BIXOLON

User's Manual
XD5-40t Series

Thermal Transfer Label Printer
Ver. 1.02

http://www.bixolon.com

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BIXOLON Co., Ltd. maintains ongoing efforts to enhance and upgrade the functions and quality of all our products.
In the following, product specifications and/or user manual content may be changed without prior notice.

Notice - EU

This wireless device is class A that is considered to be used in an industrial environment.

Caution

Some semiconductor devices are easily damaged by static electricity. You should turn the printer "OFF", before you connect or remove the cables on the rear side, in order to guard the printer against the static electricity. If the printer is damaged by the static electricity, you should turn the printer "OFF".

Compliance information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution: Exposure to Radio Frequency Radiation.
To comply with FCC RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

Caution: Any Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Class A Digital Device : Wired Device
This Apparatus complies with class "A" limits for radio interference as specified in the Canadian department of communications radio interference regulations.

This Class A digital apparatus complies with Canadian ICES-003.

Appareil numérique de classe A: appareil filaire
Get appareil est conforme aux normes class "A" d'interference radio tel que specifier par ministre canadien des communications dans les reglements d'interference radio.

Cet appareil numérique de la classe A est conform à la norme NMB-003 du Canada.

Waste Electrical and Electric Equipment (WEEE)

 This marking shown on the product or its literature, indicates that is should not be disposed with other household wastes at the end of its working life, To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for dispos

WARNING & CAUTION

It describes death, physical injuries, serious financial losses, and damage to data etc. that can be caused to the user.

Do not connect multiple products to one single power outlet. Do not connect the product to a loose power outlet.
Use only power outlets that meet the standard. Connect the power cord only to a grounded power outlet. **Noncompliance may cause electric shock or fire.**

Use only authentic products from BIXOLON. **The company will not provide post-sale support for damage or other quality issues that any fake (refurbished) products may incur.**

Do not bend or strain the power cord excessively. Push the power cord all the way into the power outlet lest it remain loose. Make sure to hold the cord tight when separating it from the power outlet. Do not remove the power cord while the product is in use.
Noncompliance may cause electric shock or fire.

Keep small accessories or other packaging materials away from young children.
Beware: children may swallow them.
Mishandling the product may incur injuries. If a child has swallowed any such thing, see a doctor at once.

Do not touch the power cord with wet hands when pulling it from a power outlet. If the power plug or outlet is smeared with extraneous matter, wipe it with a dry cloth.
Noncompliance may cause electric shock or fire.
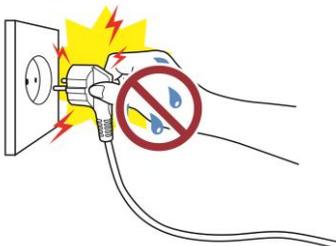
Do not allow the product to be damaged by heavy objects.
Noncompliance may cause electric shock or fire.

Ver. 1.02
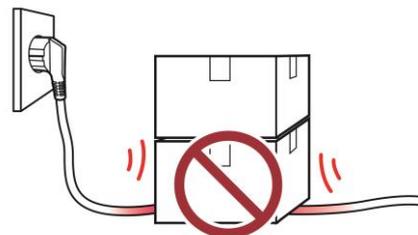
If the product emits a strange sound, burning smell, or smoke, turn off the power immediately and unplug the power cord. If the product is dropped or its exterior is damaged, turn off the power immediately and unplug the power cord. Do not subject the product to shock. **It may start a fire. It may damage the product.**

Install the product in a well-ventilated place by keeping it a certain distance from the wall. The product installed in certain places such as where a lot of fine dust is generated, where the temperature is too high or too low, where there is a lot of moisture or water, and at airports or stations that are used continuously for a long time may suffer serious quality problems due to the influence of the surrounding environment. **An increase in internal temperature may start a fire. Be sure to contact the place of purchase before installing the product.**

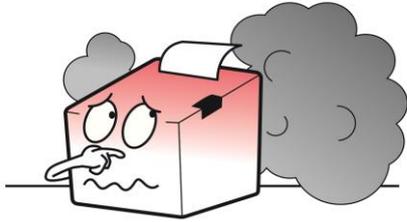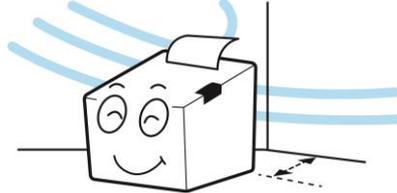Install the product in a fixed place preventing it from tipping over. When moving the product, turn off the power and disconnect all cables connected to the product, including the power cord. **It may damage the product.**

Never disassemble, repair, or modify the product at your own discretion. **When repair is necessary, contact the place of purchase.**
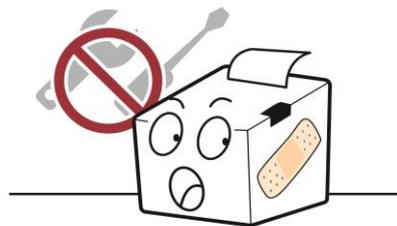
Do not let any foreign substances enter the product. Do not place heavy objects, liquids, or metals on the product. **It may start a fire. It may damage the product.**

If there is a problem with the product, please contact the place of purchase. In addition, Bixolon website (http://www.bixolon.com) provides product repair.
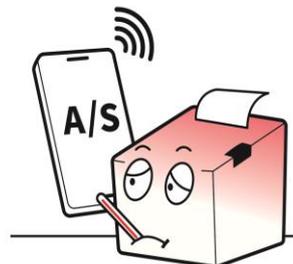
Manual Introduction

This manual provides basic information on printers and provides ways to install, use, and check them.
In order to protect the safety of users and prevent property damage, be fully familiar with this manual before using the product. Please use it.

1. Windows Driver Manual

This manual provides information on the installation instructions and main functions of the windows driver.

2. Unified Label Utility-II Manual

This manual provides information on the usage of software for function selection of this product, operating condition modification, etc.

3. Programming(SLCS) Manual

This manual provides information on label printer commands.

4. True Font Downloader Manual

This manual provides information on the usage of the font downloader that can download true type fonts and facilitate their usage as device fonts.

5. Network Connection Manual

This manual provides information on the configuration and usage of network interface.

6. Bluetooth Connection Manual

This manual provides information on connection instructions the Bluetooth interface.

7. Label Design Program Manual

This manual provides information on the usage of the Windows PC program that can make labels by adding text, graphics, or barcodes at desired positions.

Manual Symbol Introduction

⚠	**Precaution & Warning**	It describes death, physical injuries, serious financial losses, and damage to data etc. that can be caused to the user.
❗	**Note**	It provides additional information on the function and performance of the product.

Printer Introduction

XD5-40t series printers have been designed to be connected to various types of electronic devices such as computer peripheral devices.

The main features of the printer are as follows

1. XD5-40t : Maximum 152mm/s(Max 6ips) printing speed
   XD5-43t : Maximum 102mm/s(Max 4ips) printing speed
2. 4inch THERMAL TRANSFER LABEL PRINTER
3. 211 x 285 x 188 (W x D x H)
4. Support for multiple interfaces
   - Standard(Wire): USB & USB HOST
   - Option(Wire): USB & USB HOST & Serial & Ethernet
   - Option(Wireless): Bluetooth, WLAN
5. Easy media loading
6. Can print a range of barcodes
7. Option : Peeler, Auto Cutter
8. Option : LCD

Product Symbol Introduction

	DC (Direct current)
	USB
	Ethernet
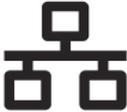
1. Content Confirmation

The following items should all be contained in the printer package.
Contact the dealer from which the purchase was made if any item is damaged or missing.

Product
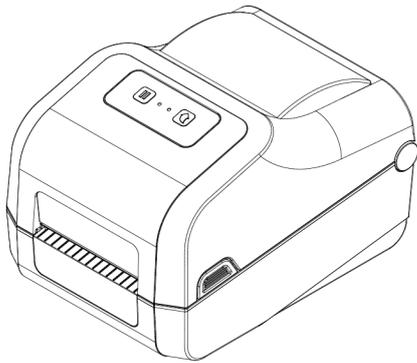
XD5-40t/43t

XD5-40t/43t LCD Model(Optional)
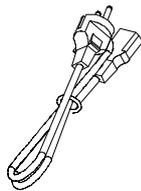
Power Cord
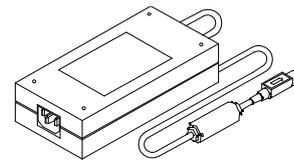
AC/DC Adapter
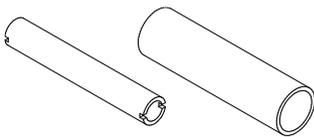
Core(0.5 inch, 1 inch)
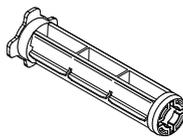
Holder Ribbon(2ea)

Quick Manual

USB Cable

※ **Optional**

Serial(RS-232C) Cable

2. Product Part Names

Pause Button

Feed/Cancel Button

Cover Button

Ribbon Assembly

Printer Head

Media Cover

Sensor

Media Guide

Ribbon Assembly Lever

Media Holder

Cover STD

Power Switch

Fan-Fold or External Media Cover

Power Port

USB B-Type Port

USB A-Type Port
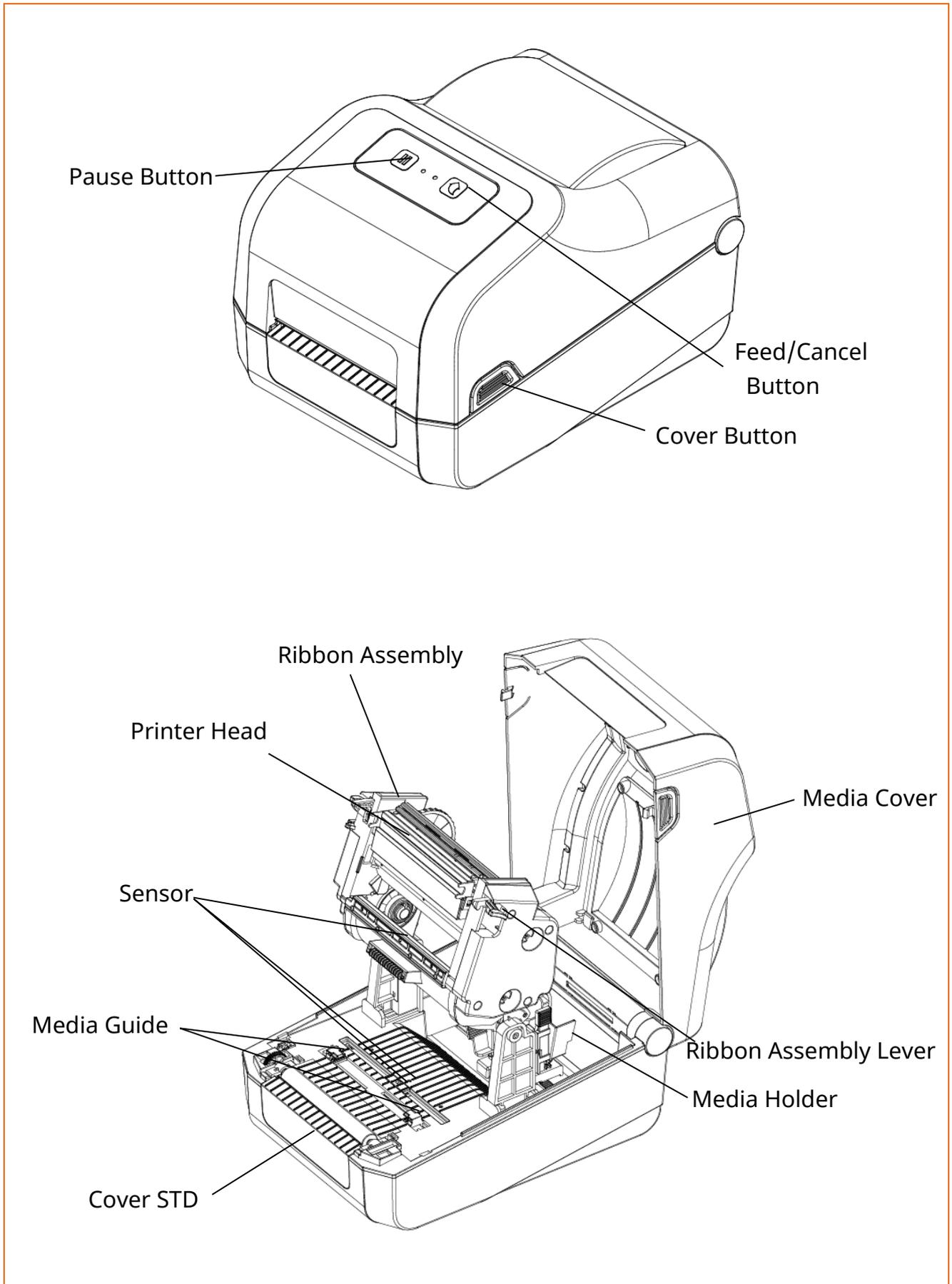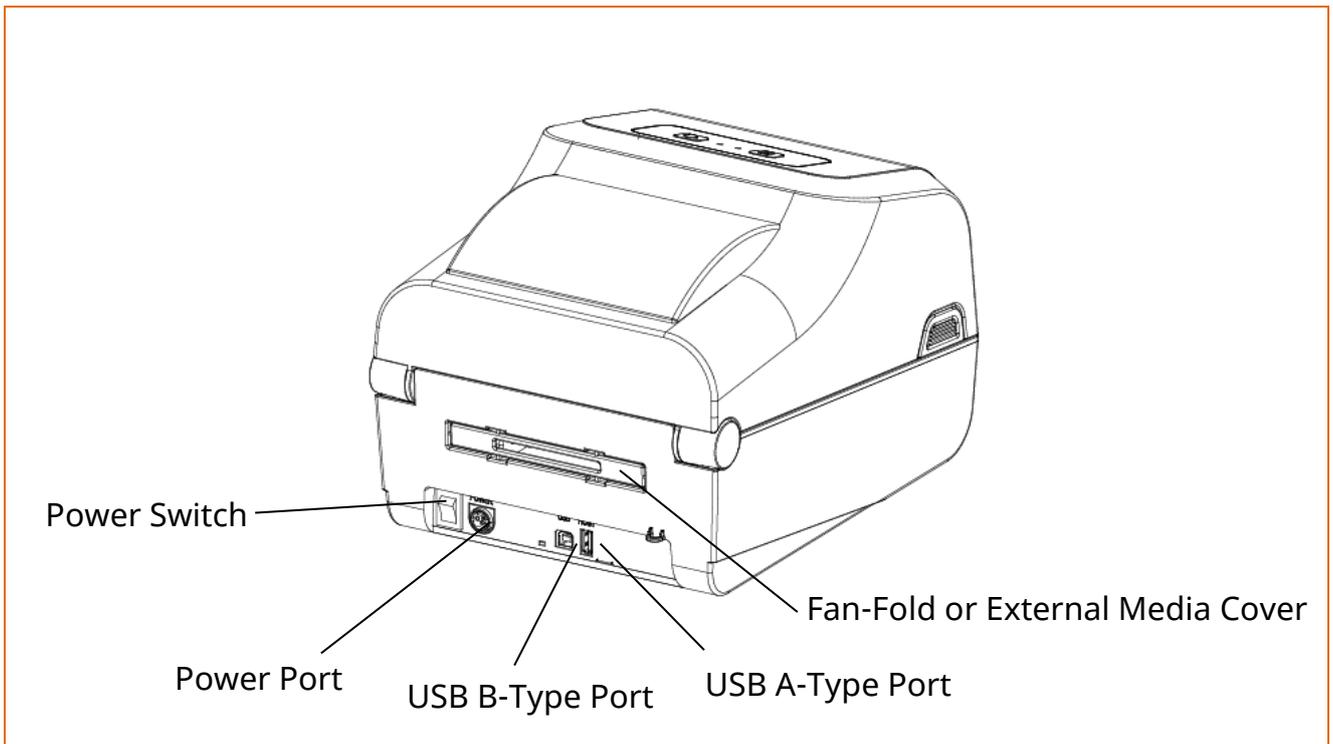
3. Installation & Usage

3-1 Printer Installation Placings

• Install the printer in a location that meets the following conditions.

- Allow sufficient space around the printer for proper ventilation.

- Install the printer on a flat and level surface.

- Avoid humid environment.

3-2 Power Connection

• Connect power to the printer as shown below.

