

Copyright Information

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1. Introduction

Thank you very much for purchasing TSC bar code printer.

The new high performance MX240P 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 MX240P Series. The MX240P prints at 203 dpi at speeds up to an amazing 18 inches per second, MX340P offers higher 300 dpi resolution at speeds up to 14 inches per second, and the MX640P 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 MX240P 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 <https://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

1.1.1 Product standard feature

Printing method	Thermal transfer/ or direct thermal
Mechanism	Die-cast based print mechanism and frame / Aluminum cover with large clear media view window
LCD display/ Operation buttons	Multi-language selectable Large Backlit LCD display (LCD: 16 bits Color, Resolution 480 x 272 ; Resistive Touch Screen) with 6 buttons & 3 LEDs
Processor	32-bit RISC high performance processor (536Mhz)
Memory	<ul style="list-style-type: none">■ 512 MB Flash memory■ 512 MB SDRAM memory■ Micro SD card reader for memory expansion, up to 32GB
Interface	<ul style="list-style-type: none">■ RS-232 (Max. 115,200 bps)■ USB 2.0 (High speed mode)■ Internal Ethernet (10/100 Mbps)■ USB host *2 (Front side/ support USB HID only)
Sensors	<ul style="list-style-type: none">■ Gap transmissive sensor (Position adjustable, 5 mm → 100 mm)■ Black mark reflective sensor (Position adjustable, 0 mm → 93.5 mm)■ Ribbon end sensor (transmissive)■ Ribbon encoder sensor■ Head open sensor■ Media capacity sensor
Internal font	<ul style="list-style-type: none">■ 8 alpha-numeric bitmap fonts■ One Monotype Imaging® CG Triumvirate Bold Condensed scalable font
Supported bar code	<ul style="list-style-type: none">■ 1D bar code : Code128 subsets A.B.C, Code128UCC, EAN128, Interleave 2 of 5, Code 39, Code 93, EAN-13, EAN-8, Codabar, POSTNET, UPC-A, UPC-E, EAN and UPC 2(5) digits, MSI, PLESSEY, China Post, ITF14, EAN14, Code 11, TELPEN, PLANET, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS■ 2D bar code: CODABLOCK F mode, DataMatrix, Maxicode, PDF-417, Aztec, MicroPDF417, QR code, RSS Barcode (GS1 Databar)

Font & bar code rotation 0, 90, 180, 270 degree

Command set TSPL-EZ™

- Standard for real time clock
- Standard for buzzer
- Standard industry emulations right out of the box including Eltron® and Zebra® language support
- Built-in Monotype True Type Font engine
- Downloadable fonts from PC to printer memory
- Print head pressure force & pressure location adjustable
- Ribbon supply spindle tension adjustable
- Automatic media/ribbon sensor selecting
- Heater element damage detection
- Clean print head warning

Others

1.1.2 Printer Optional Features

The printer offers the following optional features.

Product option feature	User option	Dealer option	Factory option
Option Card (GPIO & parallel interface)		V	
Internal full rewinding kit (Max. 8“ OD)			V
Peel-off module assembly (Max.4 ips)		V	
Regular guillotine cutter (Max.4 ips)			
Media thickness: 0.06~0.15 mm		V	
Media type: receipt and label liner w/o glue			
Heavy duty cutter			
Media thickness: 0.06~0.30 mm		V	
Media type: receipt, tag, and label liner w/o glue			
Internal Bluetooth 4.0		V	
Wi-Fi a/b/g/n band (Slot-in)	V		
KP-200 Plus keyboard display unit	V		

Note: Except for the linerless cutter, all TSC regular/heavy duty/care label cutters DO NOT cut on media with glue.

1.2 Printer Specifications

Physical dimensions	298 mm (W) x 393 mm (H)x 510 mm (D)
Weight	18 kg (39.68 lbs) Auto sensing power supply (20% print ratio) •Input: AC 100-240V, 4-2A, 50-60Hz •Total 243W
Power	Note: ▪ The max. full web black bar is limited to 5 mm only, otherwise printer may stop printing to protect power supply. ▪ Default delay time to power saver mode for standard model is 60 minutes.
Environmental condition	Operation: 5 ~ 40 °C (41 ~ 104 °F), 25~85% non-condensing Storage: -40 ~ 60 °C (-40 ~ 140 °F), 10~90% non-condensing

1.3 Print Specifications

Print Specifications	MX240P	MX340P	MX640P
Print head resolution (dots per inch/mm)	203 dots/inch (8 dots/mm)	300 dots/inch (12 dots/mm)	600 dots/inch (24 dots/mm)
Printing method	Thermal transfer/ or direct thermal		
Dot size (width x length)	0.125 x 0.125 mm (1 mm = 8 dots)	0.084 x 0.084 mm (1 mm = 12 dots)	0.042 x 0.042 mm (1 mm = 24 dots)
Print speed (inches per second)	2,3,4,5... 18 ips selectable Max. 4 ips for peeler mode	2,3,4,5... 14 ips selectable Max. 4 ips for peeler mode	1.5,2,3.... 6 ips selectable Max. 4 ips for peeler mode
Max. print width	4.09" (104 mm)		
Max. print length	1000" (25400 mm)	450" (11430 mm)	100" (2540 mm)
Printout bias	Vertical: 0.3 ~ 1 mm max. Horizontal: 1 mm max.		

1.4 Ribbon Specifications

Ribbon outside diameter	Max. 90 OD
Ribbon length	600 meter
Ribbon core inside diameter	1" (25.4 mm)
Ribbon width	25.4 mm ~ 114.3 mm (1"~4.5")
Ribbon wound type	Ink coated outside wound, ink coated inside wound
Ribbon end type	Transparent

1.5 Media Specifications

Media Specifications	MX240P	MX340P	MX640P
Media roll capacity	Max. 8" (203.2 mm) OD		
Media core diameter	3" (76.2 mm) ID core		
Media type	Continuous, die-cut, black mark, external fan-fold, notch		
Media wound type	Outside wound		
Media width	20 mm ~ 114 mm (0.78" ~ 4.49")		
Media thickness	0.076 mm ~ 0.305 mm (2.99 ~ 12.01 mil)		
Label length	3 mm ~		
Label length (peeler mode)	25 mm ~ 152 mm (1" ~ 6")		
Label length (cutter mode)	200dpi: 25.4~2,286 mm (1" ~ 90")	300dpi & 600dpi: 25.4~1016 mm (1" ~ 40")	
Black mark	Min. 8 mm (W) x Min. 2 mm (H)		
Gap height	Min. 2 mm		

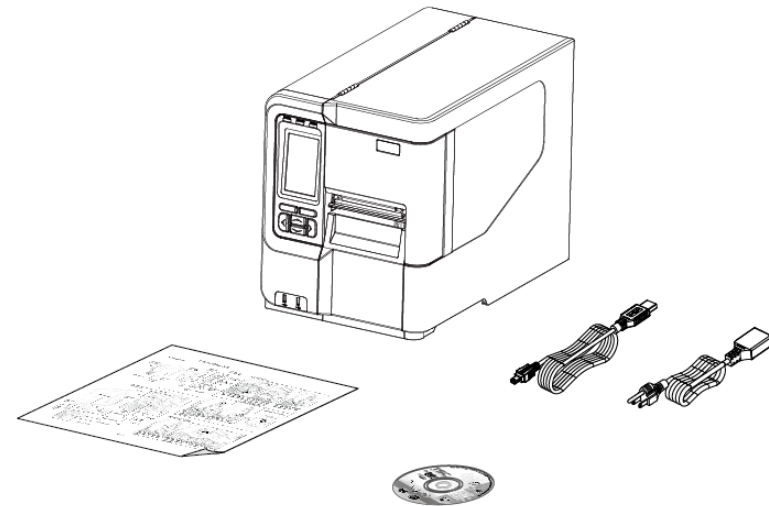
2. Operation Overview

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
- 1 CD unit



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

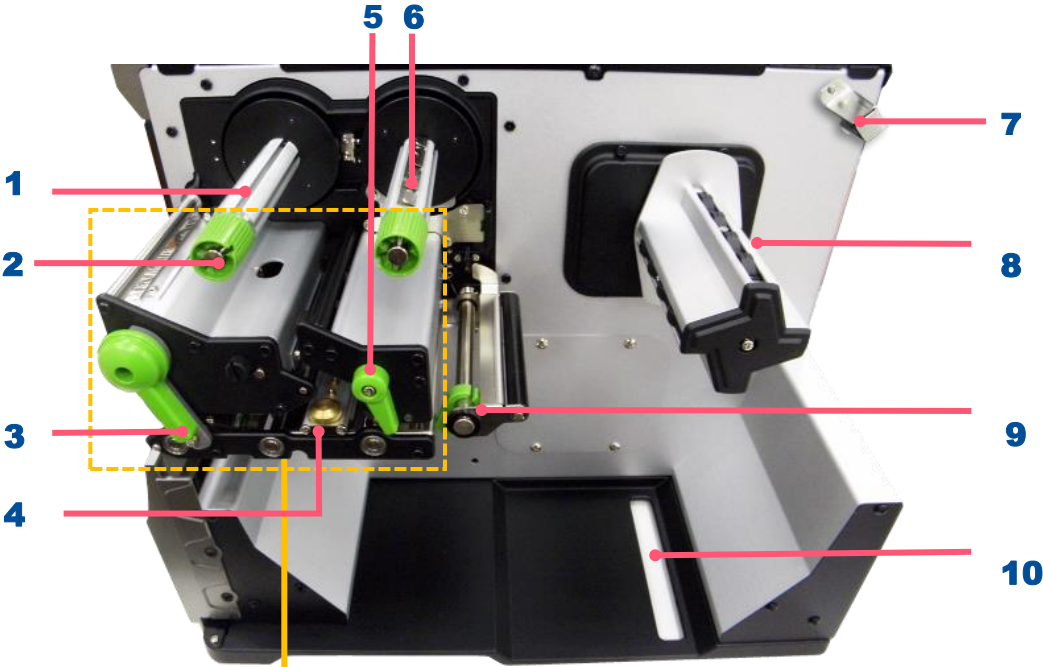
2.2 Printer Overview

2.2.1 Front View

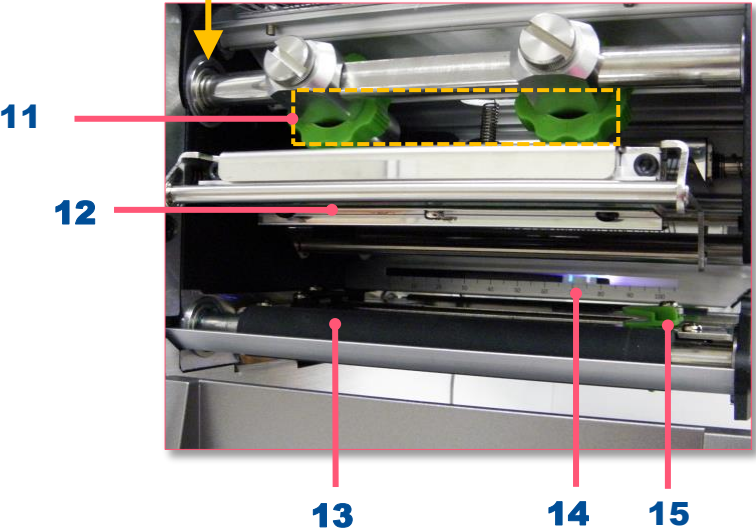


- 1. LED indicators
- 2. LCD display
- 3. Front panel buttons
- 4. USB host x 2
- 5. Media view window
- 6. Paper exit chute
- 7. Media cover

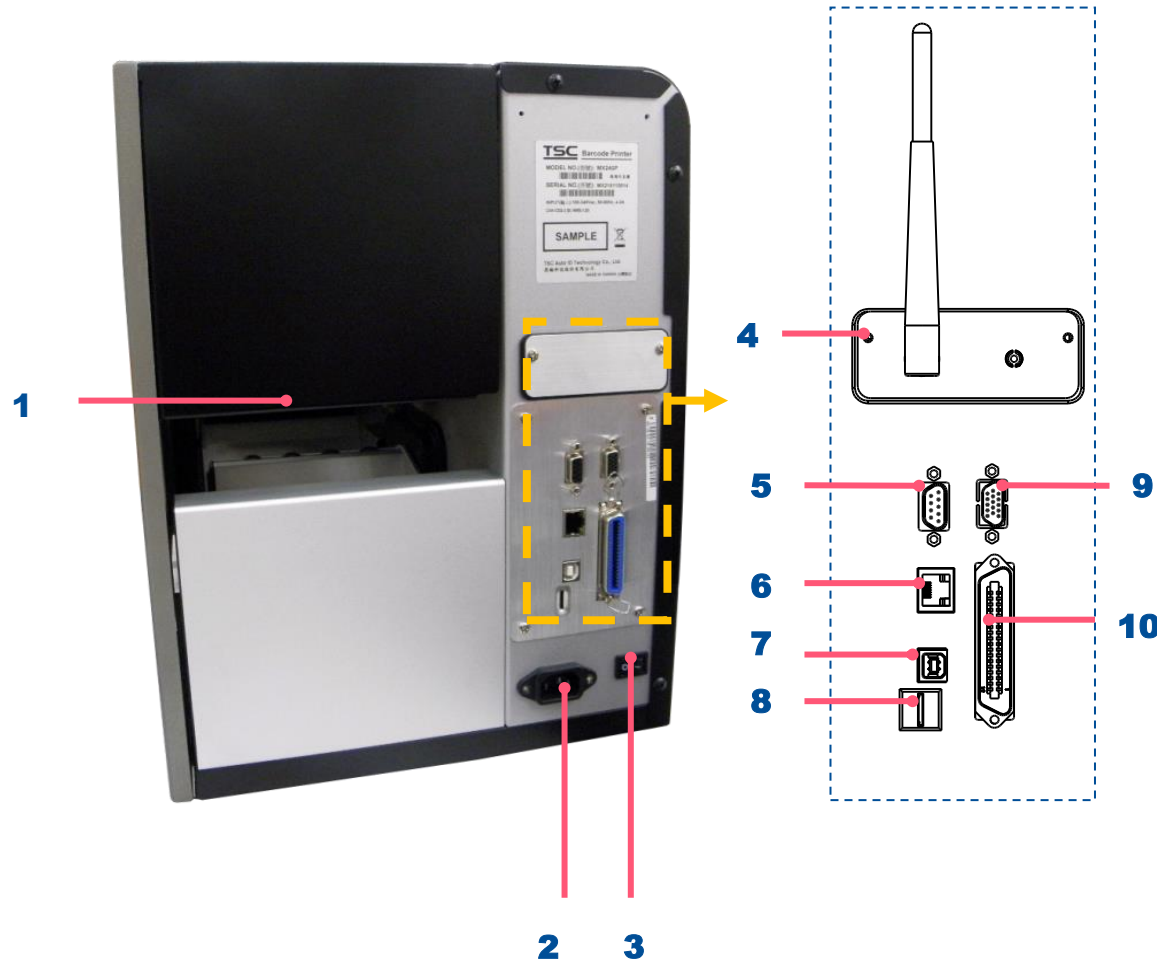
2.2.2 Interior View



- 1.** Ribbon rewind spindle
- 2.** Ribbon rewind tension adjustment knobs
- 3.** Print head release lever
- 4.** Media sensor position adjustment knob
- 5.** Lable 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



