MONARCH® 9906 KNIFE INSTRUCTIONS

Use these instructions for the Monarch® 9906 printer equipped with the optional knife. Information in this document supercedes information in previous versions. Check our Web site (www.monarch.com) for any updates.

**CAUTION:** Do **not** place your fingers or any other objects into the knife.

Special Considerations

When using the knife, note the following items:

♦ **Do not use alcohol, solvents, or degreasers to clean the knife.** The knife blades are oil-impregnated; failure to follow the cleaning instructions in this document will damage the blades.

♦ The knife can only be used with non-peel mode.

♦ The knife cannot be used with internal liner take-up.

♦ We do not recommend cutting die cut label supply.

♦ The maximum print speed using the knife is 6.0 inches per second.

♦ The printer recalibrates after errors numbered 700 - 799, except for errors 758, 761, and 764.

Loading Supply

Load supply for non-peel mode. Feed the supply through the knife making sure that at least 0.5 inches is past the knife. For additional supply loading information, refer to the *Quick Reference* or *Operator's Handbook.*
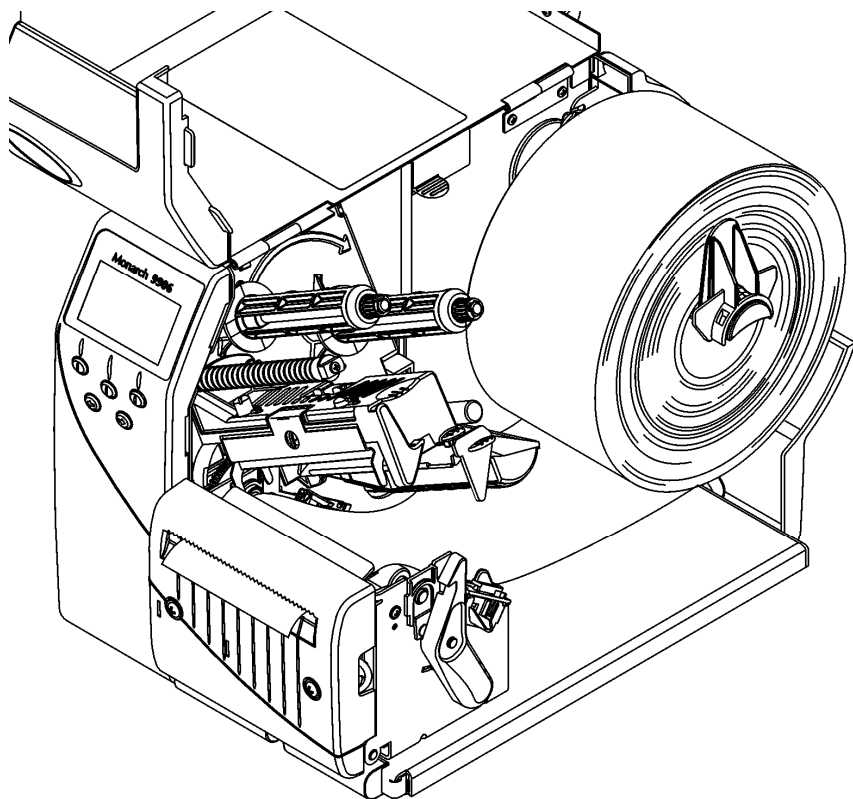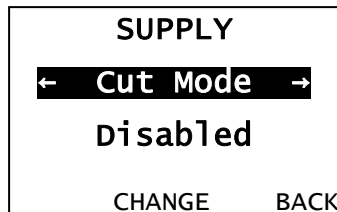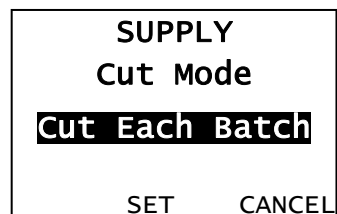
Setting the Knife Operation

The knife has three operating modes; Disabled, Cut Each Tag, and Cut Each Batch. To change the setting, from the Main Menu, select Setup, then Supply. Then, follow these steps.

