

User's Manual XT5-40 Series

Industrial Label Printer Ver. 1.06



http://www.bixolon.com

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Copyright

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BIXOLON 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

Electronics, such as printers, are prone to damage by static electricity. Therefore, to protect the printer from static electricity, be sure to turn off the printer before connecting or disconnecting the cable to the rear of the printer. If the printer is damaged by static electricity, contact your local dealer.

This euipmeqnt is not suitable for use in locations where children are likely to be present. When the printer is operating with the media cover open, do not wear anything that can touch the drive, such as clothing, necklaces, rings, watches, or employee certificates close to it. Also, keep yourself away from the printer as it is dangerous for some parts of the body to come into contact with it. If an object or part of your body touches the drive, immediately disconnect the power cord or turn off the power switch on the back of the product.

If the battery is not replaced correctly, there is a risk of explosion. Replace only with the same model or equivalent product specified by the manufacturer. When the battery is used up, be sure to tape the terminals and insulate them and dispose at the designated place in accordance with the relevant laws and ordinances set by the state.

Warning

Hazardous moving parts Keep fingers and other body parts away Pull the print head lever can be stop all moving parts.

IEC 60417-6057 (2011-05) for other moving parts.

Mise en garde

Les appareils électroniques, tels que les imprimantes, risquent d'être endommagés par l'électricité statique. Par conséquent, pour protéger l'imprimante de l'électricité statique, veillez à l'éteindre avant de connecter ou de déconnecter le câble situé à l'arrière de celleci. Si l'imprimante est endommagée par l'électricité statique, contactez votre revendeur local

Cet appareil n'est pas adapté d'utilser dans des endroits où des enfants sont probablement d'être présents.

Lorsque l'imprimante fonctionne avec le capot ouvert, ne portez rien qui puisse entrer en contact avec le mécanisme, tel que des vêtements, des colliers, des bagues, des montres ou des certificats d'employé à proximité. Éloignez-vous également de l'imprimante car il est dangereux que certaines parties du corps entrent en contact avec celle-ci. Si un objet ou une partie de votre corps entre en contact avec le mécanisme, débranchez immédiatement le câble d'alimentation ou éteignez l'interrupteur situé à l'arrière du produit.

Si la batterie n'est pas remplacée correctement, il existe un risque d'explosion. Remplacez-la uniquement avec le même modèle ou un produit équivalent approuvé par le fabricant. Lorsque la batterie est épuisée, veillez à coller du ruban adhésif sur les bornes, à l'isoler et à la jeter de manière adéquate, conformément aux lois et réglementations locales et nationales en vigueur.

Attention

Pièces mobiles dangereuses

Veillez à ce que vos doigts ou toute partie du corps n'entre(nt) pas en contact avec ces pièces. Tirez le levier de la tête d'impression pour arrêter toutes les pièces en movement.

IEC 60417-6057 (2011-05) pour les autres pièces mobiles.

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 disposal.

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.

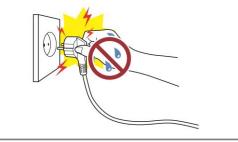
Use only power outlets that meet the standard. Connect the power cord only to a grounded power outlet. **Noncompliance may cause electric shock or fire.**



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.**



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.**



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.

