

Industrial Barcode Printer

MX241P Series

Thermal Transfer • Direct Thermal

Series Models

MX241P / MX341P / MX641P



User Manual

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1. Introduction

Thank you very much for purchasing TSC bar code printer.

The new high performance MX241P Series was designed to deliver 24x7 high volume performance. It features a die-cast aluminum print mechanism housed in a very strong yet lightweight cabinet. This new design results in a more durable printer that is suited for your most heavy-duty demand cycles.

There are three models available with the MX241P Series. The MX241P prints at 203 dpi at speeds up to an amazing 18 inches per second, MX341 offers higher 300 dpi resolution at speeds up to 14 inches per second, and the MX641 features 600 dpi high resolution which makes it ideal for printing very small 2D barcodes, graphics, fine print and other ultra-high-resolution images.

This document provides an easy reference for operating the MX241P series. TSC printers include the Windows labeling software for creating your label template. For system integration, the TSPL/TSPL2 printer programming manual or SDKs can be found on TSC website at <http://www.tscprinters.com>.

Applications

- Work in Process
- Product Marking
- Compliance Labeling
- Industrial-Duty Printing
- Packing
- Order Fulfillment
- Shipping/Receiving
- Inventory Management Retail
- Product Label
- Event Ticketing

1.1 Product Specification

Printer model	MX241P	MX341P	MX641P
Resolution	8 dots/mm (203 DPI)	12 dots/mm (300 DPI)	24 dots/mm (600 DPI)
Printing method	Thermal transfer and direct thermal		
Print speed	457mm (18")/second	356 mm (14")/second	152 mm (6")/second
Max. print width	104 mm (4.09")		
Max. print length	25,400 mm (1000")	11,430 mm (450")	2540 mm (100")
Enclosure	Die-cast print mechanism with large clear media view window		
Physical dimension	300 mm (W) x 393 mm (H) x 510 mm (D) 11.81" (W) x 15.47" (H) x 20.08" (D)		
Weight	18 kg (39.68 lbs.)		
Label roll capacity	203.2 mm (8") O.D.		
Ribbon	600 meter long, max. OD 90 mm, 1" core (ink coated outside/inside)		
Ribbon width	25.4 ~ 114.3 mm (1"~4.5")		
Processor	32-bit RISC CPU		
Memory	■ 512 MB Flash memory ■ 512 MB SDRAM ■ microSD Flash memory card reader for Flash memory expansion, up to 32 GB		
Interface	■ RS-232 ■ USB 2.0 ■ Internal Ethernet, 10/100 Mbps		

	■ USB host *2 (Front side), for scanner or PC keyboard ■ GPIO + Centronics (dealer option) ■ Internal Bluetooth MFi 5.0 (factory option) ■ 802.11 a/b/g/n/ac Wi-Fi + BT combo module (user option)
Power	■ Internal universal switching power supply ■ • Input: AC 100-240V, 4-2A, 50-60Hz ■ • Output: DC 5V, 5A; DC 24V, 7A; DC 36V, 1.4A; Total 243W
LCD	■ 16 bits Color, 480 x 272 pixel, with back light, Resistive Touch Screen
Operation switch, button Select	1 power switch, 6 operation buttons (Menu, Pause, Feed, Up, Down, Select)
Sensors	■ Gap transmissive sensor (position adjustable) ■ Black mark reflective sensor (Bottom or Top black mark sensor switchable and position adjustable) ■ Ribbon end sensor (transmissive) ■ Head open sensor ■ Ribbon end sensor ■ Ribbon encode sensor ■ Media capacity sensor
Real time clock	Standard
Internal font	■ 8 alpha-numeric bitmap fonts ■ One Monotype Imaging® CG Triumvirate Bold Condensed scalable font ■ Built-in Monotype True Type Font engine
Bar code	1D bar code Code 39, Code 93, Code128UCC, Code128 subsets A.B.C, Codabar, Interleave 2 of 5, EAN-8, EAN-13, EAN-128, UPC-A, UPC-E, EAN and UPC 2(5) digits add-on, MSI, PLESSEY, POSTNET, RSS-Stacked, GS1 DataBar, Code 11, China Post 2D bar code PDF-417, Maxicode, DataMatrix, QR code, Aztec, rMQR code
Font & bar code rotation	0, 90, 180, 270 degree

Printer language	TSPL-EZD (Compatible to EPL, ZPL, ZPL II, DPL)		
Media type	Continuous, die-cut, black mark (Bottom side or top side black mark), fan-fold, notch, perforated tag		
Media width	20 mm ~ 114 mm (0.78" ~ 4.49")		
Media thickness	0.076 ~ 0.305 mm (2.99 ~ 12.01 mil)		
Media core diameter	76.2 mm (3")		
Label length	3 ~ 25,400 mm (0.1" ~ 1,000") ,	3 ~ 11,430 mm (0.1" ~ 450"),	3 ~ 2,540 mm (0.1" ~ 100")
Environment condition	Operation: 0~ 40°C (32 ~ 104°F), 25~85% non-condensing Storage: -40 ~ 60 °C (-40 ~ 140°F), 10~90% non-condensing		
Safety regulation	BIS 、 CB 、 CCC 、 CE Class B 、 EAC 、 FCC Class B 、 KC 、 TUV 、 UL 、 cUL 、 C-Tick Class B 、 Energy Star		
Environmental concern	Comply with RoHS, WEEE		
Accessories	■ Quick start guide ■ USB port cable ■ Power cord		
Factory option	■ Internal full rewinding kit (Max. 8" OD) ■ Internal Bluetooth 5.0 MFi		
Dealer option	■ Peel off module assembly ■ Regular guillotine cutter ■ Rotary heavy-duty cutter ■ GPIO (DB15F)+ Parallel interface		
User option	■ KP-200 Plus keyboard display unit ■ 802.11 a/b/g/n/ac Wi-Fi + BT combo module ■ Universal cutter tray		

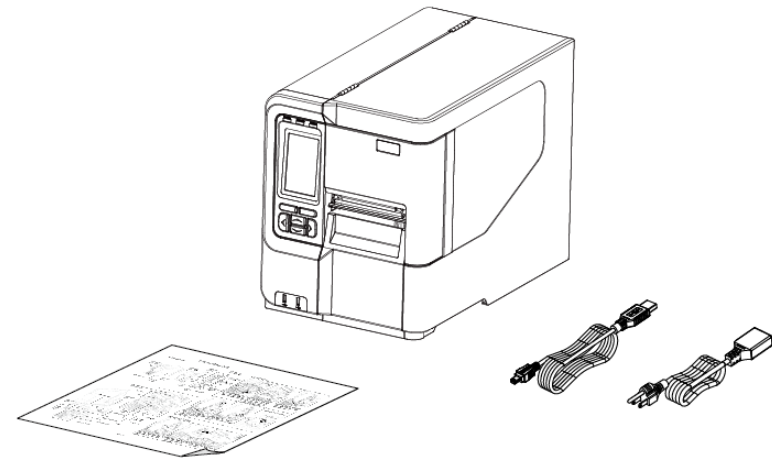
2. Operation Overview

2.1 Unpacking and Inspection

This printer has been specially packaged to withstand damage during shipping. Please carefully inspect the packaging and printer upon receiving the bar code printer. Please retain the packaging materials in case you need to reship the printer.

Unpacking the printer, the following items are included in the carton.

- 1 Printer unit
- 1 Quick installation guide
- 1 Power cord
- 1 USB interface cable



If any parts are missing, please contact the Customer Service Department of your purchased reseller or distributor.

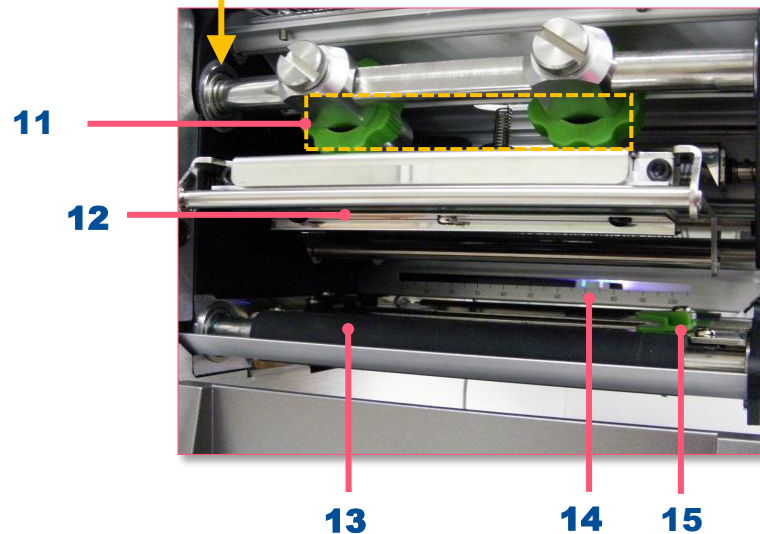
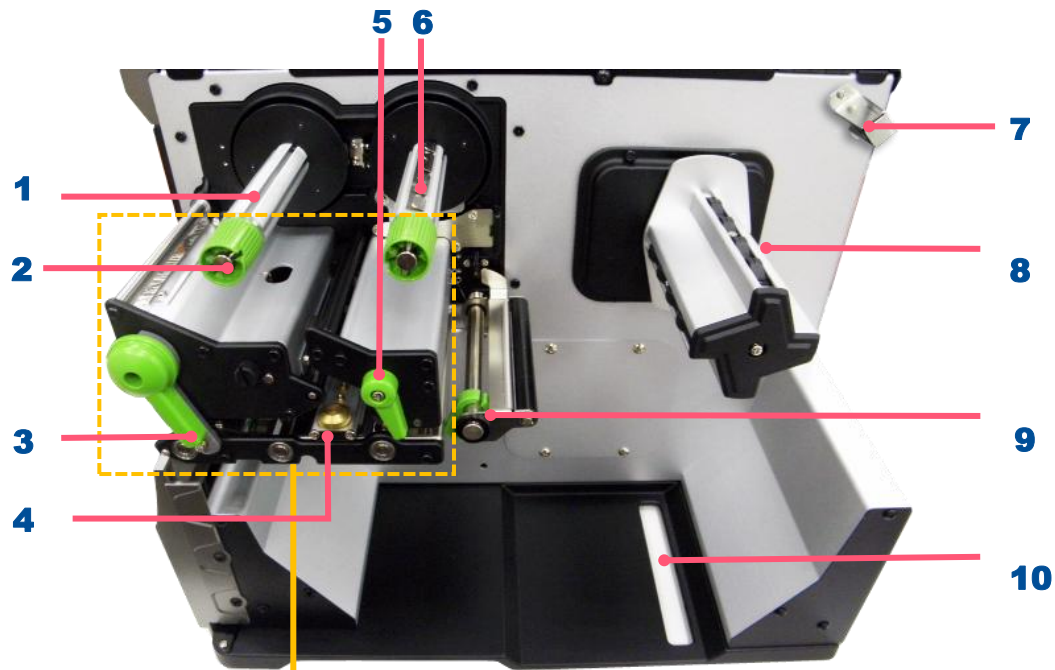
2.2 Printer Overview

2.2.1 Front View



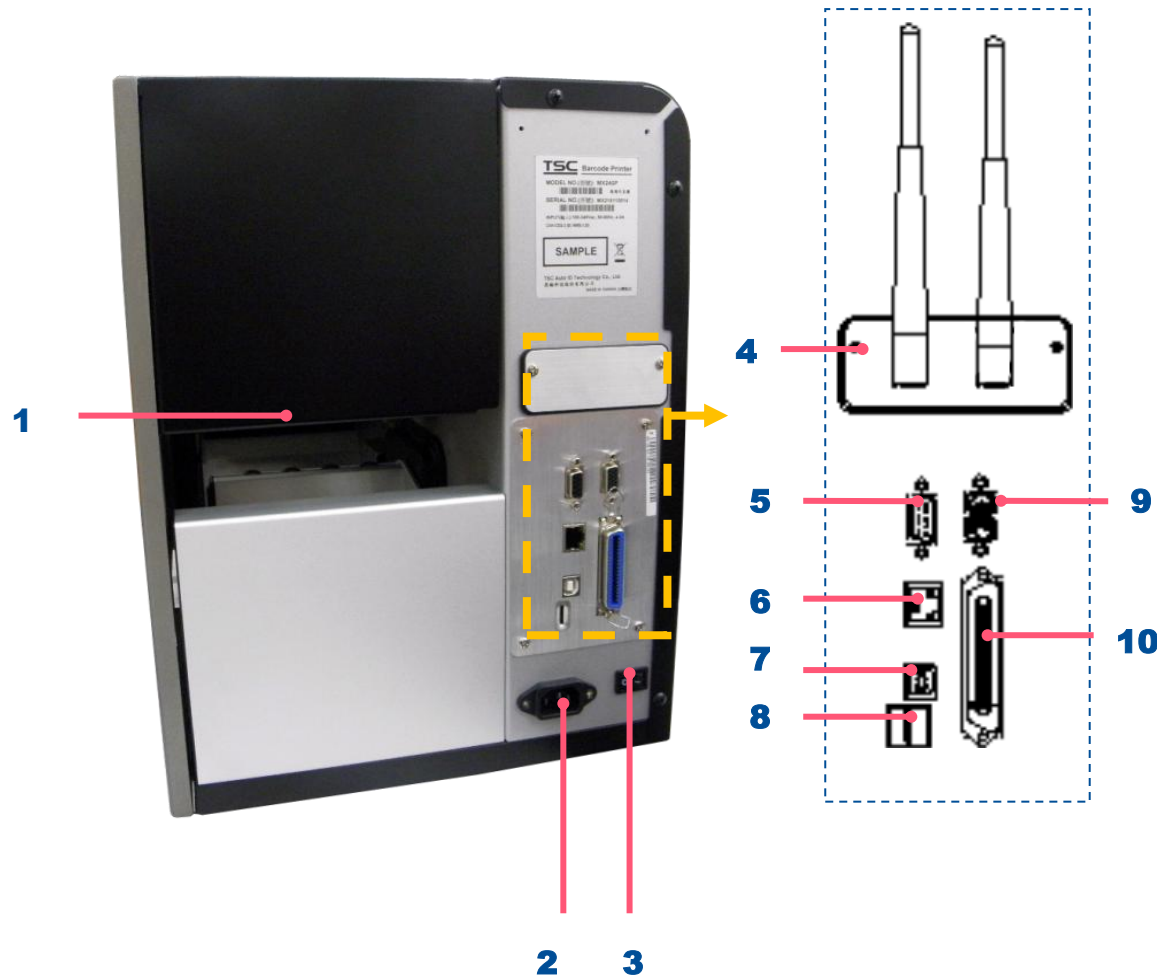
- 1. LED indicators
- 2. LCD display
- 3. Front panel buttons
- 4. USB host x 2
- 5. Media view window
- 6. Paper exit chute
- 7. Media cover

2.2.2 Interior View



- 1. Ribbon rewind spindle
- 2. Ribbon rewind tension adjustment knobs
- 3. Print head release lever
- 4. Media sensor position adjustment knob
- 5. Label guide bar release lever
- 6. Ribbon supply spindle
- 7. Media capacity sensor
- 8. Label supply spindle
- 9. Rear label guide
- 10. External label entrance chute
- 11. Print head pressure adjustment knobs
- 12. Print head
- 13. Platen roller
- 14. Media sensor (Black mark :Blue ; Gap: White)
- 15. Front label guide

