

# MONARCH<sup>®</sup> 9416<sup>®</sup> XL<sup>®</sup> KNIFE ADDENDUM

This *Addendum* contains supply loading procedures for the Thermal Direct and Thermal Transfer printers with the knife installed. For more detailed information, refer to the *Equipment Manual* on our Web site ([www.monarch.com](http://www.monarch.com)).

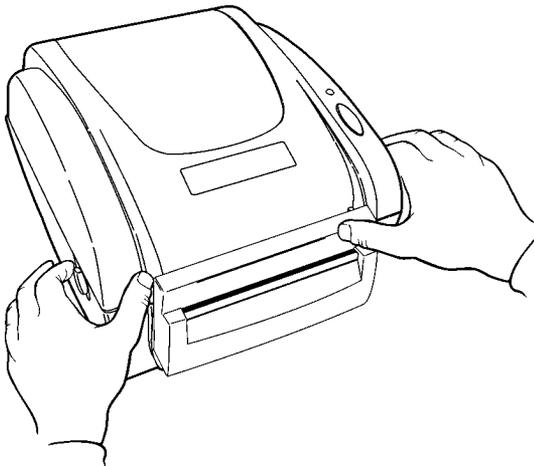
## Loading Supply for Non-Peel Mode

This section describes how to load supply to print in non-peel (continuous) mode. If you have a thermal direct printer (does not require a ribbon), make sure you load thermal direct supply. If you have a thermal transfer printer (requires a ribbon), make sure you load thermal transfer supply.

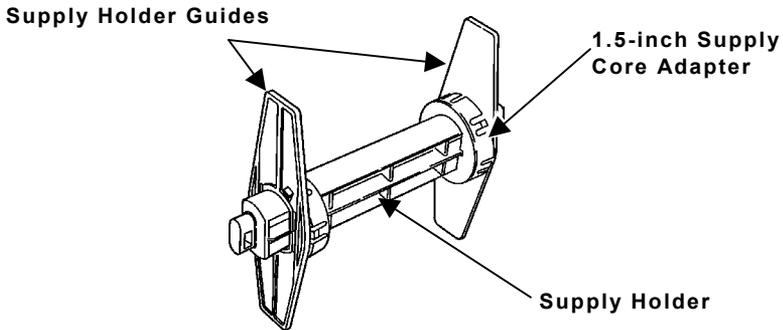
Make sure the black mark/die cut sensor is set correctly for your supply type. See “Adjusting the Black Mark/Die Cut Sensor,” in the *Equipment Manual* for more information.

**Note:** If you run out of supply, do not turn off the printer when reloading the supply. You may lose your data. The printer resumes printing when reloaded.

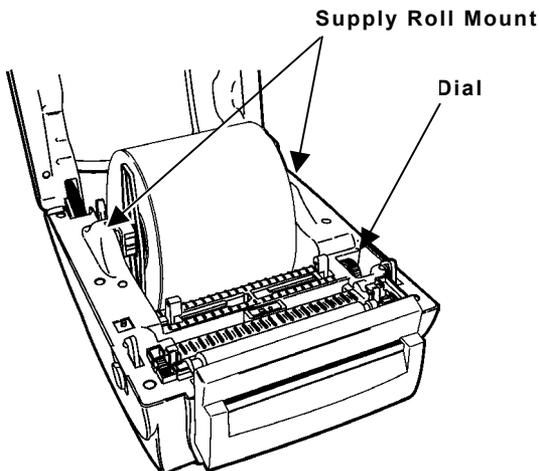
1. Remove and discard the tape from a new roll of supply. Unwrap and discard supply with any glue residue.
2. Press the release levers towards the front of the printer to release the cover.
3. Lift open the cover.



4. Remove the supply holder guide from one end of the supply holder.

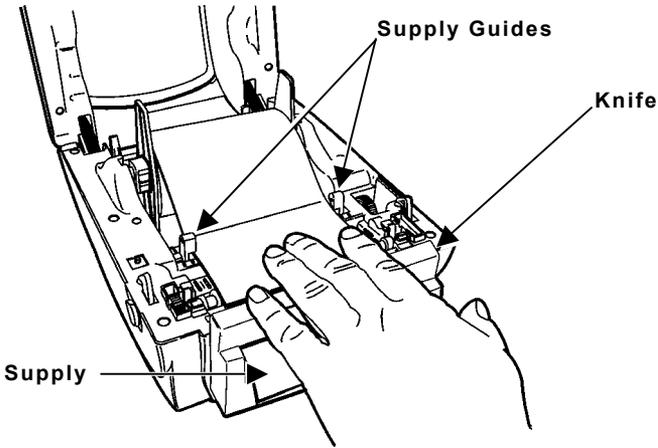


5. Slide a roll of supply onto the supply holder.
- Note:** If the core diameter on your roll of supply is 1 inch in diameter, remove the 1.5-inch supply core adapters.
6. Place the supply holder guide back onto the end of the supply holder. If you are using the supply core adapters for 1.5-inch core supply, push the supply core adapters into the ends of the supply.
  7. Insert the ends of the supply holder into the slots in the supply roll mount.



