

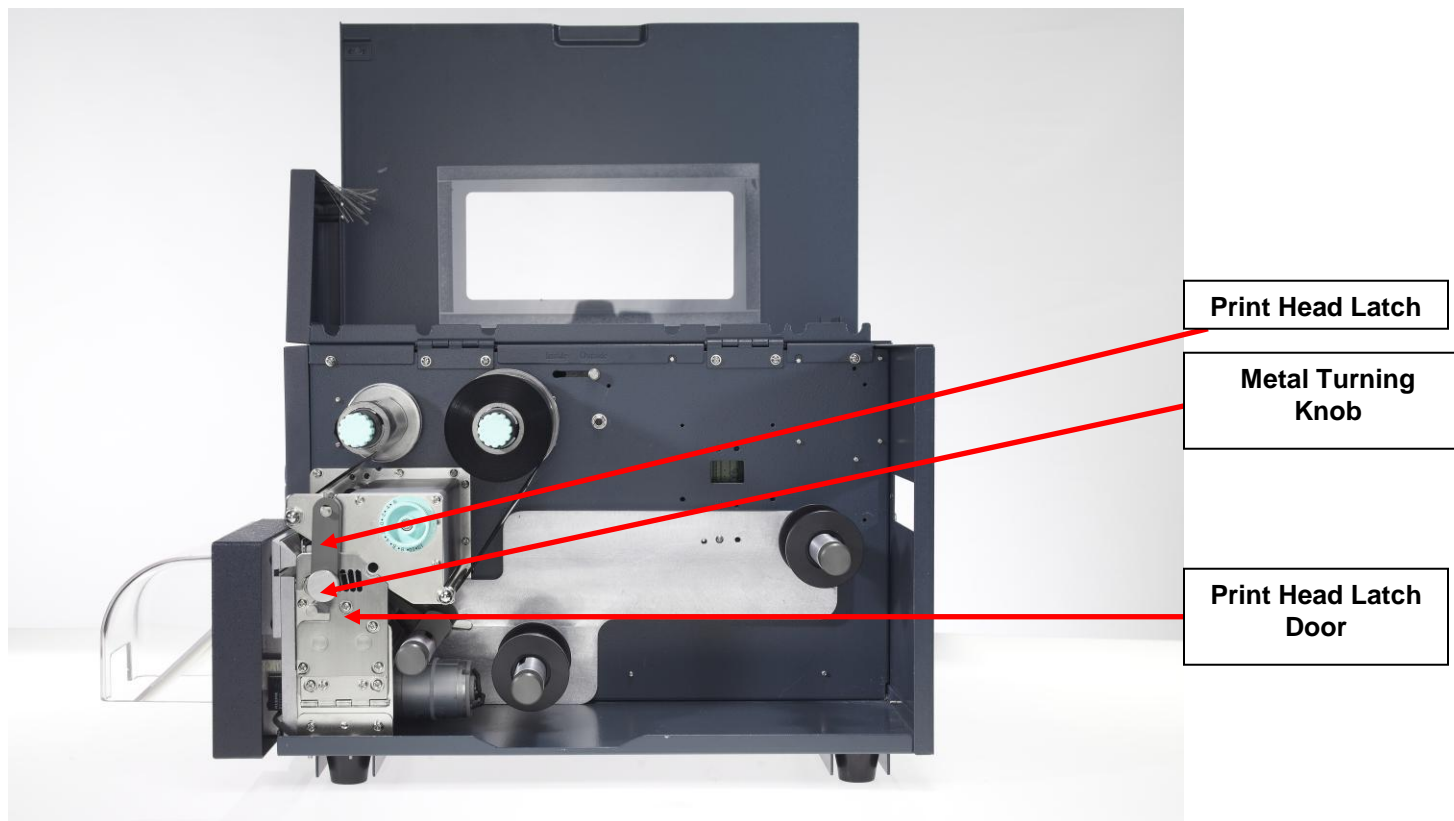
SUMIMARK[®]

SumiMark IV 300 DPI Print Quality Adjustments

This document details the 3 primary methods used to obtain optimal print quality on your SumiMark IV 300 DPI Marking System. Each page highlights a specific adjustment method. Although this document should resolve any print quality related questions, please call Sumitomo Electric Interconnect Products, Inc. at 760.761.0600 ext 258 or 203 if you need further assistance.

Print Head Pressure Adjustment For Ribbon Wrinkle Elimination

Below is a photo of the Print Head Pressure Adjustment mechanism which allows you to increase or decrease print head pressure as needed to improve print quality by eliminating ribbon wrinkle.



This Print Head Pressure Adjustment consists of 3 components:

1. **Print Head Latch.** Raises and lowers print head onto material and platen.
2. **Metal Turn Knob.** Attached to the Print Head Latch and allows 4 levels of print head pressure.
Note – mechanism has a pin facing inside which inserts into holes on Print Head Latch Door by turning knob counterclockwise (for release) and clockwise (for inserting).
3. **Print Head Latch Door** with 4 holes labeled 1, 2, 3, 4. Each number represents increased print head pressure when moving clockwise from #1 to #4.