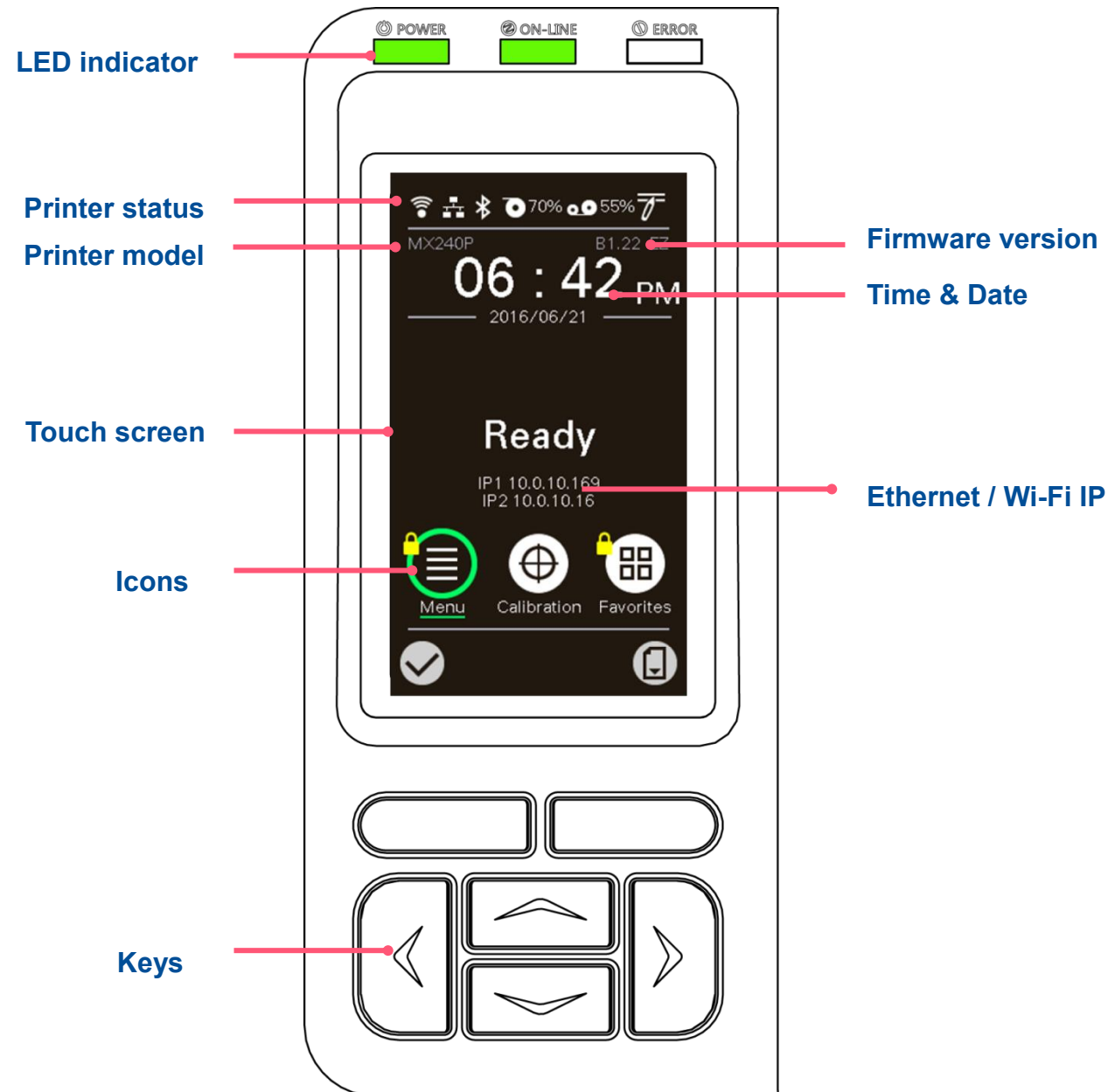
2.2.3 Rear View



1. External label entrance chute
2. Power cord socket
3. Power switch
4. Slot-in Wi-Fi module (Option)
5. RS-232C interface
6. Ethernet interface
7. USB interface
8. Micro SD card socket
9. GPIO interface (Option)
10. Centronics interface (Option)

Note:
The interface picture here is for reference only. Please refer to the product specification for the interfaces availability.

2.3 Operator Control

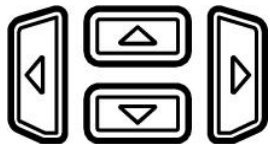


2.3.1 LED Indication and Keypads

LED indication:

LED	Status	Indication
 POWER	Off	Printer power off
	On	Printer power on
 ON-LINE	On	Printer is ready
	Blinking	Printer is paused
		Printer is downloading data
 ERROR	Off	Printer is ready
	On	Carriage open or cutter error
	Blinking	No paper, paper jam or no ribbon

Keypads:

Keypads form	Item name	Function
	Select keys	Feed, Pause, Confirm, Cancel.
	Navigational keys	Select / Navigate.

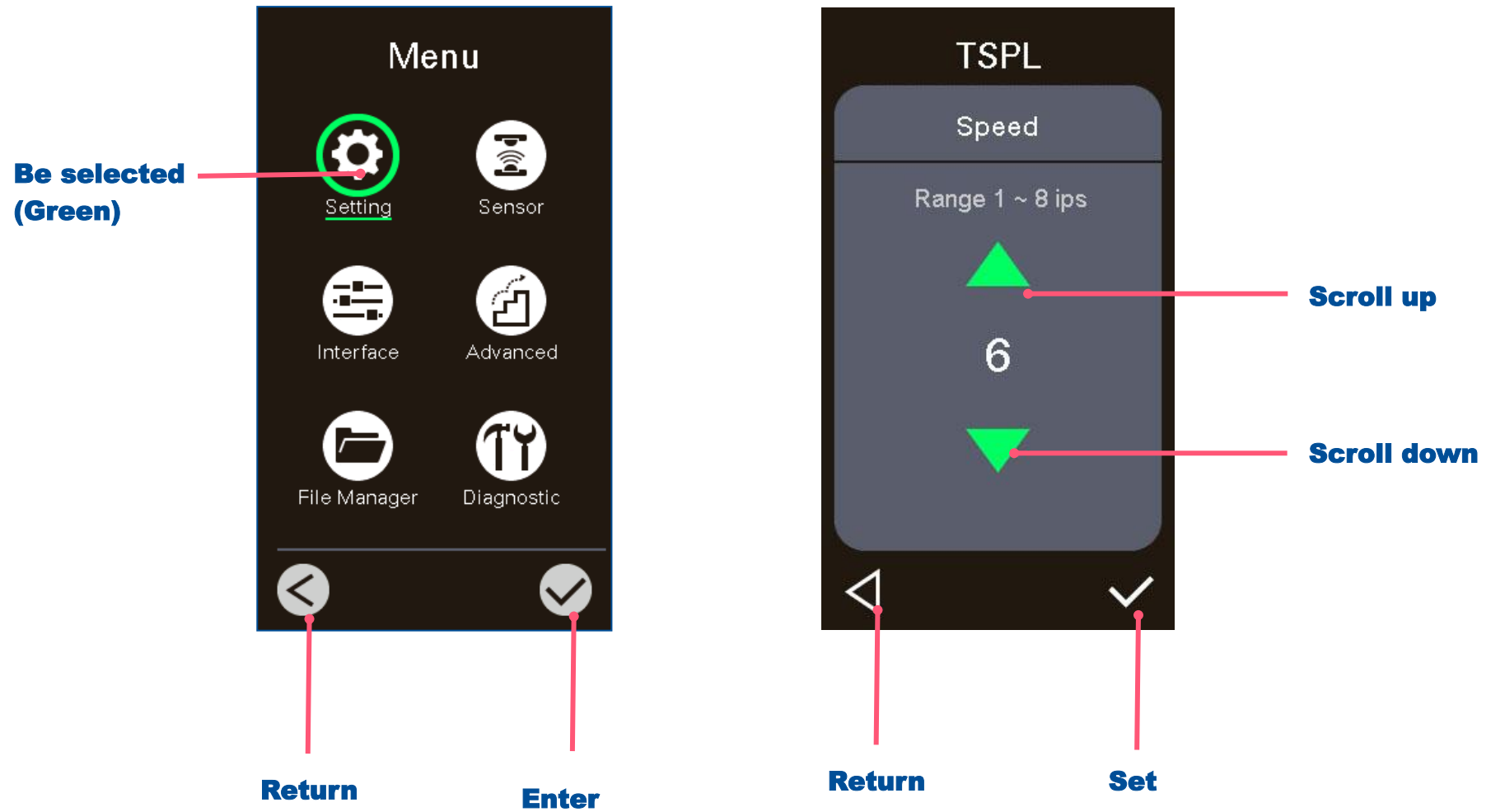
LCD/LED Icon Indication:

Main Page Icon

Icon	Indication
	Wi-Fi device is ready (option).
	Ethernet is connected.
	Bluetooth device is ready (option).
	Remaining amount of ribbon(m).
	Security lock.
	TPH cleaning.
	Enter the menu.
	Calibrate the media sensor.
	Enter the "Favorites" option.
	Enter cursor (be marked in green) located option.
	Feed button (advance one label).

2.3.2 Touch Screen Manipulation

Tap an item to open/use it.



3. Setup

3.1 Setting up the printer

1. Place the printer on flat surface.
2. Make sure the printer is power off.
3. Connect the printer to the computer with the provided USB cable.
4. Plug in the power cord.

◆ **Note: Please switch OFF the printer before plugging in the power cord to printer power jack.**



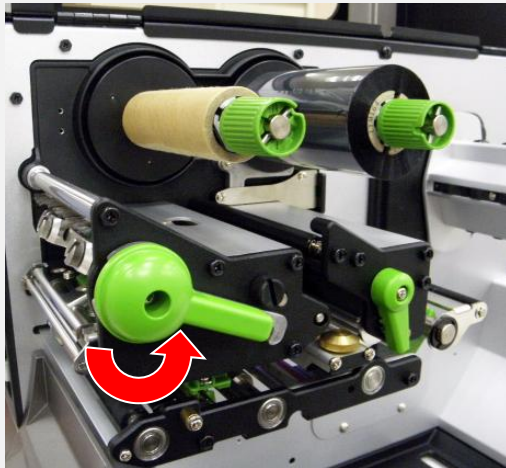
3.2 Loading the Ribbon



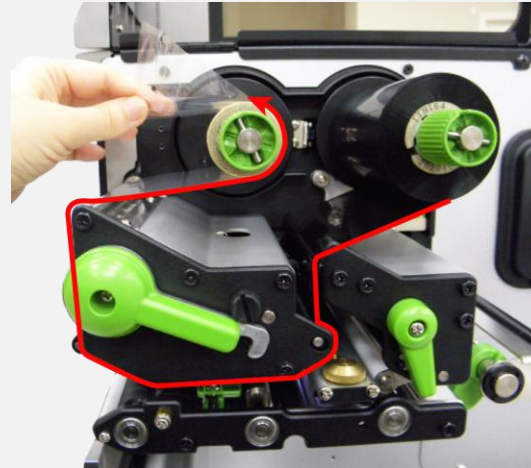
1. Open the media cover.



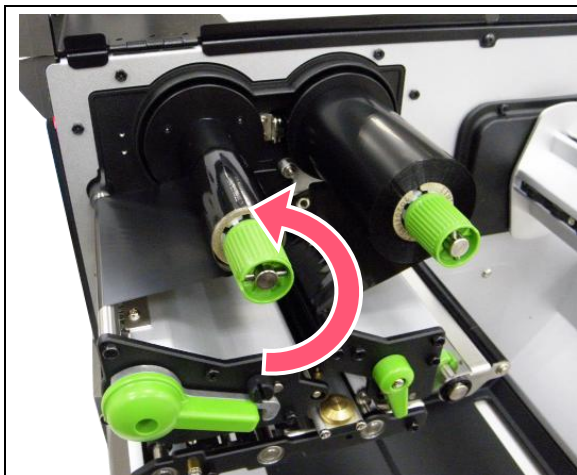
2. Install ribbon on the ribbon supply spindle and paper core on the ribbon rewind spindle.



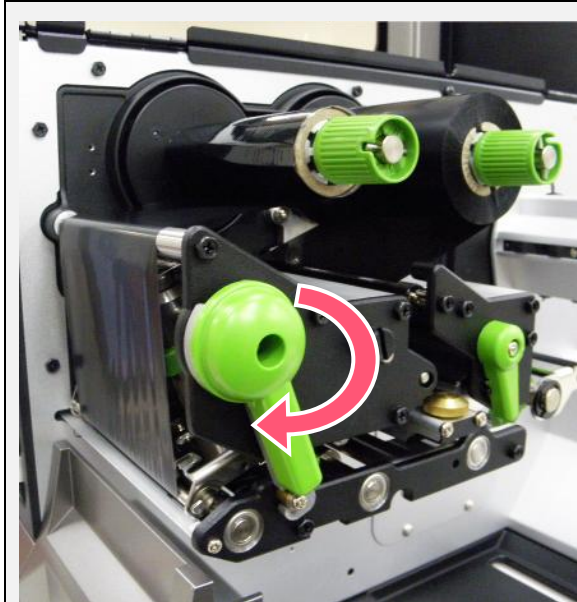
3. Release the lever.



4. Thread ribbon below the ribbon guide bar through ribbon sensor slot.



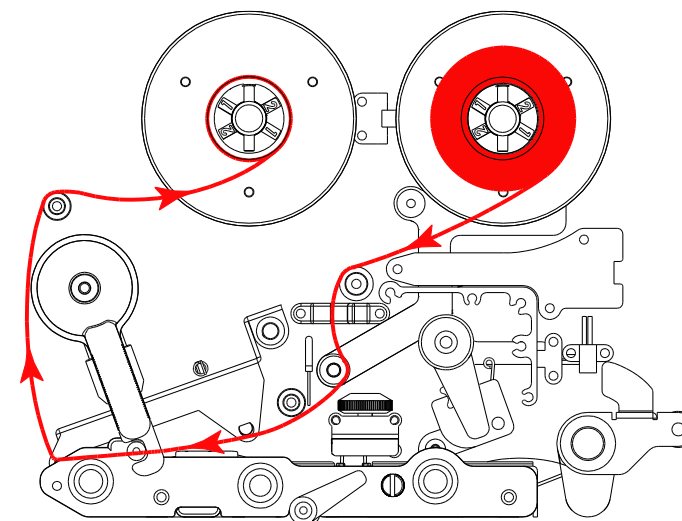
- 5.** Wind the ribbon rewind spindle counterclockwise until the ribbon is smooth, properly stretched and wrinkle-free.



