MLI QUICK REFERENCE

Avery Dennison's MONARCH LANGUAGE INTERPRETER™ (MLI™) and this *Quick Reference* are intended to help you use the MONARCH® 9906 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 9906 printer can interpret.
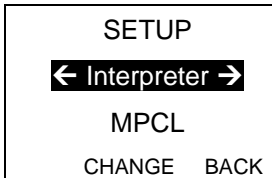
Note: Information in this document supercedes information in previous versions. Check our Web site (www.monarch.com) for the latest release and documentation information.

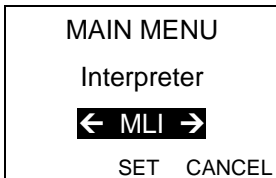## Selecting the Interpreter

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.

1. Press ← or → until Interpreter is on the display.

```
          SETUP
     ← Interpreter →
          MPCL

     CHANGE    BACK
```

2. Press **CHANGE** then press → until MLI is on the display.

```
       MAIN MENU
       Interpreter
        ← MLI →

        SET   CANCEL
```

3. Press **SET** to save the change.

   ♦ 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 **M9906MLI**.

Overview of Differences

♦ ZPL II® formats have a reference point at the upper left-hand corner of the printed label. The MONARCH 9906 printer's reference point is at the lower left-hand corner of the printed label.

♦ The MONARCH 9906 printer is inside edge-justified, maximum supply width is 4.2 inches wide, and the maximum image size is 4.09 inches.

♦ The MONARCH 9906 printer calibrates when it receives the first byte of data from the host or whenever the printhead is closed.

♦ The MONARCH 9906 printer, using the MLI™, only reports the following errors: 409-426; 497, 499, and 703-793. Refer to your printer's *Operator's Handbook* or the 9906 *Packet Reference Manual* for descriptions of these errors.

AVERY DENNISON

Interpreted ZPL II® Commands

The following lists the ZPL II® commands interpreted by the MONARCH® 9906™ printer's MLI™.

Imaging

ZPL II® Cmds	Notes:	ZPL II® Cmds	Notes:	ZPL II® Cmds	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 are 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		^MU	
^BB	Supports CODABLOCK F	^FN		^PO	
^BC		^FO		^RT	Does not read an RFID tag, but is required if an ^HV command is used.
^BD	Supports modes 2, 3, and 4.	^FR		^SF	
^BE	No interpretation line (human readable characters) when narrow element is wider than 4 dots.	^FS		^XA	
^BK		^FT	The X and Y coordinates must be specified.	^XF	
^BL		^FV	This command works the same as the ^FD command.	^XG	No magnification.
^BM	The printer only uses one mod-10 check digit.	^FW		^XZ	
^BU	No interpretation line (human readable characters) when narrow element is wider than 4 dots.	^FX			
^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.		
^BY		^GF	No rotation of graphics.		
^CF		^ID			
~DB	No support for double-wide character fonts.	^IL			

Parser

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

Printer Setup

ZPL II® Cmds	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 speed.
^SC	
~SD	
~TA	Adjustment applies to the next label printed. Use 0 to turn off backfeed.
^XB	

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.