MLI QUICK REFERENCE

Avery Dennison's MONARCH LANGUAGE INTERPRETER™ (MLI™) and this *Quick Reference* are intended to help you use the MONARCH® 9855™ 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 that the 9855 printer can interpret with any special notes, if applicable.

Note: Information in this document supercedes information in previous versions. Check our Web site (www.monarch.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.

1. From the Main Menu, select Setup.

2. Press ← or → until you see

   ```
   SETUP
   ← Interpreter
   ```

3. Press **Enter/Pause**.

   ```
   INTERP        RETER
   MPCL             →
   ```

4. Press → to see MLI, then press **Enter/Pause**.
   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 **M9855MLI**.

Overview of Differences

♦ ZPL II® formats have a reference point at the upper left-hand corner of the printed label. The MONARCH 9855 printer's reference point is at the lower left-hand corner of the printed label.

♦ The MONARCH 9855 printer is center-justified and the maximum supply width is 4.2 inches wide. The maximum image size is 4.0 inches. The printer must be set for the width of the loaded supply. See "Entering the Supply Width," for more information.

♦ The MONARCH 9855 printer calibrates when it receives the first byte of data from the host or whenever the printhead is closed.

♦ The MONARCH 9855 printer using the MONARCH LANGUAGE INTERPRETER™ only reports the following errors: 409-426; 497, 499, and 703-793. Refer to your printer's *Operator's Handbook* or the optional *Packet Reference Manual* for descriptions of these errors.

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 printer's Main Menu. You see

```
Supply        Width
[203/812]:      +812
```

1. Enter the supply width in **dots**, where one inch equals 203 dots. For example, two-inch wide supply equals 406 dots.

   Feed/Cut acts as a toggle switch to change the value by 10 or 1. To make the supply width 711 for 3.5-inch wide supply (from the default of 812), press ← once (the display shows 811). Press **Feed/Cut** once and then press ← ten times (the display shows 711).

2. After you display the value you want, press **Enter/Pause**. You return to the Main Menu.

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Interpreted ZPL II® Commands

The following is the list of ZPL II® commands interpreted by the MONARCH® 9855™ printer's MONARCH LANGUAGE INTERPRETER™.

Imaging

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

Parser

ZPL II® Cmds		ZPL II® Cmds	
^CC ~CC		^CM	
^CD ~CD	Do not change the delimiter to a period (**.**) character.	^CT ~CT	

Printer Setup

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

Host

ZPL II® Cmds	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.