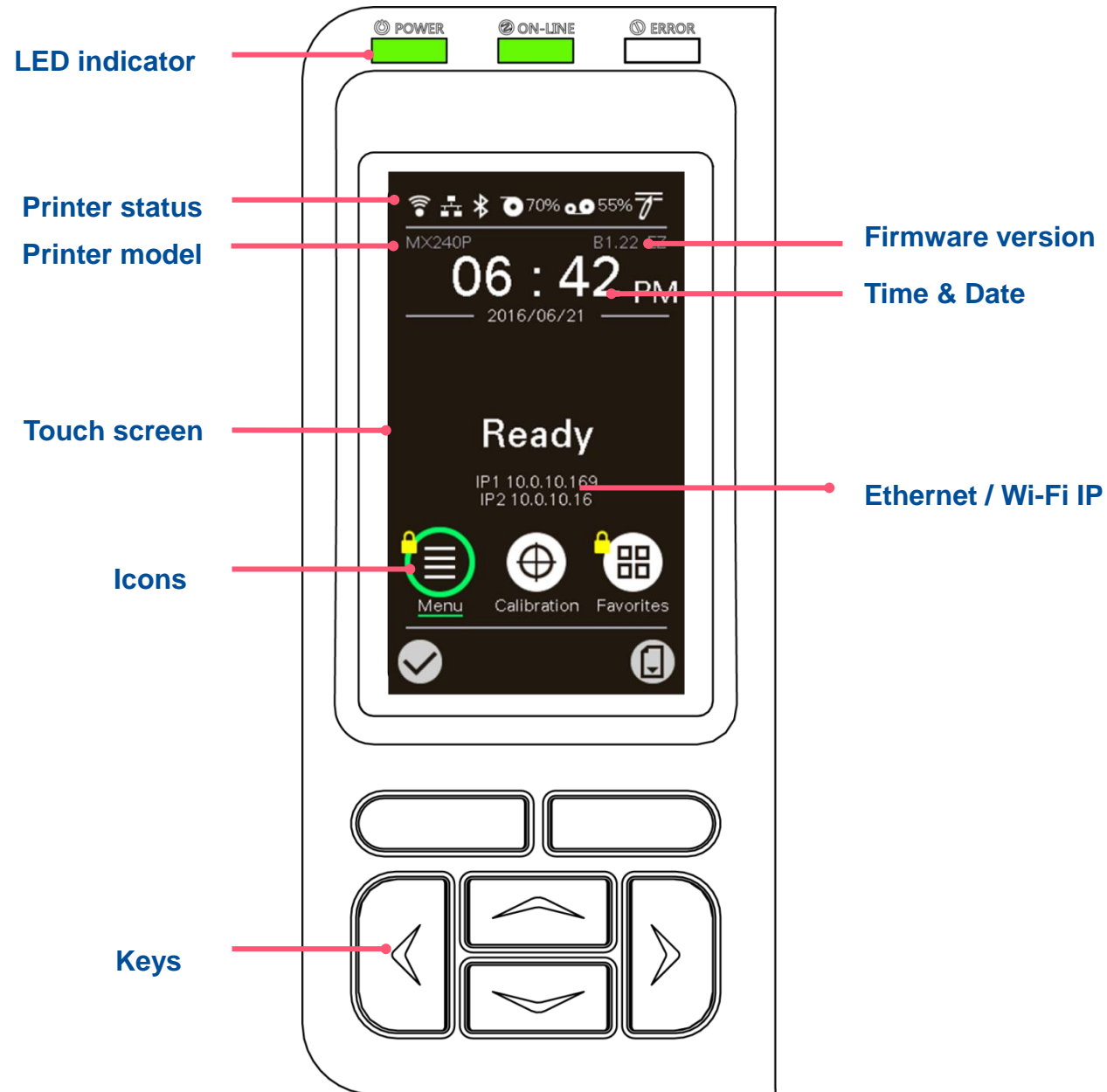
2.2.3 Rear View



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, Comfirm, Cancel.
	Navigational keys	Select / Navigate.

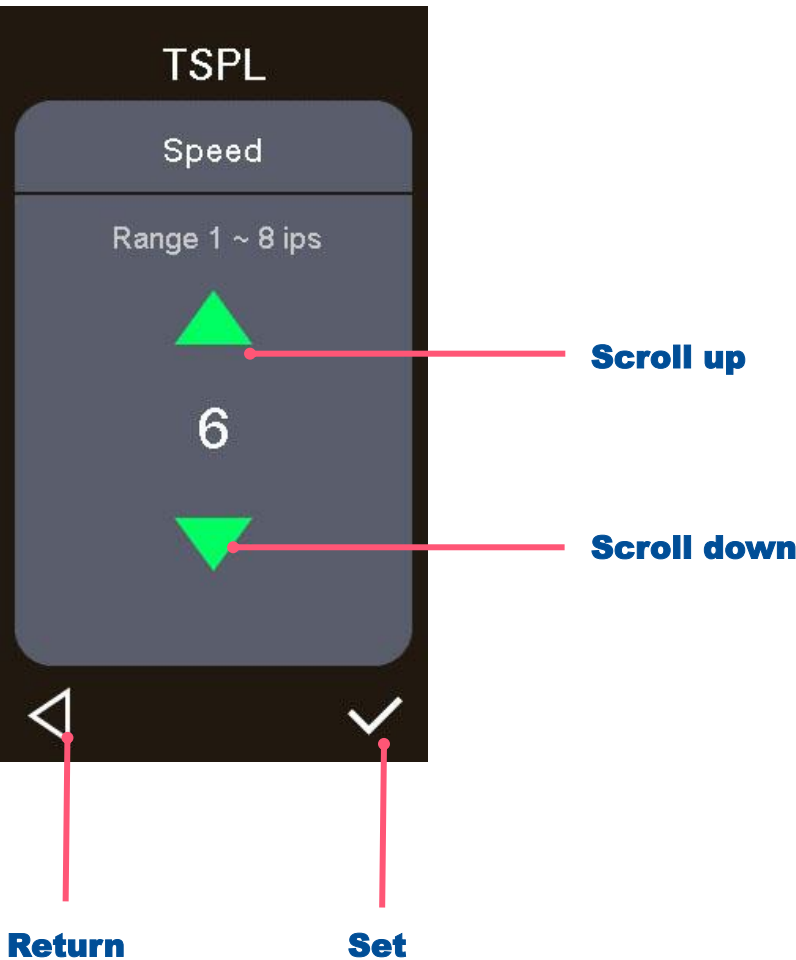
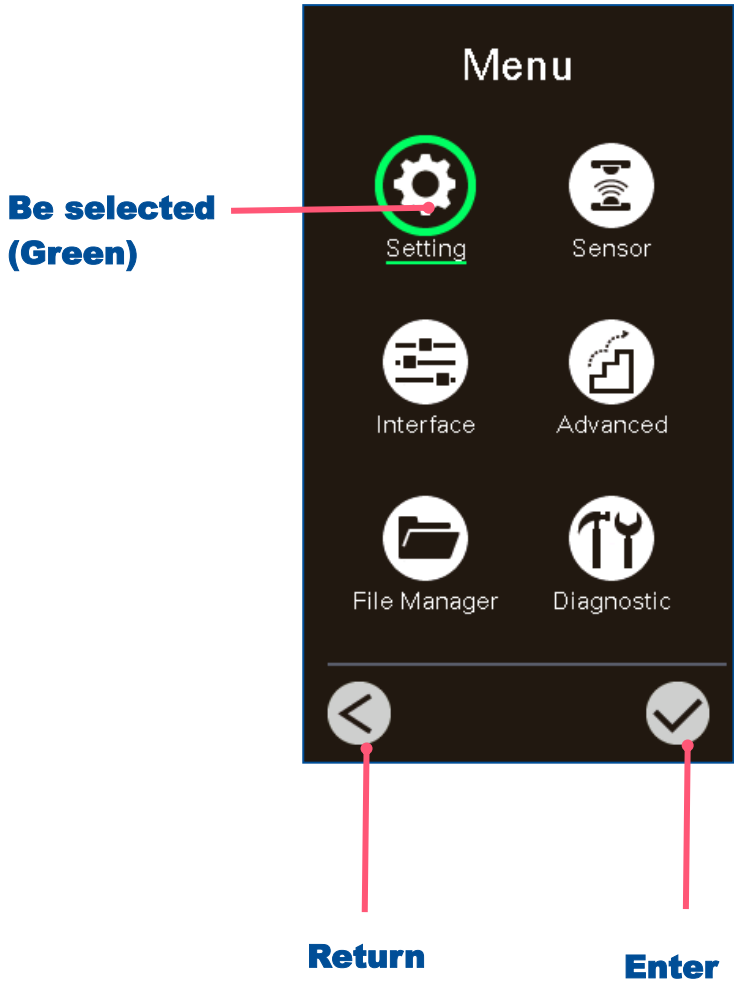
LCD/LED Icon Indication:

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.**

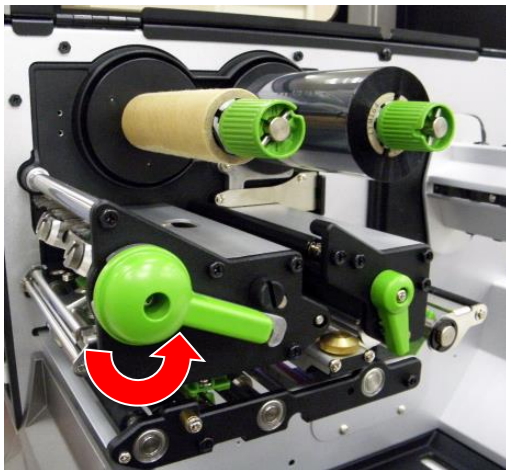
3.2 Loading the Ribbon



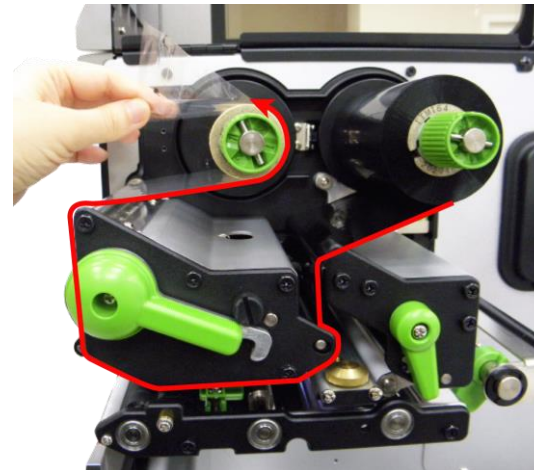
1. Open the media cover.



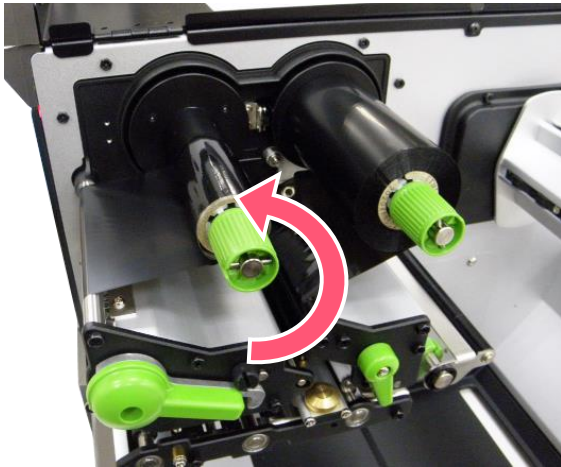
2. Install ribbon on the ribbon supply spindle and paper core on the ribbon rewind spindle.



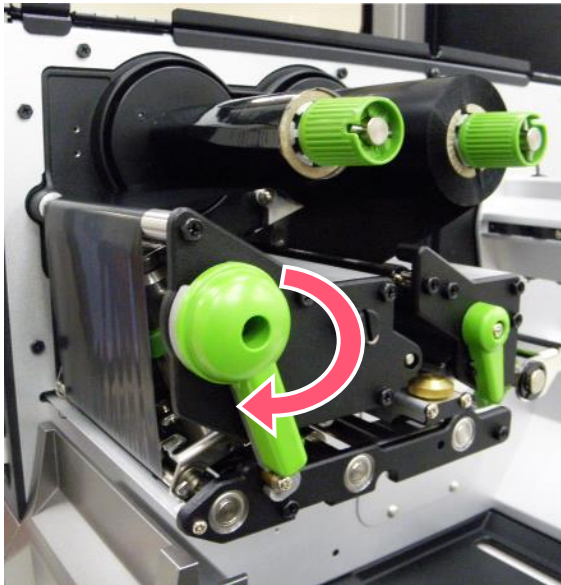
3. Release the lever.



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



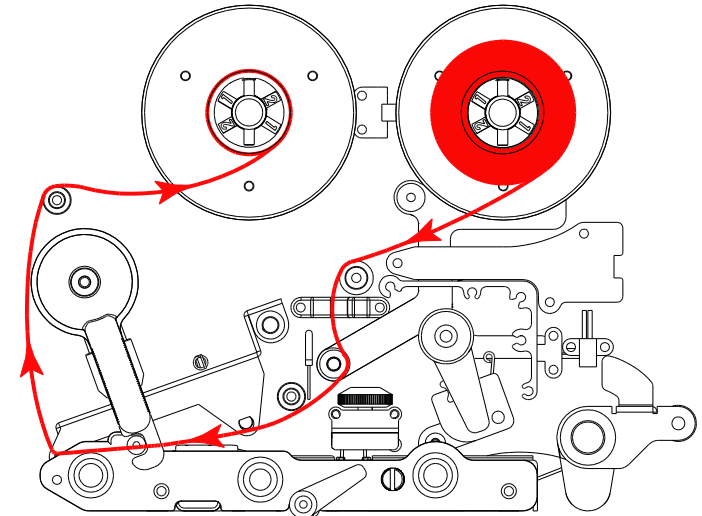
- 5.** Wind the ribbon rewind spindle counterclockwise until the ribbon is smooth, properly stretched and wrinkle-free.



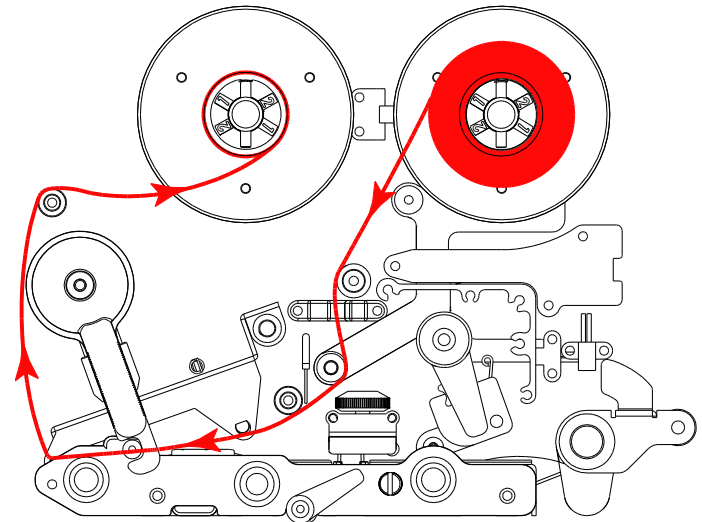
- 6.** Close the print head mechanism and the lever.