Power Switch

AC/DC Adapter
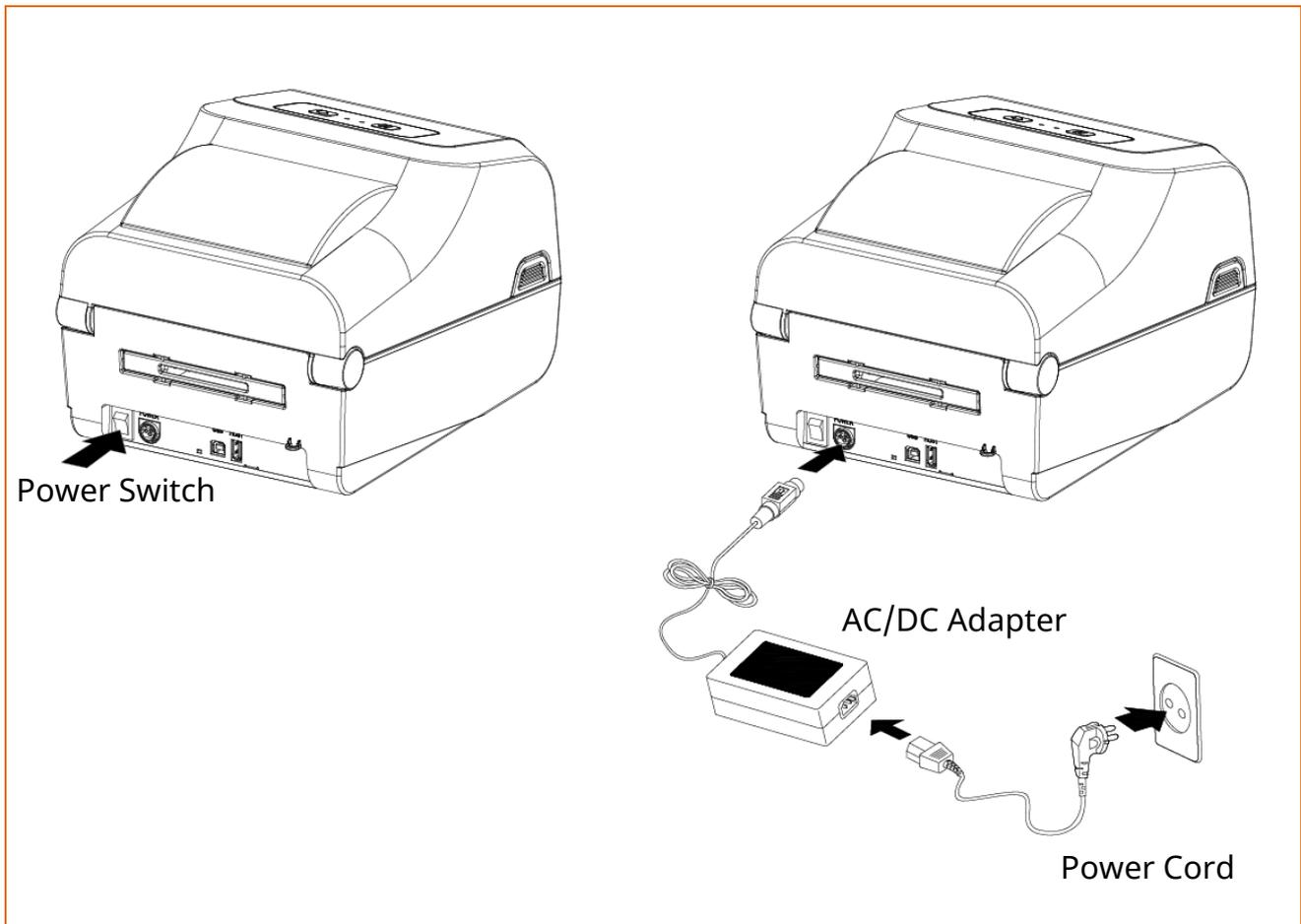
Power Cord

1) Turn off the printer power switch.

2) Check to see that the AC/DC adapter voltage matches that of the power source.

3) Connect the AC/DC adapter jack to the printer power port.

4) Connect the power cord to the AC/DC adapter.

5) Connect the power cord to a power source/outlet.

- Only use a power supply provided by BIXOLON.
  BIXOLON shall bear no responsibility for damage caused
  by using a third-party power supply.
- Check the power supply's label to check its electronic specs.
- For the safety of people and equipment, please use the appropriate
  power cord for your country or region.
- When removing the power supply, make sure you have a firm
  grasp of power connector and the printer, then pull horizontally.
- Pay attention to the direction in which you insert the power cable.
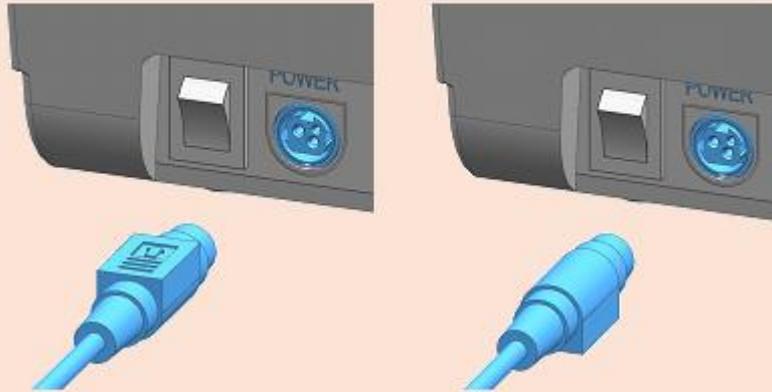
- Be sure to turn off the printer before connecting the power connector
  to the printer. This can cause serious electrical damage and bodily
  injury.
- Do not operate the printer and power supply in a humid environment.
  This can cause serious electrical damage and bodily injury.
- Do not connect an input voltage beyond the specifications of the
  power supply. This may result in product damage and fire.

3-3 Interface

Shielded cables must be used to prevent radiation and reception of electrical noise. Use the shortest possible communication cable to minimize the detection of electrical noise in the cable.
- Serial(RS-232C) Cable (1.8m or less recommended)
- USB B-Type Cable (1.8m or less recommended)
- LAN(Ethernet) Cable (3m or less, CAT-5 or higher UTP Cable)

- **Connecting unshielded communication cables is in violation of EMC standards. Use the cable approved by us.**
- **Do not bundle the communication cable with objects that may cause electrical noise and interference. The printer may be damaged.**
- **After turning off the power switch of printer, connect and disconnect the communication cable.**
  This can cause serious electrical damage and bodily injury.

3-3-1 Standard Interface (USB & USB HOST)

Connect the interface cable as shown below.
This printer(standard) supports the following interfaces.
- – USB B-Type Cable
- – USB A-Type (storage)
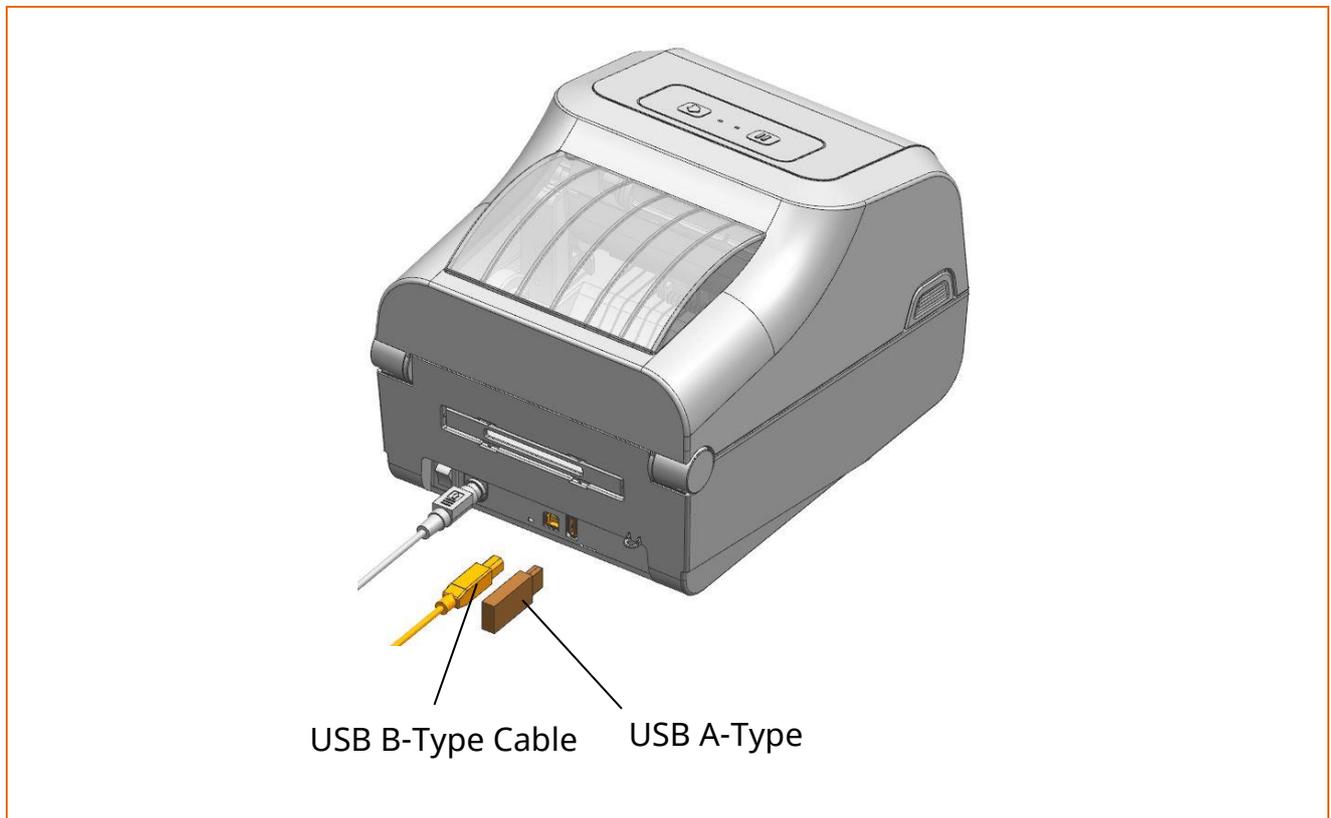
USB B-Type Cable   USB A-Type

1) Turn off the power switch.

2) Connect the communication cable to the printer communication port to be used.
  - Connect USB B-Type cable to the USB port.

⚠️ **Be aware that the product's electronic components may be damaged due to discharging of electrostatic energy that accumulates on the surface of the body or other objects.**

3-3-2 Optional Interface (USB & USB HOST & Serial & Ethernet)

Connect the interface cable as shown below.
This printer(optional) supports the following interfaces.
- Serial(RS-232C) Cable
- LAN(Ethernet) Cable
- USB B-Type Cable
- USB A-Type (storage)
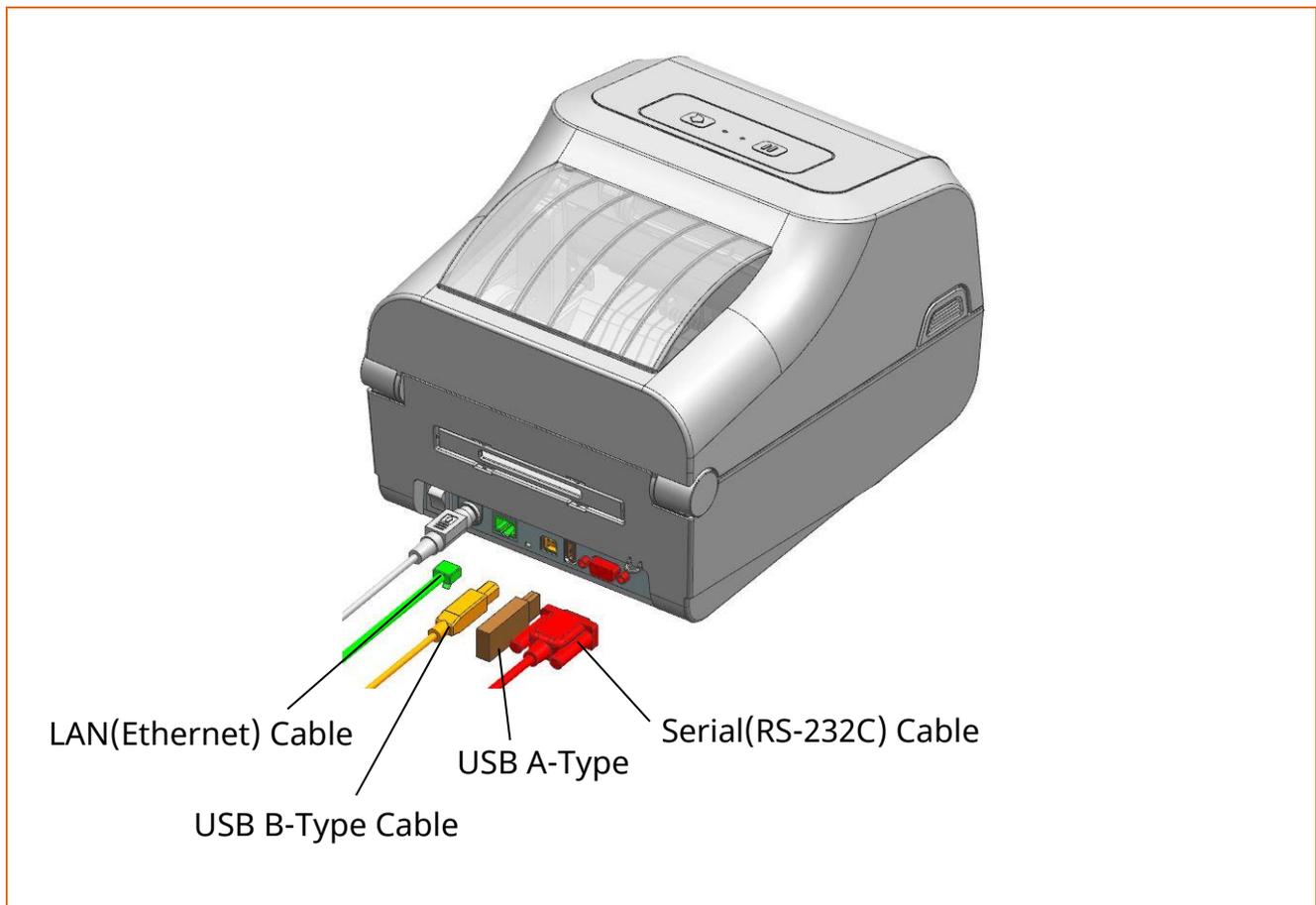
LAN(Ethernet) Cable

USB A-Type

Serial(RS-232C) Cable

USB B-Type Cable

1) Turn off the power switch.

2) Connect the communication cable to the printer communication port to be used.
  - Connect the serial(RS-232C) cable to the serial port and tighten the screw
    on both sides.
  - Connect the LAN(Ethernet) cable to the Ethernet port.
  - Connect USB B-Type cable to the USB port.

⚠️ **Be aware that the product's electronic components may be damaged due to discharging of electrostatic energy that accumulates on the surface of the body or other objects.**

3-4 Media Installation

1) Open the media cover as push the cover button on both sides of the media cover.

2) Spread the media holder and insert media as shown.

Media Cover

Cover Button

Media Holder
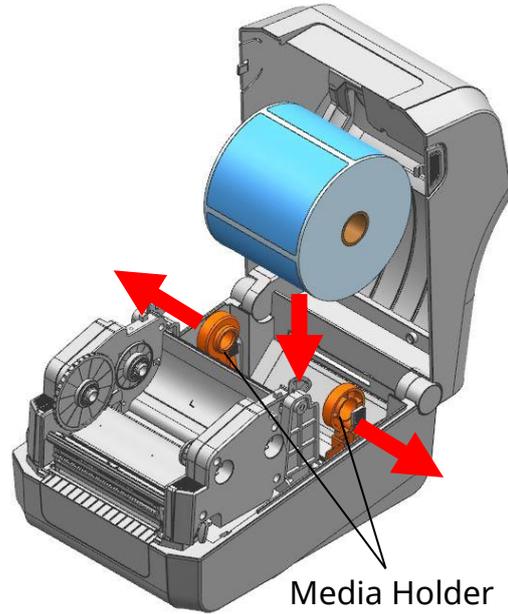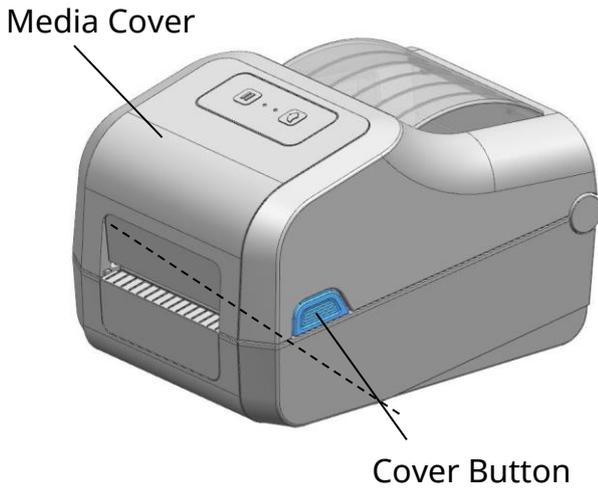
3) Pull the ribbon assembly lever on both sides of the ribbon assembly and open the ribbon assembly.