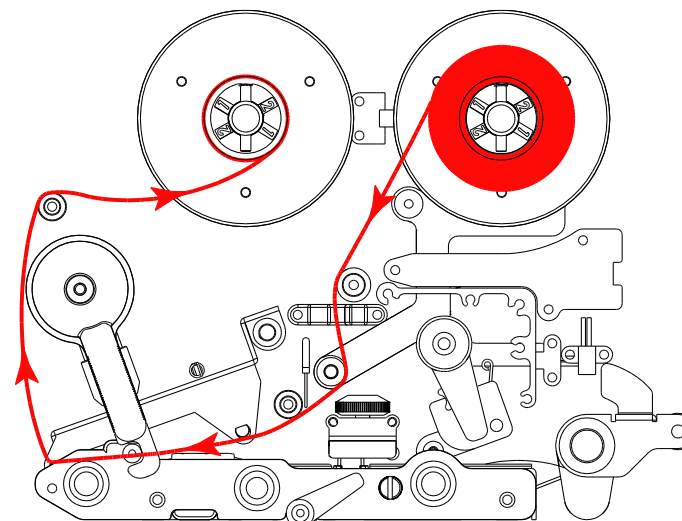
- 6.** Close the print head mechanism and the lever.

Ribbon Loading Path

* Ink coated outside wound



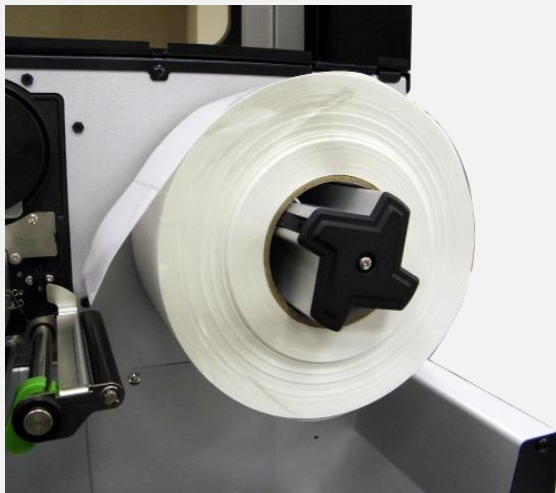
* Ink coated inside wound



3.3 Loading the Media



1. Open the media cover.

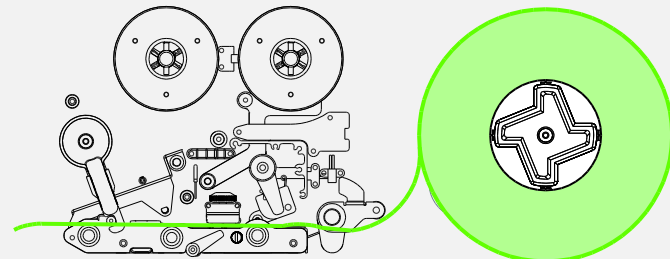


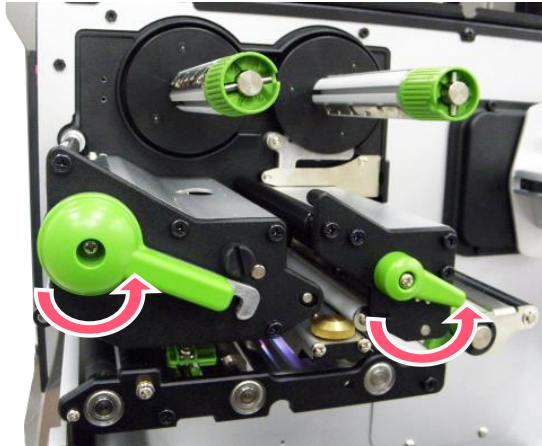
2. Install the media and use label guard to make it fixed.

**For 1"~2.5" width media,
please install label roll
guard on the supply
spindle to fix media.**



Loading path for media

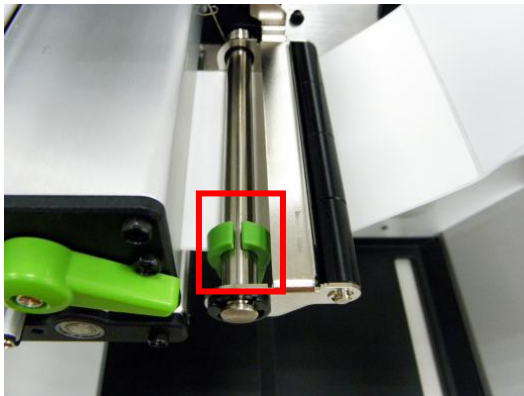




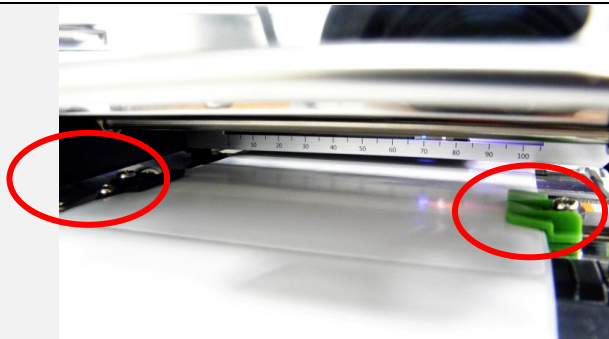
- 3.** open the print head release lever and label guide bar release lever for loading media.



- 4.** Thread the leading edge of the label forward through the media guide bar pass media sensor, and place the leading edge onto the platen roller.



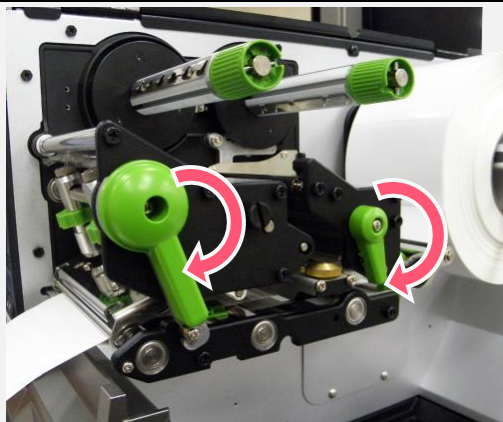
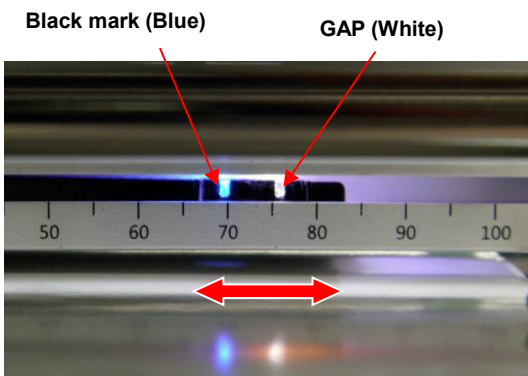
- 5.** Adjust the rear label guide to fit the label width.



- 6.** Adjust the front label guide (green) to fit the label width.



- 7.** Move the media sensor by adjusting the media sensor position adjustment knob, make sure the gap or black mark sensor is at the location where media gap/black mark will pass through for sensing.



- 8.** Close print head release lever and label guide bar release lever.
- 9.** Set media sensor type and make calibration.

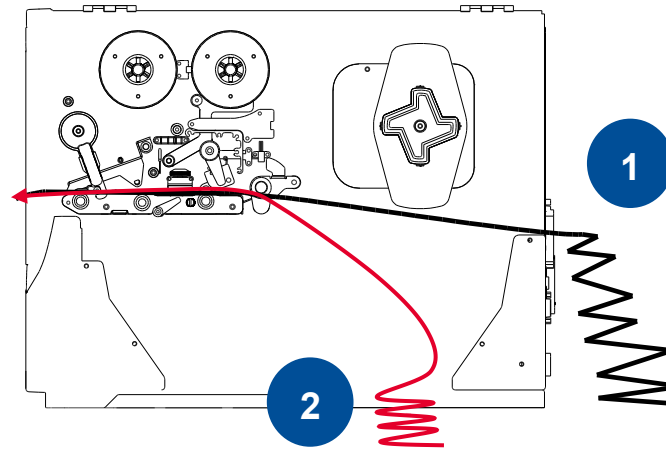
3.4 Loading the Fanfold/External Media



1. Open the media cover.
2. Insert the fanfold media through the rear external label entrance chute.
3. Refer 3.3 to load the media.

Note: Please calibrate the gap/black mark sensor when changing media.

Loading paths for fan-fold labels



3.5 Loading Media in Peel-off Mode (Option)



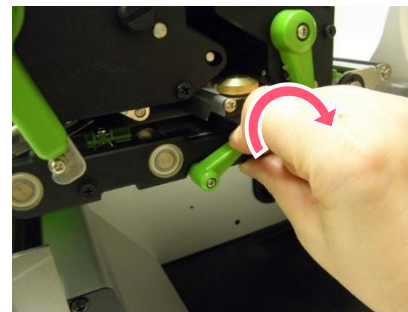
1. Open the media cover.



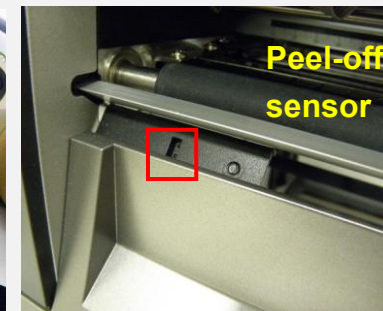
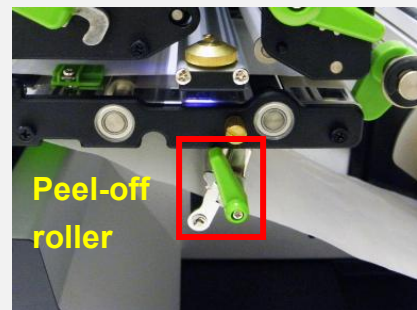
2. Open print head release lever and label guide bar release lever, then pull approximately 650mm of label through the front of the printer.
3. Remove several labels to leave liner.



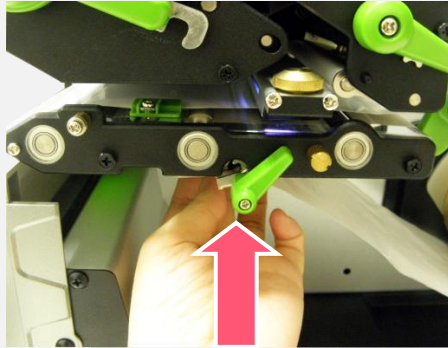
- 4.** Install the paper core onto the liner rewind spindle then open the peel-off roller release lever.



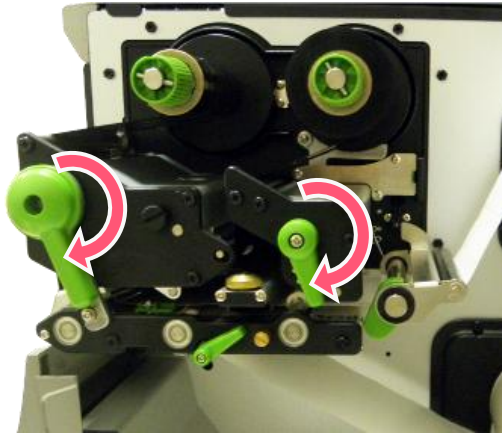
- 5.** Feed the leading edge of liner through the peel-off sensor and peel-off roller.



- 6.** Wrap the liner onto the paper core and wind the spindle until the liner stretched properly.



- 7.** Press the middle of the peel-off roller to close the peel-off roller release lever.



- 8.** Close print head release lever and label guide bar release lever.



- 9.** Press the FEED button to test.

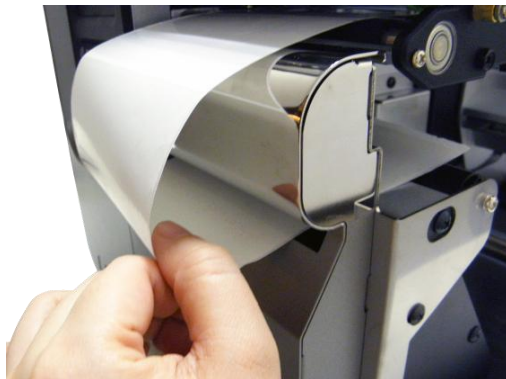
3.6 Loading Media in Rewinder Mode (Option)



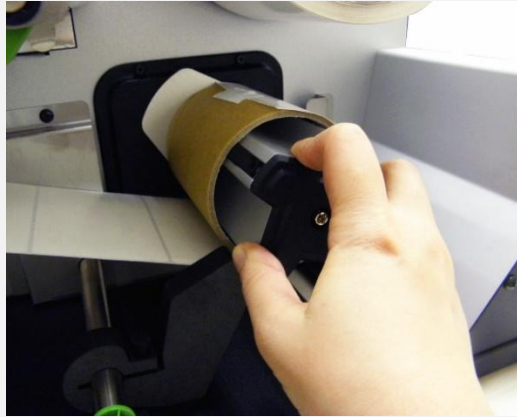
1. Open the media cover.



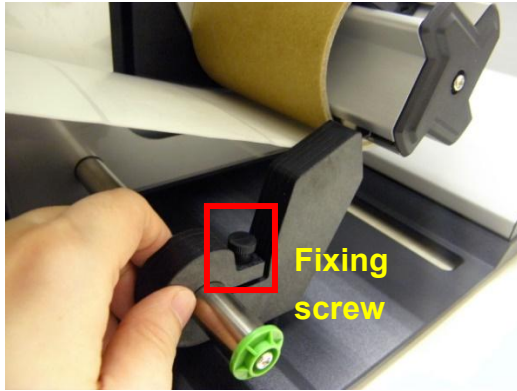
2. Install the paper core on the rewind spindle.



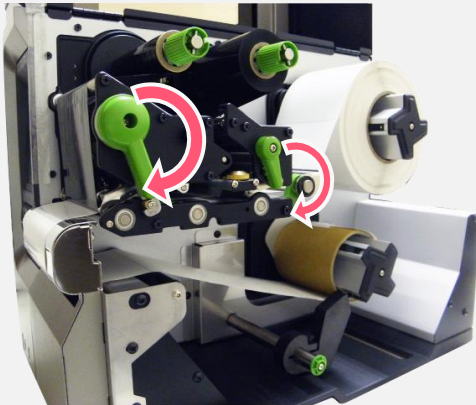
3. Open print head release lever and label guide bar release lever to pull approximately 650mm of label through the front of the printer.
4. Feed the leading edge of media through the redirect front panel as picture shown.



- 5.** Wrap the label and stick the label onto the paper core. until it's stretched properly.