Ribbon Loading Path

* Ink coated outside wound



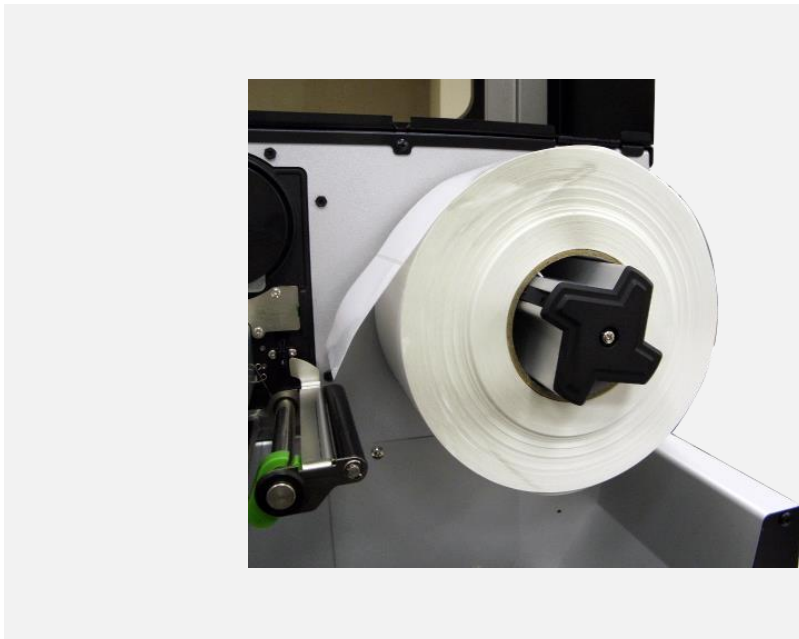
* Ink coated inside wound



3.3 Loading the Media

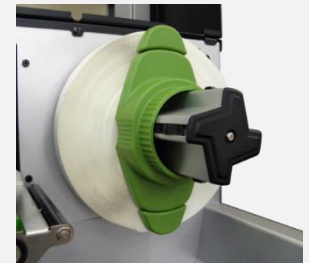


1. Open the media cover.

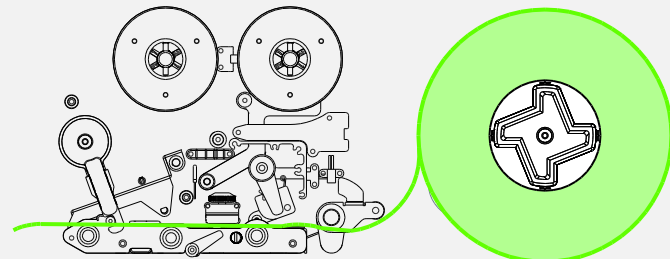


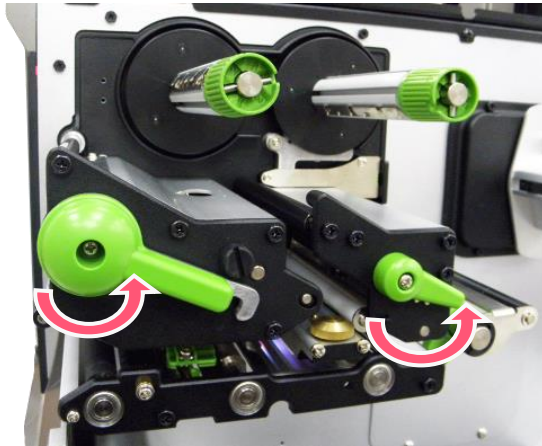
2. Install the media and use label guard to make it fixed.

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

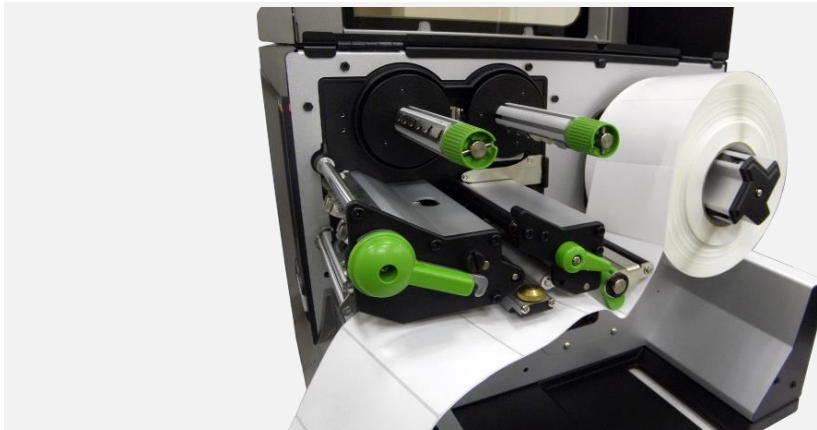


Loading path for media

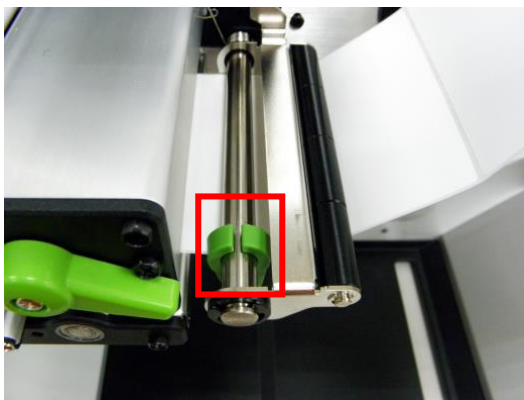




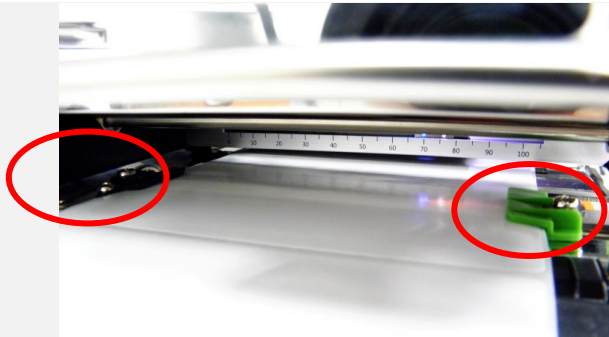
3. Open the print head release lever and label guide bar release lever for loading media.



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.



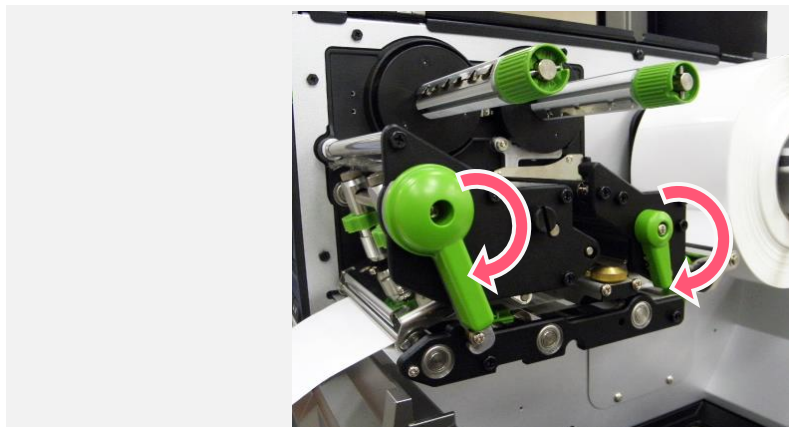
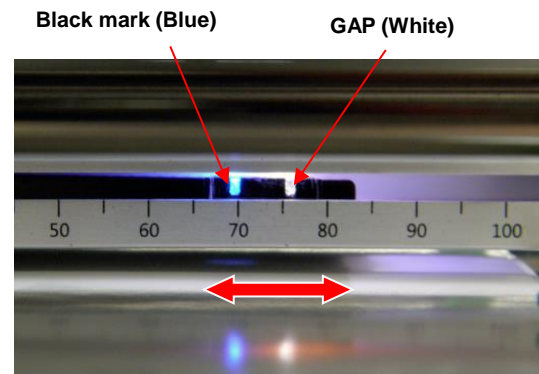
5. Adjust the rear label guide to fit the label width.



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.

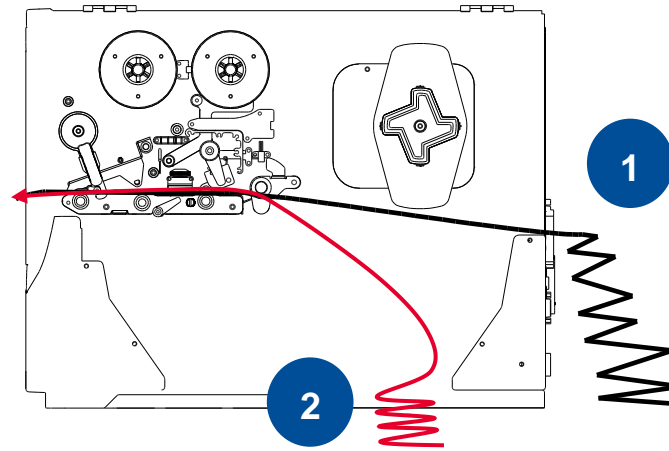
3.4 Loading the Fanfold/External Media



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)



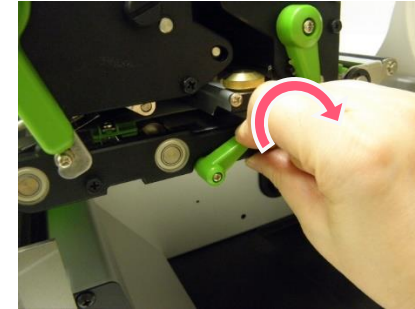
1. Open the media cover.



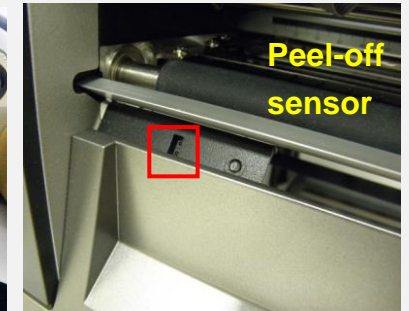
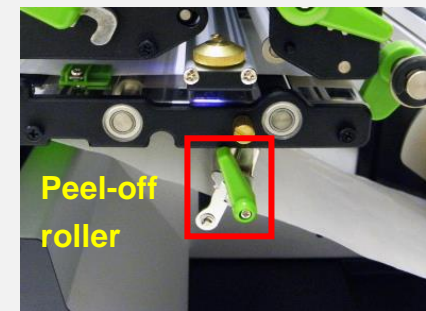
2. Open print head release lever and label guide bar release lever, then pull approximately 650mm of label through the front of the printer.
3. Remove several labels to leave liner.



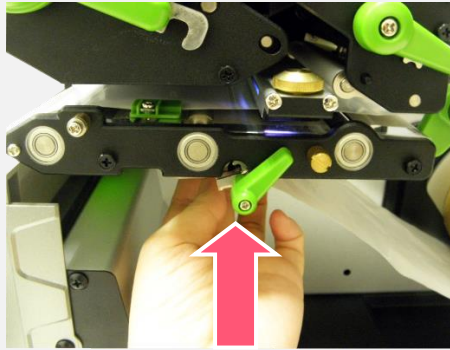
4. Install the paper core onto the liner rewind spindle then open the peel-off roller release lever.



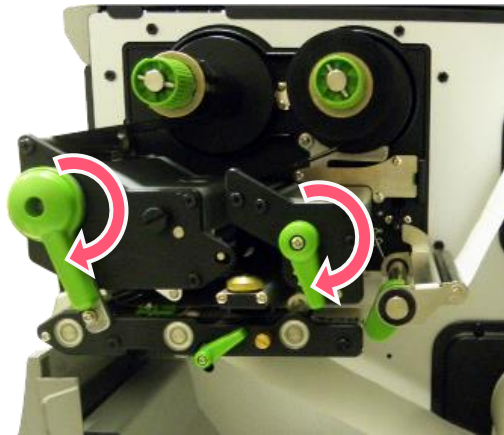
5. Feed the leading edge of liner through the peel-off sensor and peel-off roller.



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.

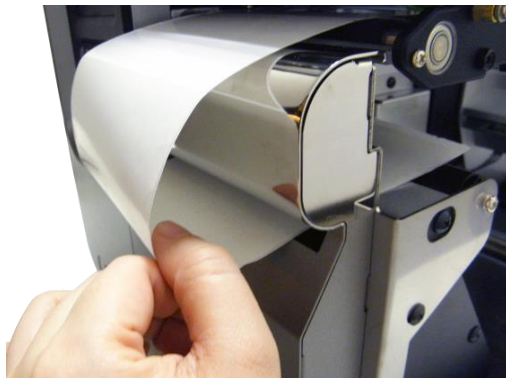
3.6 Loading Media in Rewinder Mode (Option)



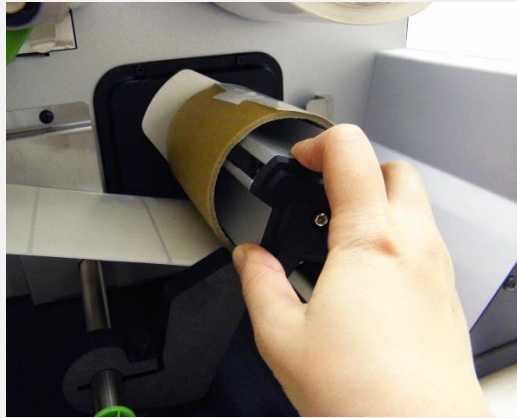
1. Open the media cover.



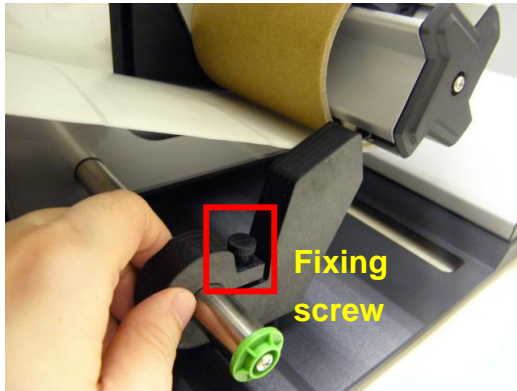
2. Install the paper core on the rewind spindle.



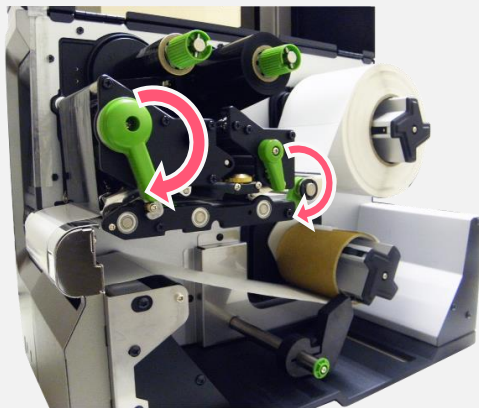
3. Open print head release lever and label guide bar release lever to pull approximately 650mm of label through the front of the printer.
4. Feed the leading edge of media through the redirect front panel as picture shown.