Ribbon Assembly Lever
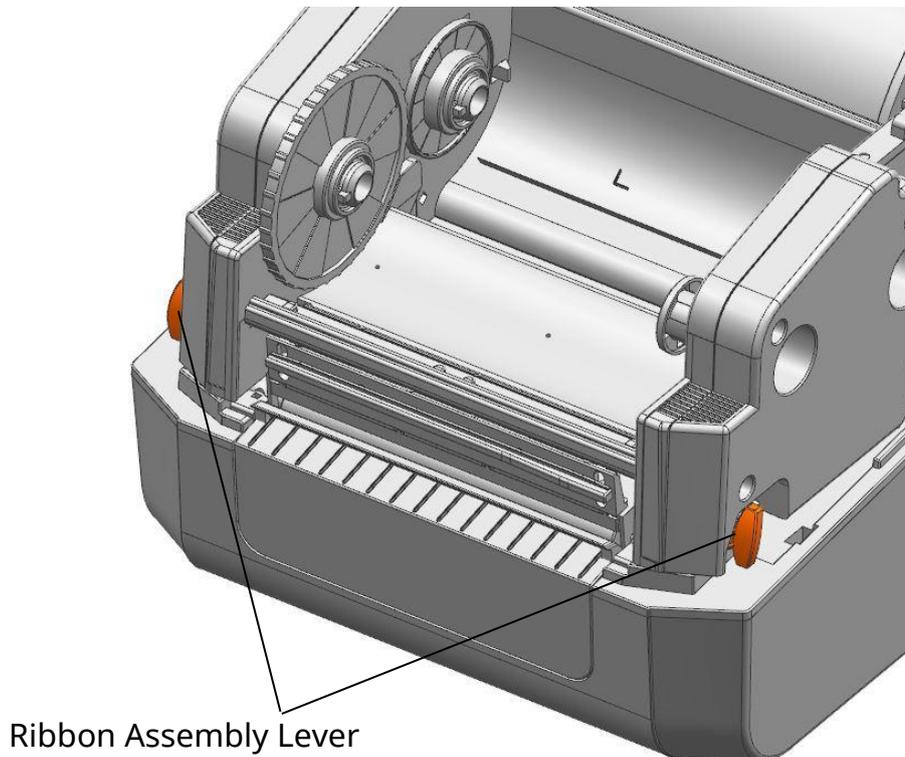
4) Pull the media out to the front of printer.
　　Adjust the media guides to the width of the media.
　* Whether the media is rolled outside or inside, the printing side must faced up.

Media Guide
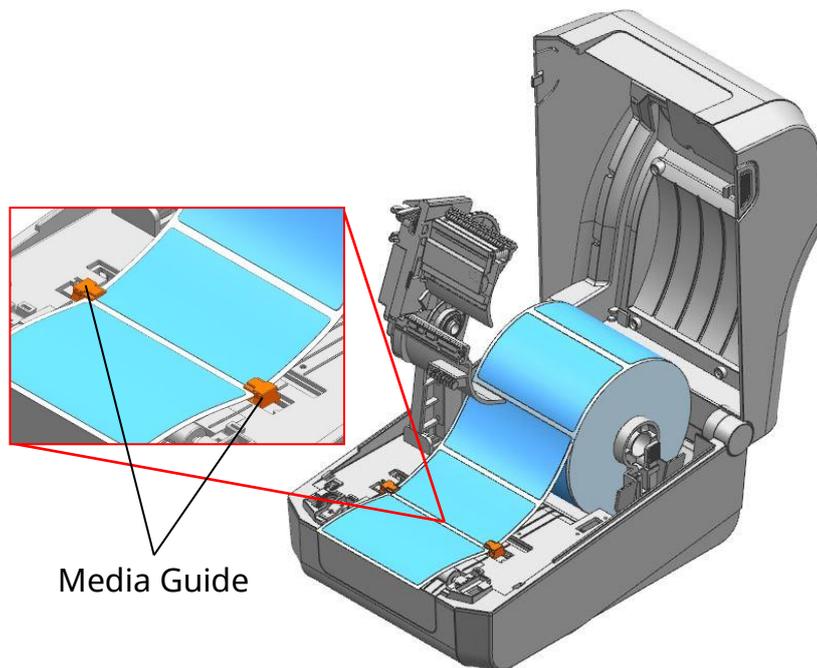
5) If you use black mark or notch media roll, please lift up the media and match
　the sensor position to the black mark or notch.

Black Mark & Notch Sensor
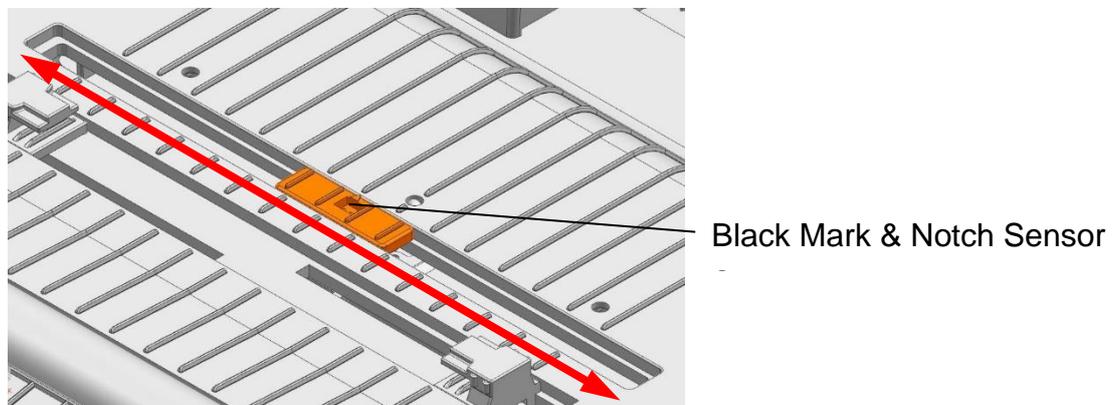
> - **When opening or closing the cover, be careful not to pinch your fingers.**
> - **Do not open the print head levers while the printer is printing. The printer may be damaged.**
> - **Change the media when the printer is not receiving data, or data may be lost.**
> - **The print head gets extremly hot while printing or after the printing, this can cause serious burns. Do not touch the print head.**

3-5 Ribbon Installation

3-5-1 Type of Ribbon

1) Type by Film Coating Location
   - This printer supports ribbons facing outward only.

(O)

Coated Area
(Surface
to be printed)

(X)

Coated Area
(Surface to be
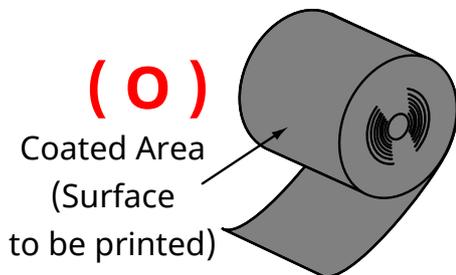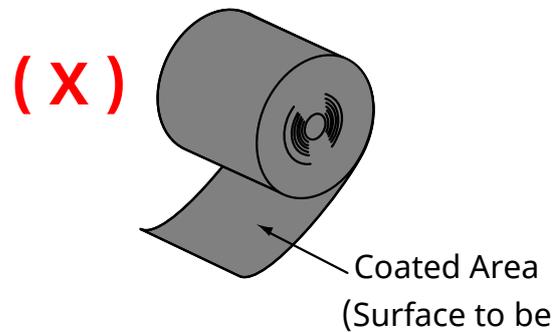
Outside Ribbon   Inside Ribbon

> ❗ Follow the procedure described below to determine the coating surface of the ribbon.

• Ribbon test using adhesive material
   - Perform contact test in order to determine which side is coated if there are useable labels.

• Complete the following steps to carry out the contact test
   - Remove the liner from the label
   - Put a piece of adhesive surface of the label on the outer/inner surface of the ribbon, and apply pressure.
   - Remove the label from the ribbon
   - Check whether adhesive surface of the label is stained by black ink ribbon.

2) Type by Roll Core
- This printer can be used to 1 inch or 0.5 inch core ribbon.
- For a 1 inch core, a roll core must be used.
- The holder ribbon and roll core of the fully used ribbon must be reused.
  Do not discard.

1 inch

0.5 inch
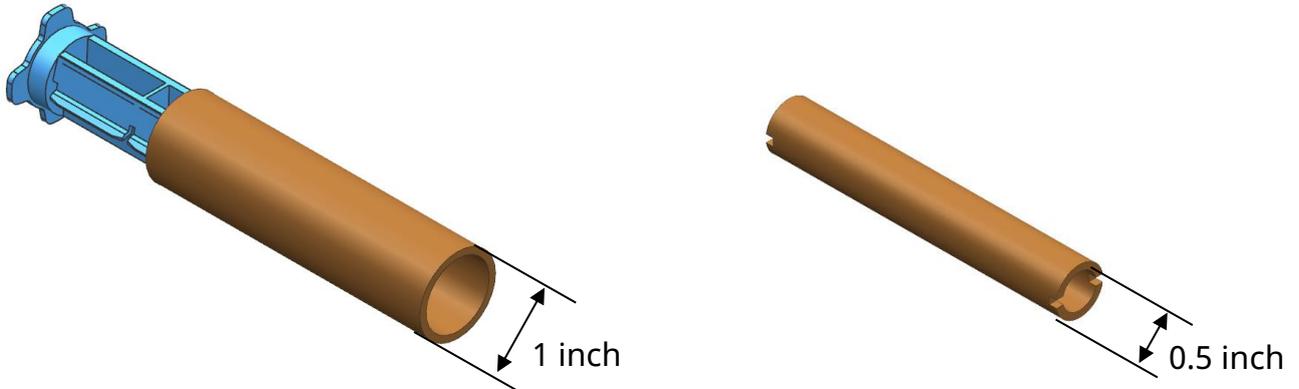
3-5-2 Inserting a 1Inch Core Ribbon

1) Insert the Holder Ribbon into the core and ribbon. (keep note of ribbon printing direction)

Core (1 Inch)

Holder Ribbon
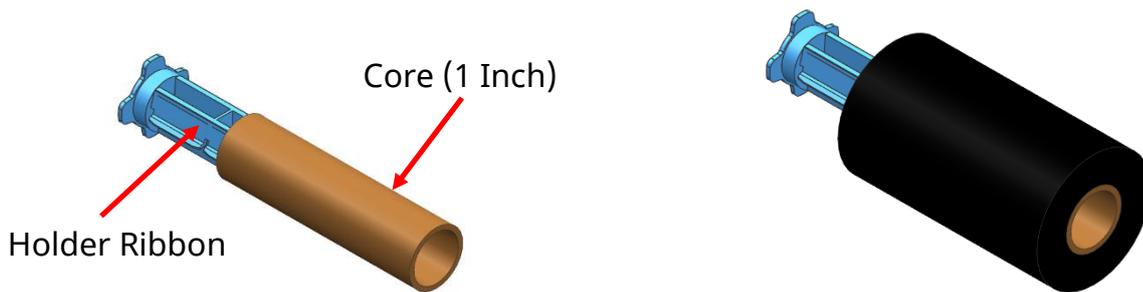
2) Open the ribbon assembly and insert the ribbon and core by pushing to the right.

3) Apply tape to the core of the ribbon.

Tape
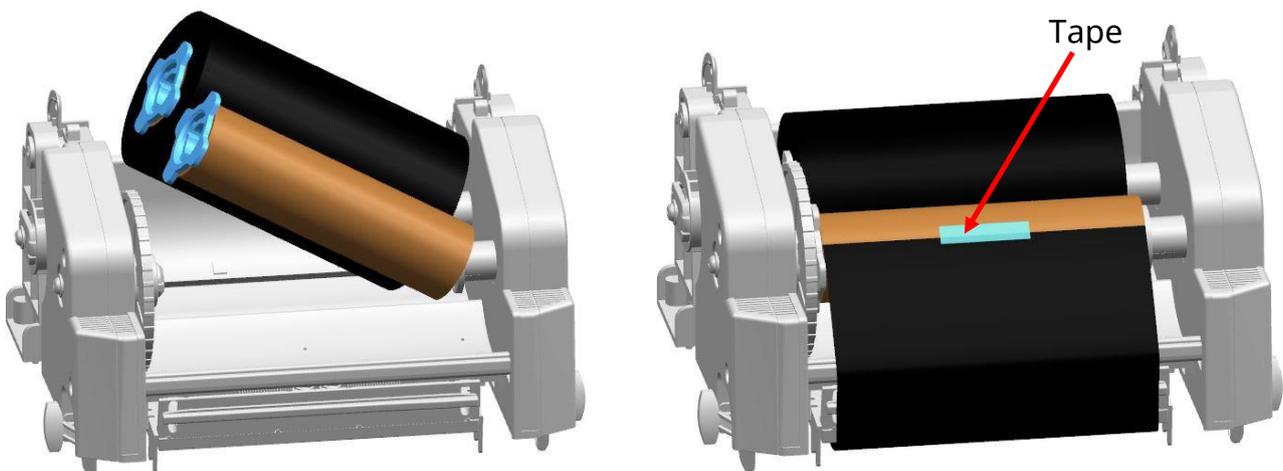
4) Close the ribbon assembly.

Please refer to the figure below for the ribbon installation path.
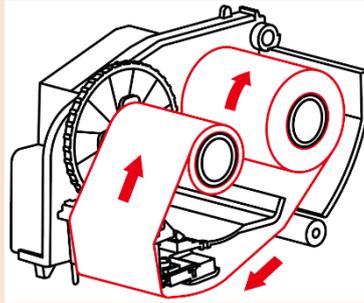
3-5-3 Inserting a 0.5 Inch Core Ribbon

1) Open the ribbon assembly and insert the ribbon and core by pushing to the right. (keep attention of ribbon printing direction)

2) Apply tape to the core of the ribbon.

Tape
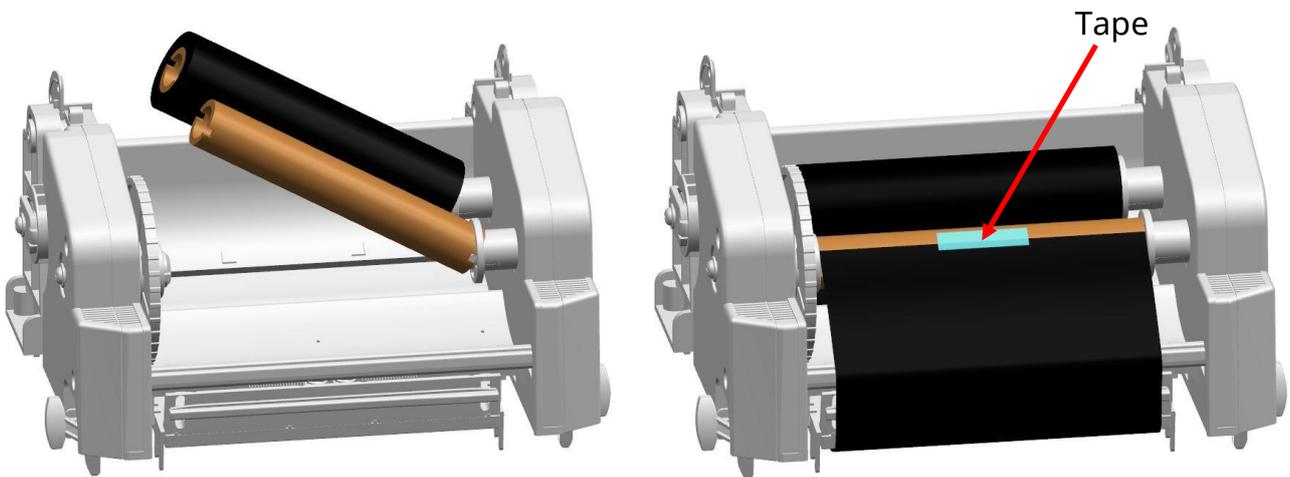
Please refer to the figure below for the ribbon installation path.
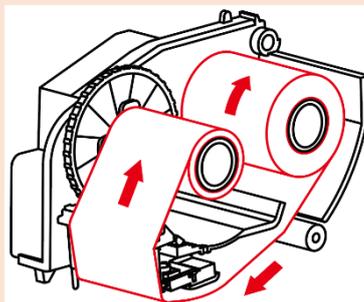
3-5-4 Knob Adjust Method According to Ribbon Type

Use printer after adjusting knob correctly, according to ribbon length and width.
PUSH-UP state of knob to which being inward is the factory default specification and you can push or pull the knob.
Please note that push or pull operation affects print quality and operation.