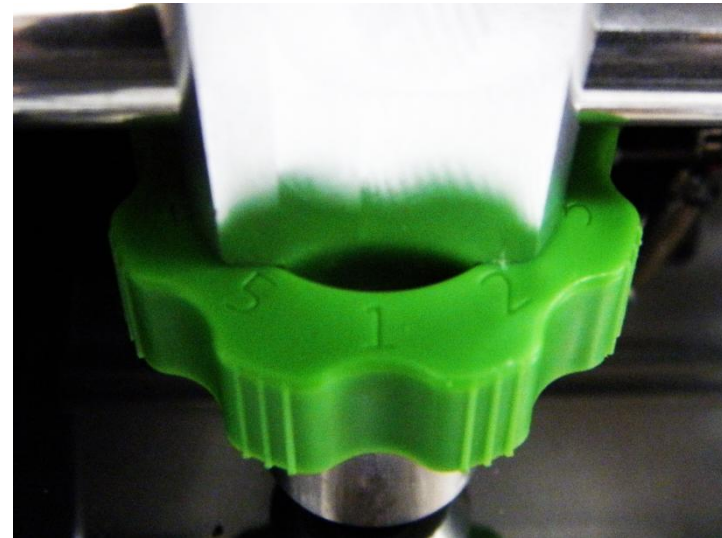
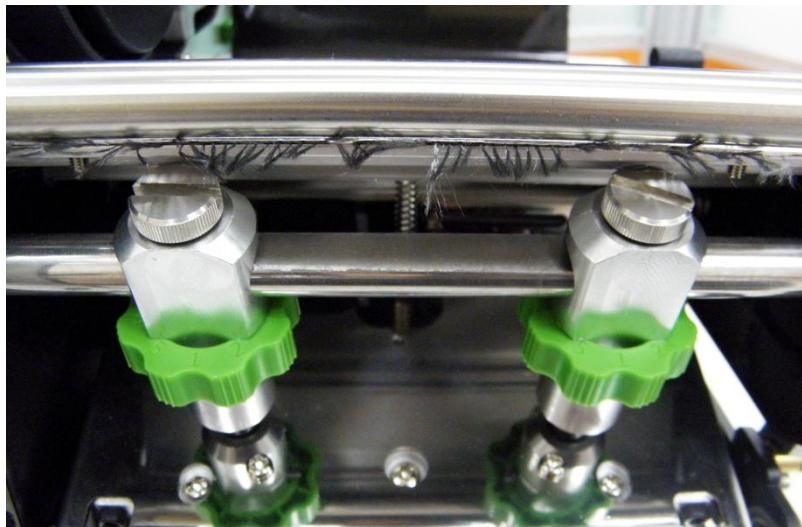
- 6.** Adjust the supply holder guide to fit the supply width. Turn the screw to fix the supply holder guide.



- 7.** Wrap the liner onto the paper core and wind the spindle until the liner stretched properly.

4. Knob Adjustment

Print Head Pressure Adjustment Knob has 5 levels' adjustment. Different number means different pressure to the print head . Due to media is aligned to the inbound of the printer mechanism, different media width requires the different pressure. Users can try which level can meet their expectation.

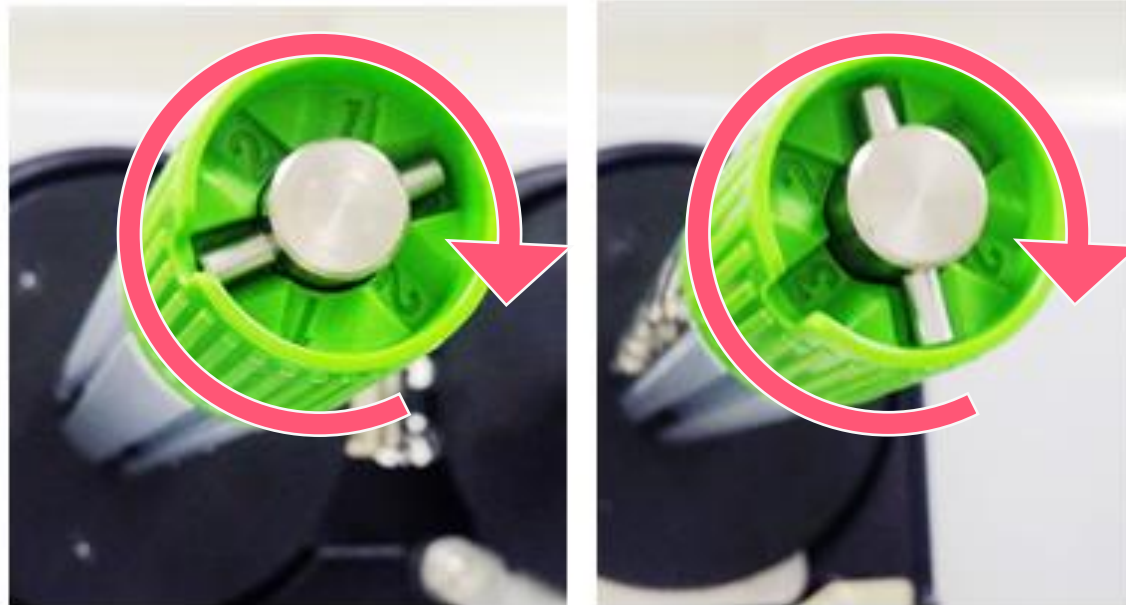


- **Pressure level: 5>4>3>2>1 (5 is the highest)**
- If the label width is 4", adjust both print head pressure to the same level.
- If the label is less than 2" wide, increase the pressure of left adjustment knob and decrease the right-side pressure.

4.1 Ribbon Tension Adjustment Knob

Ribbon Tension Adjustment Knob has 3 positions for adjustment. Due to ribbon is aligned to the inbound of the printer mechanism, different ribbon or media widths require different ribbon tension to print correctly. Therefore, it may require to adjust the ribbon tension adjustment knob to avoid wrinkle and get the best print quality.

- Tension level: 1>2>3. Default: 1

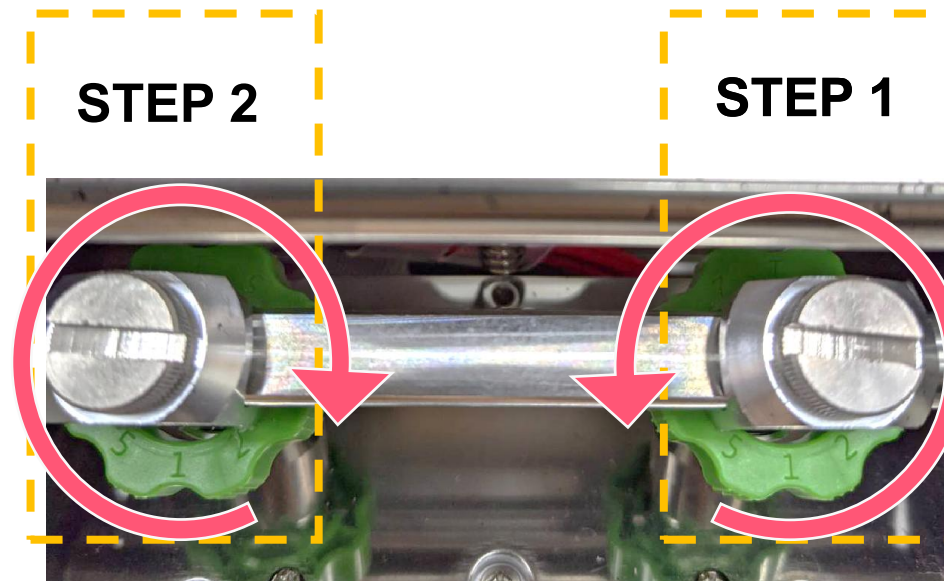


4.2 Mechanism Fine Adjustment to Avoid Ribbon Wrinkles

Ribbon wrinkle is related to the media width, 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.



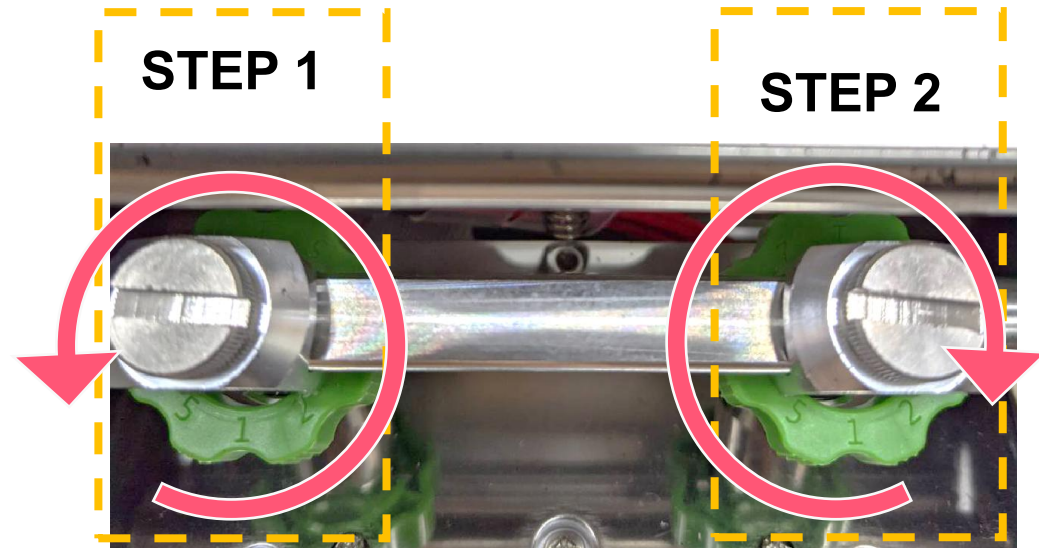
Wrinkle happens from label lower left to upper right direction



Pressure level: 5>4>3>2>1 (5 is the highest)

- **Step 1** Decrease the right side's pressure per level to check whether wrinkles are gone. adjustment knob.
- **Step 2** If right side pressure knob has been turned to level 1, but the wrinkle still exists, increase the left side pressure knob per level to check whether the wrinkle has been disappeared or not.

Wrinkle happens from label lower right to upper left direction



Pressure level: 5>4>3>2>1 (5 is the highest)

- **Step 1** Decrease the left side's pressure per level to check whether wrinkles is gone. adjustment knob.
- **Step 2** If right side pressure knob has been turned to level 1, but the wrinkle still exists, increase the left side pressure knob per level to check whether the wrinkle has been disappeared or not..

4.3 Suggestion of Ribbon Tension Adjustment

For 4" width ribbon

If the ribbon width is 4", adjust both ribbon tension adjustment knobs to the #1 on ribbon supply & rewind spindles. (Factory default ribbon tension is #1)

Ribbon Rewind Spindle Tension # 1



Ribbon Supply Spindle Tension # 1



For 3" width ribbon

If the ribbon width is 3", adjust both ribbon tension adjustment knobs to the #2 on ribbon supply & rewind spindles.

Ribbon Rewind Spindle Tension # 2



Ribbon Supply Spindle Tension # 2



For 2" width ribbon

If the ribbon width is 2", adjust both ribbon tension adjustment knobs to the #3 on ribbon supply & rewind spindles.

Ribbon Rewind Spindle Tension # 3



Ribbon Supply Spindle Tension # 3



5. TSC Console Utility

TSC Console (PC Version) is an all-in-one management tool that integrates **Printer Management**, **Diagnostic Tool**, **CommTool**, and **Printer Settings**, designed specifically for a wide range of **TSC printers**.

It enables IT personnel to easily deploy, manage, monitor, and troubleshoot both wired and wireless connections for single or multiple printers. Users can adjust printer settings and status, download graphics, deploy fonts, images, and label templates, upgrade firmware, and send additional commands to multiple printers simultaneously.

With its intuitive Windows graphical interface, **TSC Console** simplifies printer setup and daily management, while its integrated management capabilities enhance system stability—ensuring printers remain operational, reliable, and easy to maintain.

Please visit [TSC's official website](#) to download this utility, and scan the QR code below to access the [TSC Console Manual](#) for detailed usage instructions.



6. LCD Menu Function

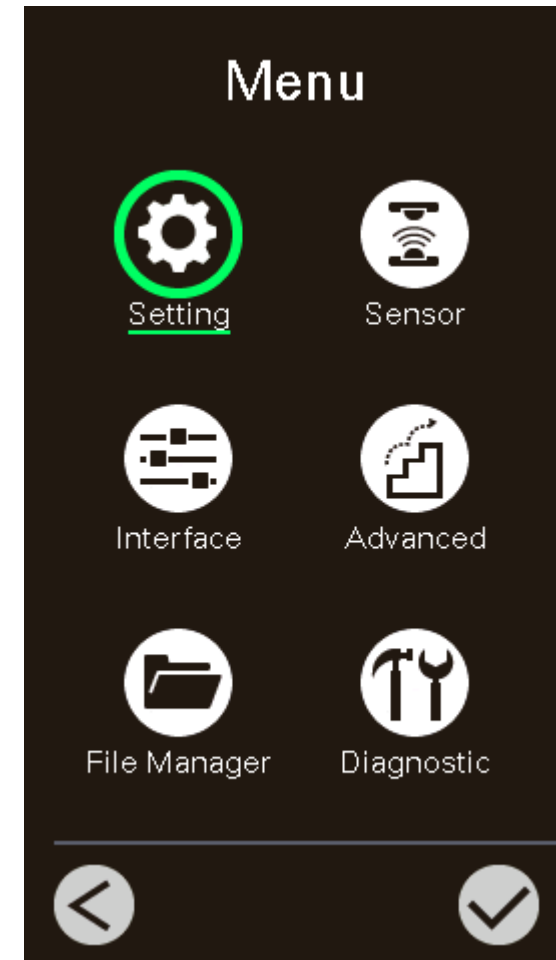
6.1 Enter the Menu

- **By touch display:**

Tap the  (Menu) icon on LCD main page to enter the menu.

- **By Keys:**

Use navigational keys to select the  (Menu) icon (be marked in green) and press the left soft key button (means ) to enter the menu.



6.2 Menu Overview

There are 6 categories on the menu. Users can easily set the settings of the printer without connecting the computer. Please refer to following sections for more details.



Setting: To set up the printer settings for TSPL & ZPL2.



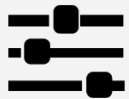
Advanced : To set LCD, initialization, cutter type, etc.



Sensor: To calibrate the selected media sensor.



File Manager: To check and manage printer's memory storage.



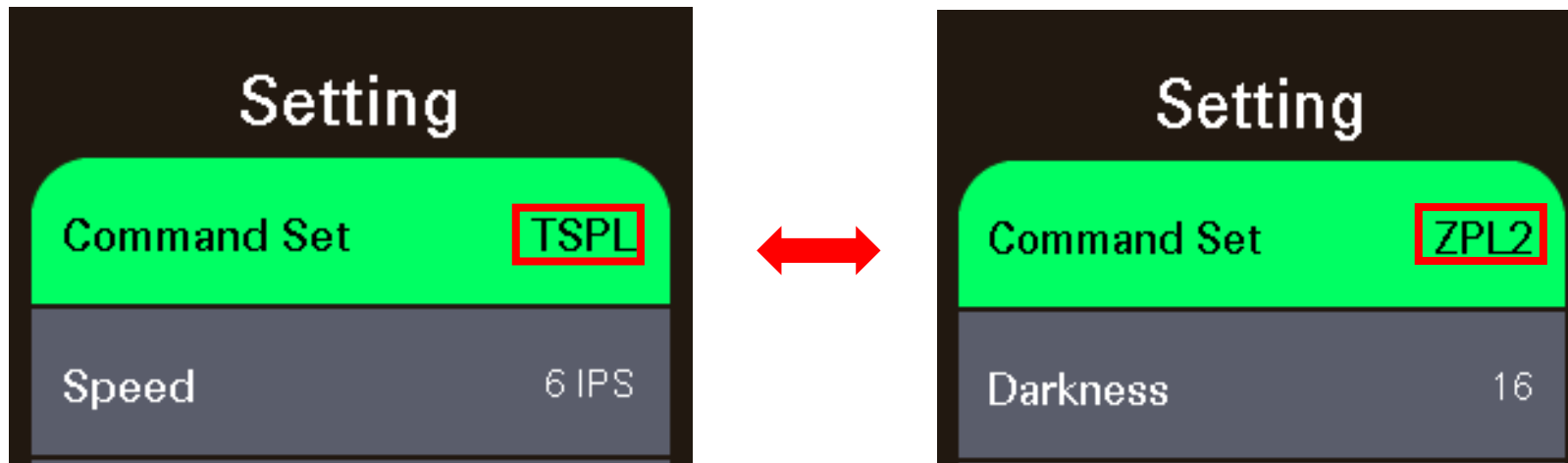
Interface : To set the printer interface settings.