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



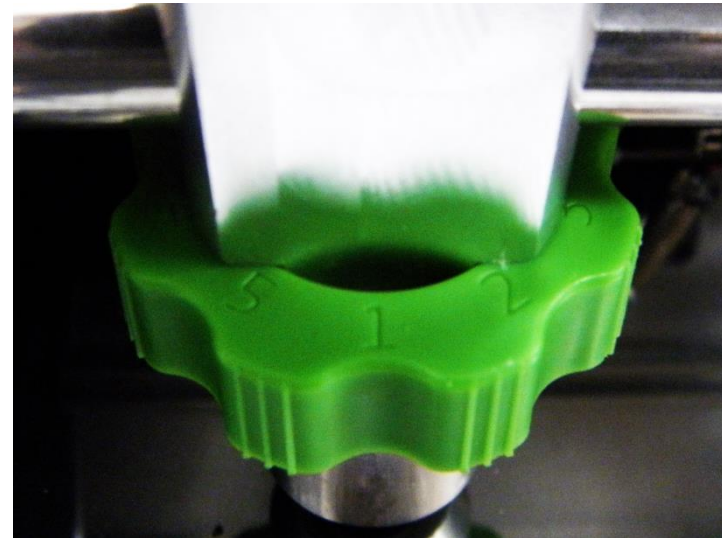
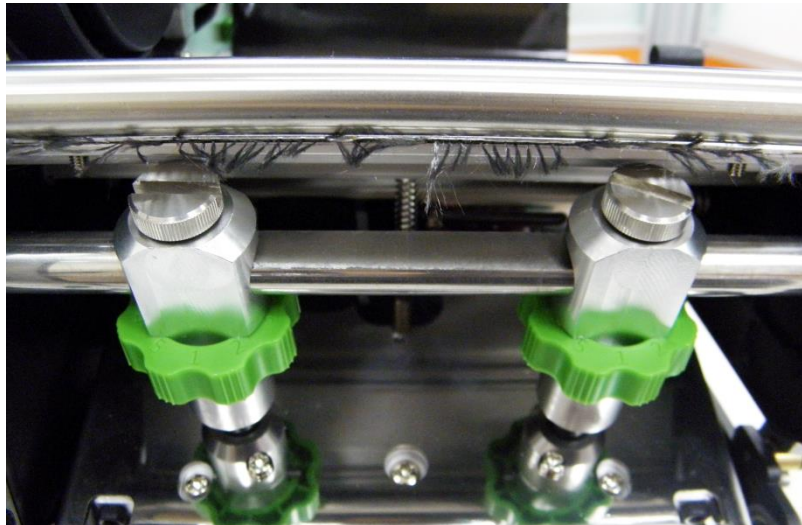
- 6.** Adjust the supply holder guide to fit the supply width. Turn the screw to fix the supply holder guide.



- 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.

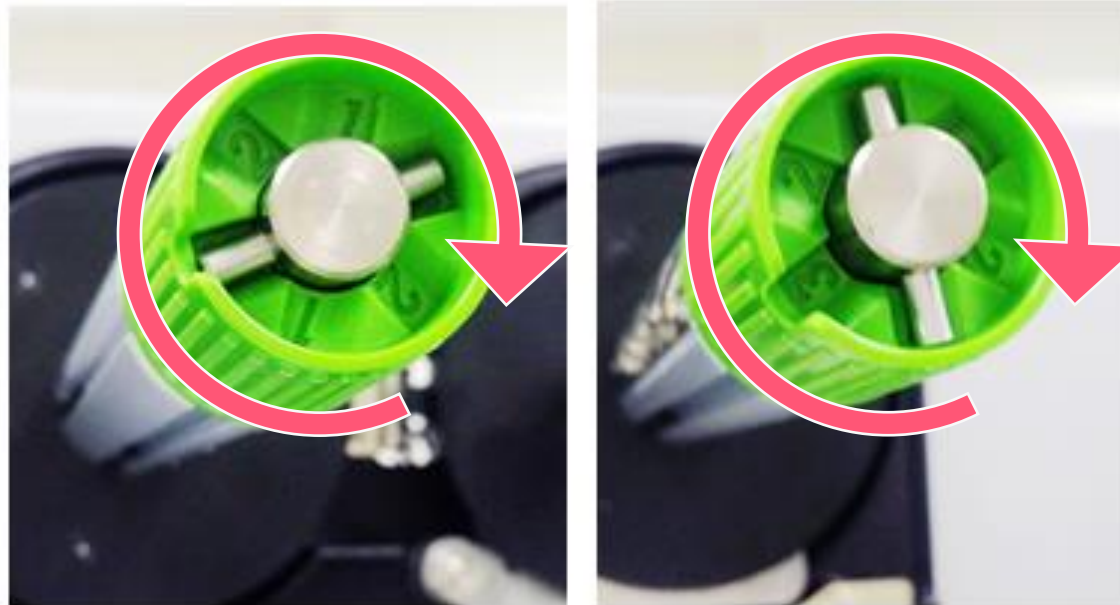


- **Pressure level: 5>4>3>2>1 (5 is the highest)**
- If the label width is 4", adjust both print head pressure to the same level.
- If the label is less than 2" wide, increase the pressure of left adjustment knob and decrease the right side pressure.

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

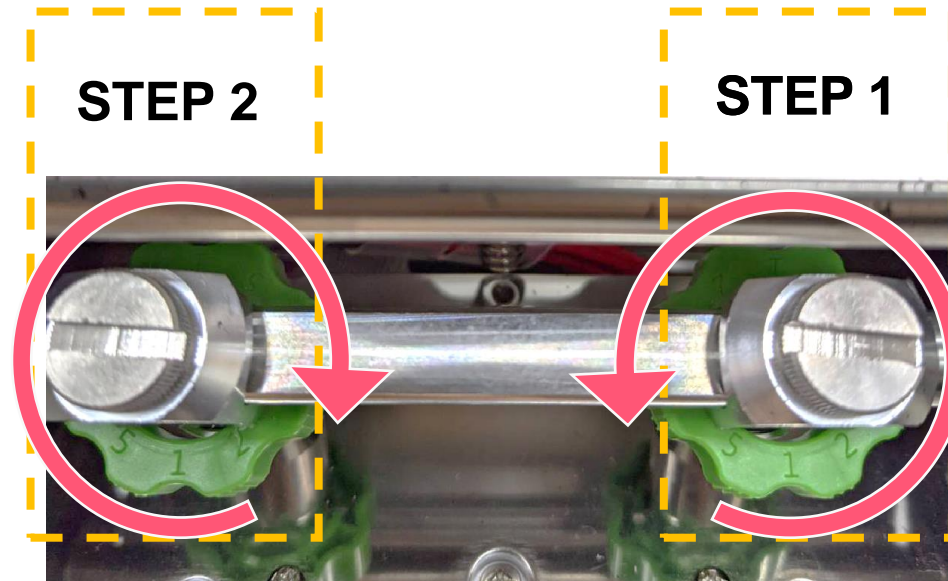


4.2 Mechanism Fine Adjustment to Avoid Ribbon Wrinkles

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.



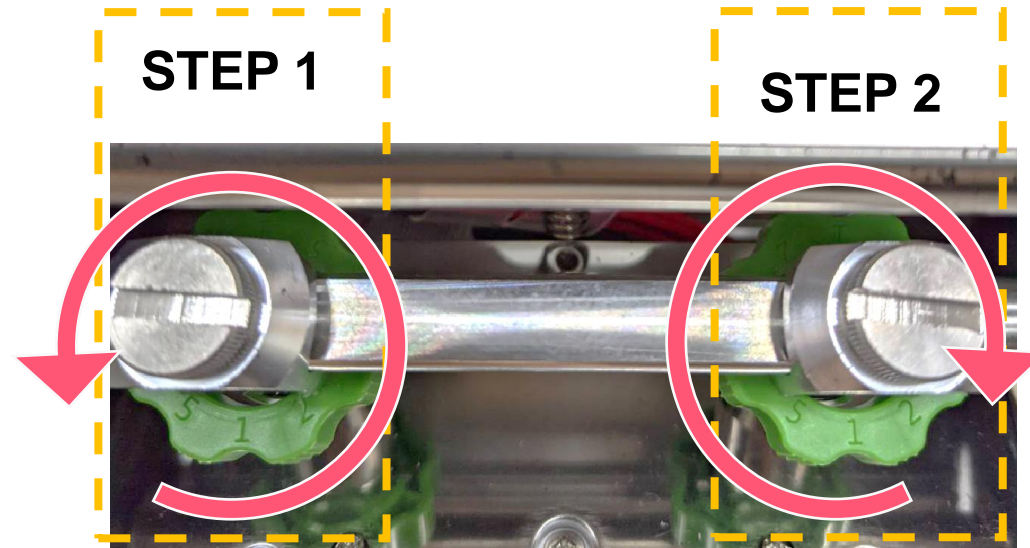
Wrinkle happens from label lower left to upper right direction



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 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.

Wrinkles 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



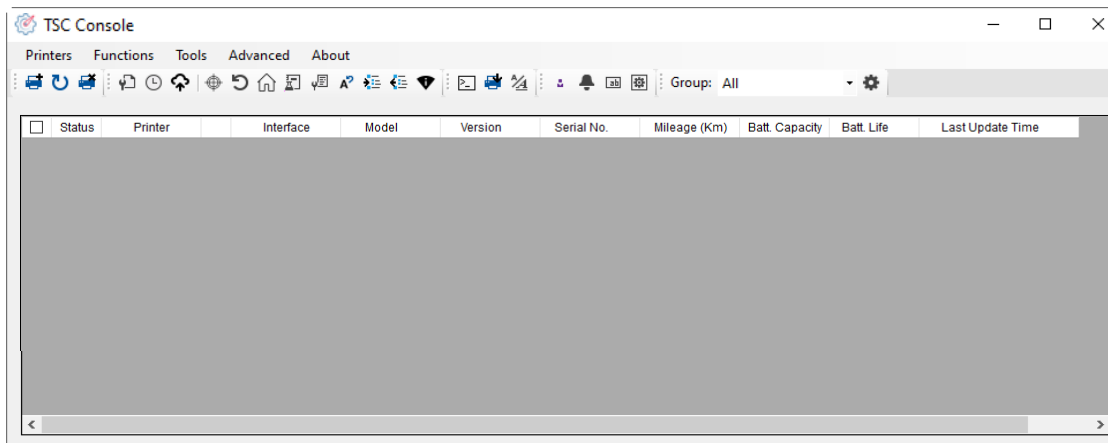
5. TSC Console

TSC Console is a management tool combining the Printer Management, Diagnostic Tool, CommTool and Printer Webpage settings, which enables you to adjust printer's settings/status; change printers' settings; download graphics, deploy fonts, graphics, label templates or upgrade the firmware to the group of printers, and send additional commands to printers at the same time.

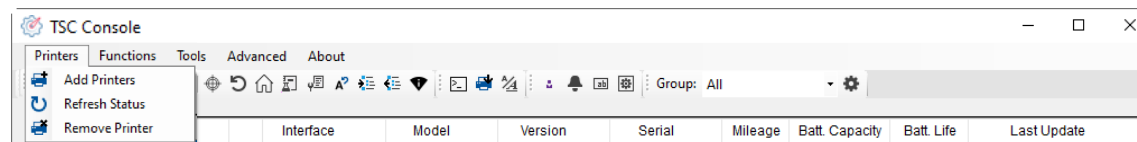
- ※ **Printer firmware version before A2.12 will only use 9100 Port as command port; Printer firmware after A2.12 will use 6101 Port as command port.**

5.1 Start TSC Console

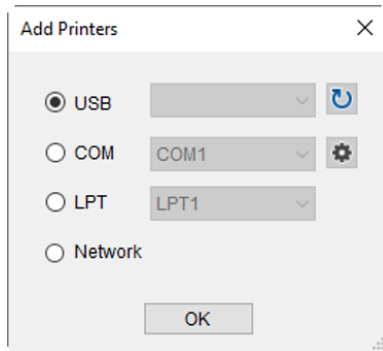
1. Double click TSC Console icon to start the software.



2. Manually add the devices by clicking **Printer > Add Printers**.

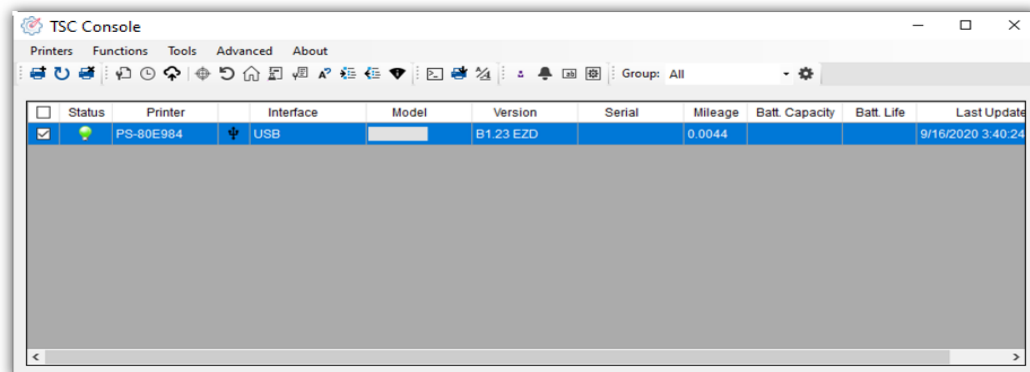


3. Select the current interface of the printer.



4. The printer will be added to **TSC Console**'s interface.

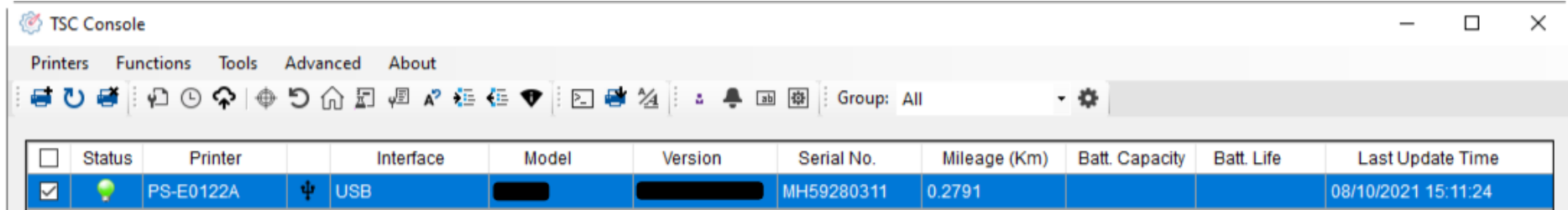
5. Select the printer and set the settings.



- For more information, please refer to **TSC Console User Manual**.

