bar Code	
^BP	Plessey Bar Code	
^BQ	QR Code Bar Code	
^BR	RSS Bar Code	
^BS	UPC/EAN Extensions	
^BT	TLC39 bar code	
^BU	UPC-A Bar Code	
^BX	Data Matrix Bar Code	
^BY	Bar Code Field Default	

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Command	Description	Comment
^BZ	POSTNET Bar Code	
^CC	Change Carets	
^CD	Change Delimiter	
^CF	Change Alphanumeric Default Font	
^CI	Change International Font	
^CM	Change Memory Letter Designation	
^CT	Change Tilde	
^CW	Font Identifier	
^DF	Download Format	
^EF	Erase Stored Formats	
^EG	Erase Download Graphics	
^FA	Field Allocate	
^FB	Field Block	Incomplete
^FC	Field Clock(for Real-Time Clock)	
^FD	Field Data	
^FH	Field Hexadecimal Indicator	
^FN	Field Number	
^FO	Field Origin	
^FP	Field Parameter	Incomplete
^FR	Field Reverse Print	
^FS	Field Separator	
^FT	Field Typeset	
^FV	Field Variable	
^FW	Field Orientation	
^FX	Comment	
^GB	Graphic Box	
^GC	Graphic Circle	
^GD	Graphic Diagonal Line	
^GE	Graphic Ellipse	
^GF	Graphic Field	
^GS	Graphic Symbol	
^HF	Host Format	
^HG	Host Graphic	
^HH	Configuration Label Return	

Command	Description	Comment
^ID	Object Delete	
^IL	Image Load	
^IM	Image Move	
^IS	Image Save	
^JM	Set Dot per Millimeter	
^LH	Label Home	
^LL	Label Length	
^LR	Label Reverse Print	
^LS	Label Shift	
^LT	Label Top	
^MC	Map Clear	
^MD	Media Darkness	
^MF	Media Feed	
^MM	Print Mode	
^MN	Media Tracking	
^MT	Media Type	
^MU	Set Units of Measurement	
^PH	Slew to Home Position	
^PM	Printing Mirror Image of Label	
^PO	Print Orientation	
^PP	Programmable Pause	
^PQ	Print Quantity	
^PR	Print Rate	
^PW	Print Width	
^SC	Set Serial Communications	
^SN	Serialization Data	
^TO	Transfer Object	
^WD	Print Directory Label	
^XA	Start Format	
^XB	Suppress Backfeed	
^XF	Recall Format	
^XG	Recall Graphic	
^XZ	End Format	

Command	Description	Comment
~CC	Change Carets	
~CD	Change Delimiter	
~CT	Change Tilde	
~DB	Download Bitmap Font	
~DE	Download Encoding	
~DG	Download Graphic	
~DN	Abort Download Graphic	
~DS	Download Scalable Font	
~DT	Download TrueType Font	
~DU	Download Unbounded TrueType Font	
~DY	Download Objects	Incomplete
~EF	Erase Stored Formats	
~EG	Erase Download Graphics	
~HI	Host Identification	
~HM	Host RAM Status	
~HS	Host Status Return	
~JA	Cancel All	
~JC	Set Media Sensor Calibration	
~JL	Set Label Length	
~JP	Pause and Cancel Format	
~JS	Change Backfeed Sequence	Only Support ~JSO
~JX	Cancel Current Partially Input Format	
~PH	Slew to Home Position	
~PP	Programmable Pause	
~PR	Applicator Reprint	
~PS	Print Start	
~SD	Set Darkness	
~TA	Tear-off Adjust Position	
~WC	Print Configuration Label	