Diagnostic : To check printer and help users to troubleshoot the problems.

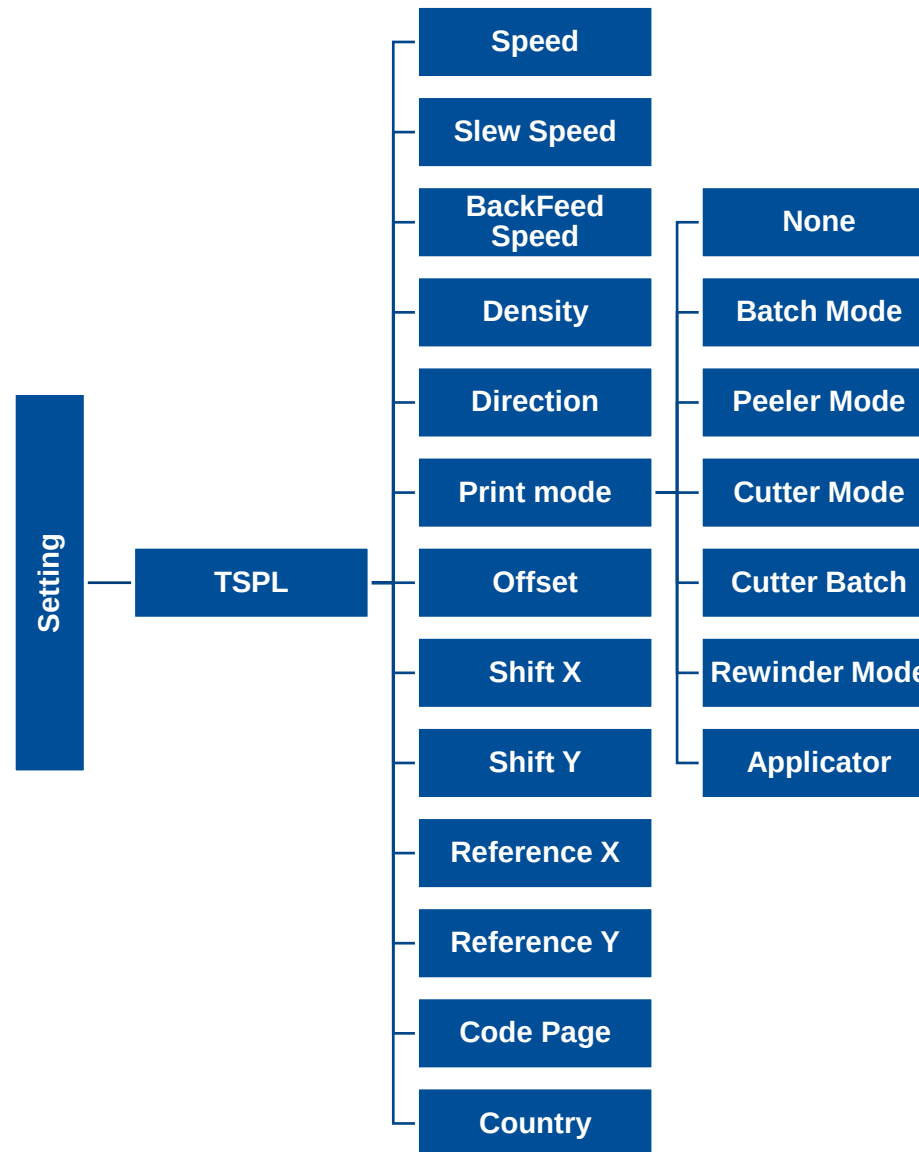
6.3 Setting

Tap the **Command Set** on LCD to switch between TSPL and ZPL2. **Command Set** can also be activated by **Navigational Keys**.



6.3.1 TSPL

TSPL category can set up the printer settings for TSPL.

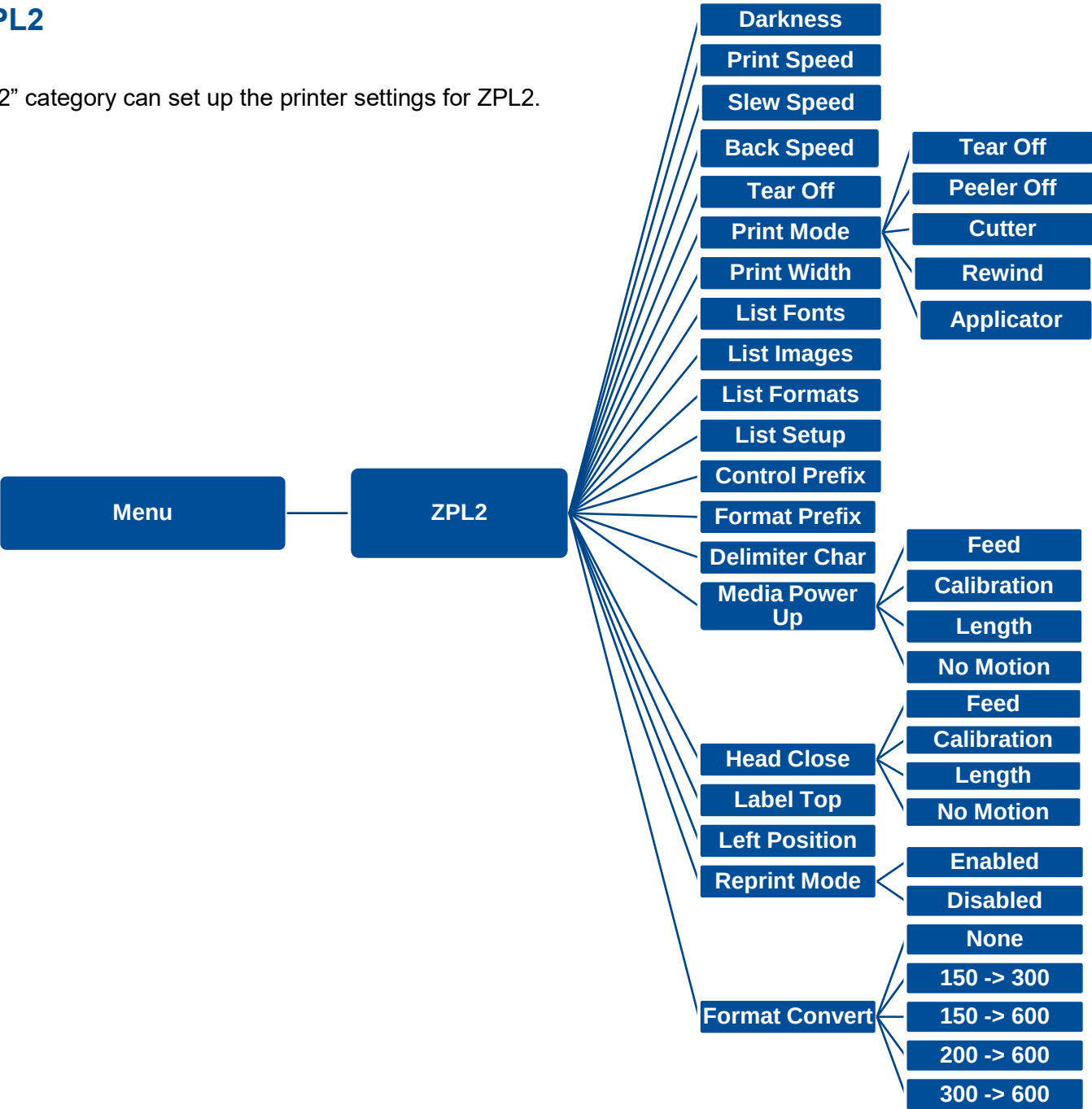


Item	Description	Default
Speed	Set the print speed. Setting range: 2~18 for 203dpi; 2~14 for 300dpi; 1.5~6 for 600dpi	203 dpi: 6 300 dpi: 4 600 dpi: 3
Slew Speed	Set feed speed	203 dpi: 6 300 dpi: 4 600 dpi: 3
Back Speed	Set back speed	2
Density	Set printing darkness. Setting range: 0 to 15, and the step is 1.	8
Direction	Set the printout direction. Setting Value: 0 and 1. Direction 0: Direction Direction 1: Direction	0
Print mode	Set the print mode. There are 6 modes in total: None: Next label top of form is aligned to the print head burn line location. (Tear Off Mode) Batch Mode: Once finishing the printing process, label will be fed to the tear plate location. Peeler Mode: Enable the label peel off mode. Cutter Mode: Enable the label cutter mode. Cutter Batch: Cut the label once at the end of the printing job. Rewinder Mode: Enable the label rewinder mode. Applicator: The printer prints a label when it receives a signal from the applicator.	Batch Mode
Offset	Adjust media stop location. Available value setting range: -999 dots to 999 dots.	0 dot
Shift X	Adjust print position. Available value setting range: -999 dots to 999 dots.	0 dot
Shift Y		0 dot
Reference X	Set the origin of printer coordinate system horizontally and vertically. Available setting range: 0 dot to 999 dots.	0 dot
Reference Y		0 dot
Code page	Set the code page of international character set.	850
Country	Set the country code. Available setting value range: 1 to 358.	001

Note: If printing from enclosed software/driver, the software/driver will send out the commands, which will overwrite the settings set from the panel.

6.3.2 ZPL2

This “ZPL2” category can set up the printer settings for ZPL2.



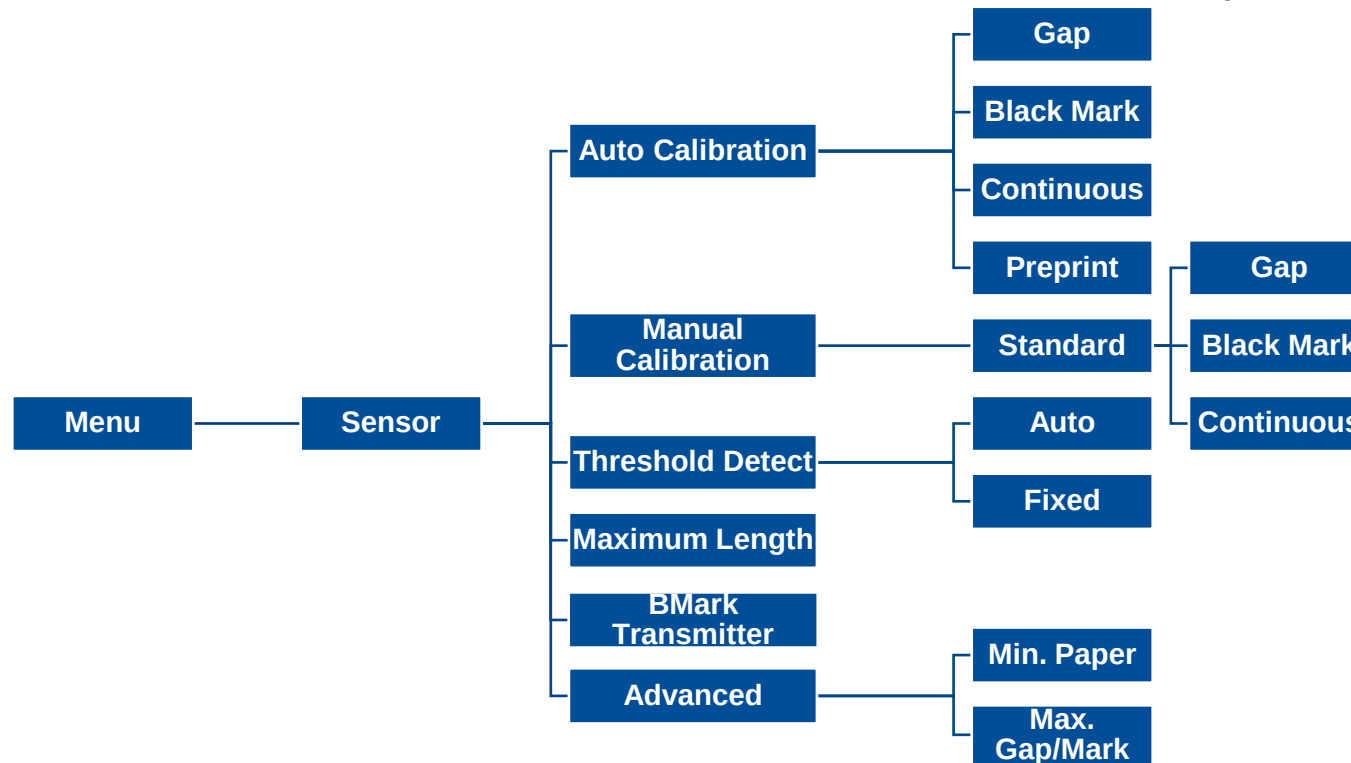
Item	Description	Default
Density	Set the printing darkness. Available setting range: 0 to 30.	16
Print Speed	Set the print speed. Available setting range is 2~18 for 203dpi and 2~14 for 300dpi; 1.5~6 for 300dpi.	203 dpi: 6 300 dpi: 4 600 dpi: 3
Slew Speed	Set feed speed	203 dpi: 6 300 dpi: 4 600 dpi: 3
Back Speed	Set back speed	2
Tear Off	Adjust media stop location. Available setting value range: -120~120 dots.	0 dot
Print mode	Set the print mode. There are 4 modes: Tear Off: Next label top of form is aligned to the print head heating line location. Peeler Off: Enable the label peel off mode. Cutter: Enable the label cutter mode Rewind: Enable the label rewind mode Applicator: The printer prints a label when it receives a signal from the applicator.	Tear Off
Print Width	Set the print width. Available setting range: 2 ~ 999 dots.	812
List Fonts	Print the current fonts list from the memory devices to the label.	N/A
List Images	Print current printer available images list stored at the memory device to the label.	N/A
List Formats	Print current printer available formats list from the memory devices to the label.	N/A
List Setup	Print current printer configuration to the label.	N/A
Control Prefix	Set control prefix character.	N/A
Format Prefix	Set format prefix character.	N/A

Delimiter Char	Set delimiter character.	N/A
Media Power Up	Set the action of the media when turning on the printer. Feed: Printer will advance one label. Calibration: Printer will make calibration. Length: Printer determine length and feed label. No Motion: Printer will not move media.	No Motion
Head Close	Set the action of the media when closing the print head. Feed: Printer will advance one label. Calibration: Printer will make calibration. Length: Printer determine length and feed label. No Motion: Printer will not move media.	No Motion
Label Top	Adjust print position vertically on the label. Value range: -120 to +120 dots.	0
Left Position	Adjust print position horizontally on the label. Value range:-9999 to +9999 dots.	0
Reprint Mode	Reprint the last label by pressing  button on printer's control panel.	Disabled
Format Convert	Select the bitmap scaling factor. The first number is the original dots per inch (dpi) value; the second the dpi which you would like to scale.	None

Note: printing from other software/drive will overwrite the settings set from the panel.