To increase pressure, move the Print Head Latch clockwise ranging from #1 to #4 or completely shut so Latch is next to extended metal shaft.

To decrease pressure, move the Print Head Latch counterclockwise ranging from the completely shut position to the #1 hole.

In general, the following are the corresponding Print Head Latch Door settings for various SumiMark material sizes:

#1 – 1/16", 3/32" diameter

#2 – 1/8", 3/16", 1/4" diameter

#3 & #4 – may be used with 1/4" diameter material and below if optimal quality isn't achieved with #1 and #2 settings

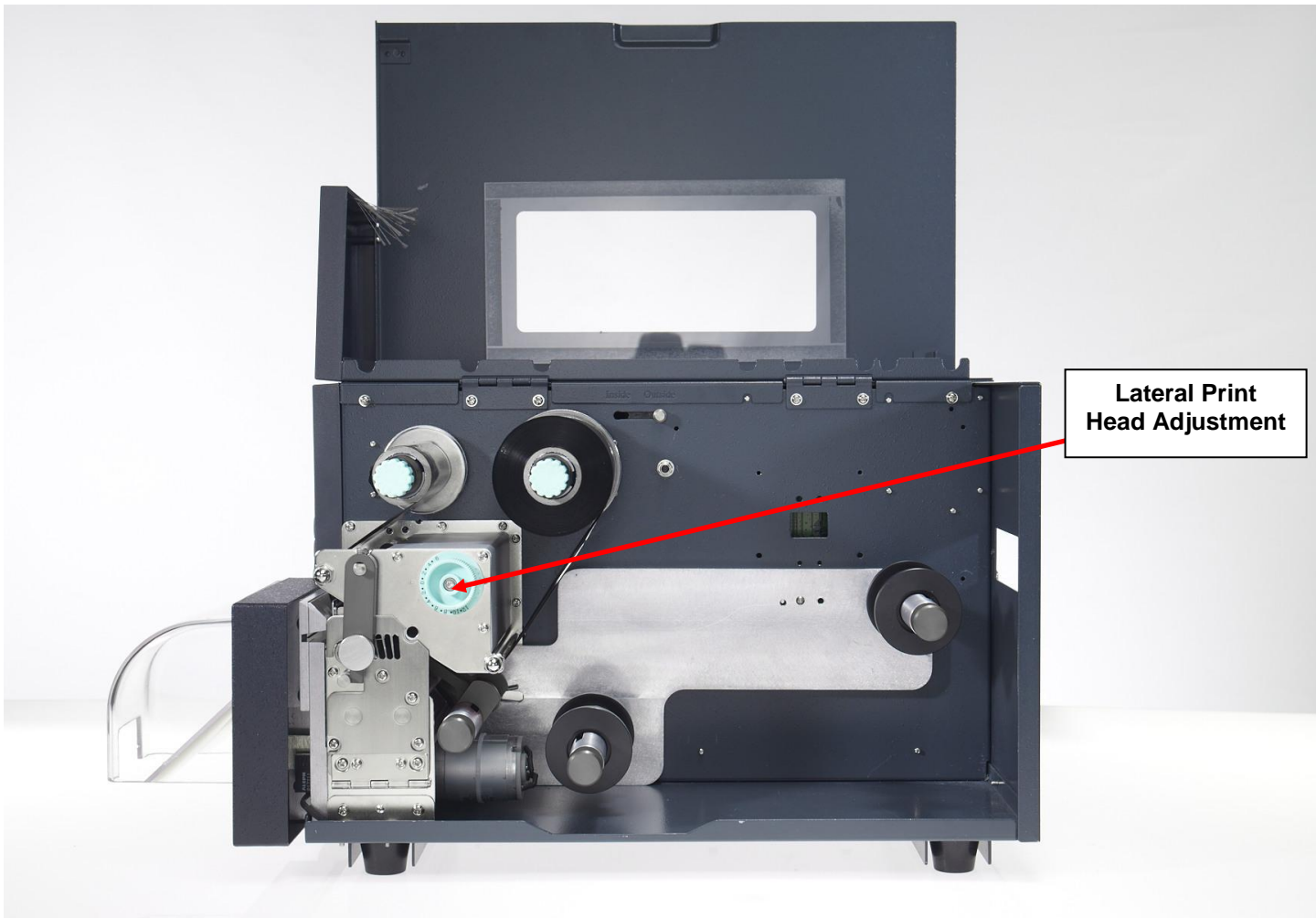
Fully closed – generally, all materials 3/8" and above

Note: When #1 and #2 positions are utilized, the Darkness setting within the SumiMark IV-AIO 300 DPI Printer Driver should be increased to 15. When fully closed the Darkness setting can be decreased to 10. Refer to page 18 within the Basic Instruction Manual for detailed instructions on how to change Darkness.

**Intentionally Blank for Formatting Purposes.
See Pages 3 and 4 for Additional Print Quality Adjustments**

Lateral Print Head Adjustment

Below is a photo of the Lateral Print Head Adjustment. This adjustment affects print quality by tilting the print head laterally. In other words, it applies more pressure to the top or bottom of the material, depending upon the adjustment.