Knob Status	Ribbon Type	
PUSH-UP	≈ 300m **(1 inch core)** Ribbon	
PULL-DOWN	≈ Under 2 Inches Width **(1 inch Core)** Ribbon	≈ 74m **(0.5 inch Core)** Ribbon
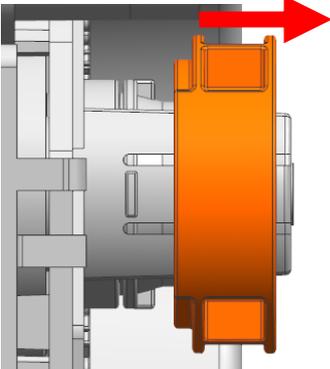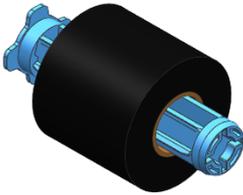
3-5-5 Narrow Ribbon Installation

When using ribbons of widths of 110mm or lower, install in a centered position on the holder ribbon.
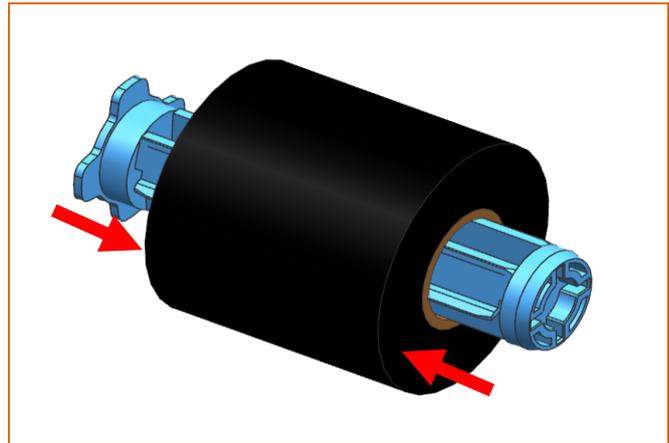
3-5-6 Ribbon Removal

1) Cut the ribbon.

2) Open the ribbon assembly and remove the ribbon and core by pushing to the right.

3) Remove the holder ribbon from the ribbon and core.

Cutting
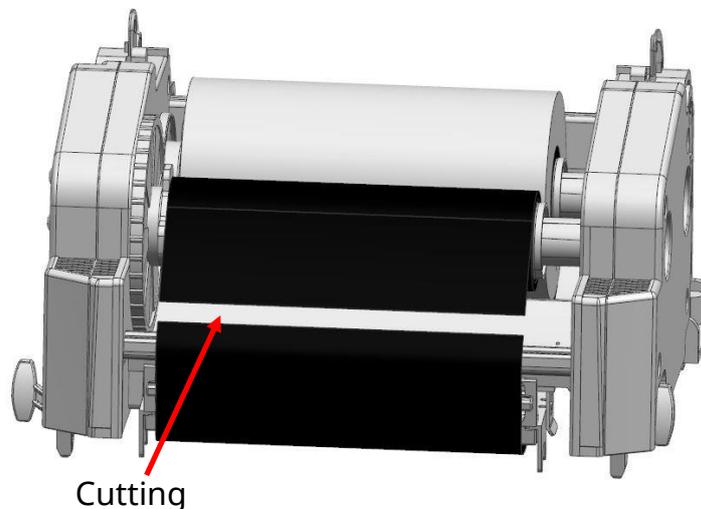
3-5-7 Ribbon Sensor Activation

Check the settings related to ribbon detection sensor if printing does not stop when the printer is out of ribbon or ribbon is broken.

* Ribbon detection sensor can be enabled by command control. And default setting can be changed by Unified Label Utility-II.

> ⚠️ - **When replacing a ribbon, keep affixed the core of the fully used ribbon to the ribbon coiling portion on the other side and do not discard as its use is required.**
> - **As the ribbon holder is required for continuous use, make sure not to misplace it.**

3-6 How to Use the Ribbon Guide

Wrinkles can be improved by adjusting on the ribbon guides.
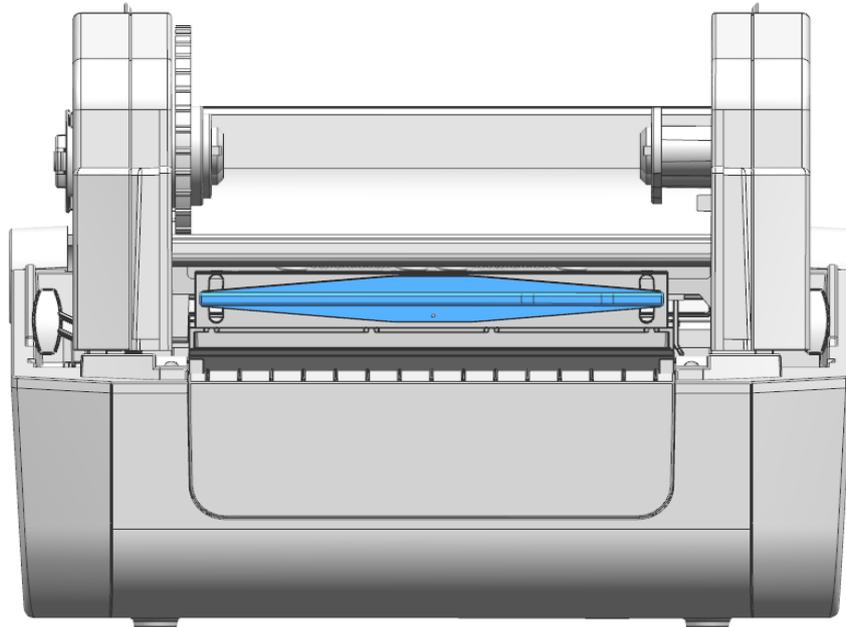
Media Printing Status	Adjustment Method
 Wrinkles on the Right	 Lower the right side of the guide.
 Wrinkles on the Left	 Lower the left side of the guide.
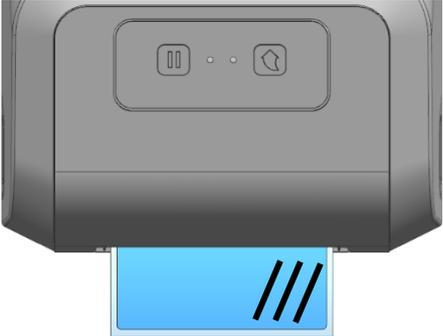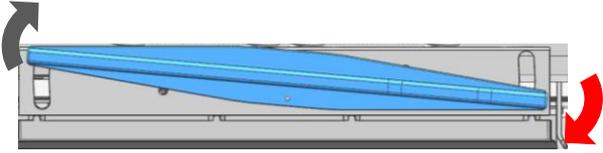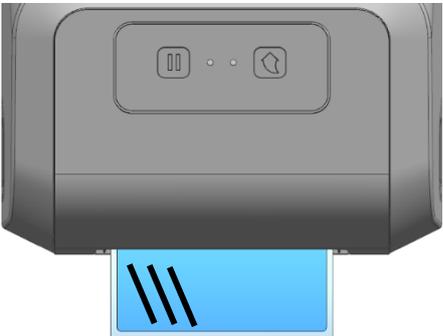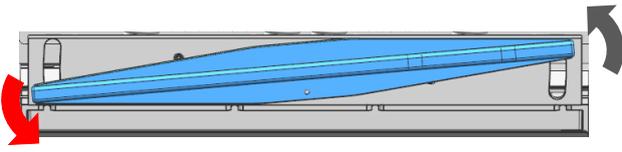
⚠️ **Do not adjust ribbon guide while the printer is printing.**
The printer may be damaged.

3-7 Button & LED (Standard Model)

Pause Button   LED 1   LED 2   Feed/Cancel Button
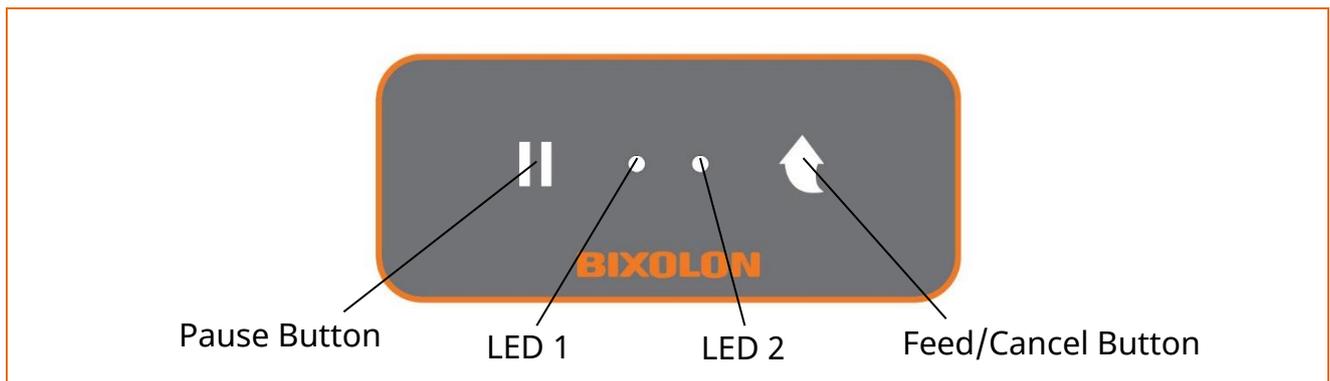
3-7-1 Button Operations

Printer state before operation	Button		Operation procedure	Printer operation mode
	Feed/ Cancel	Pause		
Power OFF	Press	-	Apply power while pressing the button (Hold the button until the printer starts self-test printing)	Self-test Printing
Print Ready	Press	-	Press the button	Feed
Print Ready	Press	-	Press the button for three seconds	Execute SWC (Refer 5-9)
Print Ready	-	Press	Press the button for two seconds	Stand-alone Configuration Mode (Refer 5-1)
During Printing	-	Press	Press the button for two Seconds	Pause mode
During Printing	Press	-	Press the button for two Seconds	Cancel mode
Pause mode	-	Press	Press the button	Print Resume
Pause mode	Press	-	Press the button	Print Cancel
Cancel mode	Press	-	Press the button	Print Cancel

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3-7-2 LED Indicator For Various Printer Statuses

LED 1		LED 2		Printer Operation Status	
Color	Status	Color	Color		
Green	On	Green	On	Print Ready Mode	Ready Mode
Green	On	Red	Blink	Print Cancel Mode	Wait For Button Input
Green	Blink	Red	On	Print Is Paused Temporarily	Wait For Button Input
Green	Blink	Green	Blink	Print Standby Mode	Wait For Button Input
Orange	On	Orange	On	Mode Switching	Mode Switching Notification
Red	On	Orange	On	Error Mode	Media Jam (gap/black mark is not recognized)
Red	On	Green	Blink	Error Mode	Printer Head Overheating
Red	On	Orange	Blink	Error Mode	No Media
Red	On	Red	Blink	Error Mode	Media Cover Open
Red	On	-	Off	Error Mode	Media Calibration Failure
Red	On	Red	On	Error mode	Ribbon is not detected
Red	Blink	Red	Blink	Error Mode	Auto-Cutter Error

3-8 Button & LCD (LCD Model)

3-8-1 Button Operation

Printer state before operation	Button	Explanation
Print Ready	Menu Move	Move to the next menu (The menu moves from the top left to the bottom right)
Print Ready	Menu Select	Select menu or change value
In Menu or Print Ready	Function Button 1	Pause , Print, Save, Main screen display
In Menu or Print Ready	Function Button 2	Feed, Cancel, Previous screen display

3-8-2 Interface Status Icon

User can check the status and setting information through the LCD.

Icon	Explanation
	Bluetooth is not connected to the host
	Bluetooth is connected to the host
	Authentication is failed
	Not connected to AP
	Connected to AP, Strength: 4
	Connected to AP, Strength: 3
	Connected to AP, Strength: 2
	Connected to AP, Strength: 1
	Ethernet is connected
	USB storage is connected

3-8-3 Menu Composition

Setting	Sub menu
	Width (Print Width)
	Length (Print Length)
	Direct (Print Direction)
	Speed (Print Speed)
	Density (Print Density)
	Method (Print Method)
	Type (Media Type)
	Tear off (Tear Off)
	Offset (Print Offset)
	Mode (Print Mode)
	Pwr act (Power Up Action)
	Head cls (Print Head Close)
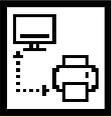
Interface	Sub menu			
	Serial	Baud Rate		
		Data Bit		
		Parity		
		Stop Bit		
		Handshk (Host Handshake)		
	Ethernet	IP Protocol		
		IP Address		
		Subnet Mask		
		Gateway		
		MAC Address		
	WLAN	Channel		
		Network		
		ESSID (AP ID)		
		Auth (Authentication)		
		Encrypt (Encryption)		
		WEP Password		
		PSK Password		
		IP Protocol		
		IP address		
		Subnet Mask		
		Gateway		
		SWC (Simple Wi-Fi Connect)	Execute SWC	
			Print App URL	
	Bluetooth	Device Name		
		Pairing	Pincode	
			SSP (Secure Simple Pairing)	
		MAC Address		
		Mode	BLE (Bluetooth Low Energy)	
			STD (Standard Mode)	Connect Mode
				Auth&Enc (Authentication & Encryption)

Sensor	Sub menu
	Gap Cal (Gap Calibration)
	Black Mark Cal (Black Mark Calibration)
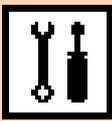
Tools	Sub menu		
	Self prt (Self-Test)		
	Reset (Factory Reset)		
	Dump (Data Dump Mode)		
	Head Chk (Printer Head Check)		
	USB Num (USB Serial Number)		
	Demo prt (Demo Print)		
	Files	Saved (Saved File)	Template
			Image
			Fonts (Download Fonts)
			E Drive (Flash Memory)
			A Drive (USB Storage)
		Twin (Twin Function)	PRT Set (Printer Setting)
			Template
			Image
			Fonts (Download Fonts)
		F/W Update	

Information	Sub menu
	Info (Printer Info)
	Support

3-8-4 Setting Menu Explanation

Menu	Explanation
Width **(Print Width)**	**Explanation** Setting media width[dots] Function to adjust image buffer size according to print width **Default Value** - 203dpi : 864 dots (108mm) - 300dpi : 1,248 dots (105.7mm) **Maximum Value** - 203dpi : 864 dots (108mm) - 300dpi : 1,248 dots (105.7mm)
Length **(Print Length)**	**Explanation** Setting media length[dots] Function to adjust image buffer size according to print length **Default Value** 203dpi : 1,225 dots (153mm) 300dpi : 1,811 dots (153mm) **Maximum Value** - 203dpi : 8,000 dots (1,000mm) - 300dpi : 11,820 dots (1,000mm)

Direct **(Print Direction)**	**Explanation** Setting print direction Top to bottom: Printing from top to bottom Bottom to Top: Printing from bottom to top **Default Value** Bottom to Top **Variable Value** Bottom to Top, Top to Bottom Printing Direction Top to bottom Bottom to top
Speed **(Print Speed)**	**Explanation** Setting print speed[ips] **Default Value** 203dpi : 5ips 300dpi : 3ips **Variable Value** - 203dpi : 3~6ips - 300dpi : 2~4ips
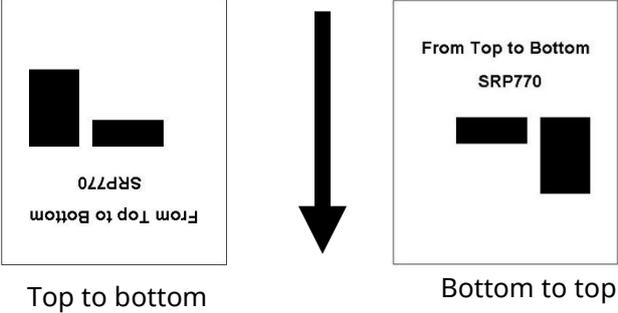
Density **(Print Density)**	**Explanation** Setting print density **Default Value** 203dpi : 20 300dpi : 20 **Variable Value** 0~30
Method **(Print Method)**	**Explanation** Setting print method **Default Value** Trans(Thermal Transfer) **Variable Value** Direct (Direct Thermal), Trans(Thermal Transfer)
Type **(Media Type)**	**Explanation** Setting media type **Default Value** Gap **Variable Value** - Gap - Black Mark - Continuous
Tear off	**Explanation** Setting media position[dots] for tear off after printing or feed **Default Value** 0 **Variable Value** -100 ~ 100