6.4 Sensor

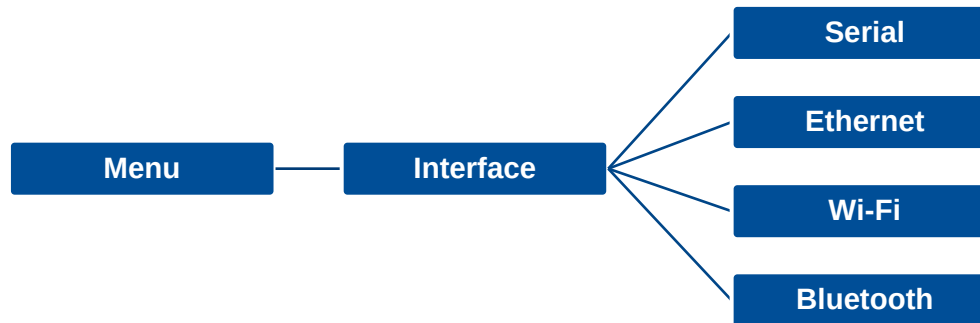
This option is used to calibrate the selected sensor. We recommend calibrate the sensor before printing when changing the media.



Item	Description	Default
Auto Calibration	Set the media sensor type and calibrate the selected sensor automatically.	N/A
Manual Calibration	In case Auto Calibration does not work, please use “Manual” function to set the paper length and gap/black mark size to complete the calibration setting.	N/A
Threshold Detect	Set sensor sensitivity in fixed or auto.	Auto
Maximum Length	Set the maximum length for label calibration.	254 mm
BMark Transmitter	This option is used to set upper or lower black mark sensor as the main transmitter.	Back side
Advanced	Set the minimum paper length and maximum gap/black mark length for auto-calibration.	0 mm

6.5 Interface

Interface can set the printer interface settings.



Note:

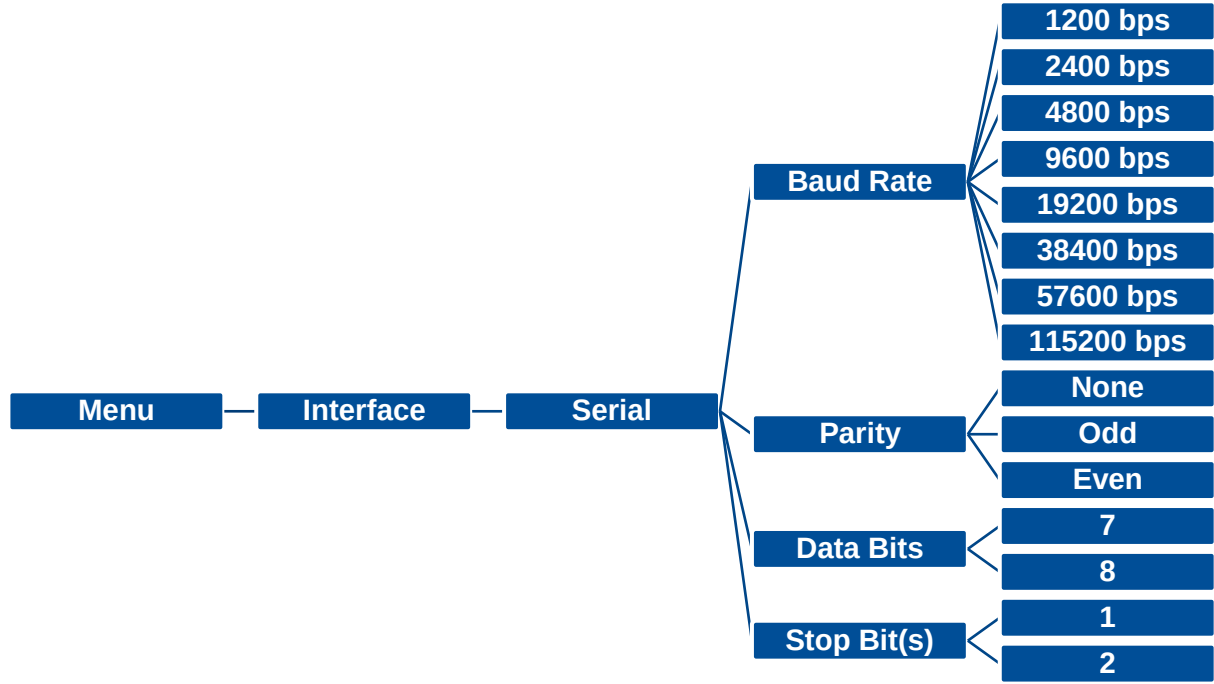
To comply with the new European RED (Radio Equipment Directive) requirements, the Network Block must be disabled before the printer's first network connection. To enable standard network functions, follow the steps below.

- **For USB setup (recommended in Europe):**
 1. Connect the printer via USB.
 2. Open **TSC Console** and go to **Functions > PRTSecure > Security Mode**.
 3. Set it to **"Standard"**.
- **For printers with LCD:**
 1. Go to **Menu > Advanced > PRTSecure**.
 2. Set Security Mode to **"Standard"**.

For detailed instructions, see the **TSC Console Utility** and **Advanced** sections.

6.5.1 Serial Comm

Serial comm can set the printer RS-232 settings.



Item	Description	Default
Baud Rate	Set the RS-232 baud rate.	9600
Parity	Set the RS-232 parity.	None
Data Bits	Set the RS-232 Data Bits.	8
Stop Bit(s)	Set RS-232 Stop Bits.	1

6.5.2 Ethernet

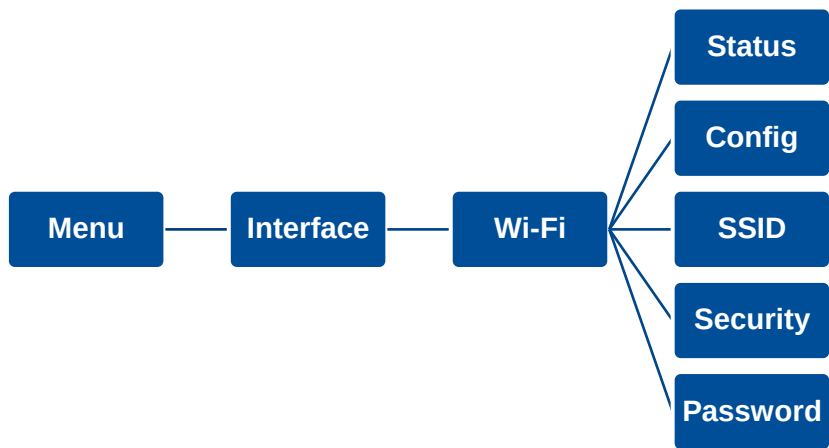
Ethernet configures internal Ethernet configuration and checks the printer’s Ethernet module status, and reset the Ethernet module.



Item	Description	Default
Status	Check the Ethernet IP address and MAC setting status.	N/A
Config.	DHCP: On or OFF the DHCP (Dynamic Host Configuration Protocol) network protocol. Static IP: Use this menu to set the printer’s IP address, subnet mask and gateway.	DHCP

6.5.3 Wi-Fi

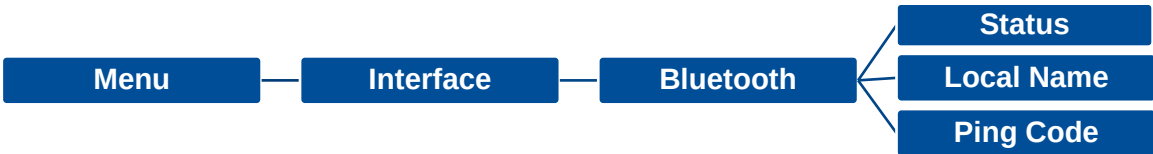
Wi-Fi can set the printer Wi-Fi settings.



Item	Description	Default
Status	Check the Wi-Fi IP address, MAC setting status, etc.	N/A
Config.	DHCP: ON/OFF the DHCP (Dynamic Host Configuration Protocol) network protocol. Static IP: Set the printer's IP address, subnet mask and gateway.	DHCP
SSID	Set Wi-Fi SSID.	N/A
Security	Set Wi-Fi security.	Open
Password	Set Wi-Fi password.	N/A

6.5.4 Bluetooth

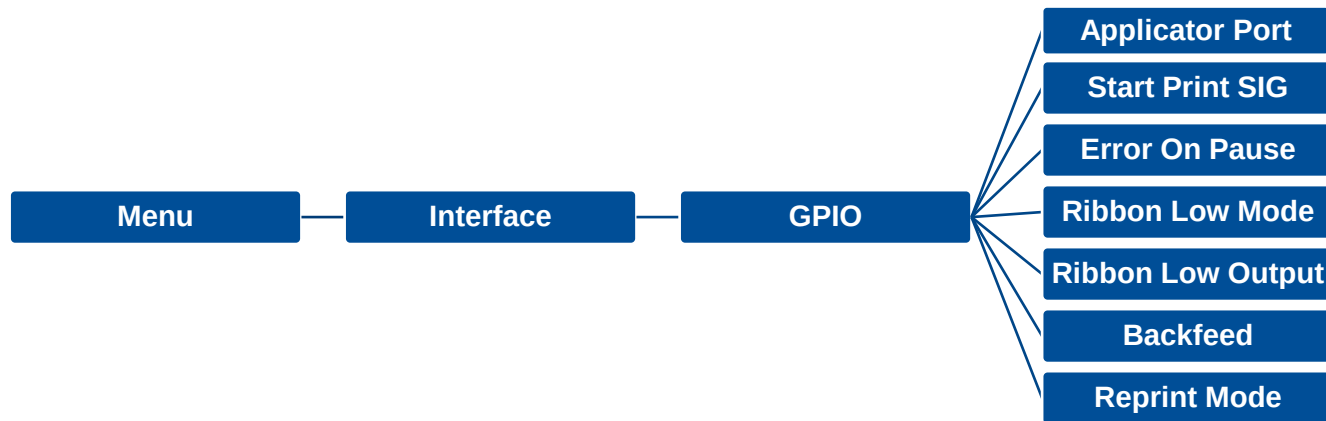
Bluetooth can set the printer Bluetooth settings.



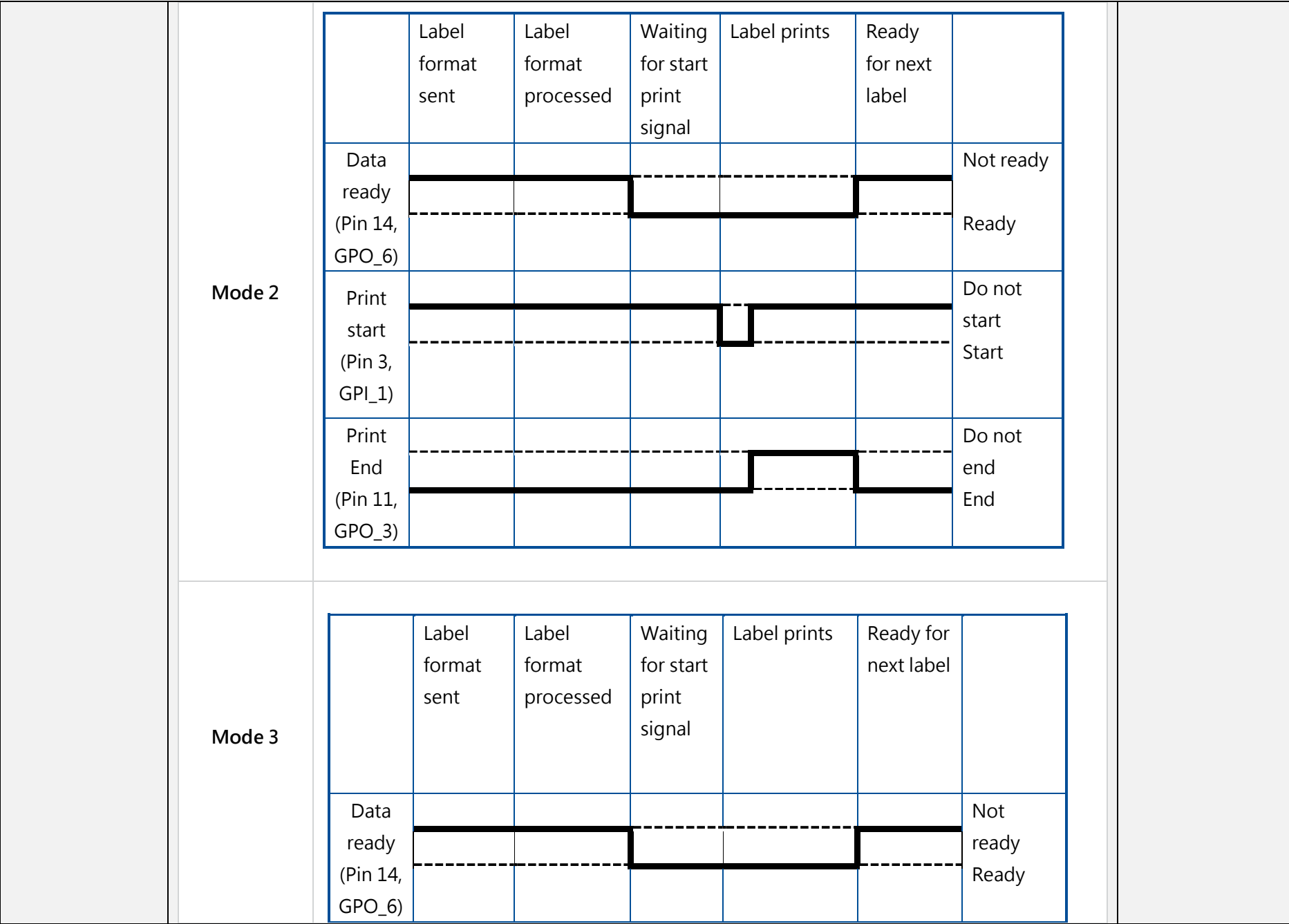
Item	Description	Default
Status	Check the Bluetooth status.	N/A
Local Name	Set the local name for Bluetooth.	RF-BHS
Ping Code	Set the local ping code for Bluetooth.	0000