5.2 Setup Ethernet Interface

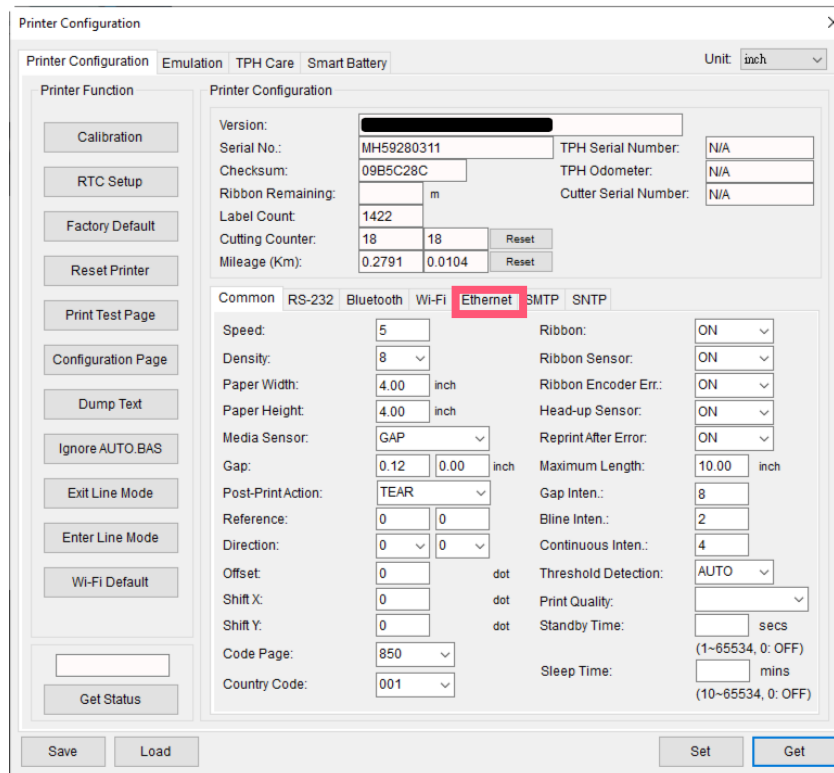
- Use **USB** or **COM** to establish the interface on **TSC Console**.



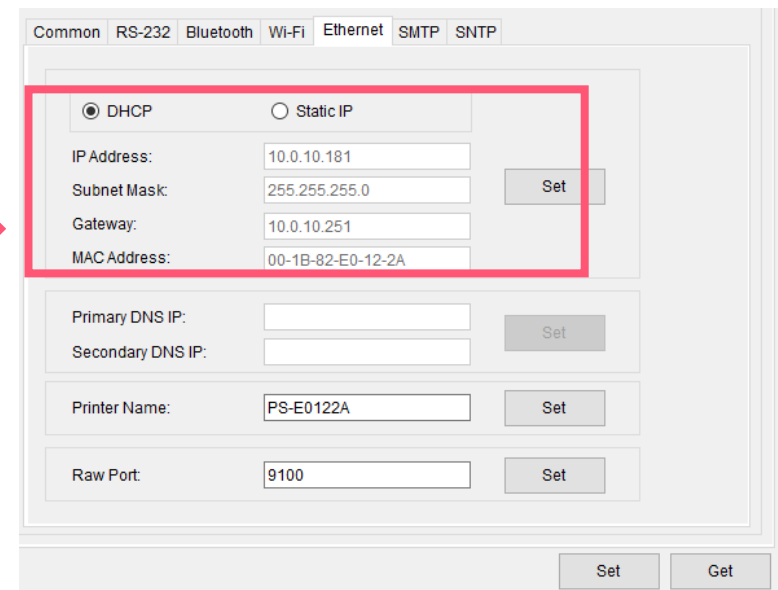
The screenshot shows the TSC Console software interface. At the top, there are menu options: Printers, Functions, Tools, Advanced, and About. Below the menu is a toolbar with various icons. A status bar at the bottom of the toolbar shows 'Group: All'. The main area contains a table with the following columns: Status, Printer, Interface, Model, Version, Serial No., Mileage (Km), Batt. Capacity, Batt. Life, and Last Update Time. The table has one row of data:

Status	Printer	Interface	Model	Version	Serial No.	Mileage (Km)	Batt. Capacity	Batt. Life	Last Update Time
<input checked="" type="checkbox"/>	PS-E0122A	USB			MH59280311	0.2791			08/10/2021 15:11:24

- Double click to enter the **Printer Configuration Page** > Click **Ethernet** tab > Check the **IP Address**.

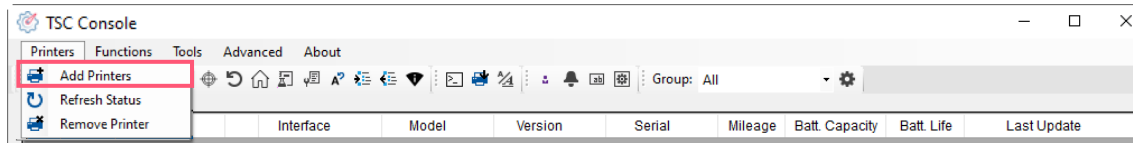


The screenshot shows the 'Printer Configuration' dialog box. It has several tabs: Printer Configuration, Emulation, TPH Care, and Smart Battery. The 'Printer Configuration' tab is active. On the left, there is a 'Printer Function' sidebar with buttons like Calibration, RTC Setup, Factory Default, Reset Printer, Print Test Page, Configuration Page, Dump Text, Ignore AUTO.BAS, Exit Line Mode, Enter Line Mode, and Wi-Fi Default. The main area is divided into sections for printer details and settings. The 'Ethernet' tab is selected and highlighted with a red box. The 'Ethernet' section shows the DHCP radio button selected and the Static IP radio button unselected. Below this, there are input fields for IP Address (10.0.10.181), Subnet Mask (255.255.255.0), Gateway (10.0.10.251), and MAC Address (00-1B-82-E0-12-2A). A 'Set' button is next to the Subnet Mask field. Other settings like Speed, Density, Paper Width, Paper Height, Media Sensor, Gap, Post-Print Action, Reference, Direction, Offset, Shift X, Shift Y, Code Page, and Country Code are also visible.

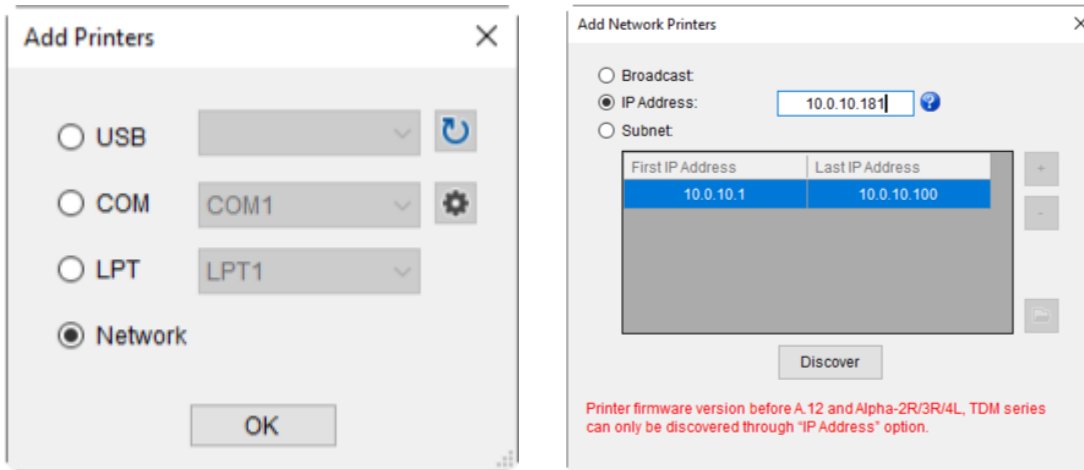


The screenshot shows the 'Ethernet' settings panel. It has tabs for Common, RS-232, Bluetooth, Wi-Fi, Ethernet, SMTP, and SNTP. The 'Ethernet' tab is active. The panel shows the DHCP radio button selected and the Static IP radio button unselected. Below this, there are input fields for IP Address (10.0.10.181), Subnet Mask (255.255.255.0), Gateway (10.0.10.251), and MAC Address (00-1B-82-E0-12-2A). A 'Set' button is next to the Subnet Mask field. Other settings like Primary DNS IP, Secondary DNS IP, Printer Name (PS-E0122A), and Raw Port (9100) are also visible.

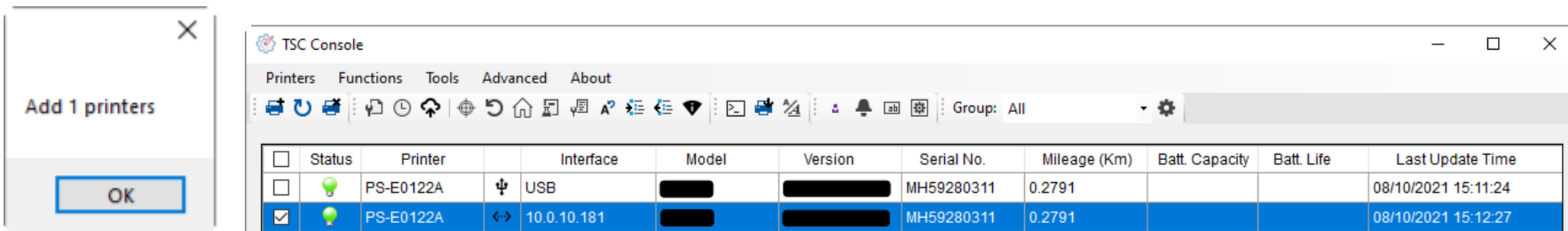
- Return to **TSC Console** main page > Click **Add Printer** on the top left of the window.



- Choose **Network** > Key in the **IP Address** > Click **Discover** to establish the Ethernet interface.

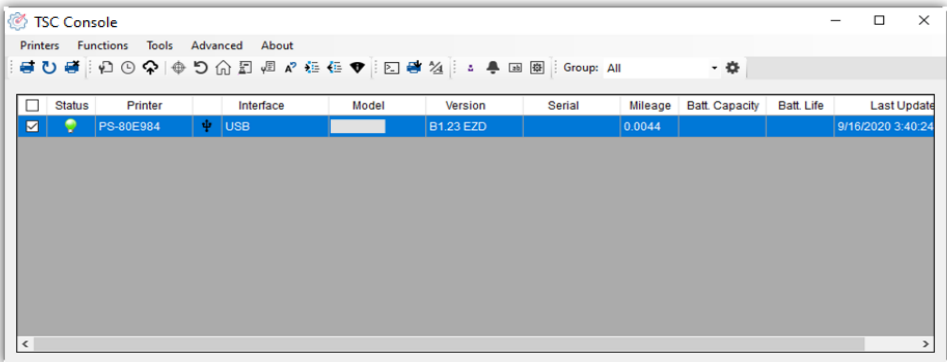


- The notification will pop up > Click **OK** to close the window > The Ethernet interface will be shown on **TSC Console**.

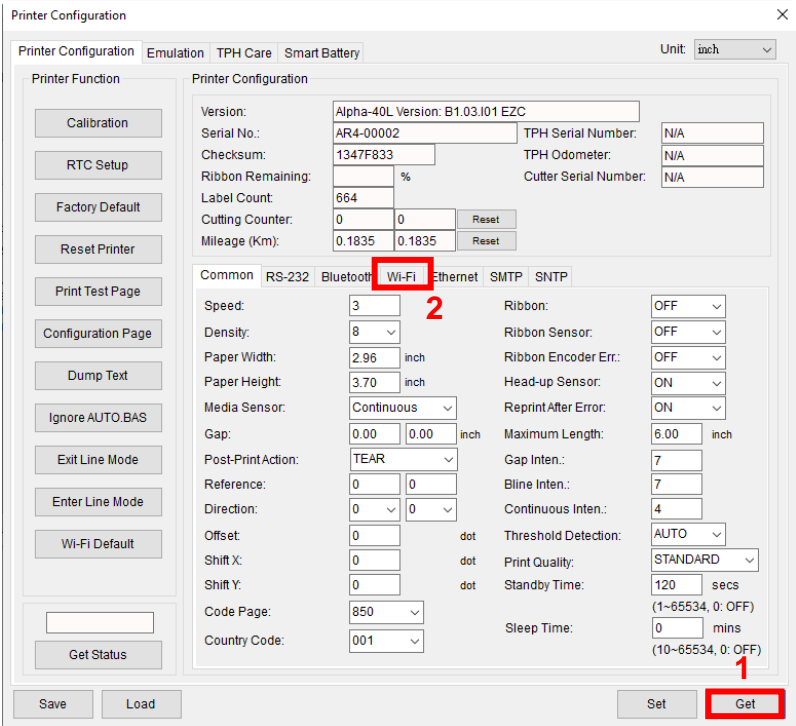


5.3 Set WiFi and Add to TSC Console Interface

- Use **USB** or **COM Port** to set up the interface.
(refer to chp.5.1)
- Double click to enter the printer configuration page.



- Click **Get** to receive printer's information.
- Click **Wi-Fi** to the wi-fi setting page.



For WPA-Personal

- I. Fill-in the **SSID**.
- II. Select the Encryption option to **WPA-Personal**.
- III. Fill-in the Key.
- IV. Select **DHCP** to **ON**. (For **OFF** option, please fill-in the IP Address, Subnet Mask and Gateway)
- V. After setting, click the **Set** button.

Note:

Before setting, the entered field will be shown in yellow for reminding.

On DHCP, user can change the printer name by another model name in "Printer Name" field.

User also can change the raw port in "Raw Port" field.

Common RS-232 Bluetooth Wi-Fi Ethernet SMTP SNTP

Built-in Wi-Fi Module

SSID: SSID_1

WLAN Encryption: WPA-Personal

Key: ●●●●

DHCP: ON

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway: 0.0.0.0

Primary DNS IP: 0.0.0.0

Secondary DNS IP: 0.0.0.0

Raw Port: 9100

Printer Name: PS-FF153C

MAC Address: 00:1B:82:FF:15:3C

EAP Type: [Dropdown]

Username: [Text]

Password: [Text]

CA Certificate: [Browse]

Client Certificate: [Browse]

Private Key: [Browse]

EAP-FAST PAC: [Browse]

File Name Browse

Wi-Fi Version: 3.7.1.0R6

RSSI: 0

Set Get

For WPA-Enterprise

- I. Fill-in the **SSID**.
- II. Select the Encryption option to **WPA2-Enterprise**.
- III. Select DHCP to **ON** (For **OFF** option, please fill-in the IP Address, Subnet Mask and Gateway)
- IV. Select the **EAP Type** option. (For **EAP-TLS** option, please upload the CA and Key for mutual authentication, integrity-protected cipher suite negotiation, and key exchange between two endpoints.)
- V. After setting, click the **Set** button.

Note:

Before setting, the entered field will be shown in yellow for reminding.

On DHCP, user can change the printer name by another model name in "Printer Name" field.

User also can change the raw port in "Raw Port" field.