8. Turn the dial to adjust the supply guides to their widest position.

9. For *thermal direct printers*, feed the supply, printing side up, under the supply guides and over the platen roller.



10. Press the supply under the supply guides.
11. Move the supply guides so that they barely touch the edges of the backing paper.
12. Feed the supply through the slot on the back of the knife.
13. Close the cover until it locks in place.

*For thermal transfer printers*, close the cover by lifting the cover slightly and pulling the bottom of the cover support forward towards the front of the printer. Close the cover slowly and make sure it latches securely.

**Note:** If you do not latch the cover completely, poor print quality may result.

14. Press the **FEED** button. The indicator light should be GREEN.
15. Calibrate the supply if necessary. See "Calibrating the Supply," in the *Equipment Manual* for more information.

# Using the Knife

You can use NiceLabel® software to activate the knife or Monarch® Printer Control Language II (MPCLII).

## With NiceLabel® Starter Edition Software

1. Select Label Setup from the File menu.
2. Select **Next>**.
3. Select the printer, for example *Monarch 9416TT2XL 203 dpi* printer. Then, click **Properties...**
4. Select the Advanced tab and set the Cutter option to **Never** or enter the number of **Every** label(s) to cut. If you enter 1, the printer cuts after each label.

The screenshot shows the 'Monarch 9416TT2 XL 203dpi Properties' dialog box with the 'Advanced Setup' tab selected. The 'Cutter' section is the focus, showing the 'Every' option selected with a value of 1. Other options include 'Never', 'Batch cut', 'Advanced\*\*', 'Direct thermal', 'High energy ribbon', 'Thermal transfer', 'On demand', 'Continuous', 'Print adjustment', and 'Margin adjustment'. The 'Cut position' is set to 0.00 inch. There are 'OK' and 'Cancel' buttons at the bottom.

Section	Option	Value	Unit
Paper type	Blackmark	<input type="radio"/>	
	Die cut labels	<input checked="" type="radio"/>	
Print mode	Direct thermal	<input type="radio"/>	
	Thermal transfer	<input checked="" type="radio"/>	
Cutter	Never	<input type="radio"/>	
	Batch cut	<input type="radio"/>	
	Every	<input checked="" type="radio"/>	1 Label(s)
Cut position		0.00	inch
Feed mode	Continuous	<input checked="" type="radio"/>	
	On demand	<input type="radio"/>	
Media Settings	Print adjustment	0.00	inch
	Margin adjustment	0.00	inch

\*\* Only valid for use with Labeling Software

Other

OK Cancel

5. Set the **Cut position** (in inches) if necessary.
6. Click **OK**.
7. Click **Finish**.

## With MPCLII

Set the **cut\_type** option in the Batch Control Field to 1.

### **Defining the Batch Control Field**

The batch header must precede this field. The batch control field defines the print job and applies only to the batch that immediately follows.

**Syntax** **E,feed\_mode,batch\_sep,print\_mult,  
multi\_part, cut\_type,cut\_mult!**

- E1. *E* Batch Control Field.
- E2. *feed\_mode* Feed Mode. Options:
  - 0** Continuous Feed (default)
  - 1** On-demand
- E3. *batch\_sep* Batch Separator. Use **0**.
- E4. *print\_mult* Number of tags with the same image. 0 is the default. Range: **1** to **999**
- E5. *multi\_part* Number of identical parts on one tag. 0 is the default. Range: **1** to **5**
- E6. *cut\_type* Enables or disables the knife:
  - 0** No cut (default)
  - 1** Cuts before, during, and after the last tag.
- E7. *cut\_mult* Number of tags to print before cutting. A cut multiple of one cuts after each tag. The range is 0 to 32,000. 0 is the default. The cut multiple is a multiple of the print quantity. If the cut multiple is three and the print quantity is 16, then five sets of three tags and one set of one tag is produced.

**Example** **E,0,0,0,0,1,0!**

Defines a batch control field. The feed mode is set for continuous and a batch separator is not printed. The print multiple and multi-part supply are set to 0 (not used). The knife cuts before, during and after the last tag in a batch.

**Example** **E,0,0,1,1,3,2!**

Defines a batch control field. The feed mode is set for continuous and a batch separator is not printed. The print multiple and multi-part supply are set to 1. The knife cuts three sets of two tags when the print quantity is 6.

For more information about using MPCLII, refer to the *Packet Reference Manual* on our Web site.

## **Knife Specifications**

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<b>Cut Thickness:</b>	0.28mm (Max.)
<b>Cut Width:</b>	120mm
<b>Label Height:</b>	15mm (Min.)
<b>Cut Interval:</b>	Once per second (Max.)
<b>Life:</b>	500,000 cuts (Max. using supply between 0.06mm-0.12mm thick) 100,000 cuts (Max. using supply 0.28mm thick)
<b>Operating Limits:</b>	23° to 122° F (-5° to 50° C)
<b>Relative Humidity:</b>	10% to 80% (non-condensing)
<b>Storage Limits:</b>	14° to 158° F (-10° to 70° C)
<b>Relative Humidity:</b>	5% to 95% (non-condensing)