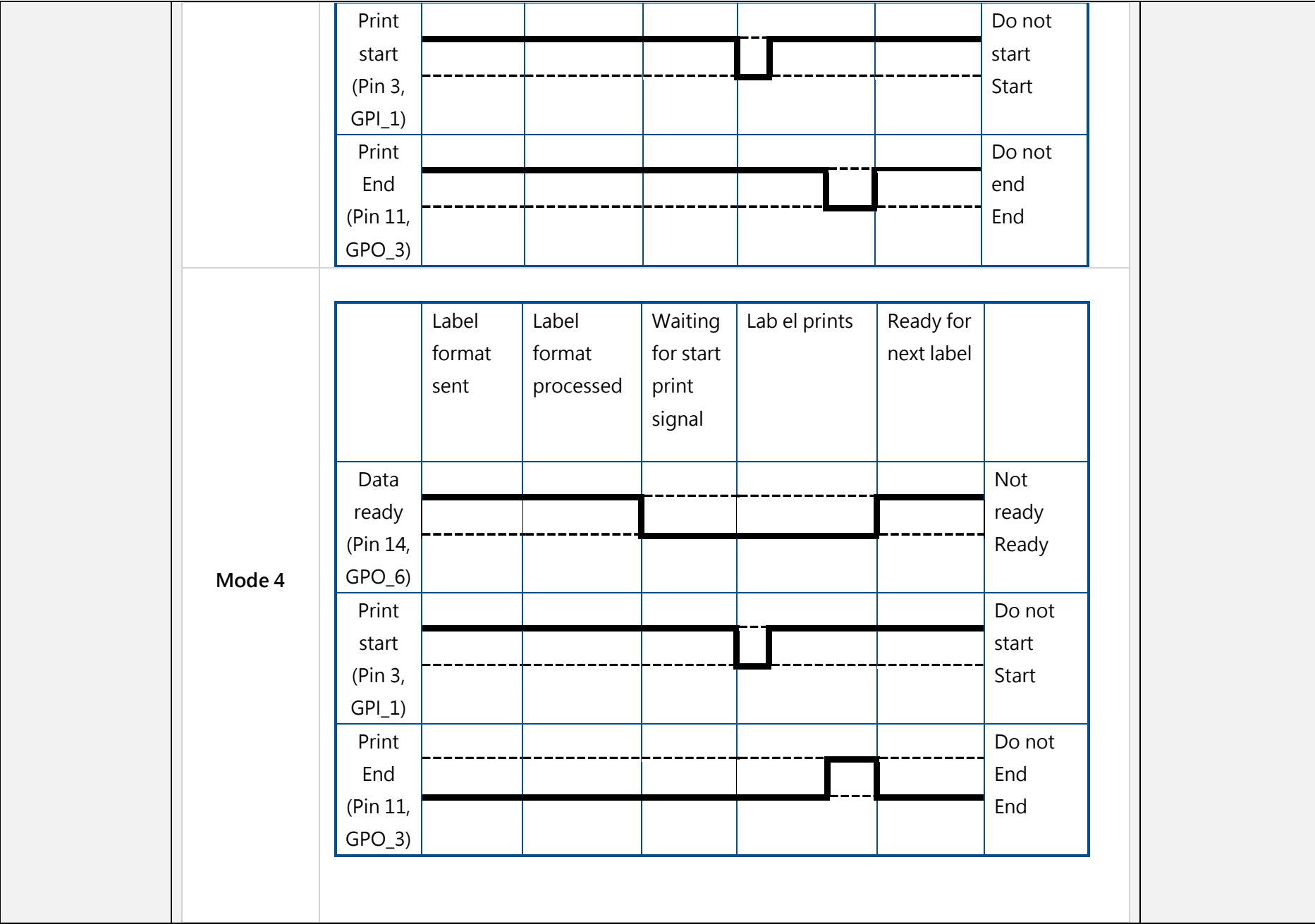
6.5.5 GPIO

This option is used to set the print engine GPIO settings. (Applicator interface with DB15F connector +5V I/O)



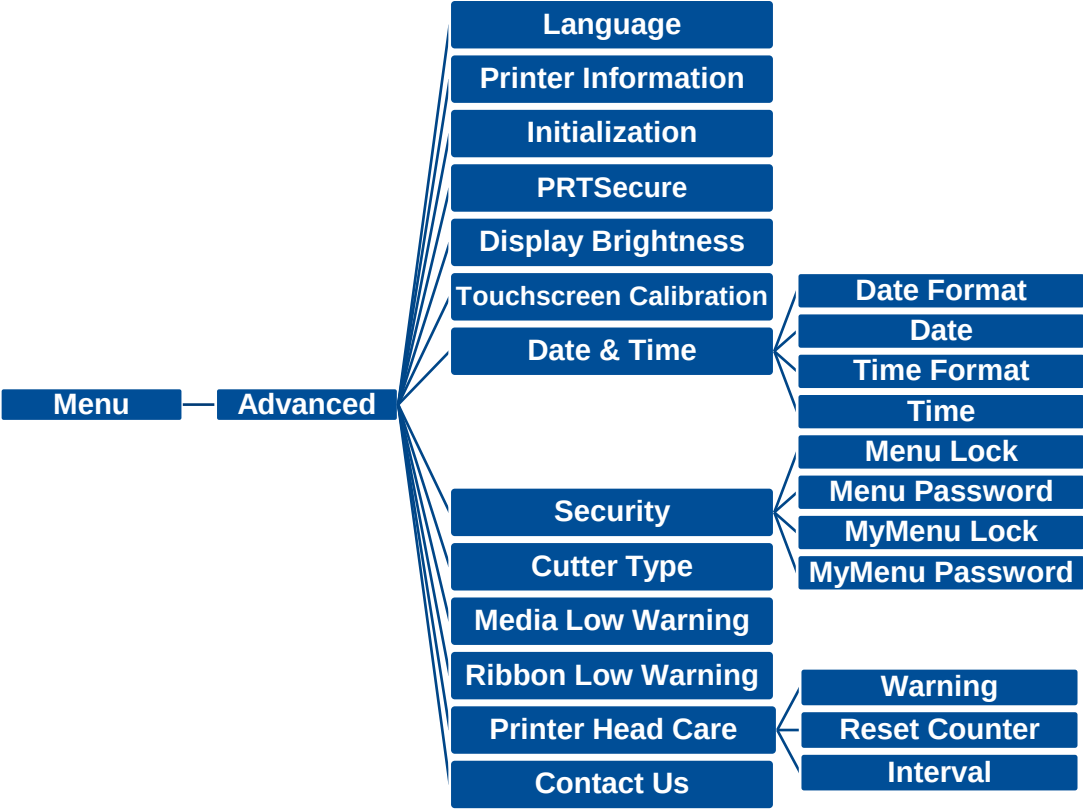
Item	Description	Default																											
Applicator Port	This option is used to set the GPO_3 signal when PRINT END.	Off																											
	<table><tr><th>Selections</th><th>Description</th></tr><tr><td>Off</td><td>The applicator port is off.</td></tr></table>		Selections	Description	Off	The applicator port is off.																							
	Selections		Description																										
	Off		The applicator port is off.																										
	Mode 1		<table><tr><td></td><td>Label format sent</td><td>Label format processed</td><td>Waiting for start print signal</td><td>Label prints</td><td>Ready for next label</td><td></td></tr><tr><td>Data ready (Pin 14, GPO_6)</td><td colspan="5"></td><td>Not ready Ready</td></tr><tr><td>Print start (Pin 3, GPI_1)</td><td colspan="5"></td><td>Do not start Start</td></tr><tr><td>Print End (Pin 11, GPO_3)</td><td colspan="5"></td><td>Do not end End</td></tr></table>		Label format sent	Label format processed	Waiting for start print signal	Label prints	Ready for next label		Data ready (Pin 14, GPO_6)						Not ready Ready	Print start (Pin 3, GPI_1)						Do not start Start	Print End (Pin 11, GPO_3)				
	Label format sent	Label format processed	Waiting for start print signal	Label prints	Ready for next label																								
Data ready (Pin 14, GPO_6)						Not ready Ready																							
Print start (Pin 3, GPI_1)						Do not start Start																							
Print End (Pin 11, GPO_3)						Do not end End																							





	Customized Use GPIO setting commands for customized settings. For GPIO command, please refer to TSPL/TSPL2 programming manual.	
Start Print SIG	This determines the trigger conditions for the printer to control GPI 1 and GPI4.	Level mode
Error On Pause	When this option is enabled and the printer is paused, the error signal (GPO_2) is LOW.	Enable
Ribbon Low Mode	When this option is enabled and the printer is Low Ribbon (GPO_1), the printer will generate a warning.	Enable
Ribbon Low Output	When the Ribbon Low Mode feature is enabled, this parameter determines if the output signal on Pin 9 (GPO_1) is HIGH or LOW.	Active High
Backfeed	This determines the timing of pullback.	Default
Reprint Mode	When this option is disabled, the printer reprint function (GPI_4) will be invalid.	Disable

6.6 Advanced



Item	Description	Default
Language	Switch the language on display.	English
Printer Information	Check the printer’s serial number, printed mileage (m), printed labels (pcs) and cutting counter.	N/A
Initialization	Restore printer settings to defaults.	N/A

PRTSecure	Set up the Printer Secure. • Strict: Enable this security setting - Network setup via network is blocked • Standard: Disable this security setting - Normal network setup allowed If you want to use Strict Mode to connect to the network, please refer to the TSC Network Security Manual for more details. Click the document link or scan the QR code below to access the manual. 	Europe Unit: Strict (Network Block enabled)
Display Brightness	Set the brightness for display. Range: 0~100.	50
Touchscreen Calibration	Calibrate the touchscreen for best result.	N/A
Date & Time	Setup the date and time on display.	N/A
Security	Set the password for locking the menu or favorites. The default password is 8888.	Disable
Cutter Type	Set the cutter type.	Guillotine
Media Low Warning	Set the warning for media low %. If setting value is 10%, media capacity was lower than 10%, the  % will be shown in red.	10%
Ribbon Low Warning	Set the warning for ribbon low. For example, if setting value is 30m, when ribbon capacity was lower than 30m, the  will be shown in red.	30M

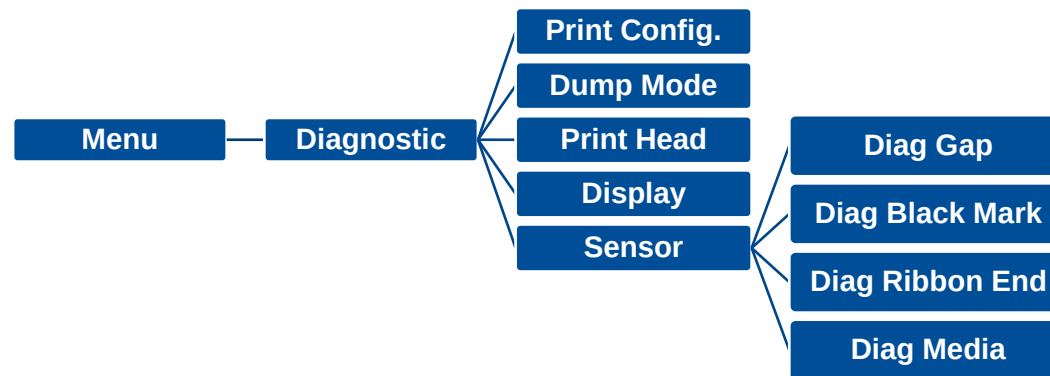
Printer Head Maintn	Check print head status and to set the settings for print head care. Warning: Enable/disable the print head clean warning. If enable this feature, once print head has been reached the setting mileage then the warning icon will be shown on printer UI for reminding user to clean the print head. The default setting is disable. Reset Counter: Reset the print head clean warning mileage after cleaning print head. Interval: This item is used to set the expected mileage for reminding user to clean the print head. You have to enable the “TPH warning lock” for use. The default setting is 1 km. Key sound: This item is used to enable/disable the sound of front panel buttons.	N/A
Contact us	Check the contact information for tech support service	N/A

6.7 File Manager

File Manager is used to check the printer available memory, show the files list, delete the files or run the files that saved in the printer DRAM/Flash/Card memory.



6.8 Diagnostic



```

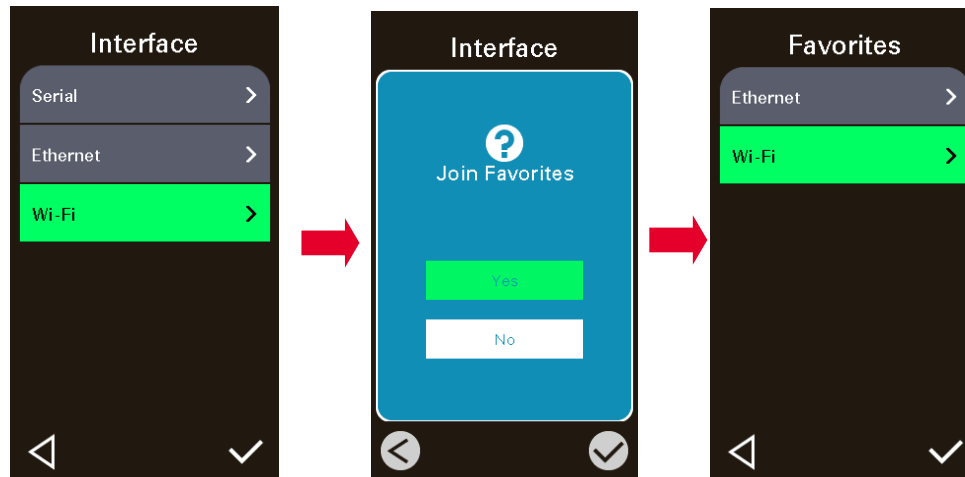
DOWNLOA 0D 0A 44 4F 57 4E 4C 4F 4I
D „TEST2. 44 20 22 54 45 53 54 32 2E
DAT“,5,CL 44 41 54 22 2C 35 2C 43 4C
S DOWNLO 53 0D 0A 44 4F 57 4E 4C 4F
AD F,“TES 41 44 20 46 2C 22 54 45 53
T4.DAT“,5 54 34 2E 44 41 54 22 2C 35
,CLS DOW 2C 43 4C 53 0D 0A 44 4F 57
NLOAD „TE 4E 4C 4F 41 44 20 22 54 45
ST2.DAT“, 53 54 32 2E 44 41 54 22 2C
5,CLS DO 35 2C 43 4C 53 0D 0A 44 4F
WNLOAD F, 57 4E 4C 4F 41 44 20 46 2C
„TEST4.DA 22 54 45 53 54 34 2E 44 41
T“,5,CLS 54 22 2C 35 2C 43 4C 53 0D
DOWNLOAD 0A 44 4F 57 4E 4C 4F 41 44
“TEST2.D 20 22 54 45 53 54 32 2E 44
AT“,5,CLS 41 54 22 2C 35 2C 43 4C 53
DOWNLOA 0D 0A 44 4F 57 4E 4C 4F 4I
D F,“TEST 44 20 46 2C 22 54 45 53 54
4.DAT“,5, 34 2E 44 41 54 22 2C 35 2C
CLS 43 4C 53 0D 0A
  
```

Item	Description
Print Config.	Print current printer configuration to the label. The configuration printout contains print head test pattern, which is useful for checking the dot damage on the print head heater.
Dump Mode	Captures the data from the communications port and prints out the data received by printer. In the dump mode, all characters will be printed in 2 columns. The left side characters are received from your system and right side data are the corresponding hexadecimal value of the characters. It allows users or engineers to verify and debug the program. Dump mode requires 4" wide paper width.
Print Head	Check print head's temperature and bad dots.
Display	Check LCD's color state.
Sensor	Check sensors intensity and reading state.

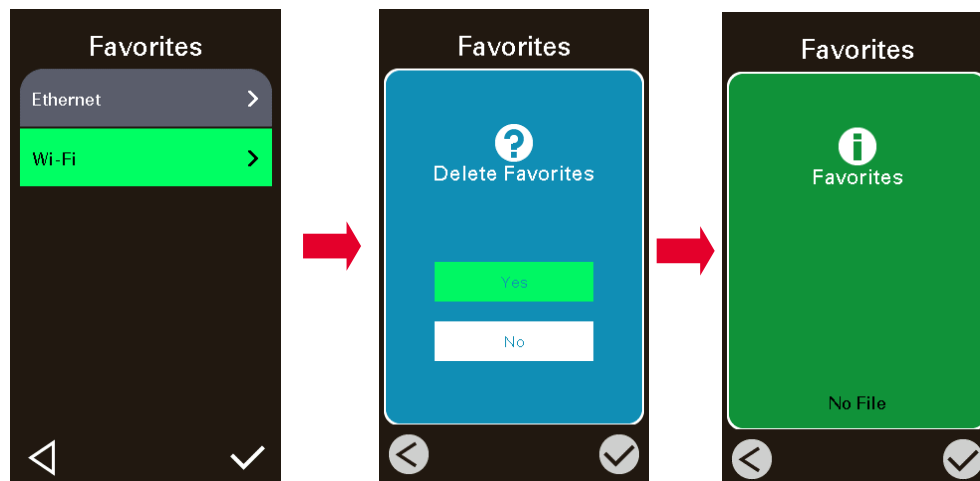
6.9 Favorites

Favorites helps users build a commonly used list. Arrange the commonly used setting options by **Favorites** .