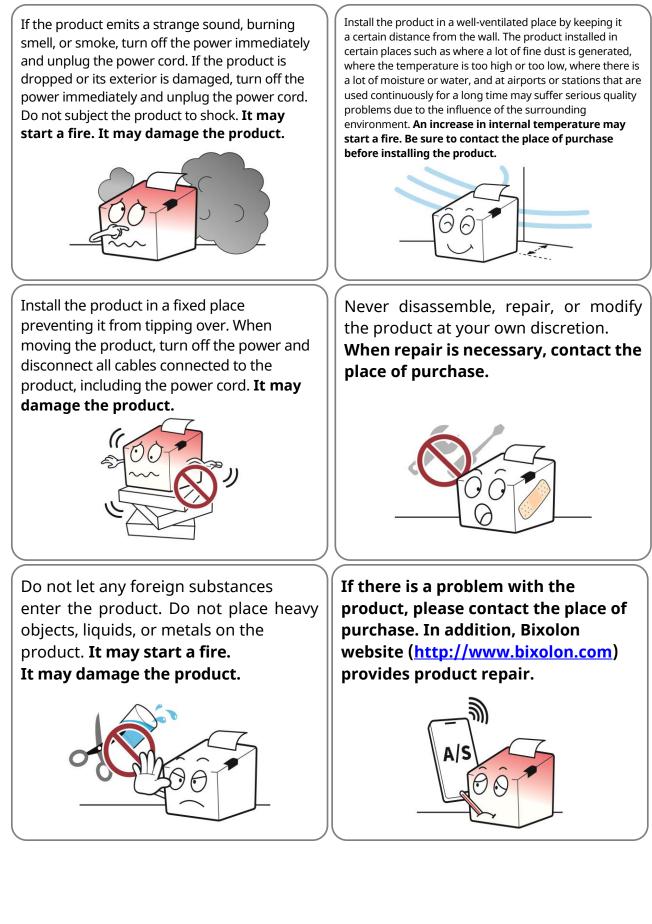


Keep small accessories or other packaging materials away from young children. Beware: children may swallow them. **Mishandling the product may incur injuries. If a child has swallowed any such thing, see a doctor at once.**



Do not allow the product to be damaged by heavy objects. Noncompliance may cause electric shock or fire.





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.
0	Note	It provides additional information on the function and performance of the product.

Printer Introduction

XT5-40 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. Industrial Label Printer
- 2. Thermal Transfer / Direct Thermal Printing
- 3. Max 356mm/s Print Speed
- 4. Print Width/Length: 104mm/4,000mm(XT5-40), 105.7mm/2,500mm(XT5-43), 105.6mm/1000mm(XT5-46)
- 5. Media Width/Outer Diameter/Inner Diameter/Thickness: 25~114mm/203mm/ 1.5~3inch (ID 1 inch Core: Optional)/0.06~0.3mm

6. Ribbon Width/Length/Type: Max 110mm/450m/Wax, Wax Resin, Resin, Outside, Inside

- 7. Movable Transmissive Sensor, Movable Reflective Sensor
- 8. 512MByte Flash/512MByte SDRAM
- 9. 3.5 Inch Color Graphics TFT LCD + Keypad
- 10. Option: Auto Cutter, Rewinder, Peeler, 4.3 Inch Color Touch Screen TFT LCD
- 11. Support Interface: USB, Serial, Parallel, Ethernet, WLAN, Bluetooth