1. Press ← or → until Cut Mode is on the display.

```
        SUPPLY
←     Cut Mode      →

       Disabled

     CHANGE      BACK
```

1. Press **CHANGE** to highlight the knife operation options. The current setting is shown.

2. Press ← or → to see the options.

```
        SUPPLY
       Cut Mode

    Cut Each Batch

       SET      CANCEL
```

3. When the knife operation setting you want is on the display, press **SET** to save the change. Press **CANCEL** to leave the knife operation unchanged.

4. Press **BACK** until you return to the Home/Online screen.

```
        SUPPLY
←     Cut Mode      →

    Cut Each Batch

     CHANGE      BACK
```
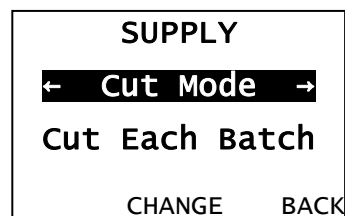
Setting the Cut Position

This function adjusts where the knife cuts the supply. Use this setting to fine tune where the cut is made. Drastic cut position changes could cause supply errors.
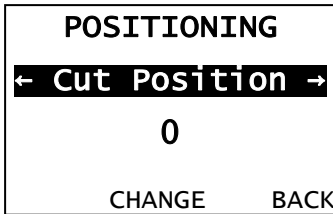
The adjustments are in dots (0.0049 inch).

♦ Increase the number to feed more supply out of the chute.

♦ Decrease the number to feed less supply out of the chute.

This option takes effect when you print the next tag.

To change the cut position setting, from the Main Menu, select Setup, Supply, Positioning.

1. Press ← or → until you see Cut Pos.

```
        POSITIONING
   ← Cut Position →

            0

       CHANGE      BACK
```

2. Press **CHANGE** to highlight the cut position options. The current setting is shown.

3. Press ← or → to increment/decrement the cut position.

```
        POSITIONING
       Cut Position

        [-99/99]  0

  1      SET      CANCEL
```
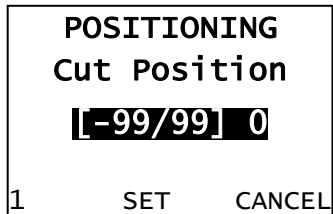
   Note: Pressing the left function button changes the increment/decrement amount (changes by 1, 10, or 100).

5. When you see the cut position you need, press **SET** to save the change. Press **CANCEL** to leave the supply position unchanged.

4. Press **BACK** until you return to the Home/Online screen.

```
        POSITIONING
   ← Cut Position →

            0

       CHANGE      BACK
```
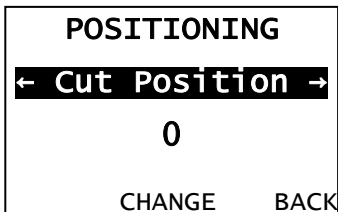
Defining the Batch Control Field

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 (striped label between batches). Options:
0 Does not print a separator (default)
1 Prints a separator
2 Double-length separator- prints 2 tags

Note:　If using non-indexed supply, the batch separator is always six inches long. If using a stacker, the batch separator is always 3.66 inches long.

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. Options:
0 Does not cut (default)
3 Cuts every tag.
5 Cuts in strips, not each tag.

Description of cut mode operation:

Cut Mode	Cut Before first tag in Batch?	Cut Between Tags?	Cut After Batch?
0	No	No	No
3	Yes	Yes	Yes
5	Yes	No (Feeds strips)	Yes

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,0,1,0,0,3,0⌐**

Defines a batch control field. Continuous feed mode is used and a separator prints between batches. The knife cuts after every tag.

Clearing a Knife Jam

If tags are jammed in the knife, the display turns red and you see error 759.

1.　Press **Escape** to clear the error. The knife rotates slightly to dislodge any jammed supply.

2.　Clear the tag path by using needle-nose pliers to pull the jammed tags out of the knife.

Caution:　**Do not** place your fingers near the knife's blade.
Do not use excessive force to remove tags. This may damage the knife.