Offset **(Print Offset)**	**Explanation** Setting top print position[dots] **Default Value** 0 **Variable Value** -100 ~ 100
Mode **(Print Mode)**	**Explanation** Setting print mode suitable to the printer option **Default Value** Tear off **Variable Value** Tear off, Cutter
Pwr act **(Power Up** **Action)**	**Explanation** Setting the action for the printer after the power-up sequence. **Default Value** NO FEED **Variable Value** NO FEED, FEED, CAL LENGTH (Media Calibration), LABEL LENGTH (Setting Media Length)
Head cls **(Print Head** **Close)**	**Explanation** Setting the action for the printer when you close the printer cover. **Default Value** STANDBY **Variable Value** STANDBY, NO FEED, FEED, CAL LENGTH (Media Calibration), LABEL LENGTH (Setting Media Length)

3-8-5 Interface Menu Explanation

3-8-5-1 Serial

List	Explanation
Baud Rate	**Explanation** Setting the baud rate **Default Value** 115200 **Variable Value** 9600, 19200, 38400, 57600, 115200
Data Bit	**Explanation** Setting the data bit **Default Value** 8 **Variable Value** 7, 8
Parity	**Explanation** Setting the parity **Default Value** None **Variable Value** Even, Odd, None
Stop Bit	**Explanation** Setting the stop bit **Default Value** 1BIT **Variable Value** 1BIT, 2BIT
Handshk (Handshake)	**Explanation** Setting the handshake **Default Value** RTS_CTS **Variable Value** RTS_CTS, DTR_DSR, XON_XOFF

3-8-5-2 Ethernet

List	Explanation
IP Protocol	**Explanation** Setting IP assignment method **Default Value** DHCP **Variable Value** DHCP, Static IP
IP Address	**Explanation** Setting IP Address method **Default Value** Static IP: 192.168.192.123 DHCP: 0.0.0.0 **Variable Value** 0 ~ 255
Subnet Mask	**Explanation** Setting subnet mask **Default Value** Static IP: 255.255.255.0 DHCP: 0.0.0.0 **Variable Value** 0 ~ 255
Gateway	**Explanation** Setting gateway **Default Value** Static IP: 192.168.192.254 DHCP: 0.0.0.0 **Variable Value** 0 ~ 255
MAC Address	**Explanation** Indicating MAC address

3-8-5-3 WLAN

List	Explanation
Channel	**Explanation** Setting channel when creating Adhoc network **Default Value** 6 **Variable Value** 1 ~ 14
Network	**Explanation** Setting WLAN operation mode **Default Value** SoftAP **Variable Value** SoftAP, Infra(Infra structure), Adhoc, P2P
ESSID (AP ID)	**Explanation** Setting the ID of AP to be accessed
Auth (Authentication)	**Explanation** Setting WLAN authentication method **Default Value** Open **Variable Value** Open, Shared Key, WPA1PSK, WPA2PSK, WPA1EAP, WPA2EAP
Encrypt (Encryption)	**Explanation** Setting WLAN encryption method **Default Value** None **Variable Value** None, WEP64/128, TKIP, AES, AES+TKIP
WEP Password	**Explanation** Setting WEP password
PSK Password	**Explanation** Setting PSK password

IP Protocol	**Explanation** Setting IP assignment method **Default Value** DHCP **Variable Value** DHCP, Static IP	
IP address	**Explanation** Setting IP address **Default Value** Static IP: 192.168.1.1 DHCP: 0.0.0.0 **Variable Value** 0 ~ 255	
Subnet Mask	**Explanation** Setting subnet mask **Default Value** Static IP: 255.255.255.0 DHCP: 0.0.0.0 **Variable Value** 0 ~ 255	
Gateway	**Explanation** Setting gateway **Default Value** Static IP: 192.168.1.254 DHCP: 0.0.0.0 **Variable Value** 0 ~ 255	
SWC	**Execute SWC**	**Explanation** Connecting printers to network environments using SWC(Simple Wi-Fi Connect) mode
	Print App URL	**Explanation** Site linking(QR code) for SWC technical support

3-8-5-4 Bluetooth

List			Explanation
Device Name			**Explanation** Name of Device
Pairing	**Pincode**		**Explanation** Changes required pin code to connect
	SSP **(Secure simple pairing)**		**Explanation** Secure simple pairing **Default Value** Disable **Variable Value** Disable, Just Works, Numeric Comparison, Passkey Entry
MAC Address			**Explanation** Bluetooth device MAC address
Mode	**BLE** **(Bluetooth** **Low Energy)**		**Explanation** Bluetooth Low Energy **Default Value** Disable **Variable Value** Disable, Enable
	STD **(Standard** **Mode)**	**Connect Mode**	**Explanation** Setting Bluetooth connection mode **Default Value** Mode2 **Variable Value** Mode1, Mode2, Mode3
		Auth&Enc **(Authentication** **&Encryption)**	**Explanation** Setting Bluetooth authentication and encryption function **Default Value** Enable **Variable Value** Enable, Disable

3-8-6 Sensor Menu Explanation

List	Explanation
Gap Cal (Gap Calibration)	**Explanation** Detect media gap automatically.
Black Mark Cal (Black Mark Calibration)	**Explanation** Detect media black mark automatically.

3-8-7 Tools Menu Explanation

List	Explanation
Self prt (Print Self-Test)	**Explanation** Prints for self-test
Reset (Factory Reset)	**Explanation** Initializes the printer settings to factory default
Dump (Data Dump Mode)	**Explanation** The received data check when the printer does not work properly. **Default Value** Disable **Variable Value** Disable, Enable
Head Chk (Print Head Check)	**Explanation** Dot-out check of head through printing
USB Num (USB Serial Number)	**Explanation** Checks USB serial number
Demo prt (Demo Print)	**Explanation** Demo format printing function

Files	Saved (Saved File)	Template	**Refer** 3-8-7-1 Saved File
		Image	
		Fonts (Download Fonts)	
		E Drive (Flash Memory)	
		A Drive (USB Storage)	
	Twin (Twin Function)	PRT Set (Printer Setting)	**Refer** 3-8-7-2 Twin Function
		Template	
		Image	
		Fonts (Download Fonts)	
	F/W Update		**Refer** 3-8-7-3 F/W Update

3-8-7-1 Saved File

Displays the list of object files stored in the printer.

List	Explanation
Template	Template list stored in the printer
Image	Image list stored in the printer (*.pcx)
Fonts (Download Fonts)	Download font list stored in the printer
E Drive (Flash memory)	Saved object files in E drive
A Drive (USB memory)	Saved object files in A drive

3-8-7-2 Twin Function

Saves the current printer settings, save files (templates, images, download fonts) to another printer using USB, or loads the settings of another printer.

List	Explanation
PRT Set (Printer Setting)	**Explanation** Save printer settings to a USB storage device, or load the print settings from USB storage. **File path** F:\configuration • **Save Function Explanation** - Connect a USB storage to the printer. - Select Save on the menu using the move button( ) and select button( ). - The printer_config file is created in the configuration folder of USB storage device. (The configuration folder is automatically created) • **Load Function Explanation** - Check whether the printer_config file exists in the configuration folder of the USB storage device. - Connect the USB storage to the printer. - Select Load on the menu using the move button( ) and select button( ). - Loading message(Loading...) is displayed while loading, and when loading is completed, USB loading completion(Load Ok) message is displayed. - Check the changes of the printer's settings.

Template	**Explanation**
	Save template files to a USB storage device, or load the templates from USB storage.
	
	File path
	F:\ USER_AREA_TEMPLATES
	
	• **Save Function Explanation**
	 - Connect a USB storage to the printer.
	 - Select Save on the menu using the move button(⟳) and
	   select button(✓).
	 - Template files are stored in the USER_AREA_TEMPLATES folder of
	   USB storage device.
	   (USER_AREA_TEMPLATES folder is automatically created)
	
	• **Load Function Explanation**
	 - Check whether a template files exist in the
	   USER_AREA_TEMPLATES folder of the USB storage device.
	 - Connect the USB storage to the printer.
	 - Select Load on the menu using the move button(⟳) and
	   select button(✓).
	 - Loading message(Loading…) is displayed while loading,
	   and when loading is completed, USB loading completion
	   (Load Ok) message is displayed.
	 - Go to Save File menu then, check the template files are saved
	   to the printer.

Image	**Explanation**
	Save image files to a USB storage device, or load the images from USB storage (*.pcx)
	
	File path
	F:\ USER_AREA_PCXImages
	
	• **Save Function Explanation**
	- Connect a USB storage to the printer.
	- Select Save on the menu using the move button( ) and select button( ).
	- Image files are stored in the USER_AREA_PCXImages folder of USB storage device.
	  (USER_AREA_PCXImages folder is automatically created)
	
	• **Load Function Explanation**
	- Check whether the image files exist
	  in the USER_AREA_PCXImages folder of the USB storage device.
	- Connect the USB storage to the printer.
	- Select Load on the menu using the move button( ) and select button( ).
	- Loading message(Loading…) is displayed while loading,
	  and when loading is completed, USB loading completion
	  (Load Ok) message is displayed.
	- Go to Save File menu then, check the image files are saved to
	   the printer.

Fonts (Download Fonts)	**Explanation** Save download font files to a USB storage device, or load the download font from USB storage. **File path** F:\ USER_AREA_FONTS • **Save Function Explanation** - Connect a USB storage to the printer. - Select Save on the menu using the move button( ) and select button( ). - Download Font files are stored in the USER_AREA_FONTS folder of USB storage device. (USER_AREA_FONTS folder is automatically created) • **Load Function Explanation** - Check if the downloaded font files exist in the USER_AREA_FONTS folder of the USB storage device. - Connect the USB storage to the printer. - Select Load on the menu using the move button( ) and select button( ). - Loading message(Loading…) is displayed while loading, and when loading is completed, USB loading completion (Load Ok) message is displayed. - Go to Save File menu then, check the download font files are saved to the printer.

3-8-7-3 F/W Update

Firmware can be updated through USB storage.

F/W Update	**Explanation** Printer firmware update available using the USB storage directly without any communication. **File path** F:\ FW_DOWNLOAD **File name** "XD5-4xt_Vxx.xx_STD_mmddyy.fls" in F:\ FW_DOWNLOAD folder. (203dpi : x is 0 / 300dpi : x is 3) • **Download process explanation** - Check firmware file(*.fls) is in FW_ DOWNLOAD folder of USB storage. - Connect USB storage to the printer. - Select "F/W Update" from the "Files" menu. - Select "Start" from the "F/W Update" menu using the function button 1 ( ). - If message "F/W Update" is displayed, the firmware download has started normally. - After firmware update complete successfully, printer will be rebooted automatically.

3-8-8 Information Menu Explanation

List	Explanation
Info	**Explanation** Checking the printer usage information
Support	**Explanation** Site linking(QR code) for technical support.

4. Self-test

• This function is supported on standard model(without LCD) only.

The self-test checks whether the printer has any problems.

The self-test checks the following;

1) Make sure that the media has been installed properly.

2) Turn on the power while holding down the Feed/Cancel button().
   The self-test begins.
   (It takes about 10 seconds before starting self-test)

3) The self-test prints the current printer configuration information.

4) After the self-test results are printed, a printer enters into print ready mode.

> ⓘ   If the printer does not function properly, contact an authorized dealer.

5. Detailed Features

5-1 Stand-alone Configuration Mode
• This function is supported on standard model(without LCD) only.

5-1-1 Start Stand-alone Configuration Mode and execute each function

1) The Pause button(❚❚) is pressed for two seconds while in Print Ready Mode.

2) Both LEDs will change to orange color, then release the Pause button(❚❚)
   The printer will be set to Stand-alone configuration mode.

3) When the printer enters into this mode, the status of LED 1 and LED 2 are changed
   sequentially.

4) When the Feed/Cancel button(⬆) is pressed at specific LED color combination, the
   corresponding printer operation will be executed.

5-1-2 Function List Of Stand-alone Configuration Mode

Sequence Number	LED 1		LED 2		Printer Operation
	Color	Status	Color	Status	
1			Green	Blink4 times	Self Test
2	Green	On	Orange	Blink4 times	Print File List
3			Red	Blink4 times	Factory Reset
4			Green	Blink4 times	Gap Calibration
5	Orange	On	Orange	Blink4 times	Black Mark Calibration
6			Red	Blink4 times	Data Dump Mode
7			Green	Blink4 times	Demo Mode
8	Red	On	Orange	Blink4 times	Reserved
9			Red	Blink4 times	Delete Downloaded Items

* This information can be printed out by printer self-test.

> ⓘ Contact the customer center if the printer does not enter
> stand-alone configuration mode.

5-2 Pause/Cancel

• During multiple-page print jobs, the Pause(❙❙), Feed/Cancel button(⬆),

Function button 1(⚬⚬⚬) and Function button 2(⚬⚬⚬) can be used to pause printing and cancel the print job altogether, respectively.

5-2-1 Pause/Resume Function

1) Standard Model

LED 1   LED 2
 	
Pause Button   Feed/Cancel Button
	1) When printing, press the Pause button (❙❙)
	
	2) The printer will pause after finishing the current media printing and the status of LED will be as follows.
	  - LED 1: Green Blink
	  - LED 2: Red On
	
	3) While the print job is paused, press the Pause button (❙❙) again to resume printing.

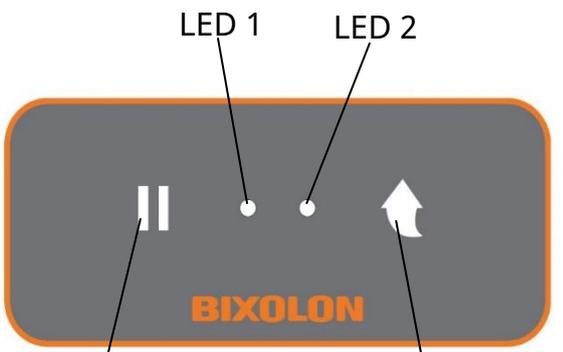2) LCD Model

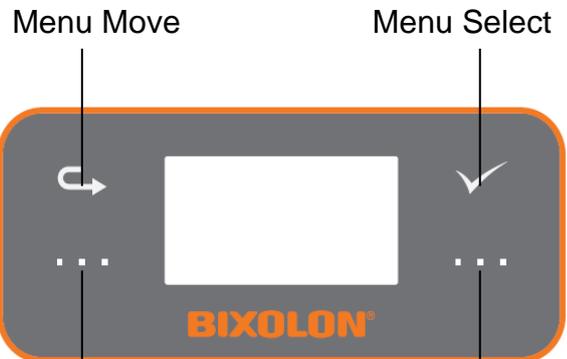|	
Menu Move Menu Select Function Button 1 Function Button2	1) When printing, press the Function button 1(⚬⚬⚬). 2) The printer will pause after finishing the current media printing and the status of LCD will be as follows. - LCD Display: PAUSE 3) While the print job is paused, press the Function button 1(⚬⚬⚬) again to resume printing.

5-2-2 Print Cancellation

The following processes occur in the print cancellation mode.
- All label printing cancelled
- All data received in the printer communications buffer deleted.
- All received data deleted.

1) Standard Model

LED 1 LED 2 Pause Button Feed/Cancel Button	1) During printing and/or pause mode, press the Feed/Cancel button ( ) enters the print cancellation mode. 2) The LED Status in the print cancellation mode can be as follows. - LED 1: Green On - LED 2: Red Blink 3) While in the print cancellation mode, press the Feed/Cancel button ( ) again to return to print ready mode.

2) LCD Model

Menu Move Menu Select Function Button 1 Function Button 2	1) During printing and/or pause mode, press the Function button 2( ) enters the print cancellation mode. 2) The LCD Status in the print cancellation mode can be as follows. - LCD Display: Press Cancel 3) While in the print cancellation mode, press the Function button 2( ) again to return to print ready mode.

> ❗ Contact the authorized dealer if the printer does not execute pause/resume function.

5-3 Smart Media Detection

• Media with gap and black mark can be identified without additional settings.