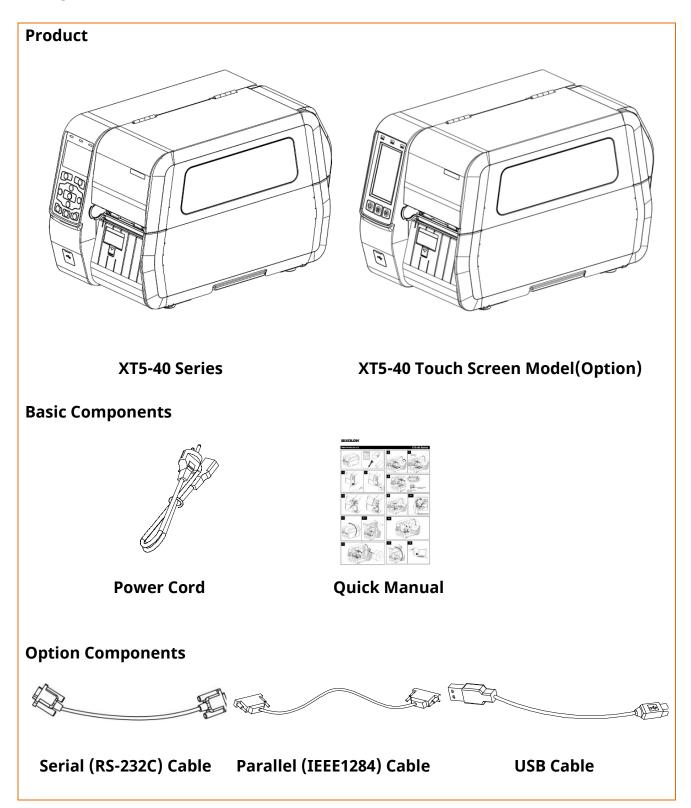
Product Symbol Introduction

\sim	AC (Alternation Current)
	DC (Direct Current)
	USB

1. Content Confirmation

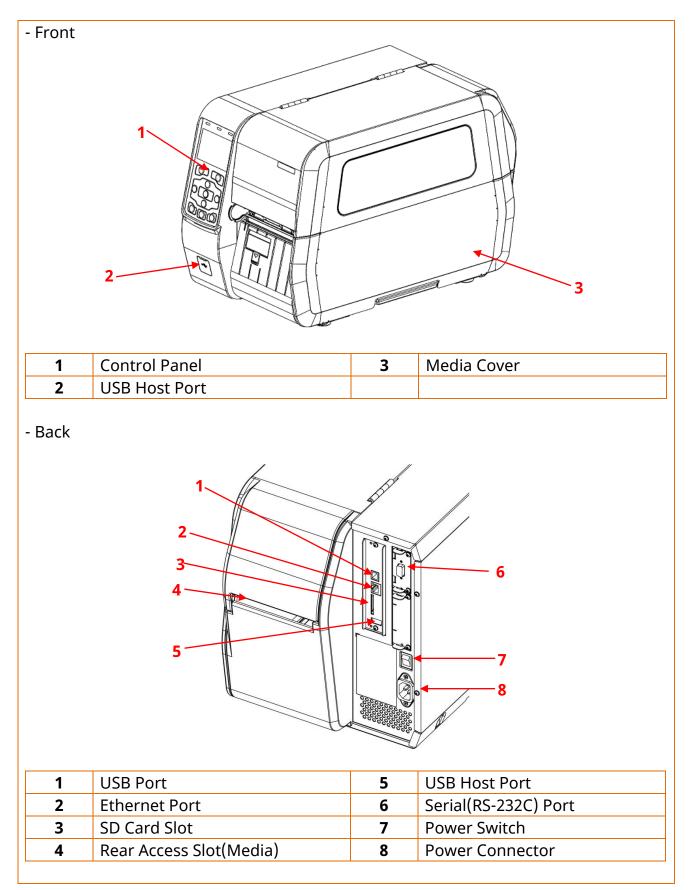
The following items should all be contained in the printer package.

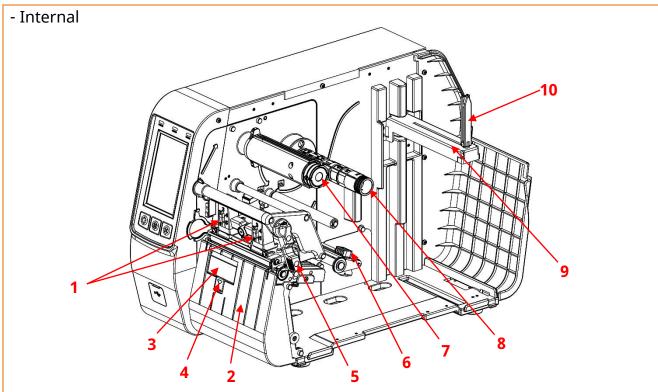
Contact the dealer from which the purchase was made if any item is damaged and/or missing.