See "Using Knife Diagnostics" if these steps do not free the jammed supply.
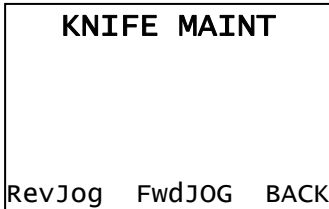
Using Knife Diagnostics

You can use the Knife Diagnostics to move the knife back and forth. You may need to do this when there is a jam or to clean the knife. See "Cleaning the Knife" for more information.

To access knife diagnostics, from the Main Menu select Diagnostics, User Diagnostics, then follow these steps.
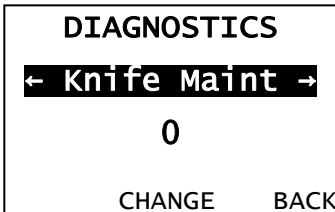
1. Press ← or → until you see Knife.

```
   DIAGNOSTICS
← Knife Maint →



   ENTER      BACK
```
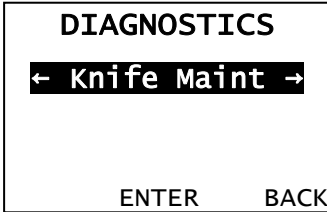
2. Press **CHANGE** to highlight the knife diagnostics options.

3. Press RevJog to move the knife slightly backward, FwdJog to move the knife slightly foward. Any jammed supply should be removed from the knife. Press **BACK** to cut the supply and exit knife diagnostics.

```
  KNIFE MAINT




RevJog  FwdJOG  BACK
```

4. Press **BACK** until you return to the Home/Online screen.

```
   DIAGNOSTICS
← Knife Maint →
      0
   CHANGE     BACK
```

Cleaning the Knife

Clean the knife regularly (approximately every 100,000 cuts) to reduce adhesive build-up.

CAUTION: Do not use alcohol, solvents, or degreasers to clean the knife.

1. Turn off the printer.

2. **Lightly** coat a long cotton swab (with a paper or plastic shaft, a wooden shaft could dull the blade) with WD-40®. Never spray WD-40® directly on the printer or knife.

3. Gently move the cotton swab back and forth along the knife blades until all adhesive is removed. Use the Knife Maintenance menu options to move the blades back and forth so that you can reach different areas with the swab.
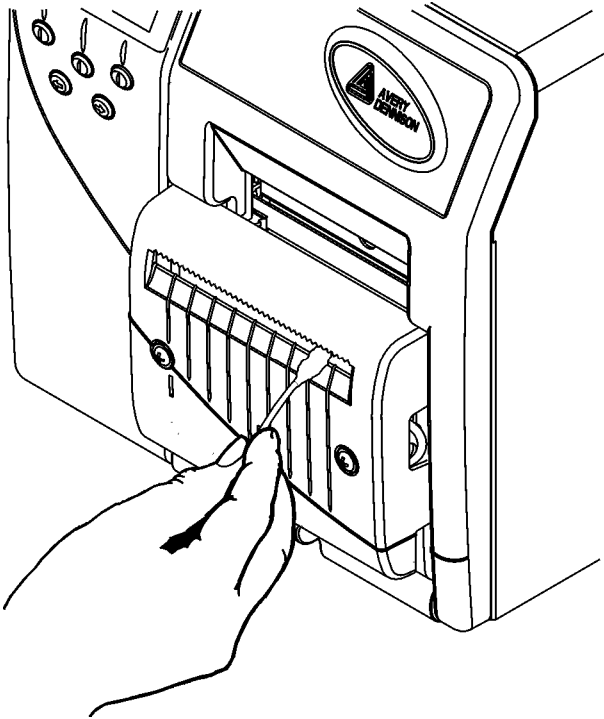
4. Use a dry cotton swab to remove any excess WD-40®.

5. Turn on the printer.

Tag Cut Dimensions

Use these specifications for the knife.

Widths: 0.75 to 4.0 inches (19 mm to 102 mm)

Lengths: 1.2 to 16.0 inches (30 mm to 406 mm)

Max Thickness: 13.5 mils (0.33 mm)

Batch Separator: 3.66 inches (93 mm)

The limited warranty on this knife is one (1) year from the date of shipment, or 300,000 cuts, whichever occurs first.