Common RS-232 Bluetooth Wi-Fi Ethernet SMTP SNTP

Built-in Wi-Fi Module

SSID: SSID_2

WLAN Encryption: WPA-Enterprise

Key: ●●●●

DHCP: ON

IP Address: 0.0.0.0

Subnet Mask: 0.0.0.0

Gateway: 0.0.0.0

Primary DNS IP: 0.0.0.0

Secondary DNS IP: 0.0.0.0

Raw Port: 9100

Printer Name: PS-FF153C

MAC Address: 00:1B:82:FF:15:3C

EAP Type: [Dropdown]

Username: [Text]

Password: [Text]

CA Certificate: [Browse]

Client Certificate: [Browse]

Private Key: [Browse]

EAP-FAST PAC: [Browse]

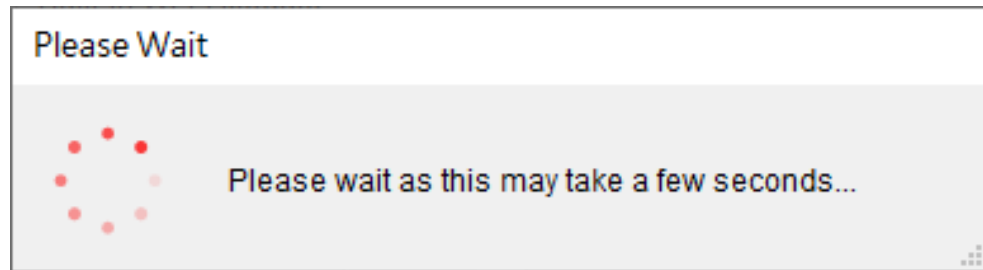
File Name Browse

Wi-Fi Version: 3.7.1.0R6

RSSI: 0

Set Get

- After clicking **Set** button, it'll pop-up the window tip as below shown.

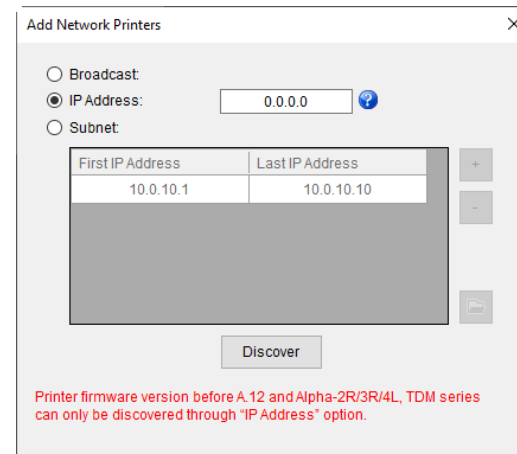


- IP address will be shown in the "IP address" field and the Wi-Fi logo and IP address will be displayed on the LCD control panel.

Note:

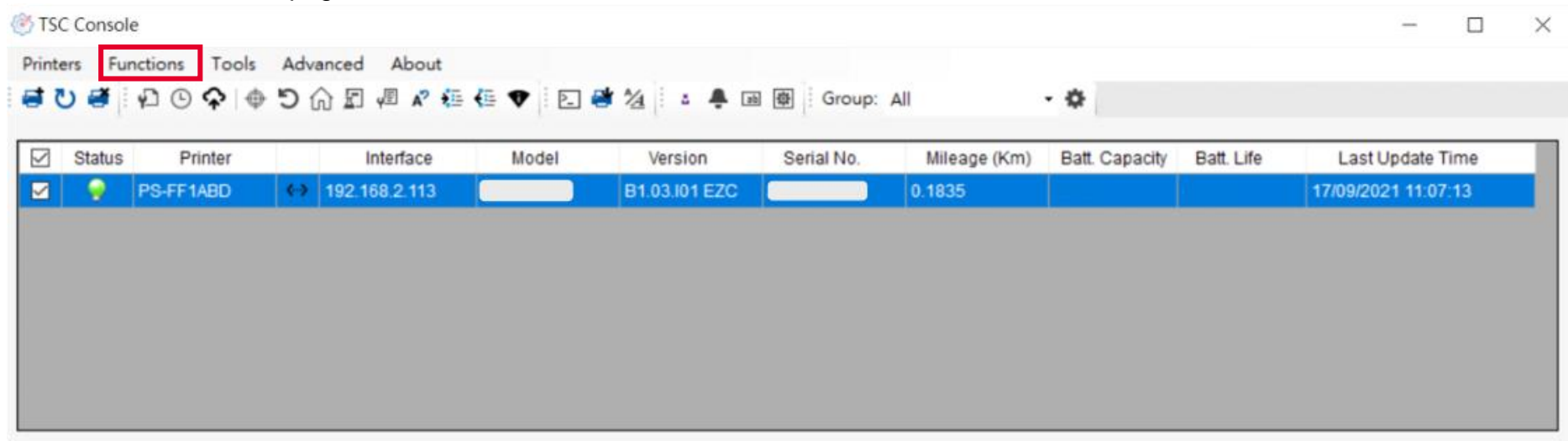
IP address should be shown within about 5~15 seconds after printer turn on. If not, please refer to steps below to initialize the printer Wi-Fi module settings then to setup it again.

- Remove the cable between the computer and the printer.
- Go to main page, click **Add Printer** to add the printer via **Network**.
- Select the printer and enter the setting page by double clicking the printer.
- Click the **Print Test Page** button to print the test page via Wi-Fi interface.

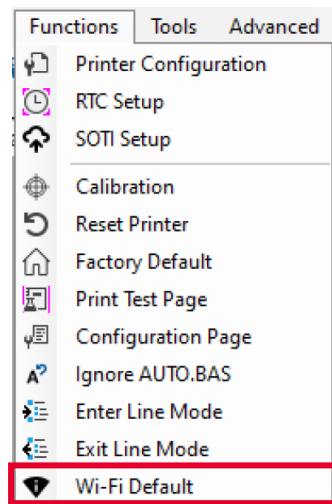


5.4 Initialize the Printer WiFi Setting

1. Return to the main page of TSC Console.



2. Click **Functions** to expand the page.
3. Click **Wi-Fi Default** to initialize the printer Wi-Fi module setting to factory default setting.



5.5 Printer Function

Printer Function could be found in **Printer Configuration**. “Printer Function” will be shown on the left side of the window.



Functions	Description
Calibrate Sensor	Detect media types and the size of the label
RTC Setup	Synchronize printer with Real Time Clock on PC
Factory Default	Initialize the printer to default settings
Reset Printer	Reboot printer
Print Test Page	Print test page according to the specified label size and sensor type.
Configuration Page	Print printer configurations
Dump Text	Activate the printer to dump mode
Ignore AUTO.BAS	Ignore AUTO.BAS file when printer boot up.
Exit Line Mode	Exit the line mode to page mode
Enter Line Mode	Leave page mode and enter line mode
Reset WiFi	Restore the WiFi settings to defaults.

5.6 Setting Post-Print Action

When the printer is equipped with other option kits, ex: cutter, peeler, rewinder, please select the mode after finishing the calibration.

Follow below procedure to set the post action for the printing:

Refer Chp 5.1 to Connect the printer with **TSC Console** > **Double click** the printer > The **Printer Configuration Page** will pop up > Click **Get** to load information > Go to **Common Tab** > Find **Post-Print Action** > **Select the mode** depends on users' application > Click **Set**.

Printer Configuration

Printer Configuration Emulation TPH Care Smart Battery Unit: mm

Printer Function

Calibration

RTC Setup

Factory Default

Reset Printer

Print Test Page

Configuration Page

Dump Text

Ignore AUTO.BAS

Exit Line Mode

Enter Line Mode

Wi-Fi Default

Get Status

Save Load

Printer Configuration

Version: []

Serial No.: [] TPH Serial Number: N/A

Checksum: 1344B9B1 TPH Odometer: N/A

Ribbon Remaining: [] % Cutter Serial Number: N/A

Label Count: 553

Cutting Counter: 0 0 Reset

Mileage (Km): 0.0913 0.0913 Reset

Common RS-232 Bluetooth Wi-Fi Ethernet SMTP SNTP

Speed: 3 Ribbon: OFF

Density: 8 Ribbon Sensor: OFF

Paper Width: 104.00 mm Ribbon Encoder Err.: OFF

Paper Height: 74.05 mm Head-up Sensor: ON

Media Sensor: Black Mark Reprint After Error: ON

Gap: 1.99 0.00 mm Maximum Length: 152.25 mm

Post-Print Action: [] Gap Inten.: 7

Reference: OFF Bline Inten.: 7

Direction: TEAR Continuous Inten.: 4

Offset: PEEL Threshold Detection: AUTO

Shift X: CUTTER Print Quality: STANDARD

Shift Y: REWIND Standby Time: 120 secs

Code Page: 850 Sleep Time: 0 mins

Country Code: 001 (1~65534, 0: OFF)

(10~65534, 0: OFF)

3 1

Set Get



6. LCD Menu Function

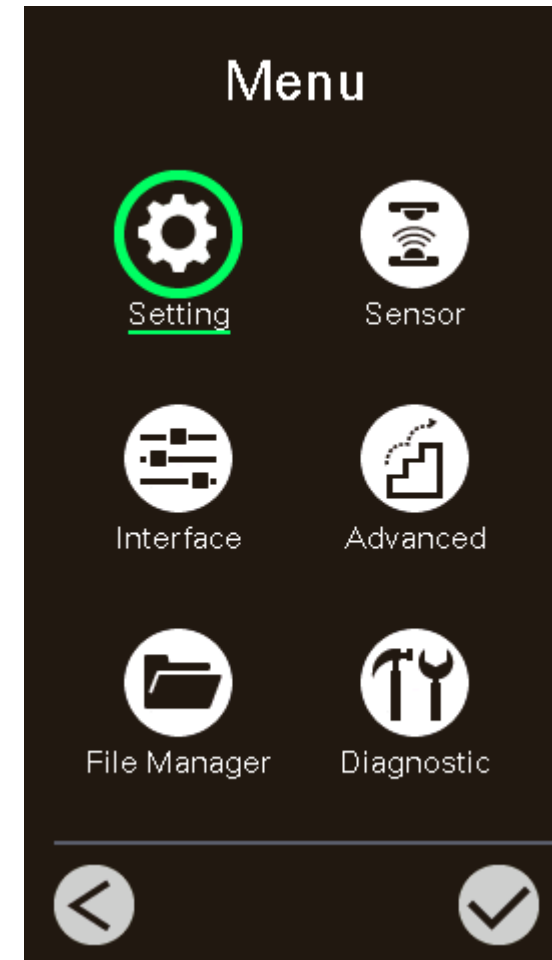
6.1 Enter the Menu

- **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.



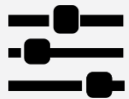
Advanced : To set LCD, initialization, cutter type,...etc.



Sensor : To calibrate the selected media sensor.



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



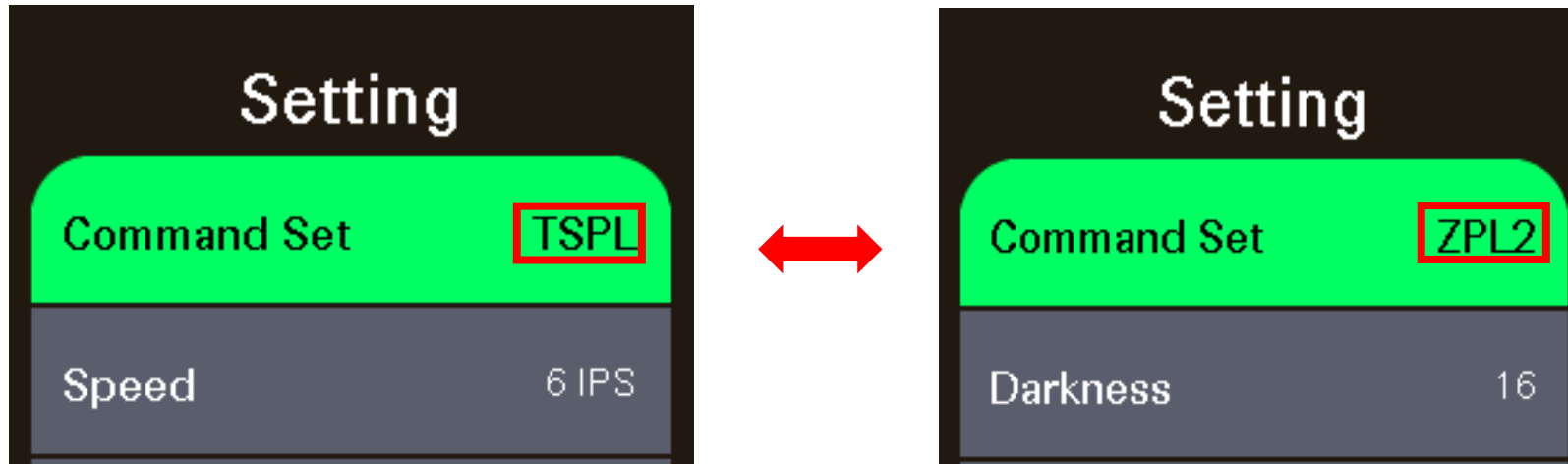
Interface : To set the printer interface settings.



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

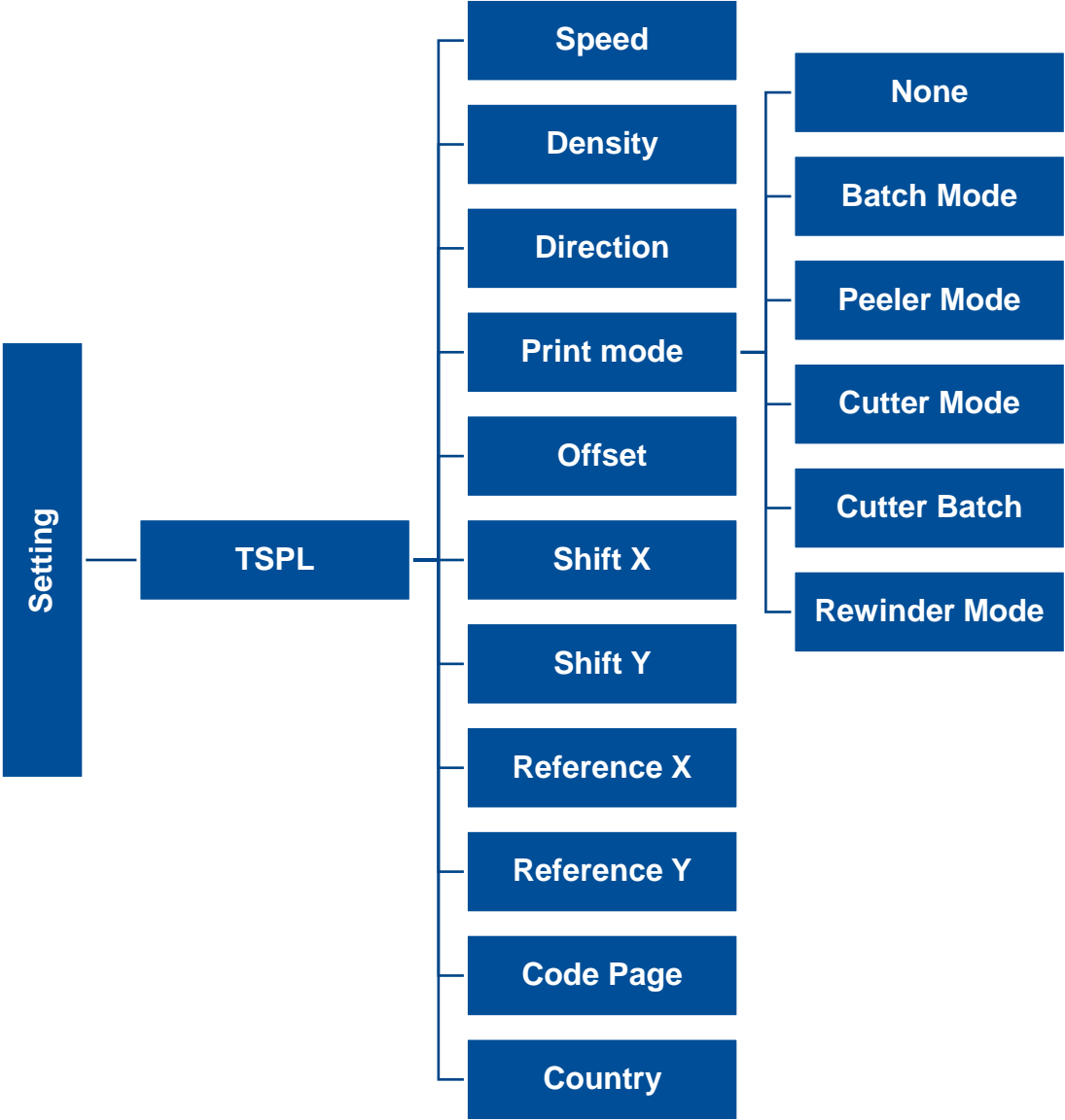
6.3 Setting

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.