• 3~5 pages of media will be used depending on the types of media.

• Smart Media Detection function is executed in the followings cases
  - When the printer is installed first time, it is executed by pressing the Feed/Cancel button( ) for LED model, pressing Function button 2( ) for LCD model.
  - If the printer is installed first time, printer command will execute Smart Media Detection.
  - When change of media length or type is detected during feeding or printing.
  - When the different media type command is entered from the configured media type.
  - After factory reset.

> ❗ If smart media detection fails, please proceed gap or B/M sensor auto-calibration accordingly

5-4 Gap Sensor Auto Calibration Mode

• Gap sensor auto calibration mode is used when the printer does not detect a gap on the media correctly.

Generally a printer is set to detect most types of gap but sometimes it fails to detect and keep feeding the media without a stop when special media used. In such case, use gap sensor auto calibration mode function for a proper detection.

1) Make sure that media roll has been installed properly.

  (1) Standard Model

    Using stand-alone configuration mode, press the Feed/Cancel button( )
    at sequence number 4 gap sensor auto calibration mode (refer to 5-1).

  (2) LCD Model

    In print ready mode the setting menu and move to Sensor→Gap Cal(Gap Calibration)

    and press Function button 1( ) to process gap sensor auto calibration
    * Please refer Tools Menu Explanation (3-6) for more information.

> ❗ Contact the customer center if the printer does not execute
> gap sensor auto calibration mode function.

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5-5 B/M Sensor Auto Calibration Mode

• Black mark sensor auto calibration mode is used when the printer does not detect
  a black mark on the media correctly.

Generally a printer is set to detect most types of black mark but sometimes it fails to detect and keep feeding the media without a stop when special media used. In such case, use black mark sensor auto calibration mode function for a proper detection.

1) Make sure that media roll has been installed properly.

(1) Standard Model

   Using stand-alone configuration mode, press the Feed/Cancel button( )
   at sequence number 5 black mark sensor auto calibration (refer to 5-1).

(2) LCD Model

   In print ready mode the setting menu and move to Sensor→Black Mark Cal(Black Mark

   Calibration) and press Function button 1( ) to process black mark sensor auto
   calibration
   * Please refer Tools Menu Explanation (3-6) for more information.

> ❗ Contact the customer center if the printer does not execute
>   black mark sensor auto calibration mode function.

5-6 Media Sensor Manual-Calibration

• Manual-calibration of media detection can be used when the printer cannot detect a media gap (or black mark) even after auto-calibration has been executed.

Users can calibrate sensor parameters in detail by using the Unified Label Utility-II program provided by the manufacturer.

The Unified Label Utility-II can be downloaded from the BIXOLON website. (www.bixolon.com/)

Users can calibrate printer to detect gap (or black mark) manually by using the Unified Label Utility-II.
For More information, please refer Unified Label Utility-II manual.

Please make sure the printer is connected and execute the Unified Label Utility-II program. Please the "Calibration Setting Manager" Button after setting the interface type.
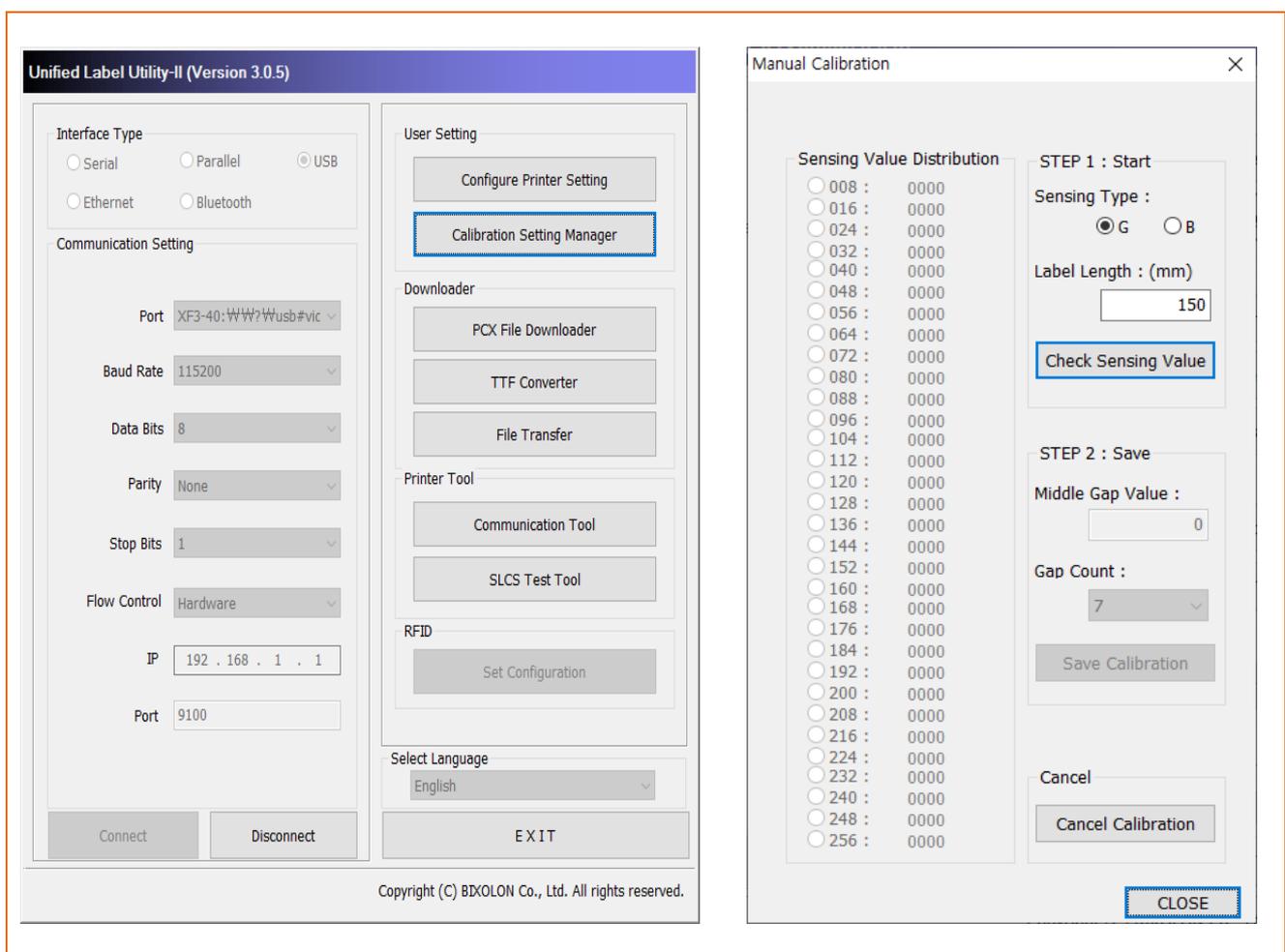
1) Select the sensing type and input the label length by millimeter and click "Check Sensing Value" button. Then printer starts calibration.

2) Once the calibration is done, scanned values will appear on the screen after calibration.

3) Optimal sensing values will appear in black bold letters on the left of the utility screen and select one of the values and click on "Save Calibration"

4) If chosen value does not work properly, please try the other values among the black bold letters.

5) To go back to the initial value, please click on "Cancel Calibration"

> Contact the customer center if the printer does not enter media sensor manual-calibration mode.

5-7 Data Dump Mode
• This function can be used to diagnose the communication issues when the printer does not work properly.

In this mode, the received data are not analyzed and printed, instead they are dumped in hex format without processing.

Turn the printer off and on to recover to the print ready mode.

1) Standard Model

Using stand-alone configuration mode, press the Feed/Cancel button ()
at sequence number 6 data dump mode (refer to 5-1).

2) LCD Model

In print ready mode the setting menu and move to Tools→Dump→Dump Enable and

press Function button 1() to run dump mode
* Please refer Tools Menu Explanation (3-6) for more information.

> Contact the customer center if the printer does not enter data dump mode.

5-8 Factory Reset

• This function is used to factory reset the printer settings.

1) Make sure that media roll has been installed properly.

  (1) Standard Model

      Using stand-alone configuration mode, press the Feed button
      at sequence number 3 Factory reset mode (refer to 5-1).
      * The printer will be rebooted automatically.

  (2) LCD Model

      In print ready mode the setting menu and move to Tools→Reset and press

      Function button 1(⬤⋯) to reset the printer to Factory default.
      * Please refer Tools Menu Explanation (3-6) for more information.
      * The printer will be rebooted automatically.

> **❗**   Contact the customer center if the printer does not enter
>   factory reset function.

5-9 SWC (Simple Wi-Fi Connect)

• Connect the printer to a network using SWC(Simple Wi-Fi Connect) mode.

** blink rate of "Pulse" is slower than blink rate of "Flash"

• Make sure that media roll has been installed properly.

   1) Standard Model

     (1) Press the Feed/Cancel button() for more than 3 seconds
        to enter SWC(Simple Wi-Fi Connect) Mode

     (2) The LED status in the SWC mode ready can be as follows.
        - LED 1: Green On
        - LED 2: Red Blink(pulse)

     (3) Printer's LED1 Green pulse indicates that the printer is in SWC Mode.
        you can set network through Host Devices.
        - LED 1: Green Blink(Flash → pulse)
        - LED 2: Green On

     (4) Once the network is not set correctly, LED1 will flash Orange,
        and try entering SWC Mode again.
        - LED 1: Orange Blink(pulse)
        - LED 2: Green On

   2) LCD Model

     (1) Enter SWC(Simple Wi-fi Connect) Mode using buttons. Print ready

        Interface → WLAN → SWC → Execute SWC and press Function 1 button()

     (2) Printer's LCD Display "SWC Mode" indicates that the printer is in SWC Mode.
        You can set network through Host Devices
        - LCD Display: "Preparing..." → "SWC Mode"

     (3) Once the network is not set correctly, LCD will Display Error Message,
        and try entering SWC Mode again.
        - LCD Display: "Password Error Return to SWC mode"

5-10 Print Standby Mode

5-10-1 About Print Standby Mode

The printed area may become out of range of media if the media is not in the accurate printing position when the cover is opened and closed.
The printer is put into print standby mode instead of print ready mode when the cover is closed in order to prevent this problem, and it waits for additional user input.

1) Standard Model
The LED status in the print standby mode can be as follows.
- LED 1: Green Blink
- LED 2: Green Blink

2) LCD Model
The LCD status in the print standby mode can be as follows.
- LCD Display: STANDBY

The data received during print standby mode will be printed after the printer recovers to print-ready mode.

5-10-2 How to switch the printer from Standby Mode to Print Ready Mode

1) Standard Model
- Press the Pause button (⏸) to switch to print ready mode without feeding any media.
- Press the Feed/Cancel button (⬆) to feed one page to align the media position and switch to the print ready mode.

2) LCD Model
- Press "Function button 1(⋯)" to switch to print ready mode without feeding any media.
- Press "Function button 2(⋯)" to feed one page to align the media position and switch to the print ready mode.
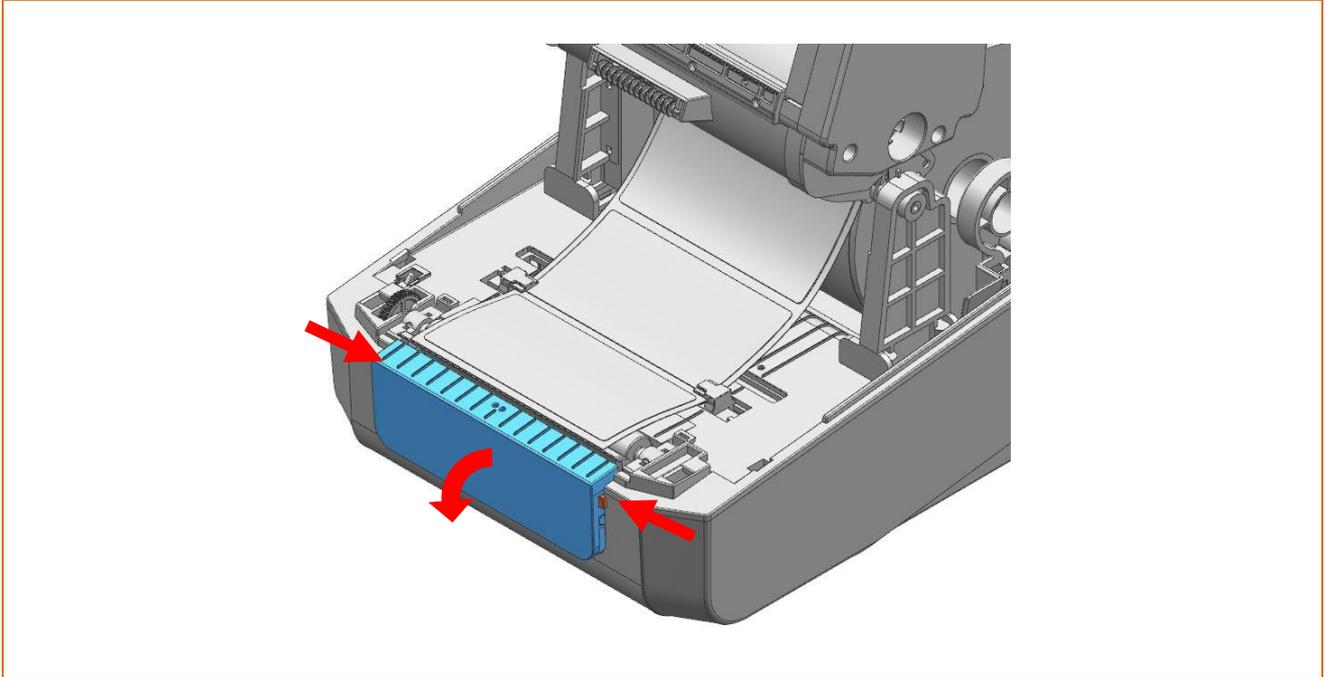
> ❗ Contact the customer center if the printer does not execute print standby mode function.
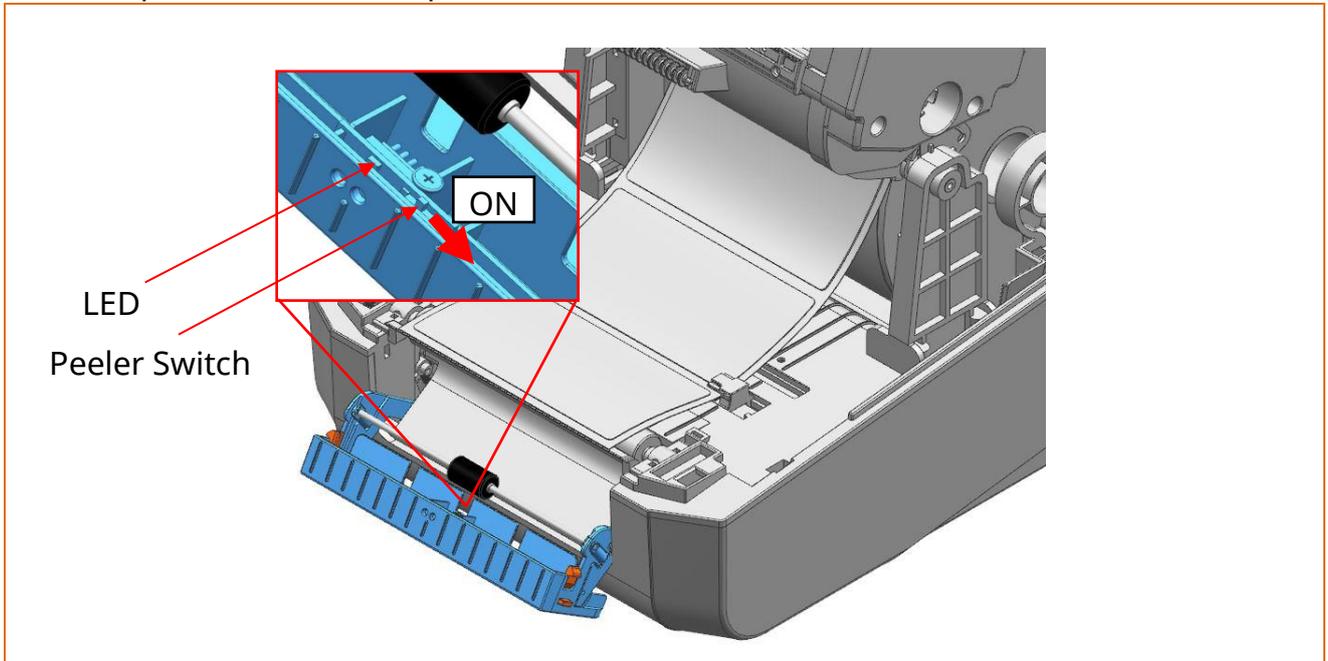
5-11 Media Installation Method of Peeler (Option) Model