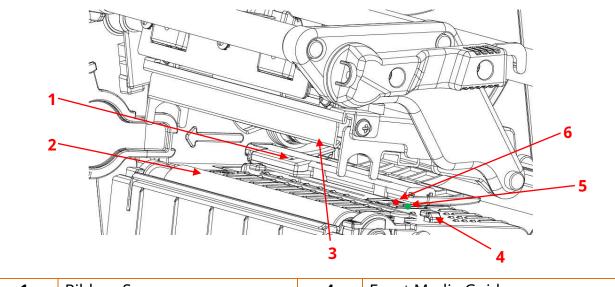
2. Product Part Names

2-1 Printer Part Names

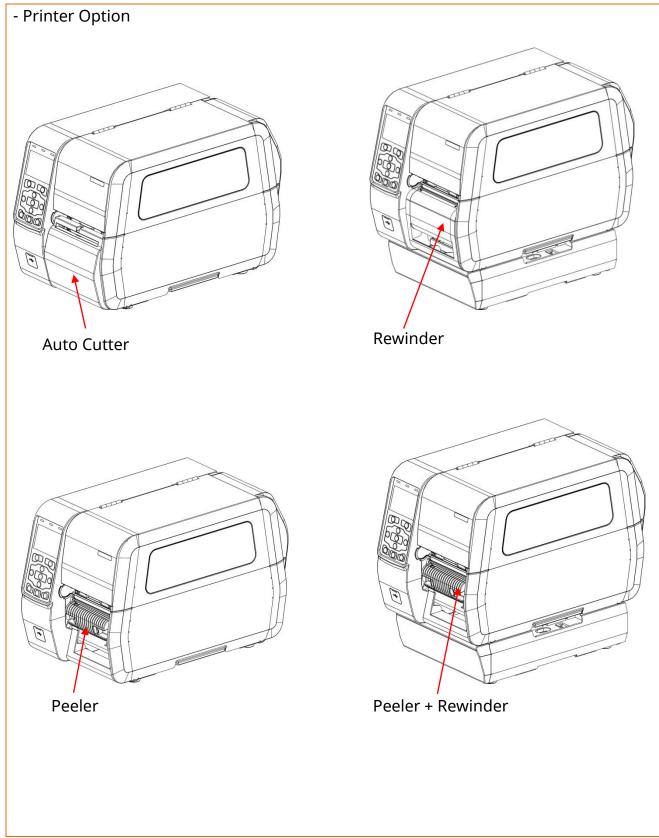




1	Print Head Pressure Adjustment	6	Rear Media Guide
2	Cover STD	7	Ribbon Take-up Spindle
3	Media Damper	8	Ribbon Supply Spindle
4	Media Damper Button	9	Media Holder
5	Print Head Lever	10	Media Fixing Guide

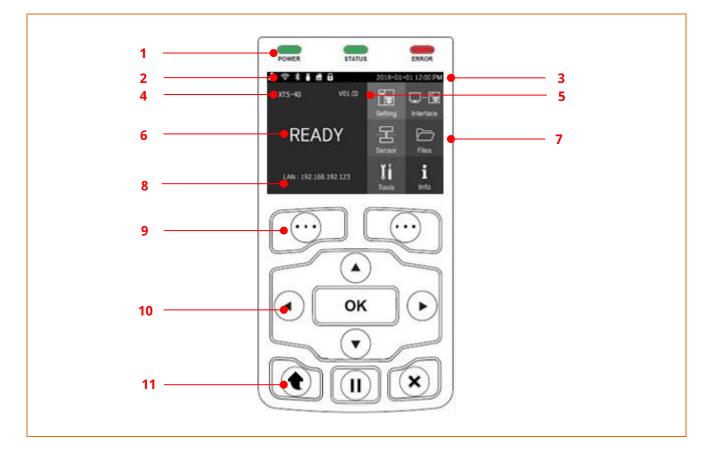


1	Ribbon Sensor	4	Front Media Guide
2	Platen Roller	5	Black Mark Sensor (Green LED)
3	Print Head	6	Gap & Notch Sensor (Red LED)



2-2 Major Control Part Names(Standard Model)

2-2-1 Control Panel



No	Description
1	Printer status LED
2	Interface status icon
3	Date, Time
4	Model name
5	Firmware version
6	Printer status
7	Main icon
8	Ethernet IP, WLAN IP
9	Function button
10	Direction button, Selection button
11	Printer operation button

2-2-2 Detailed Descriptions

2-2-2-1 Printer Status LED

List	Status	Explanation
	ON	Printer power on
POWER	OFF	Printer power off
	ON	Waiting for data reception
STATUS	BLINK	Receiving data
	BLINK	Print error
ERROR	OFF	In normal operation

2-2-2-2 Interface Status Icon

List	Status	Explanation
	ON	Ethernet is connected
	OFF	Ethernet is not connected
<i>a</i> k	ON	Not connected to AP
14	OFF	WLAN communication is not supported
î	ON	Connected to AP, Strength: 4
হ	ON	Connected to AP, Strength: 3
Ŷ	ON	Connected to AP, Strength: 2
•	ON	Connected to AP, Strength: 1
	ON	Bluetooth is not connected to the host
*	OFF	Bluetooth communication is not supported
*	ON	Bluetooth is connected to the host
	ON	USB device is connected
	OFF	USB device is not connected
ann SD	ON	SD card is installed
SD	OFF	SD card is not installed
Δ	ON	Password feature is enabled
f	OFF	Password feature is disabled

2-2-2-3 Date, Time (RTC clock)

List	Explanation
YYYY-MM-DD	Date
12:00 AM/PM	Time

2-2-2-4 Model Name

List	Explanation
XT5-40	Model name

2-2-2-5 Firmware Version

List	Explanation
V01.00	Firmware version

2-2-2-6 Printer Status

List	Explanation	
READY	Ready for print	
STANDBY	 Standing by for user input button: Switch to Print Standby Mode without feeding any media button: Feed one sheet of media to align the media position and switch to the Print Standby Mode 	
PRINTING	In printing	
PAUSE	Printing pause	
CANCEL	Canceled printing	
F/W Downloading	Downloading firmware	
PRINT HEAD OPEN	Print head is open	
PRINT HEAD OVER TEMP	Print head has reached the maximum temperature	
PRINT HEAD COLD TEMP	Print head has reached the minimum temperature	
AUTO CUTTER JAM	Media is stuck in the auto cutter blade	
MEADIA OUT	Media is not installed correctly	
RIBBON OUT	Ribbon is not installed correctly	
MEADIA JAM	Media is jammed and not printing normally	
SENSING FAIL	Media is not recognized normally	