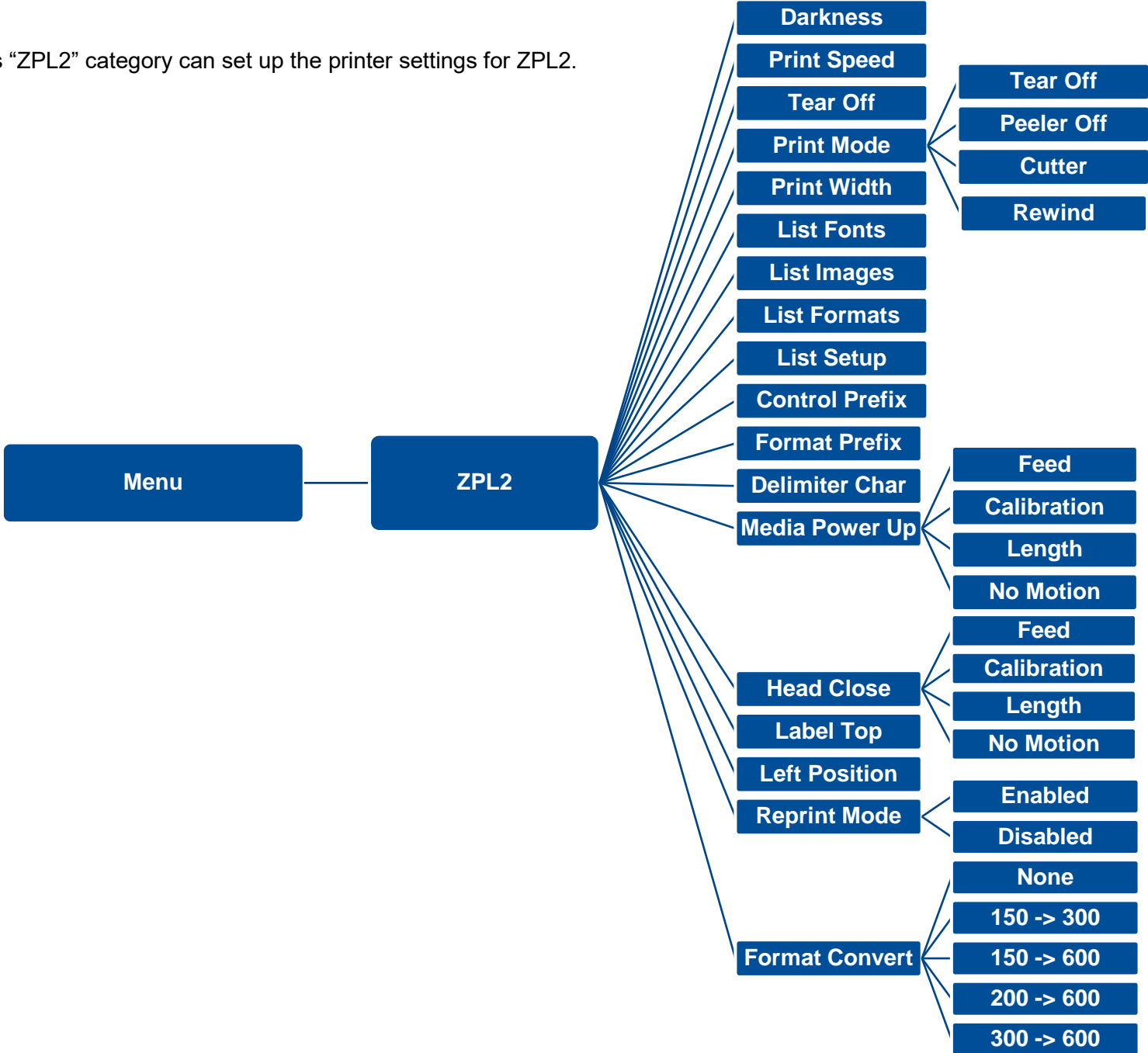


Item	Description	Default
Speed	Set the print speed. Setting range: 2~18 for 203dpi; 2~14for 300dpi; 1.5~6 for 600dpi	203 dpi: 6 300 dpi: 4 600 dpi: 3
Density	Set printing darkness. Setting range: 0 to 15, and the step is 1.	8
Direction	Set the printout direction. Setting Value: 0 and 1. Direction 0: <input type="text" value="Direction"/> Direction 1: <input type="text" value="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.	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.



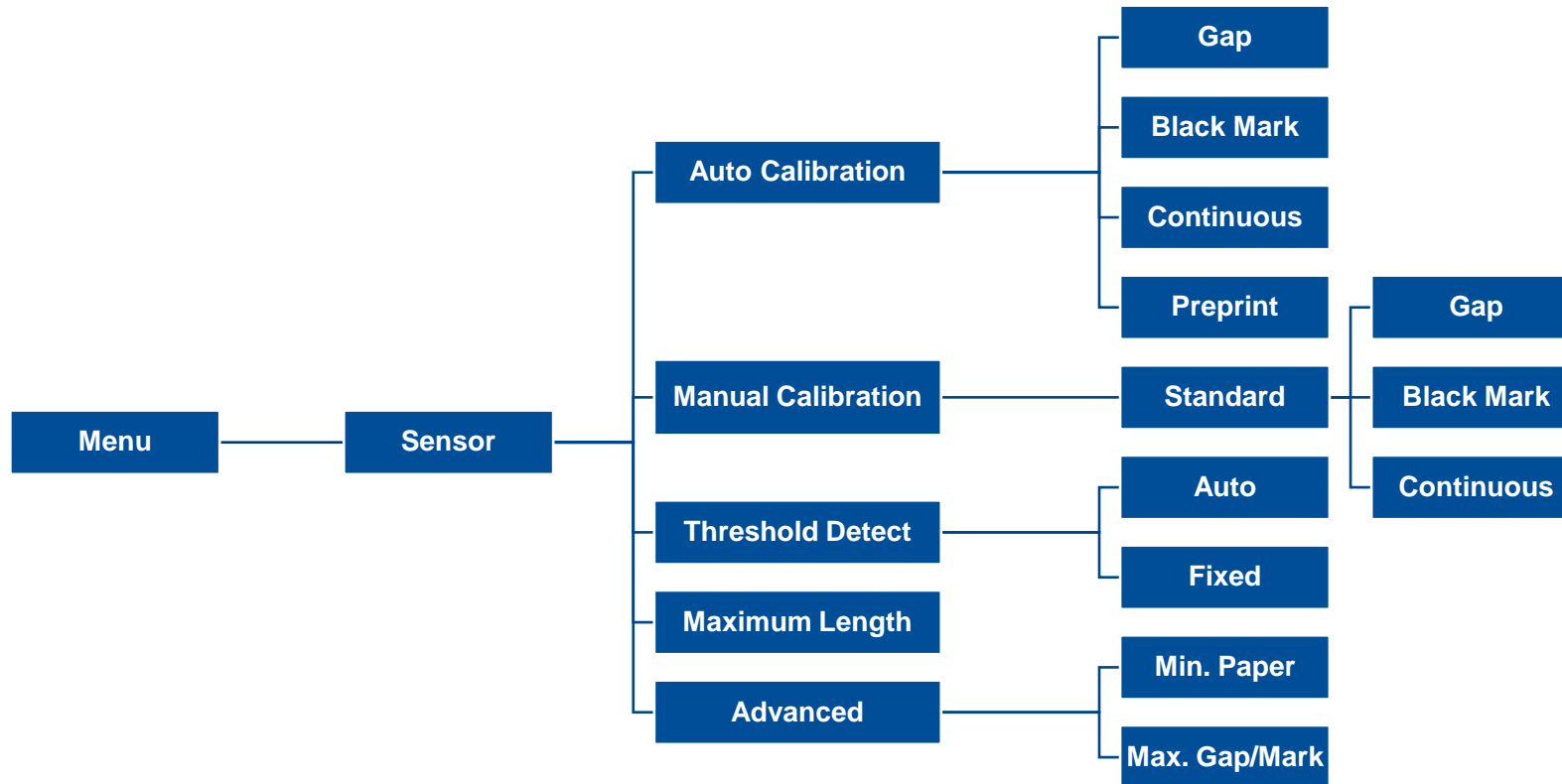
Item	Description	Default
Density	Set the printing darkness. Available setting range: 0 to 30.	16
Print Speed	Set the print speed. Available setting range is 2~18 for 203dpi and 2~14 for 300dpi; 1.5~6 for 300dpi..	203 dpi: 6 300 dpi: 4 600 dpi: 3
Tear Off	Adjust media stop location. Available setting value range: -120~120 dots.	0 dot
	Set the print mode. There are 4 modes:	
	Tear Off: Next label top of form is aligned to the print head heating line location.	
Print mode	Peeler Off: Enable the label peel off mode. Cutter: Enable the label cutter mode Rewind: Enable the label rewind mode	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.	No Motion
	Length: Printer determine length and feed label.	
Head Close	Set the action of the media when closing the print head.	
	Feed: Printer will advance one label.	
	Calibration: Printer will make calibration.	No Motion
	Length: Printer determine length and feed label.	
No Motion: Printer will not move media.		
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

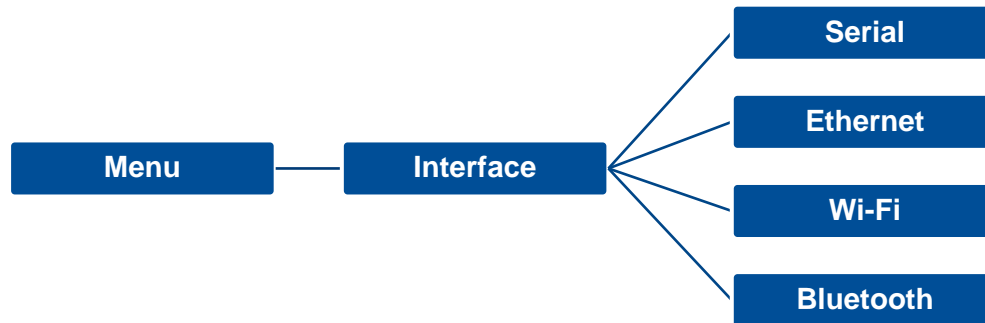
This option is used to calibrate the selected sensor. We recommend calibrate the sensor before printing when changing the media.



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/bline 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
Advanced	Set the minimum paper length and maximum gap/bline length for auto-calibration.	0 mm

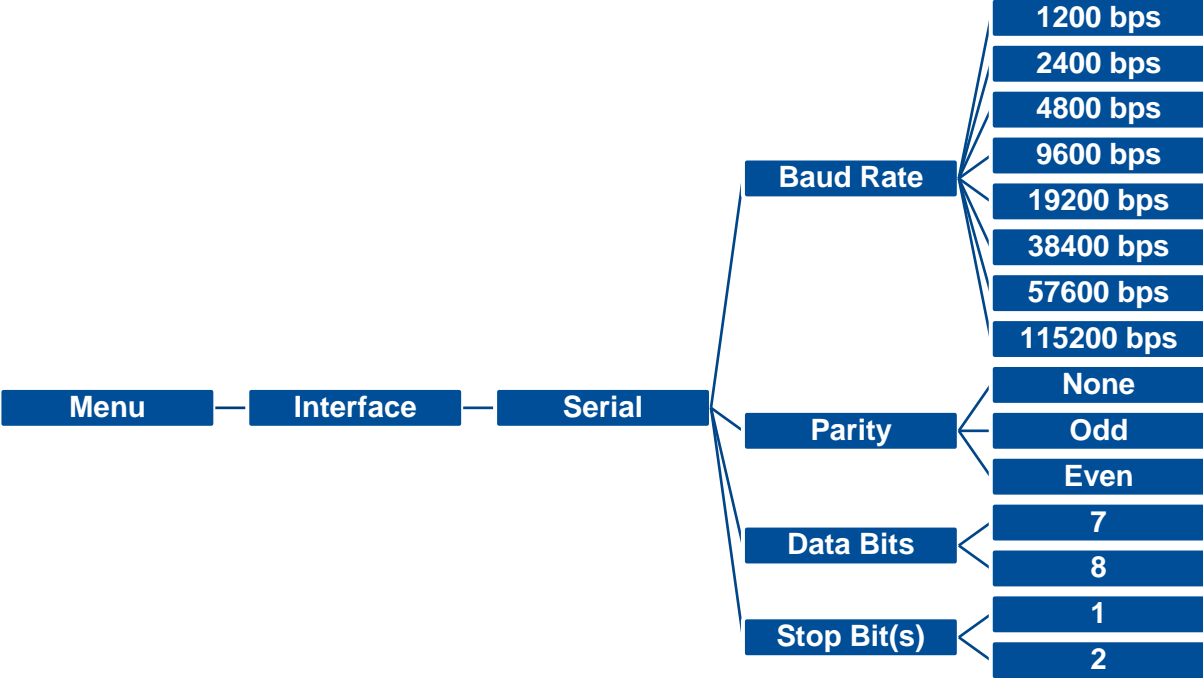
6.5 Interface

Interface can set the printer interface settings.



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

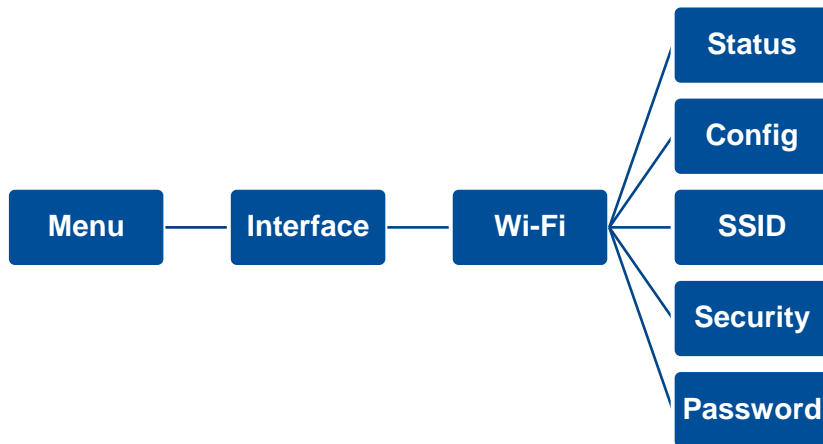
Ethernet configures internal Ethernet configuration and checks the printer's Ethernet module status, and reset the Ethernet module.