• Use a peeler to separate the printed media from the liner automatically.
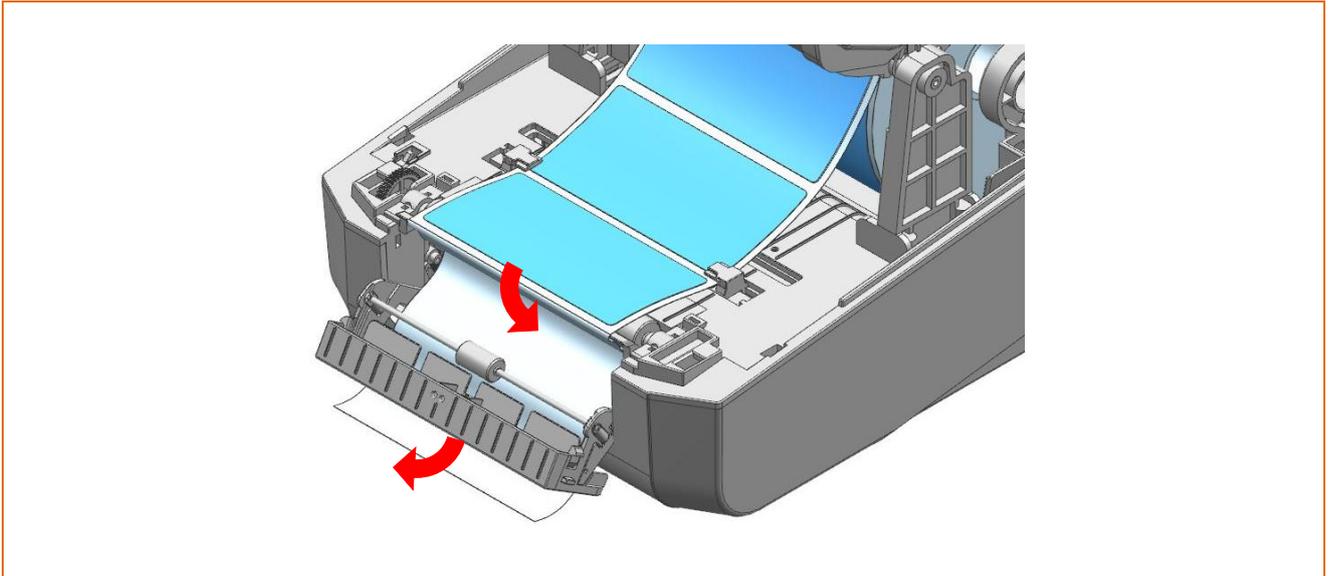 To use peeler, install media in the following ways:
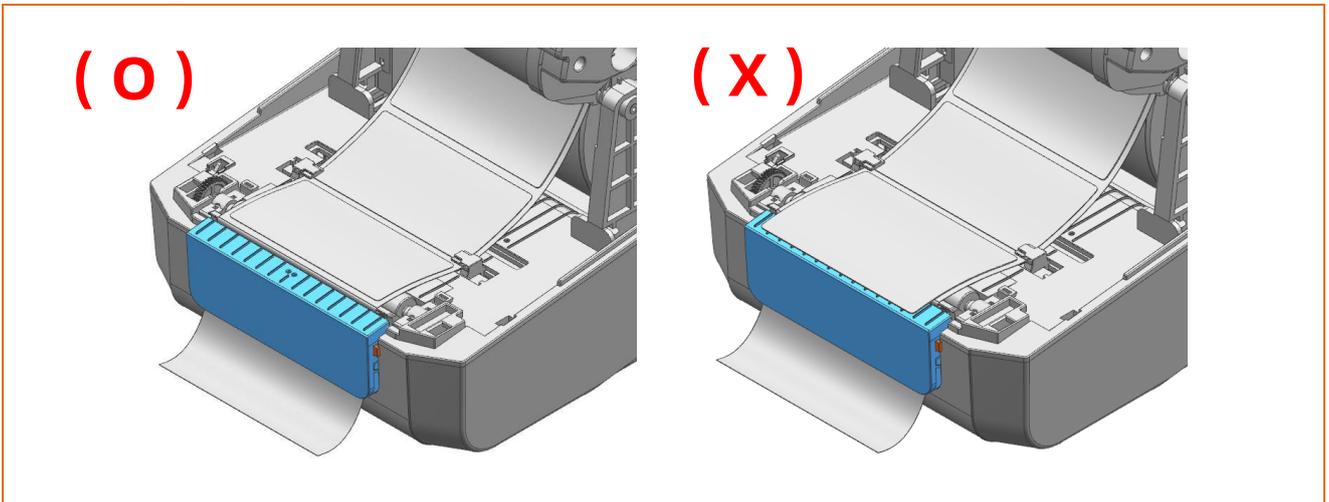
1) Open the media cover.

2) Open the peeler cover.

3) Set the peeler switch 'ON' position and check to LED has turned on.

4) Remove the media and insert the media through the slot.

5) Close the peeler cover until a click sound is heard.

6) Close the ribbon assembly and media cover until a click sound is heard.

> ⚠️ - **When opening or closing the cover, be careful not to pinch your fingers.**
> - **The peeler function is only available for Gap media.**
> - **When the peeler is switched on, the next label will not be printed unless the printed label is removed from the peeler.**
> - **When the peeler is switched off, the peeler does not work.**
> - **The print head gets extremly hot while printing or after the printing,this can cause serious burns. Do not touch the print head.**

5-12 Using Fan-Fold or External Media

• Supplying media to the printer externally is done as follows.

 • Remove the rear media supply cover on the back side of the printer with a cutting instrument.
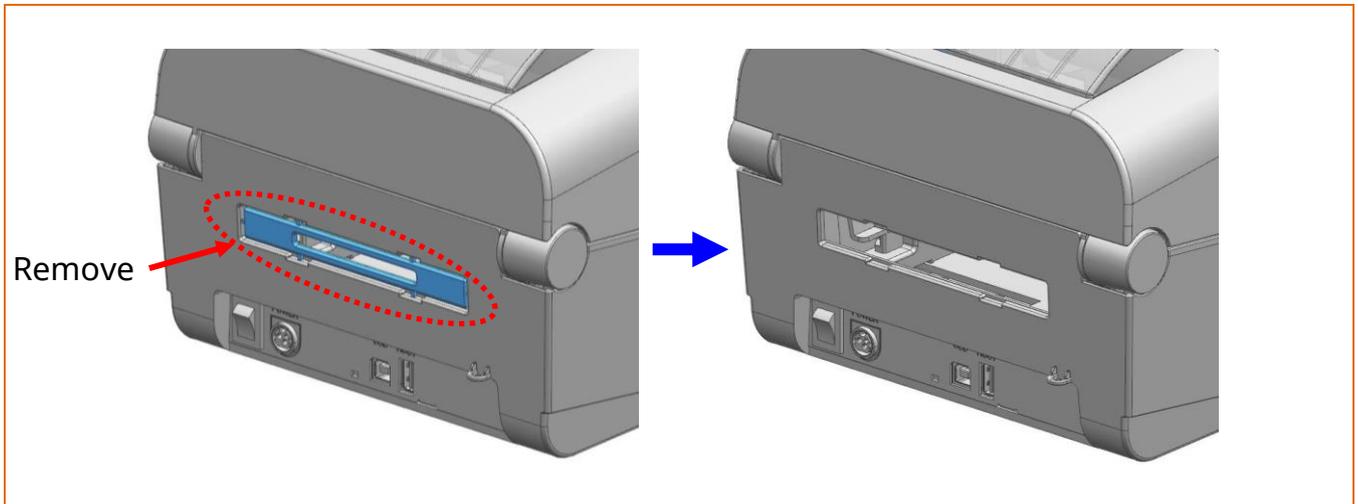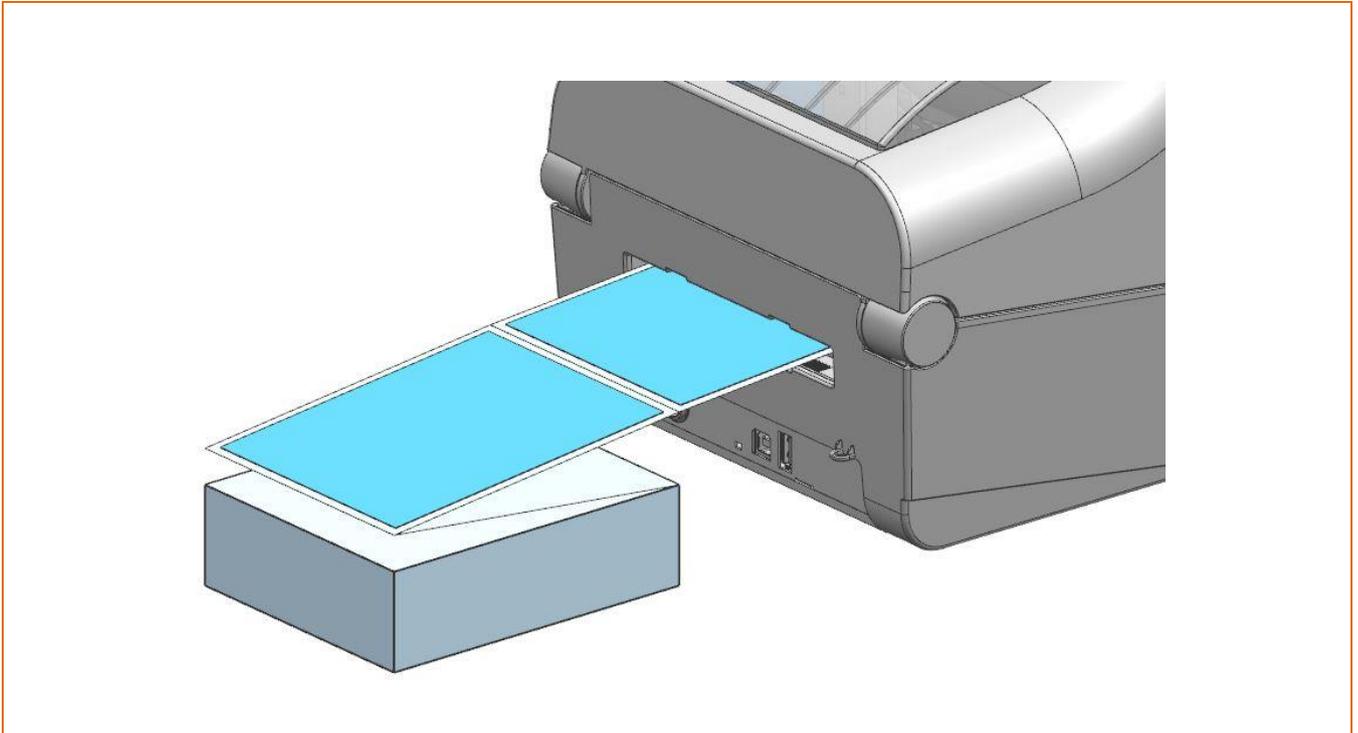

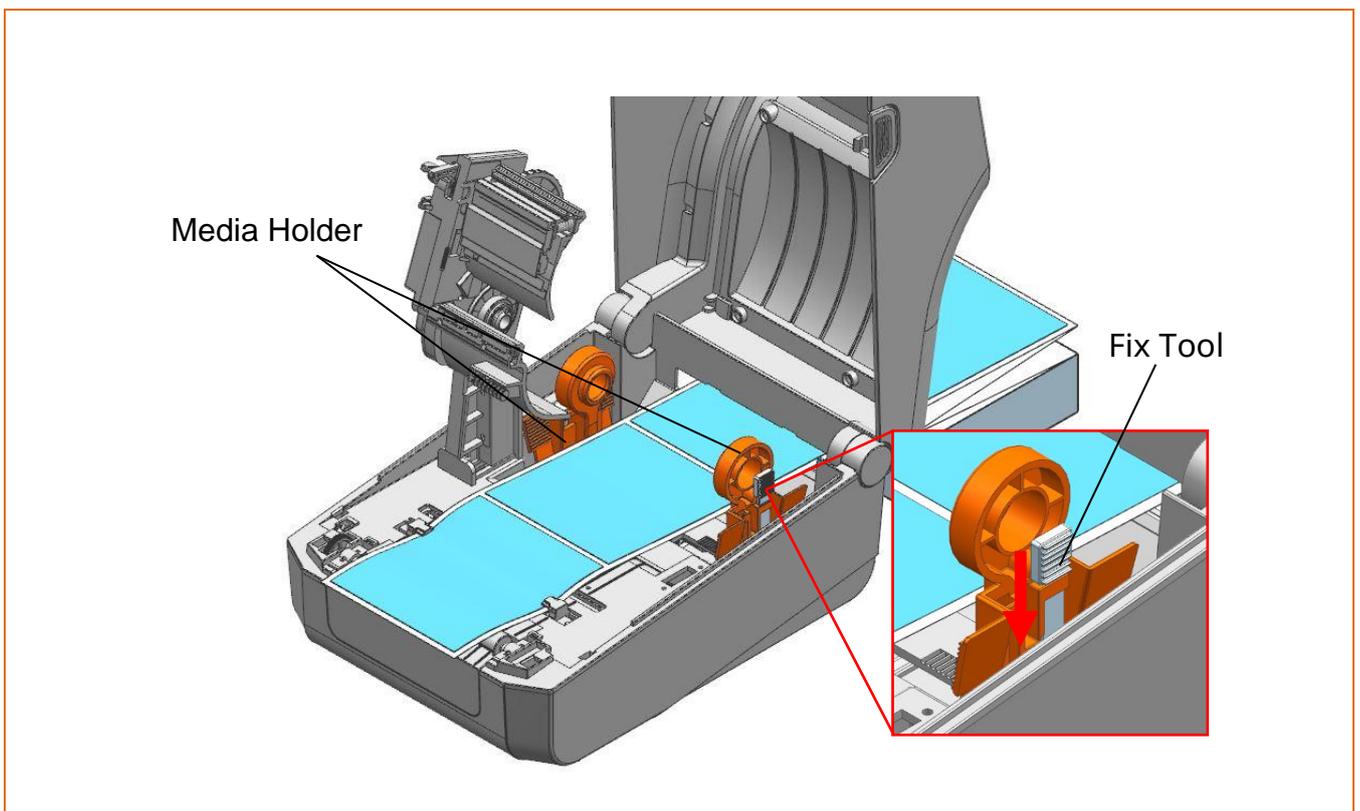⚠️ **Take care not to injure the hands and/or any other part of the body when performing this step**

5-12-1 When using Fan-Fold media

Supplying fan-fold media to the printer externally is done as follows.

1) Insert the media to at the rear of the printer as shown below.

2) Adjust media holders to the media width by using the fix tool.

Media Holder

Fix Tool

5-12-2 When using Large media roll (Optional)

Install the external media supplier(LES-400G) as shown below and adjust media holders to the media with Fix Tool.

