Quick Installation Guide

Printer Overview

Ribbon Rewind Spindle

*Ribbon Tension Adjustment Knob

Ribbon Supply Spindle

Right Side Cover

Label Spindle

LCD Screen

**Print Head Pressure Adjustment Knob

Media Guide Bar

Print Head Lift Lever

Label Guide

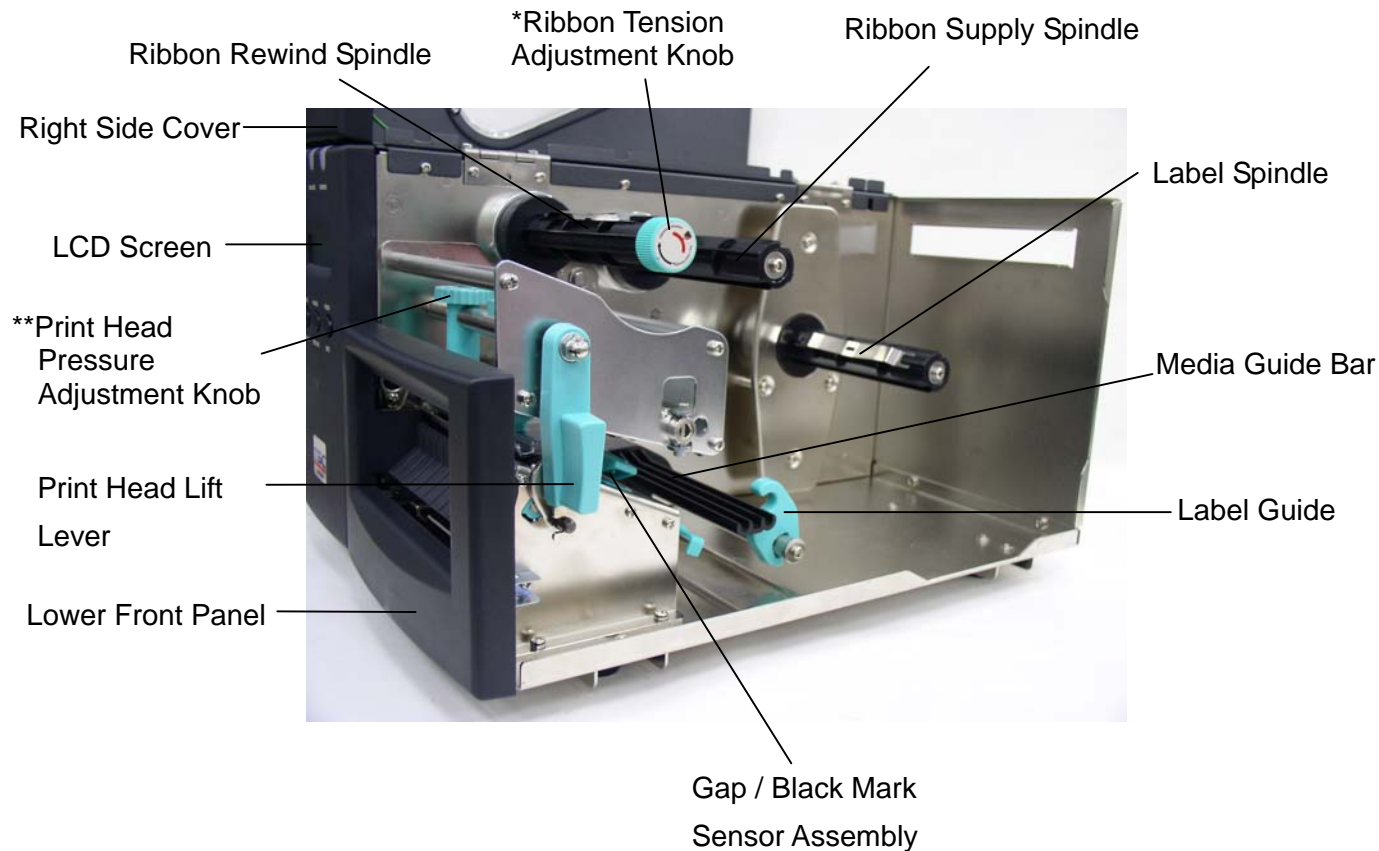Lower Front Panel

Gap / Black Mark Sensor Assembly

Figure 1. Printer Overview

* The **ribbon tension adjustment knob** offers 6 levels of tension to adjust for different widths of ribbon. Turn the ribbon tension knob clockwise and you will hear a light click sound as the gear changes. The level of rewind ribbon is from loose to tight, level 0 to level 5. You will hear a louder click for level 1.

** The **print head pressure adjustment knob** has 5 levels of adjustment. Because the printer's paper alignment is to the left side of mechanism, different media widths require different pressure to print correctly. Therefore it may be necessary to adjust the pressure knob to get your best printout quality. For example, if the label width is 4", adjust both print head pressure adjustment knobs to the same level. If the label is less than 2" wide, increase the left print head pressure adjustment knob and decrease the right side pressure to level 1.