Add items: Touch and hold the item > window of **Join Favorites** will pop up > tap **Yes** to add the item to **Favorites**.



Delete items: Touch and hold the item > window of **Delete Favorites** will pop up > tap **Yes** to delete the item.



7. Troubleshooting

Problem	Possible Cause	Recovery Procedure
Power indicator does not illuminate	- The power cord is not properly connected. - The power switch is closed.	- Plug the power cord in printer and outlet. - Switch the printer on.
Carriage Open	The printer carriage is open.	Close the print carriage.
Not Printing	- Check if interface cable is well connected. - Check if wireless or Bluetooth device is well connected. - The port in the Windows driver is not correct.	- Re-connect cable to interface or change a new cable. - Reset the wireless device setting. - Select the correct printer port in the driver. - Clean the printhead. - Printhead's harness connector is not well connected with printhead. Turn off the printer and plug the connector again. - Check your program if there is a command - PRINT at the end of the file and there must have CRLF at the end of each command line.
No print on the label	- Label or ribbon is loaded not correctly. - Use wrong type paper or ribbon	- Follow the instructions in loading the media and ribbon. - Ribbon and media are not compatible. - Verify the ribbon-inked side. - The print density setting is incorrect.
No Ribbon	- Running out of ribbon. - The ribbon is installed incorrectly.	- Supply a new ribbon roll. - Refer to user's manual to reinstall the ribbon.
No Paper	- Running out of label. - The label is installed incorrectly. - Gap/black mark sensor is not calibrated.	- Supply a new label roll. - Refer to user's manual to reinstall the label roll. - Calibrate the gap/black mark sensor.
Paper Jam	- Gap/black mark sensor is not set properly. - Make sure label size is set properly. - Labels may be stuck inside the printer mechanism.	- Calibrate the media sensor. - Set media size correctly. - Remove the stuck label inside the printer mechanism.

Take Label	■ Peel function is enabled.	■ If peeler module is installed, please remove the label. ■ If there is no peeler module in front of the printer, please switch off the printer and install it. ■ Check if the connector is plugging correctly.
Can't downloading the file to memory (FLASH / DRAM/CARD)	■ The space of memory is full.	■ Delete unused files in the memory.
Poor Print Quality	■ Ribbon and media is loaded incorrectly. ■ Dust or adhesive accumulation on the print head. ■ Print density is not set properly. ■ Printhead element is damaged. ■ Ribbon and media are incompatible. ■ The printhead pressure is not set properly.	■ Reload the supply. ■ Clean the print head. ■ Clean the platen roller. ■ Adjust the print density and print speed. ■ Run printer self-test and check the print head test pattern if there is dot missing in the pattern. ■ Change proper ribbon or proper label media. ■ Adjust the printhead pressure adjustment knob. ■ The release lever does not latch the printhead properly.
Missing printing on the left or right side of label	■ Wrong label size setup.	■ Set the correct label size.
Gray line on the blank label	■ The print head is dirty. ■ The platen roller is dirty.	■ Clean the print head. ■ Clean the platen roller. ■ (Please refer to chapter 8)
Irregular printing	■ The printer is in Hex Dump mode. ■ The RS-232 setting is incorrect.	■ Turn off and on the printer to skip the dump mode. ■ Re-set the RS-232 setting.
Label feeding is not stable (skew) when printing	■ The media guide does not touch the edge of the media.	■ If the label is moving to the right side, please move the label guide to left. ■ If the label is moving to the left side, please move the label guide to right.
Skip labels when printing	■ Label size is not specified properly. ■ Sensor sensitivity is not set properly. ■ The media sensor is covered with dust.	■ Check if label size is setup correctly. ■ Calibrate the sensor by Auto Gap or Manual Gap options. ■ Clear the GAP/Black mark sensor by blower.

Wrinkle Problem	■ Printhead pressure is incorrect. ■ Ribbon installation is incorrect. ■ Media installation is incorrect. ■ Print density is incorrect. ■ Media feeding is incorrect.	■ Please refer to the chapter 4. ■ Please set the suitable density to have good print quality. ■ Make sure the label guide touch the edge of the media guide.
RTC time is incorrect when reboot the printer	■ The battery has run down.	■ Check if there is a battery on the main board.
The left side printout position is incorrect	■ Wrong label size setup. ■ The parameter Shift X in LCD menu is incorrect.	■ Set the correct label size. ■ Press [Menu] → [Setting] → [Shift X] to fine tune the parameter of Shift X.
The printing position of small label is incorrect	■ Media sensor sensitivity is not set properly. ■ Label size is incorrect. ■ The parameter Shift Y in the LCD menu is incorrect. ■ The vertical offset setting in the driver is incorrect.	■ Calibrate the sensor sensitivity again. ■ Set the correct label size and gap size. ■ Press [Menu] → [Setting] → [Shift Y] → to fine tune the parameter of Shift Y. ■ Set the vertical offset in the driver if you're using BarTender.
LCD panel is dark and keys are not working	■ The cable between main PCB and LCD panel is loose.	■ Check if the cable between main PCB and LCD is secured or not.
LCD panel is dark but the LEDs are light	■ The printer initialization is unsuccessful.	■ Turn OFF and ON the printer again. ■ Initialize the printer.
Ribbon encoder sensor doesn't work	■ The ribbon encoder sensor connector is loose.	■ Fasten the connector.
Ribbon end sensor doesn't work	■ The connector is loose. ■ The ribbon sensor hole is covered with dust.	■ Check the connector. ■ Clear the dust in the sensor hole by the blower.
Cutter is not working	■ The connector is loose.	■ Plug in the connect cable correctly.

8. Maintenance

This session presents the clean tools and methods to maintain the printer.

■ For Cleaning

Depending on the media used, the printer may accumulate residues (media dust, adhesives, etc.) as a by-product of normal printing. To maintain the best printing quality, you should remove these residues by cleaning the printer periodically. Regularly clean the print head and supply sensors once change a new media to keep the printer at the optimized performance and extend printer life.

■ For Disinfecting

Sanitize your printer to protect yourself and others and can help prevent the spread of viruses.

■ Important

- Set the printer power switch to O (Off) prior to performing any cleaning or disinfecting tasks. Leave the power cord connected to keep the printer grounded and to reduce the risk of electrostatic damage.
- Do not wear rings or other metallic objects while cleaning any interior area of the printer.
- Use only the cleaning agents recommended in this document. Use of other agents may damage the printer and void its warranty.
- Do not spray or drip liquid cleaning solutions directly into the printer. Apply the solution on a clean lint-free cloth and then apply the dampened cloth to the printer.
- Do not use canned air in the interior of the printer as it can blow dust and debris onto sensors and other critical components.
- Only use a vacuum cleaner with a nozzle and hose that are conductive and grounded to drain off static build up.
- All reference in these procedures for use of isopropyl alcohol requires that a 99% or greater isopropyl alcohol content be used to reduce the risk of moisture corrosion to the printhead.
- Do not touch printhead by hand. If you touch it carelessly, please use 99% Isopropyl alcohol to clean it.
- Always taking personal precaution when using any cleaning agent.

Cleaning Tools

- Cotton swab
- Lint-free cloth
- Brush with soft non-metallic bristles
- Vacuum cleaner
- 75% Ethanol (for disinfecting)
- 99% Isopropyl alcohol (for printhead and platen roller cleaning)
- Genuine printhead cleaning pen
- Mild detergent (without chlorine)

Cleaning Process:

Printer Part	Method	Interval
Print Head	I. Always turn off the printer before cleaning the printhead. II. Allow the printhead to cool for at least one minute. III. Use a cotton swab and 99% Isopropyl Alcohol or genuine print head cleaning pen to clean the print head surface.	Clean the print head when changing a new label roll.
Platen Roller	I. Turn off the printer. II. Rotate the platen roller and wipe it thoroughly with the lint-free 99% Isopropyl Alcohol.	Clean the platen roller when changing a new label roll
Peel Bar	Use the lint-free cloth with 99% Isopropyl Alcohol to wipe it.	As needed
Sensor	Use brush with soft non-metallic bristles or a vacuum cleaner, to remove paper dust. Clean upper and lower media sensors to ensure reliable Top of Form and Paper Out sensing.	Monthly
Exterior	Clean the exterior surfaces with a clean, lint-free cloth (water-dampened cloth). If necessary, use a mild detergent or desktop cleaning solution then use the 75% Ethanol to wipe it.	As needed
Interior	Clean the interior of the printer by removing any dirt and lint with a vacuum cleaner, as described above, or use a brush with soft non-metallic bristles then use the 75% Ethanol to wipe it.	As needed

9. Agency Compliance and Approvals

	EN 55032: Class B EN 55035 EN 55024 EN 60950-1 EN 62368-1
	FCC part 15B, Class B ICES-003, Class B
	AS/NZS CISPR 32, Class B
	AS/NZS CISPR 32, Class B
	UL 60950-1 (2nd Edition) CSA C22.2 No. 60950-1-07 (2nd Edition) UL 62368-1, 2nd Edition, 2014-12-01 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements) CAN/CSA C22.2 No. 62368-1-14, 2nd Edition, 2014-12 (Audio/video, Information and Communication Technology Equipment - Part 1: Safety Requirements)
Mexico CoC	UL 60950

	EN 62368-1:2014/A11:2017
	KN 32 KN 35 K60950-1(2011-12)
	GB 4943.1 GB/T9254 GB 17625.1
	Energy Star for Imaging Equipment Version 3.0
	CNS 13438 CNS 14336-1 CNS 15663
	TP TC 004 TP TC 020
	IS 13252(Part 1)/ IEC 60950-1

Note: There may have certification differences in the series models, please refer to product label for accuracy.

Important safety instructions:

1. Read all of these instructions and keep them for later use.
2. Follow all warnings and instructions on the product.
3. Disconnect the power from the AC inlet before cleaning or if fault happened.
Do not use liquid or aerosol cleaners. Using a damp cloth is suitable for cleaning.
4. The mains socket shall be installed near the equipment and easily accessible.
5. The unit must be protected against moisture.

6. Ensure the stability when installing the device, Tipping or dropping could cause damage.
7. Make sure to follow the correct power rating and power type indicated on marking label provided by manufacture.
8. Please refer to user manual for maximum operation ambient temperature.
provided by manufacture.
8. Please refer to user manual for maximum operation ambient temperature.



WARNING:

Moving parts. Keep finger or body away from moving parts.

CAUTION:

(For equipment with RTC (CR2032) battery or rechargeable battery pack)

Risk of explosion if battery is replaced by an incorrect type.

Dispose of used batteries according to the Instructions as below.

1. DO NOT throw the battery in fire.
2. DO NOT short circuit the contacts.
3. DO NOT disassemble the battery.
4. DO NOT throw the battery in municipal waste.
5. The symbol of the crossed out wheeled bin indicates that the battery should not be placed in municipal waste.



Caution: Hot surface for printhead.

Do not touch the printhead before it cooling.

WARNING:

Remove the power from AC inlet before opening the media cover for cleaning or repairing faults. After cleaning or fixing faults, media cover closing before power connecting to AC inlet.

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

CE Statement:

This equipment complies with EU radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator & your body.

All operational modes:

2.4GHz: 802.11b, 802.11g, 802.11n (HT20), 802.11n (HT40)

5GHz: 802.11a,

The frequency, mode and the maximum transmitted power in EU are listed below:

2400 MHz – 2483.5 MHz: 19.88 dBm (EIRP)

5150 MHz – 5250 MHz: 17.51 dBm (EIRP)

5150-5350MHz for Only indoor use

5470-5725MHz for indoor/outdoor use

Restrictions In AZE

National restrictions information is provided below

Frequency Band	Country	Remark
5150-5350MHz	Azerbaijan	No license needed if used indoor and power not exceeding 30mW
5470-5725MHz		

Hereby, TSC Auto ID Technology Co., Ltd. declares that the radio equipment type [Wi-Fi] IEEE 802.11 a/b/g/n is in compliance with Directive 2014/53/EU

The full text of the EU declaration of conformity is available at the following internet address: [http:// www.tscprinters.com](http://www.tscprinters.com)

RF exposure warning (Wi-Fi)

This equipment must be installed and operated in accordance with provided instructions and must not be co-located or operating in

conjunction with any other antenna or transmitter. End-users and installers must be providing with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

SAR Value: 0.736 W/kg

RF exposure warning (For Bluetooth)

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment.

The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

Canada, Industry Canada (IC) Notices

This Class B digital apparatus complies with Canadian ICES-003 and RSS-210.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Radio Frequency (RF) Exposure Information

The radiated output power of the Wireless Device is below the Industry Canada (IC) radio frequency exposure limits. The Wireless Device should be used in such a manner such that the potential for human contact during normal operation is minimized.

This device has been evaluated for and shown compliant with the IC Specific Absorption Rate ("SAR") limits when installed in specific host products operated in portable exposure conditions. **(For Wi-Fi)**

This device has also been evaluated and shown compliant with the IC RF Exposure limits under portable exposure conditions. (Antennas are less than 20 cm of a person's body). **(For Bluetooth)**

Canada, avis de l'Industry Canada (IC)

Cet appareil numérique de classe B est conforme aux normes canadiennes ICES-003 et RSS-210.

Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférence et (2) cet appareil doit accepter toute interférence, notamment les interférences qui peuvent affecter son fonctionnement.

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil sans fil est inférieure à la limite d'exposition aux fréquences radio de l'Industry Canada (IC). Utilisez l'appareil sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce périphérique a été évalué et démontré conforme aux limites SAR (Specific Absorption Rate – Taux d'absorption spécifique) par l'IC lorsqu'il est connecté à des dispositifs hôtes spécifiques opérant dans des conditions d'utilisation mobile. **(Pour le Wi-Fi)**

Ce périphérique a également été évalué et démontré conforme aux limites d'exposition radio-fréquence par l'IC pour des utilisations par des opérateurs mobiles (les antennes sont à moins de 20 cm du corps d'une personne). **(Pour le Bluetooth)**

NCC 警語:

經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。(即

低功率電波輻射性電機管理辦法第十二條)

低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

前項合法通信，指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干

擾。(即低功率電波輻射性電機管理辦法第十四條)

10. Revision History

Date	Content	Editor
2023/08/31	Removed all instances of CD disk and its image from this manual.	Peter Yao
2025/07/04	Added liability statements, page I and II. Added “rMQR code” in the supported barcode format. Changed cover page and design layout.	Peter Yao
2025/08/07	Removed “care label” from the supported media type.	Peter Yao
2025/11/10	Update the TSC Console Utility section Add a note to Interface section (RED) Update the Advance section for adding PRTSecure item.	Camille Pao



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