External Media Supplier
(LES-400G)
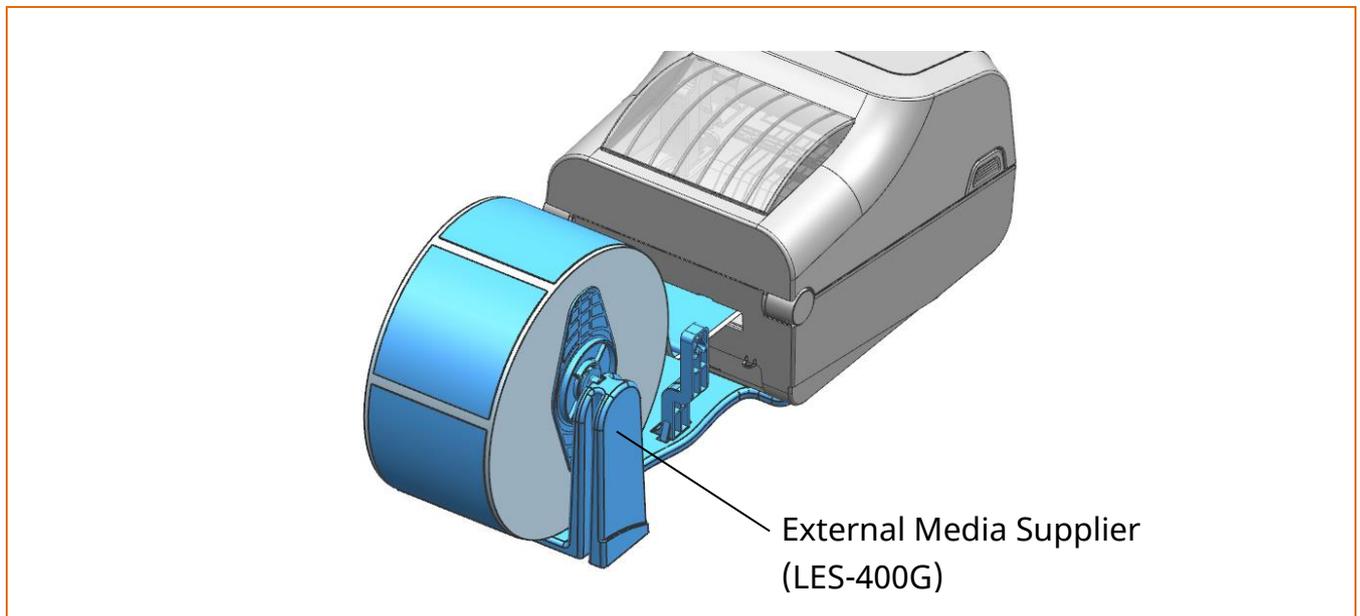
⚠️ - **Do not open the print cover while the printer is operating, Otherwise the printer may be damaged.**

- **To prevent data loss, replace media only when the printer is not receiving any data.**

- **Be aware of physical damage caused by external media when operating the printer**

5-13 Auto Cutter (Optional)

• For auto media cutting, products equipped with auto cutter are available.

Auto-Cutter can be controlled by command or Unified Label Utility-II.

> ⓘ Please refer CUT(Auto-cutter Enable/Disable) of Programming (SLCS) Manual or Unified Label Utility-II Manual for more information.
>
> ⚠ - **When opening or closing the cover, be careful not to pinch your fingers.**
> - **Do not open the media cover while the printer is operating. The printer may be damaged.**
> - **Change the media when the printer is not receiving data, or data may be lost.**
> - **Never insert objects or fingers while performing the cutting function. This can cause serious bodily injury.**
> - **Be careful not to touch the cutter blade with your hand. There may be a risk of personal injury.**
> - **The print head gets extremely hot while printing or after the printing, this can cause serious burns. Do not touch the print head.**

6. Printer Maintenance

Printing quality might be degraded by dust, foreign substance, adhesive substance, or other pollution materials stuck in the printer head or inside the printer.

When dirty, clean the print head as follows

6-1 Cleaning Printer Head
• Be sure to turn the printer off.

1) Open the media cover and then remove adhesive foreign substances or other pollution materials with the cloth or cotton swab soaked in alcohol for medical.

2) After cleaning the head, do not use the printer until the alcohol used for cleaning evaporates completely. (1~2 min)
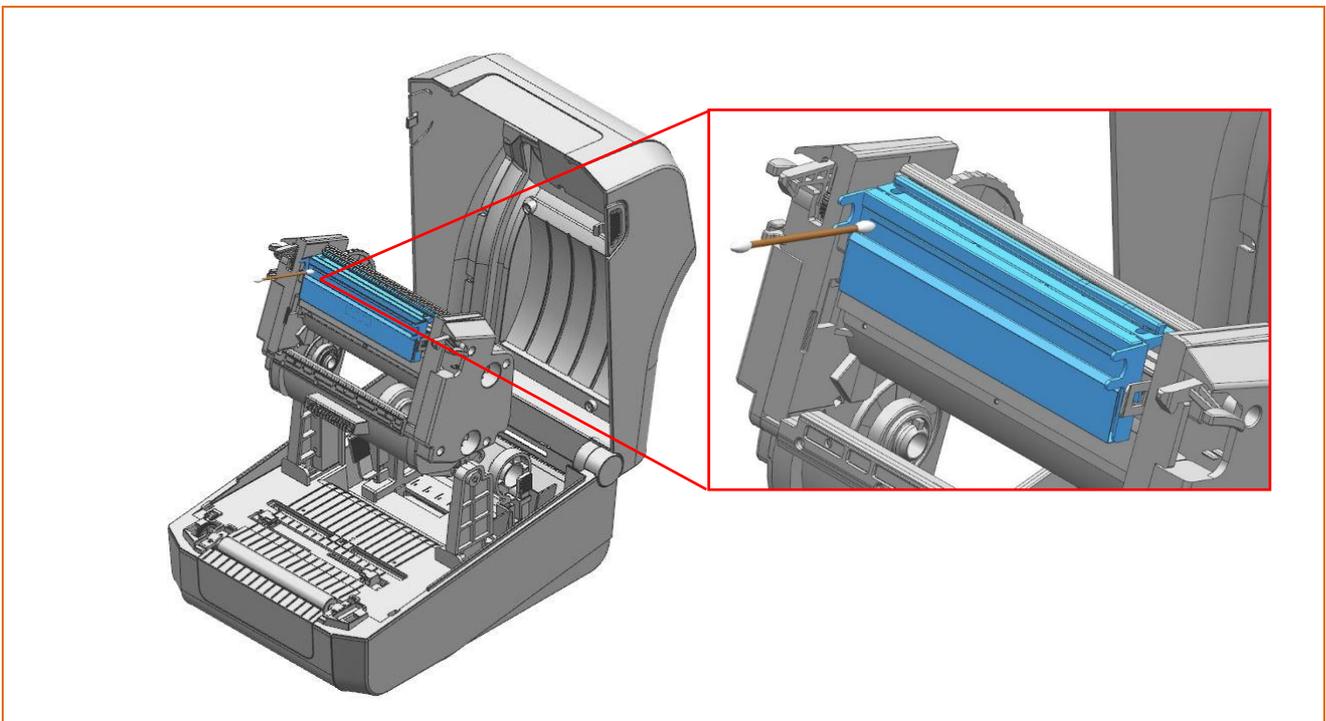
Perform the cleaning process each time the media roll is replaced to prevent print quality deterioration.

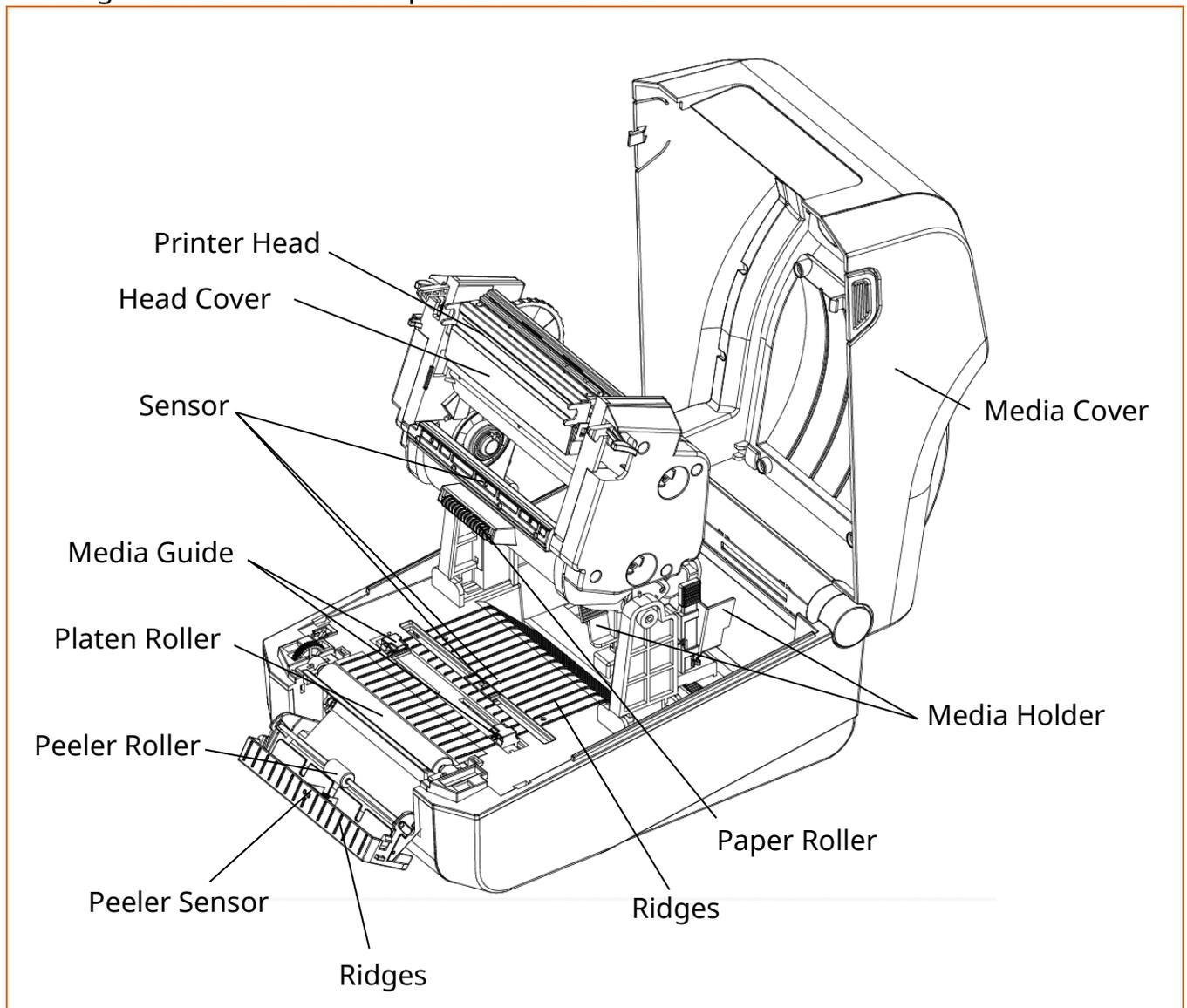- **Be sure to clean after turning the printer off.**
- **Be careful not to leave scratches in the print head.**
  The printer may be damaged.
- **The print head gets extremly hot while printing or after the printing, this can cause serious burns. Do not touch the print head.**
- **Do not touch heated area of print–head when cleaning.**
  Personal injury may result from static electricity, etc.

6-2 Cleaning Sensors, Roller or/and media Path

• Be sure to turn the printer off.

1) Open the media cover and remove the media.

2) Remove any dust or foreign substance using dry cloth or cotton swab.

3) Soak the cloth or cotton swab in alcohol for medical use and use it to remove adhesive foreign substances or other pollution materials.

Printer Head
Head Cover
Sensor
Media Guide
Platen Roller
Peeler Roller
Peeler Sensor
Ridges
Paper Roller
Ridges
Media Cover
Media Holder

⚠️ - **Clean the parts when there is a degradation of performance in printing quality or media detection.**
- **After cleaning the parts, do not use the printer until the alcohol evaporates completely (1~2 min) and the printer has completely dried.**
- **Be sure to use medical alcohol only. If not, it may cause printer damage.**

6-3 Replacing Roller

• Be sure to turn the printer off.

1) Open the media cover and remove the media.

2) Pull the roller holders and separate the roller assembly.

Roller Assembly

Roller Holder
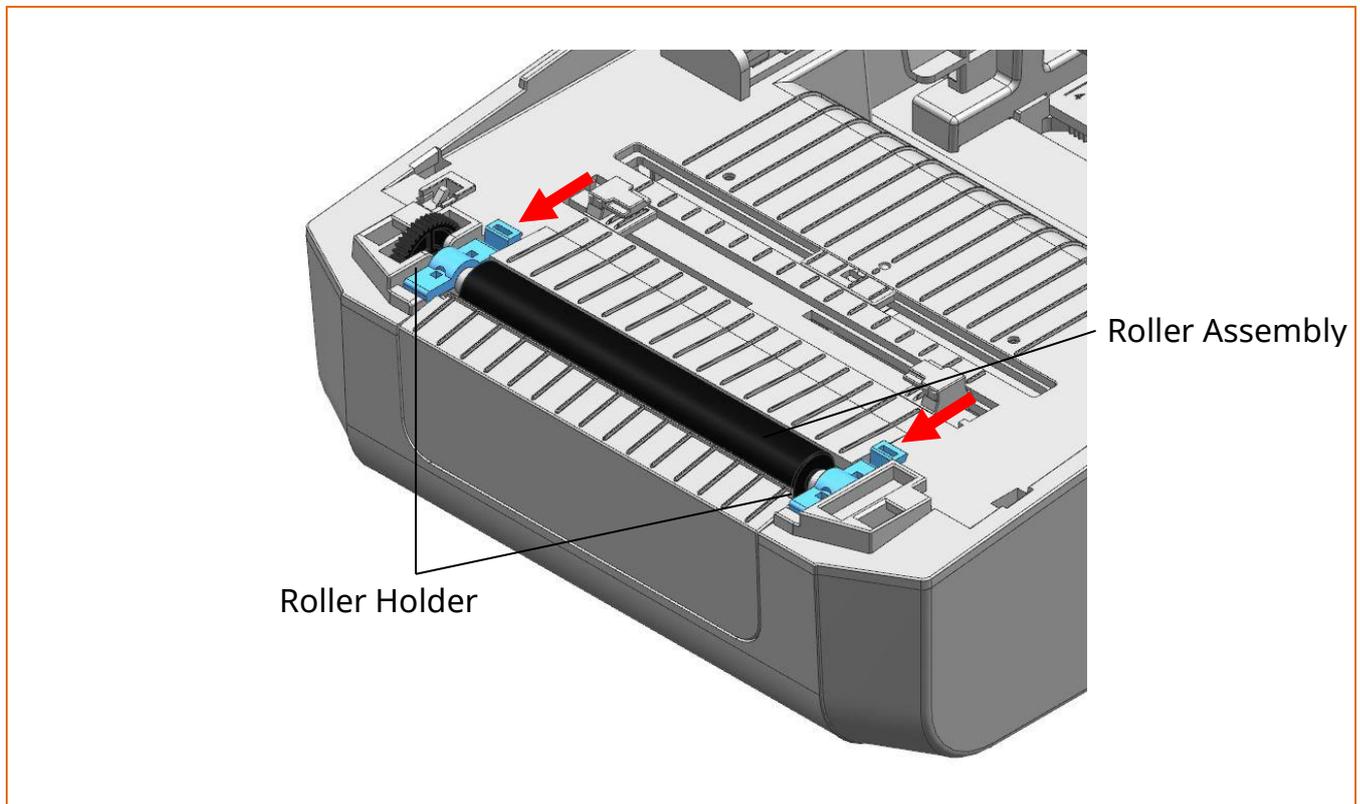
3) Assemble new roller assembly in reverse order.

⚠️ - **Make sure to turn the printer power off prior to cleaning.**
- **The print head gets extremly hot while printing or after the printing, this can cause serious burns. Do not touch the print head.**

7. Specifications

7-1 Printer Specifications

Item		Description
Printer	Printing Method	Thermal Transfer Printing
	Dot Density	XD5-40t: 203 dpi (8 dot/mm) XD5-43t: 300 dpi (11.8 dot/mm)
	Printing Width	XD5-40t: Max. 108 mm (Max. 4.25") XD5-43t: Max. 105.7 mm (Max. 4.16")
	Printing Speed	XD5-40t: Max. 152 mm/sec (Max. 6ips) XD5-43t: Max. 102 mm/sec (Max. 4ips)
	Printing Length	Up to 1,000mm
Media	Roll Width	15 ~ 118 mm (0.59 ~ 4.64")
	Roll	Max. 127 mm (Max. 5")
	Core	25.4 ~ 38.1 mm (1" ~ 1.5")
	Thickness	0.06 ~ 0.20mm
Ribbon	Length / Width	Max 300m / 33 ~ 110mm(1.3~4.3")
	Type(Outside)	Wax, Wax/Resin, Resin
	Core	0.5" / 1"
AC Adapter	SMPS Input Voltage	AC 100 - 240V
	Frequency	50/60 Hz
	SMPS Output Voltage	DC 24V ±5%
	SMPS Output Current	2.5A
Usage Conditions	Temperature	0 ~ 40 ℃ (Operating) -20 ~ 60 ℃ (Storage)
	Humidity (except for media)	10 ~ 80 % RH (Operating) 10 ~ 90 % RH (Storage)

Print speed may vary depending on the data transfer speed and the combination of command.

- **In case of danger, turn off the power to cut the connection.**
- **The power cord must be grounded to ensure safety and reduce electromagnetic interference**

7-2 Label Types Specifications

• The label types used with this printer are as follows.
  • Control Labels: PET
  • Other Labels: PET

Revision History

Ver.	Date	Description
1.00	17.03.20	New
1.01	2022-08-12	SWC added Document format revised
1.02	23.01.25	Ribbon installation path picture added