2-2-2-7 Main Icons

List	Explanation
Setting	Printer settings
Interface	Interface settings
Sensor	Sensor settings
Files	File settings
Ŭ Tools	Additional and other functions settings
1 Info	Providing printer information

2-2-2-8 Ethernet IP, WLAN IP

List	Explanation
LAN: 192.168.100.123	Ethernet IP
WLAN: 192.168.100.123	WLAN IP (displayed only when WLAN is supported)

2-2-2-9 Function Button

List	Explanation
	Used for selection, cancellation, storing, and deletion

2-2-2-10 Direction Button, Selection Button

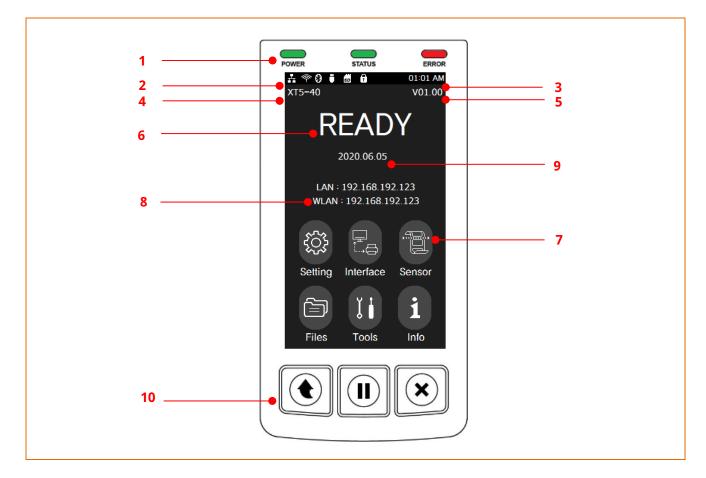
List	Explanation
	Used for menu selection

2-2-2-11 Printer Operation Button

List	Explanation
	Softly press and release the button to feed one label
	Press the button for 2 seconds during printing to pause printing
×	Press the button for 2 seconds during printing to cancel printing

2-3 Major Control Part Names(Touch Screen Model)

2-3-1 Control Panel



No	Description
1	Printer status LED
2	Interface status icon
3	Time
4	Model name
5	Firmware version
6	Printer status
7	Main icon
8	Ethernet IP, WLAN IP
9	Date
10	Printer operation button

2-3-2 Detailed Descriptions

2-3-2-1 Printer Status LED

List	Status	Explanation
	ON	Printer power on
POWER	OFF	Printer power off
	ON	Waiting for data reception
STATUS	BLINK	Receiving data
	BLINK	Print error
ERROR	OFF	In normal operation

2-3-2-2 Interface Status Icon

List	Status	Explanation
	ON	Ethernet is connected
	OFF	Ethernet is not connected
Ŕ	ON	Not connected to AP
K	OFF	WLAN communication is not supported
Ŷ	ON	Connected to AP, Strength: 4
Ŷ	ON	Connected to AP, Strength: 3
Ŧ	ON	Connected to AP, Strength: 2
t	ON	Connected to AP, Strength: 1
	ON	Bluetooth is not connected to the host
*	OFF	Bluetooth communication is not supported
*	ON	Bluetooth is connected to the host
	ON	USB device is connected
L L	OFF	USB device is not connected
	ON	SD card is installed
50	OFF	SD card is not installed
0	ON	Password feature is enabled
Ð	OFF	Password feature is disabled

2-3-2-3 Date, Time (RTC clock)

List	Explanation
YYYY-MM-DD	Date
12:00 AM/PM	Time

2-3-2-4 Model Name

List	Explanation
XT5-40	Model name

2-3-2-5 Firmware Version

List	Explanation
V01.00	Firmware version

2-3-2-6 Printer Status

List	Explanation
READY	Ready for print
STANDBY	Standing by for user input - button: Switch to Print Standby Mode without feeding any media - button: Feed one sheet of media to align the media
	position and switch to the Print Standby Mode
PRINTING	In printing
PAUSE	Printing pause
CANCEL	Canceled printing
F/W Downloading	Downloading firmware
PRINT HEAD OPEN	Print head is open
PRINT HEAD OVER TEMP	Print head has reached the maximum temperature
PRINT HEAD COLD TEMP	Print head has reached the minimum temperature
AUTO CUTTER JAM	Media is stuck in the auto cutter blade
MEADIA OUT	Media is not installed correctly
RIBBON OUT	Ribbon is not installed correctly
MEADIA JAM	Media is jammed and not printing normally
SENSING FAIL	Media is not recognized normally

