

## 4.2 Mechanism Fine Adjustment to Avoid Ribbon Wrinkles

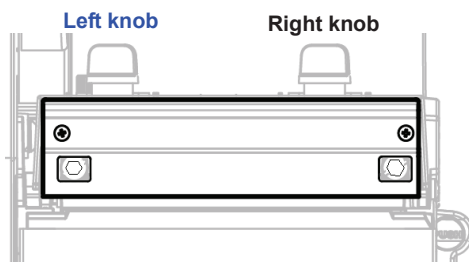
This printer has been fully tested before delivery. There should be no ribbon wrinkle presented on the media for general-purpose printing application. Ribbon wrinkle is related to the media thickness, print head pressure balance, ribbon film characteristics, print darkness setting...etc. In case the ribbon wrinkle happens, please follow the instructions below to adjust the printer parts.

<p><b>Adjustable Printer Parts</b></p>	<p>Print head pressure adjustment knob</p> <p>Z-axis mechanism adjustment knob</p> <p>Ribbon guide plate</p>	
<p><b>Symptom</b></p>	<p>1. Wrinkle happens from label lower left to upper right direction (“ ’ ”)</p>	<p>2. Wrinkle happens from label lower right to upper left direction (“ ` ”)</p>
<p><b>Wrinkle Example</b></p>	<p>Feed direction</p>	

# TTP-2410M Pro/346M Pro/644M Pro TTP-246M Pro/344M Pro Bar Code Printer Service Manual



## Adjust the print head pressure adjustment knob

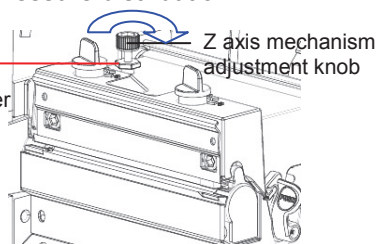


The print head pressure adjustment knob has 5 levels of settings. Clockwise direction adjustment is to increase the print head pressure. Counter Clockwise adjustment can decrease the print head pressure.

If the wrinkle on the label starts from the lower left side to upper right side, please do following adjustment.

1. Decrease the right side print head pressure adjustment knob setting 1 level per each adjustment then print the label again to check if wrinkle is gone.
2. If the right side print head adjustment knob setting has been set to index 1 (the lowest pressure index), please increase the left side print head pressure.
3. If the left side print head adjustment knob setting has been set to 5 (the highest pressure index) the wrinkle can't be avoid, please rotate the both knobs back to setting 1 then rotate the Z-axis mechanism adjustment knob clockwise for a few degrees and print again for fine tune the print head pressure distribution.

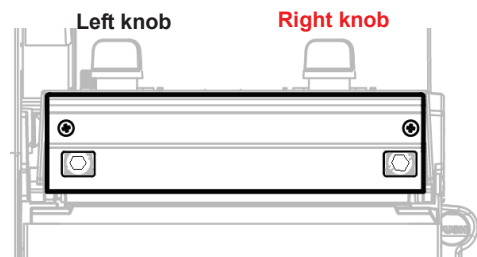
Use the wrench to unlock the bolt and adjust the knob, after the adjustment lock the bolt correctly.



### Note for step 3:

- \*Factory default setting, the Z-axis knob is rotated counter clockwise to the end of thread.
- \*Turn the Z-axis mechanism adjustment knob clockwise until you feel the knob touch the mechanism for the first adjustment.
- \* If the wrinkle is still there, please turn the Z-axis mechanism adjustment knob clockwise about 1/4 circle each time for adjustment
- \* If the wrinkled direction is change from “ ` ” to “ ` ” by adjusting the Z-axis mechanism adjustment knob, please turn the Z axis mechanism adjustment knob counter clockwise to avoid the wrinkle.

## Adjust the print head pressure adjustment knob



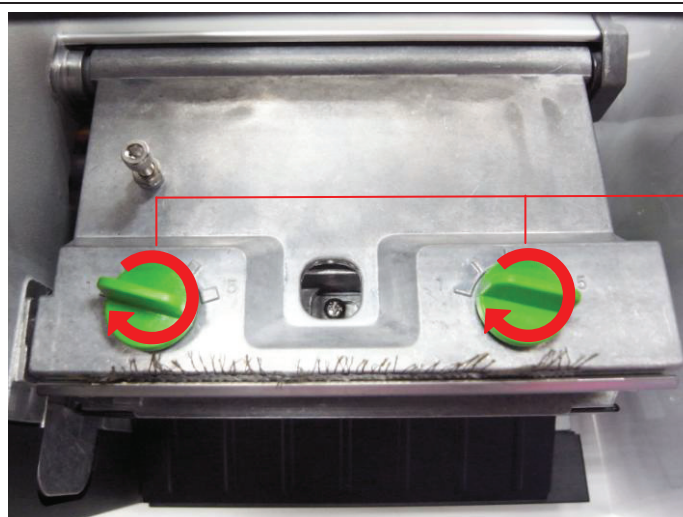
The print head pressure adjustment knob has 5 levels of settings. Clockwise direction adjustment is to increase the print head pressure. Counter Clockwise adjustment can decrease the print head pressure.

If the wrinkle on the label starts from the lower right side to upper left side, please do following adjustment.

1. Decrease the left side print head pressure adjustment knob setting 1 level per each adjustment then print the label again to check if wrinkle is gone.
2. If the left side print head adjustment knob level has been set to index 1 (the lowest index), please increase the right side print head pressure

## 4.3 Adjustment Knob

### 4.3.1 Print head Pressure Adjustment Knob



Print head pressure adjustment knobs

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 require to adjust the pressure knob to get your best print 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 side print head pressure by rotating the adjustment knob clockwise and decrease the right side pressure by rotating the adjustment knob counter-clockwise to level 1.

### 4.3.2 Print Head Burn Line Adjustment Knob



The print head burn line adjustment knobs are used to fine tune the print quality for different thickness 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).

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 improve the print quality, increase the head pressure or adjust the knobs counter-clockwise to move print head burn line toward the paper out direction then print again. Continue to adjust the burn line position and test print as necessary until the printout image is clear.