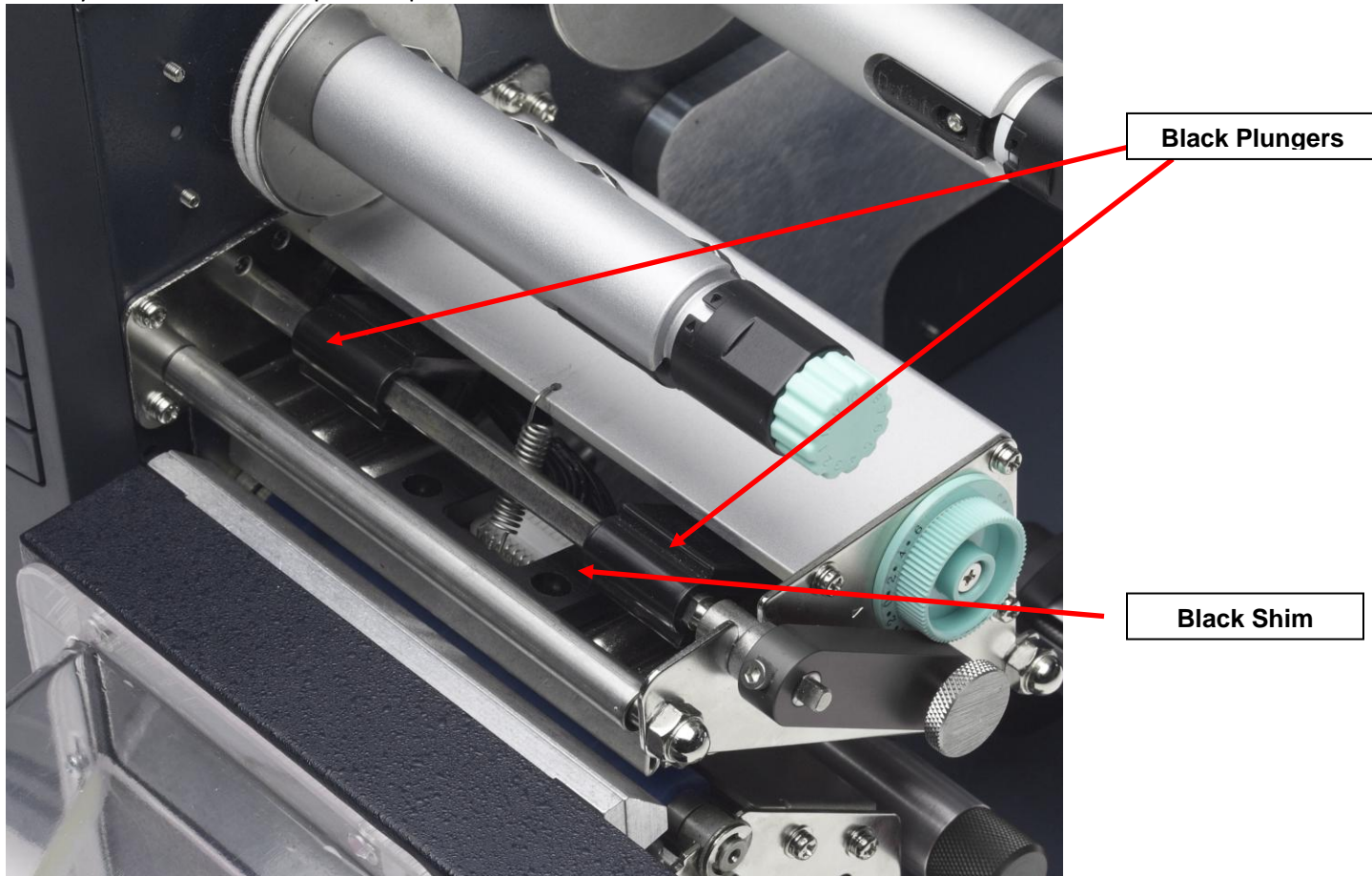
This dial mechanism displays a series of numbers ranging from 6 to 0 to 12. Starting at 0, moving the dial toward the 6 applies more pressure to the bottom of the marker. Conversely, starting at 0, moving the dial toward the 12 applies more pressure to the top of the marker.

In general, this adjustment may be necessary for material widths of 1" and above, or whenever you notice print is light on either top or bottom of marker.

Maximum Print Head Pressure Adjustment

This adjustment may be necessary to obtain best print quality on 1.5" or 2" diameter SumiMark materials. Generally, it is unnecessary to use for any other material sizes.

Below is a photo of the components used to place maximum pressure on the print head. This adjustment is rarely needed but allows for significantly more pressure directly on the entire print head. The components consist of 2 Black Plungers located on the left and right sides of the print head latch shaft, plus a U-shaped Black Shim located directly in the middle on top of the print head.



To utilize this adjustment follow these steps:

1. Open Print Head Latch counterclockwise to fully open print head.
2. Move the Black Plungers inward toward each other until each plunger is located directly over the Black Shim.
3. Lower Print Head Latch to fully closed position.

For further information on how to operate these settings, please contact SumiMark at 800.758.3515.