*** The **print head adjustment knobs** are used to fine tune print quality for different thicknesses of media. Turning the knobs adjusts the print head's burn line forward or backward as it relates to the platen roller. *Caution: incorrectly adjusting these knobs can lead to poor print quality and may cause damage to the printer. Proceed with caution.*

The print head burn line default is set for general purpose printing media (plain paper and paper thickness less than 0.20mm). The adjustment knobs default is screwed to the end of thread.

Poor print quality when using paper thicker than 0.20mm may be due to the print head burn line not being at the optimized position. To correct this, increase the head pressure and adjust the knobs counter-clockwise to move print head burn line forward then print again. Continue to adjust and test print as necessary until the image is clear.

Note: The print head moves 0.7 mm for each 360 degree turn.
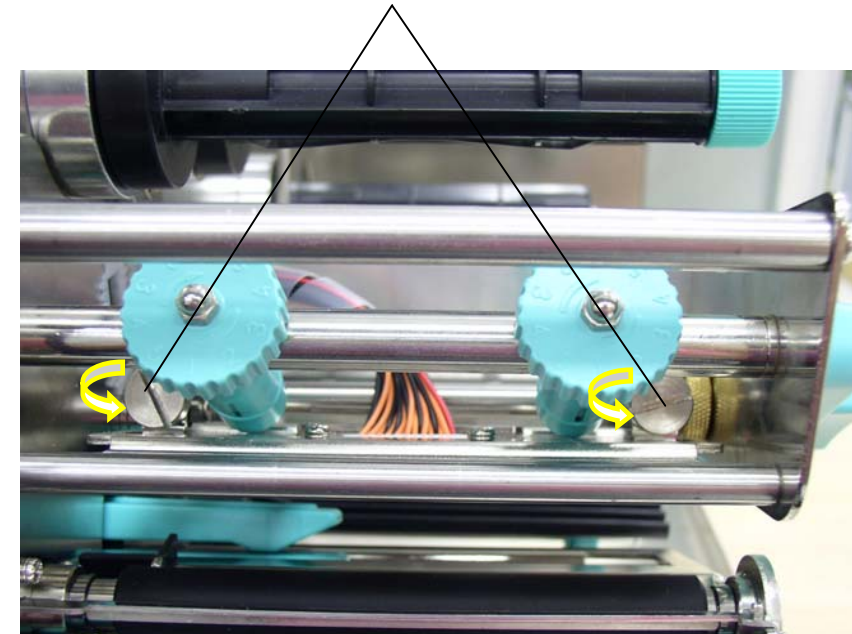
***print head adjustment knobs**

Figure 2. Print head adjustment knobs

Hardware Installation

1. Connect the printer to a computer with a printer cable.
2. Plug the power cord into the power jack at the rear of the printer, then plug the cord into a properly grounded outlet.

