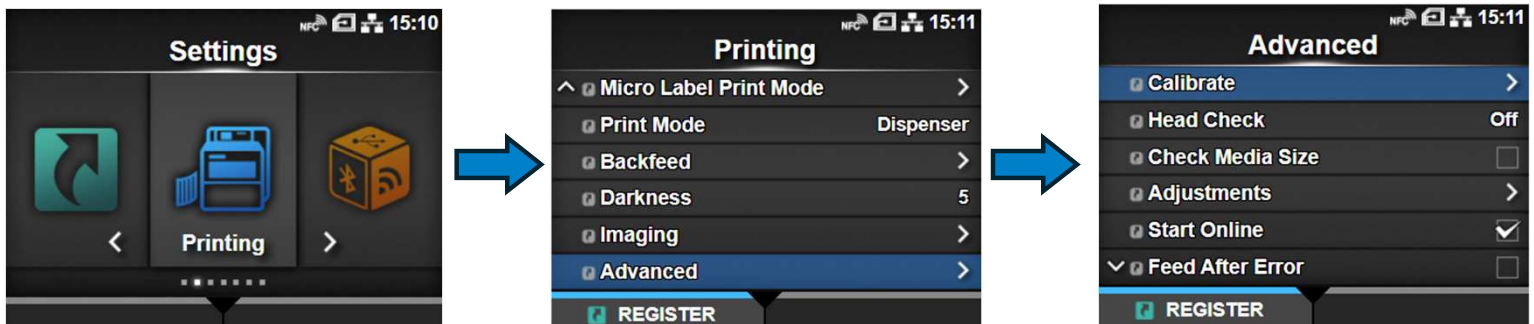


TT-008 Manual Calibration

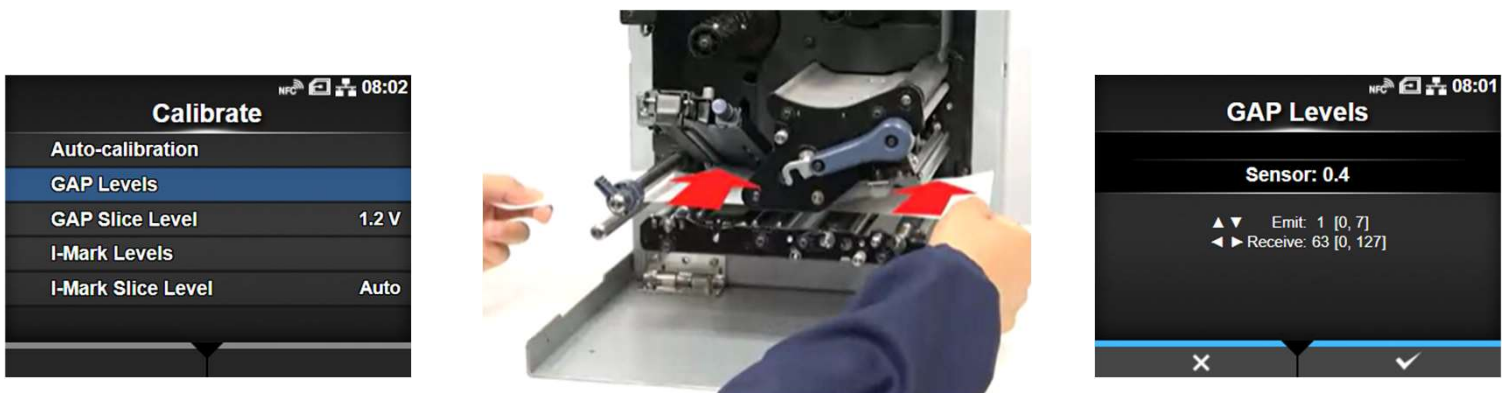
S84NX/S86NX





Manual – Calibration if Auto-Calibrate is not working, you can manually calibrate the media sensor. We will capture a “Low” level voltage (without a label) and a “High” level voltage (with a label) to calculate the value to set our GAP Slice Level

1. With the Printer Offline, go to Settings → Printing → Advanced → Calibrate




2. Select [GAP Levels] or [I-Mark Levels] depending on what you are using so we can monitor the value of the sensor reading. Then perform the following steps to load media and capture the **“Low” level voltage (without a label)**.
 - a. Open the Front Cover of the printer, unlock the headlock lever and the media sensor latch so you can manually feed/adjust the media.
 - b. Remove a few labels and position the media so that the liner is positioned over the sensor.
 - c. Close the media sensor latch and the headlock lever. Be sure the media is run all the way through both ends and is locked in, laying flat like it would be in normal production.

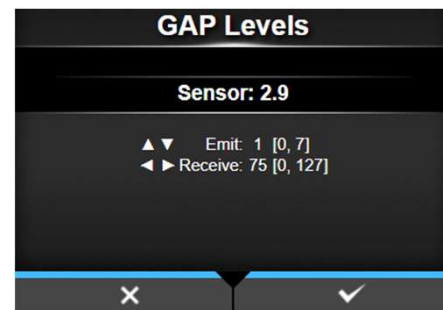





3. Use the   buttons to change the [Emit] value until the sensor value is 0.4 (V)
4. If you are not able to increase/decrease the sensor value to 0.4 (V), use the   to change the [Receive] value.
5. Make note that we have completed setting our **“Low” Voltage at 0.4 (V)**

TT-008 Manual Calibration

S84NX/S86NX

- Now we want to check the **“High” level voltage** by following a similar procedure but this time positioning the media **WITH a label** over the sensor. Be sure to align it so that no I-mark or markings are detected by the sensor.
- The goal is to see the Sensor Value increase by at least 1.0 (V) compared to the “Low” level value (0.4). If the difference between “High” and “Low” levels is less than 1.0, you will want to go back and adjust the “Low” level value until you are getting a difference greater than 1.0.
 - “Low” Level Value should be ≤ 0.5 (V) [Without Label]
 - “High” Level Value should be $\geq \text{“Low”} + 1.0$ (V) [With Label]
- Once you have “High” and “Low” values in compliance press  to confirm the value.



- Calculate the GAP Slice Level $\rightarrow (\text{“High”} - \text{“Low”}) \times 0.3 + \text{“Low”} = \text{Slice Level}$
 - It may be easier to remember $(\text{“High”} + \text{“Low”}) / 2 = \text{Slice Level}$ and this will work fine too. This is just taking the average of the two values.*
- Back at the [Calibrate] menu, select “GAP Slice Level”
- Use the   buttons to change the [Slice Level] to the value calculated above.
- Press the  button to confirm the value. Manual Calibration is complete