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

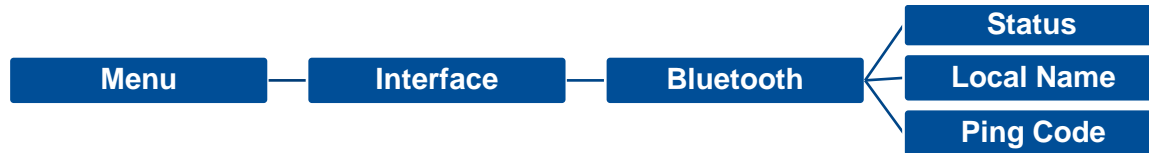
Wi-Fi can set the printer Wi-Fi settings.



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

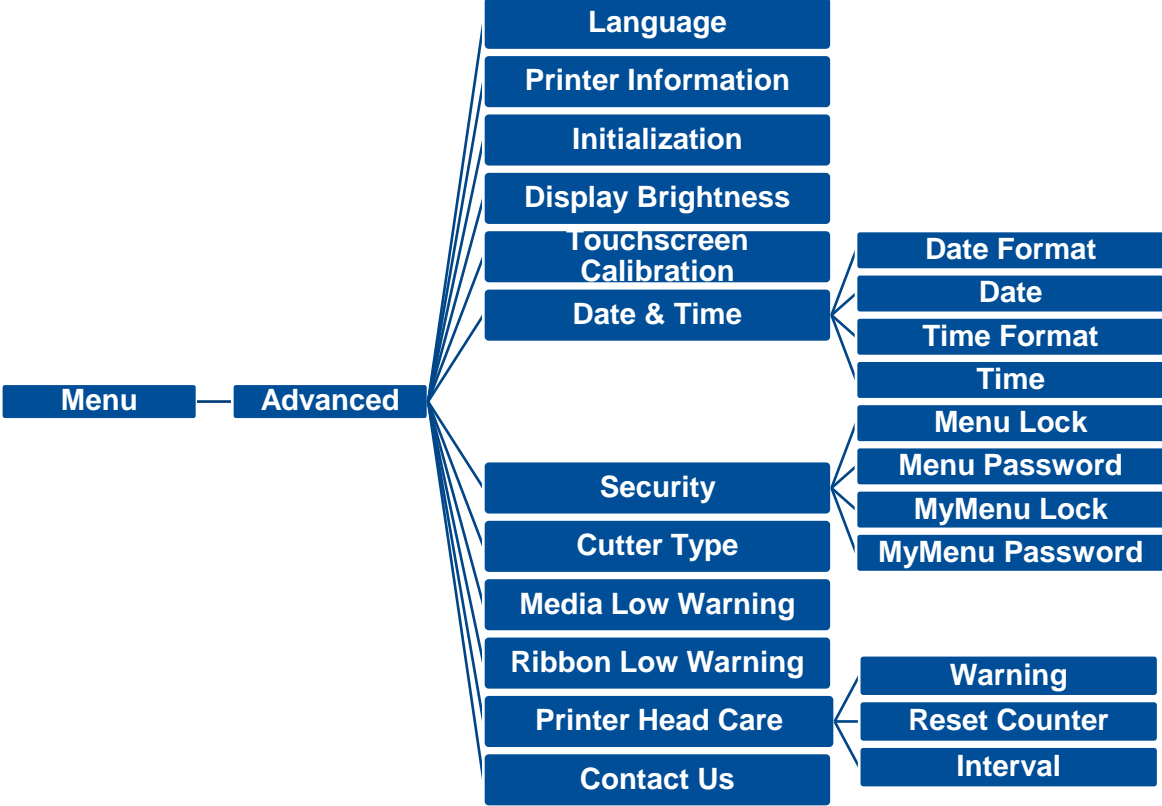
6.5.4 Bluetooth

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

6.6 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
Display Brightness	Set the brightness for display. Range: 0~100.	50
Touchscreen Calibration	Calibrate the touchscreen for best result.	N/A

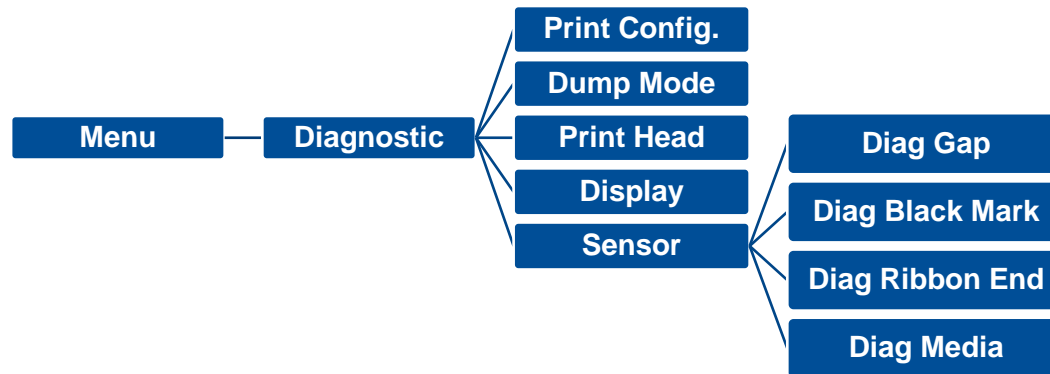
Date & Time	Setup the date and time on display.	N/A
Security	Set the password for locking the menu or favorites. The default password is 8888.	Disable
Cutter Type	Set the cutter type.	Guillotine
Media Low Warning	Set the warning for media low %. if setting value is 10%, media capacity was lower than 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	<p>Check print head status and to set the settings for print head care.</p> <p>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.</p> <p>Reset Counter: Reset the print head clean warning mileage after cleaning print head.</p> <p>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.</p> <p>Key sound: This item is used to enable/disable the sound of front panel buttons.</p>	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
DOWNLOAD 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.

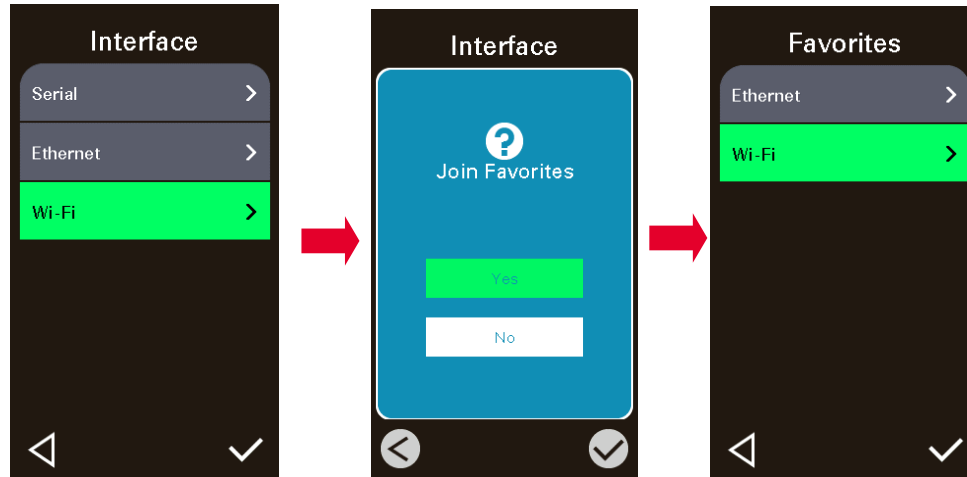
Sensor

Check sensors intensity and reading state.

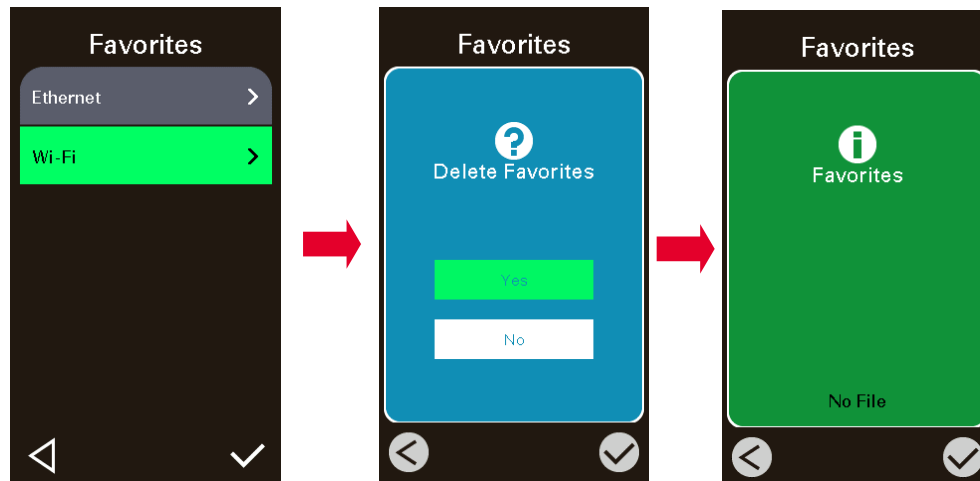
6.9 Favorites

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	<ul style="list-style-type: none"> ■ The power cord is not properly connected. ■ The power switch is closed. 	<ul style="list-style-type: none"> ■ Plug the power cord in printer and outlet. ■ Switch the printer on.
Carriage Open	<ul style="list-style-type: none"> ■ The printer carriage is open. 	<ul style="list-style-type: none"> ■ Close the print carriage.
Not Printing	<ul style="list-style-type: none"> ■ 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. 	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Label or ribbon is loaded not correctly. ■ Use wrong type paper or ribbon 	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ Running out of ribbon. ■ The ribbon is installed incorrectly. 	<ul style="list-style-type: none"> ■ Supply a new ribbon roll. ■ Refer to user's manual to reinstall the ribbon.
No Paper	<ul style="list-style-type: none"> ■ Running out of label. ■ The label is installed incorrectly. ■ Gap/black mark sensor is not calibrated. 	<ul style="list-style-type: none"> ■ Supply a new label roll. ■ Refer to user's manual to reinstall the label roll. ■ Calibrate the gap/black mark sensor.
Paper Jam	<ul style="list-style-type: none"> ■ Gap/black mark sensor is not set properly. ■ Make sure label size is set properly. ■ Labels may be stuck inside the printer 	<ul style="list-style-type: none"> ■ Calibrate the media sensor. ■ Set media size correctly. ■ Remove the stuck label inside the printer mechanism.

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.

- Check if label size is setup correctly.

	<ul style="list-style-type: none"> ■ Sensor sensitivity is not set properly. ■ The media sensor is covered with dust. 	<ul style="list-style-type: none"> ■ Calibrate the sensor by Auto Gap or Manual Gap options. ■ Clear the GAP/Black mark sensor by blower.
Wrinkle Problem	<ul style="list-style-type: none"> ■ Printhead pressure is incorrect. ■ Ribbon installation is incorrect. ■ Media installation is incorrect. ■ Print density is incorrect. ■ Media feeding is incorrect. 	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ The battery has run down. 	<ul style="list-style-type: none"> ■ Check if there is a battery on the main board.
The left side printout position is incorrect	<ul style="list-style-type: none"> ■ Wrong label size setup. ■ The parameter Shift X in LCD menu is incorrect. 	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ 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. 	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ The cable between main PCB and LCD panel is loose. 	<ul style="list-style-type: none"> ■ Check if the cable between main PCB and LCD is secured or not.
LCD panel is dark but the LEDs are light	<ul style="list-style-type: none"> ■ The printer initialization is unsuccessful. 	<ul style="list-style-type: none"> ■ Turn OFF and ON the printer again. ■ Initialize the printer.
Ribbon encoder sensor doesn't work	<ul style="list-style-type: none"> ■ The ribbon encoder sensor connector is loose. 	<ul style="list-style-type: none"> ■ Fasten the connector.
Ribbon end sensor doesn't work	<ul style="list-style-type: none"> ■ The connector is loose. ■ The ribbon sensor hole is covered with dust. 	<ul style="list-style-type: none"> ■ Check the connector. ■ Clear the dust in the sensor hole by the blower.
Cutter is not working	<ul style="list-style-type: none"> ■ The connector is loose. 	<ul style="list-style-type: none"> ■ 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	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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



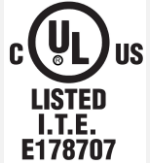
EN 55022, Class B
EN 55024
EN 60950-1
EN 55023
EN 61000-3-2
EN 61000-3-3



FCC part 15B, Class B



AS/NZS CISPR 22/ 32, Class B



UL 60950-1



EN 60950-1



GB 4943.1
GB 9254
GB 17625.1



TP TC 004
TP TC 020



IS 13252(Part 1)
IEC 60950-1



ENERGY STAR Imaging Equipment 2.0

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 plug from the AC outlet 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.

重要安全說明：

1. 閱讀所有這些說明，並保留以備未來使用。
2. 按照產品上的所有警告和說明進行操作。
3. 在清潔前或發生故障時，拔除電源插頭與交流電源插座的連接。
不要使用液體或噴霧清潔劑。建議使用濕布清潔。
4. 電源插座應安裝在設備附近及方便使用處。
5. 本機器必須防止潮濕。
6. 確保安裝設備時的穩定性，翻倒或跌落可能會導致設備損壞。
7. 確保按照製造商提供的標籤上標明之正確的額定功率和電源類型進行設定。
8. 請參考使用手冊以確認環境溫度的最大值。

WARNING:

Hazardous moving parts, keep fingers and other body parts away.

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.

警告：

(對於帶有 RTC (CR2032) 電池或可充電電池組的設備)

如果更換不正確的電池類型，會有爆炸的危險。

請按照以下說明處理廢電池：

1. 請勿將電池投入火中。
2. 請勿使觸點短路。
3. 請勿拆卸電池。
4. 請勿將電池丟入都市廢棄物。
5. 垃圾桶畫叉圖案表示電池不應放置在都市廢棄物中。



Caution: The printhead may be hot and could cause severe burns. Allow the printhead to cool.

FCC STATEMENT :

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/ TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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

設備名稱 Equipment name：熱轉式/熱感式條碼印表機，						
型號（型式） Type designation (Type)： MX240P 系列						
單元 Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛Lead (Pb)	汞Mercury (Hg)	鎘Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr ⁺⁶)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
內外塑膠件	○	○	○	○	○	○
內外鐵件	-	○	○	○	○	○
滾輪	○	○	○	○	○	○
銘版	○	○	○	○	○	○
電路板	-	○	○	○	○	○
晶片 電阻	-	○	○	○	○	○
積層陶瓷表面黏著電容	○	○	○	○	○	○
集成電路-IC	-	○	○	○	○	○
電源供應器	○	○	○	○	○	○
印字頭	-	○	○	○	○	○
馬達	-	○	○	○	○	○

液晶顯示器	-	○	○	○	○	○
插座	-	○	○	○	○	○
線材	-	○	○	○	○	○

備考1. “超出0.1 wt %”及“超出0.01 wt %”係指限用物質之百分比含量超出百分比含量基準值。

Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2. “○”係指該項限用物質之百分比含量未超出百分比含量基準值。

Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3. “-”係指該項限用物質為排除項目。

Note 3: The “-” indicates that the restricted substance corresponds to the exemption.

10. Revise History

Date

Content

Editor

TSC **PRINTRONIX**[®]
AUTO ID