3. Open the printer right side media cover.
4. Open the lower front panel.
5. Open the print head lift lever by turning it toward the back of the printer and up.
6. Install the Ribbon:
   □ Place an empty paper core, diameter larger then 33.8 mm, onto the **ribbon rewind spindle toward the front of the printer**.
   □ Place a ribbon on the **ribbon supply spindle** (refer to figure 3)
   □ Feed the ribbon, ink side down, through the frame and up then attach the ribbon leading edge (with a tape) to the empty paper core.
   □ Manually rotate the **ribbon rewind spindle** until it is properly stretched.

   Note: Both coated side out and coated side in ribbons may be used with this printer.

7. Loading labels:
   □ Place the labels onto the label spindle (refer to figure 3).
   □ Feed the label, printing side up, down through the **label guide** and adjust the label guide to fit the width of the label, then buckle it onto the media guide bar.
   □ Feed the label beneath the frame and in between the **gap / black mark sensor assembly** then over the **platen**.
   □ Close the print head lift lever.
   □ Adjust the **print head pressure adjustment knobs** properly according to the label width and thickness.
   □ Close lower front panel and printer cover.
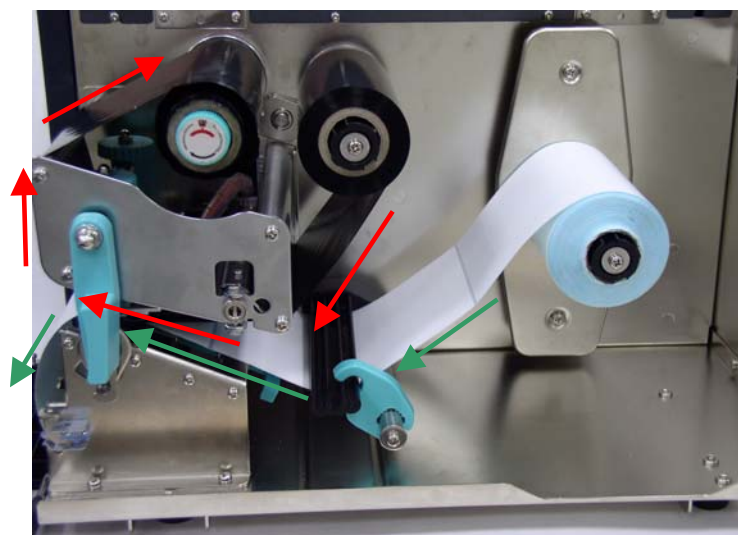   □ Switch on the power. Now, the printer is ready to print.

Figure 3. Loading path for printer media

Power-on Utilities

Make sure the ribbon and label media are installed properly as described above.

1.Gap / Black Sensor Calibration

This utility is used to calibrate the sensitivity of the gap / black mark sensor. The gap / black mark sensor should be calibrated whenever **changing the label media** or **executing printer initialization**. Please follow the steps below to calibrate the gap / black mark sensor.

   □ Press the **MENU** button twice to select **Main Menu / 2.Sensor Calib**.
   □ Press the **EXE/INC** button to execute gap sensor calibration utility.

2.Printer Initialization

Printer Initialization will restore printer settings as default.
Please follow the steps below to initialize the printer:
   □ Turn off the printer power.
   □ Press and hold **PAUSE** and **FEED** button at the same time while turning on the printer's power.   Do not release the buttons until the message **INITIALIZATING** is displayed on the LCD screen.

Self-test

1. Install the ribbon and the label media as above procedures, and close the print head lift lever.
2. Switch on the power, press the **MENU** button five time to select **Main Menu / 5.Printer Test**, then press **EXE/INC** button to execute self-test.
   What does Self-test do?
   ● Print out thermal print head check pattern.
   ● Print the printer current settings.

   ※ **For further information on printer operation, please refer to the User's Manual in software CD disc.**