2-3-2-7 Main Icons

List	Explanation
٤̈́́́́́ Setting	Printer settings
	Interface settings
SENSOR	Sensor settings
FILE	File settings
Ĭ İ TOOL	Additional and other functions settings
INFO	Providing printer information

2-3-2-8 Ethernet IP, WLAN IP

List	Explanation
LAN: 192.168.100.123	Ethernet IP
WLAN: 192.168.100.123	WLAN IP
WEAR, 192,100,100,123	(displayed only when WLAN is supported)

2-3-2-9 Function Button

List	Explanation
K O Back Home Select	Select, Cancel, Save, Delete, Move to main menu

2-3-2-10 Printer Operation Button

List	Explanation
٢	Press the button to feed one label
	Press the button for 2 seconds during printing to pause printing
×	Press the button for 2 seconds during printing to cancel printing

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.

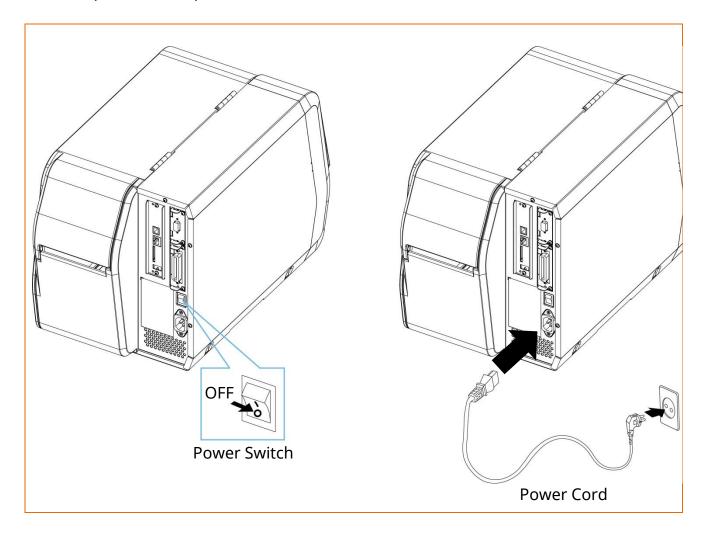
- Do not place objects close to the back or bottom of the printer, which may hinder the air circulation.

- Install the printer on a flat and level surface.
- Avoid humid environment.
- Install in a place that does not exceed the protocol standard of the wireless communication or the specified maximum distance.

- For stable wireless communication, install in a place where there is no physical obstacle (wall, object, etc.).

3-2 Power Connection

• Connect power to the printer as shown below.



- 1) Turn off the printer power switch.
- 2) Connect the power cord to the printer.
- 3) Connect the power cord to a power source/outlet.
 - For the safety of people and equipment, please use the appropriate power cord for your country or region.
 - Be sure to turn off the printer before connecting the power cord 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

V

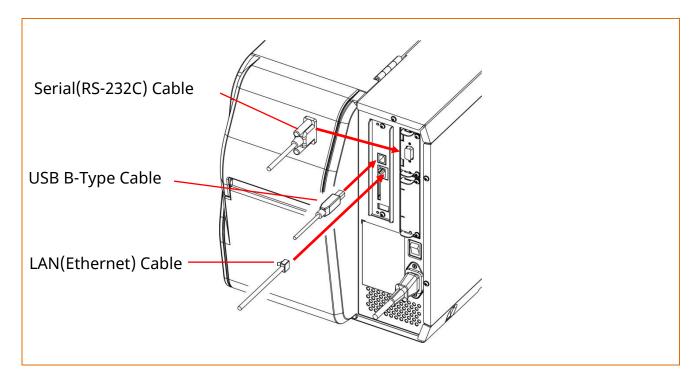
Shielded cables must be used to prevent radiation and reception of electrical noise. Use the shortest possible communication cable to minimize the detection of electrical noise in the cable.

- Serial(RS-232C) Cable (1.8m or less recommended)
- Parallel(IEEE1284) Cable
- (1.8m or less with ferrite core 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

This printer can use the following types of communication. - LAN (Ethernet) Cable / USB B-Type Cable / Serial (RS-232C) Cable



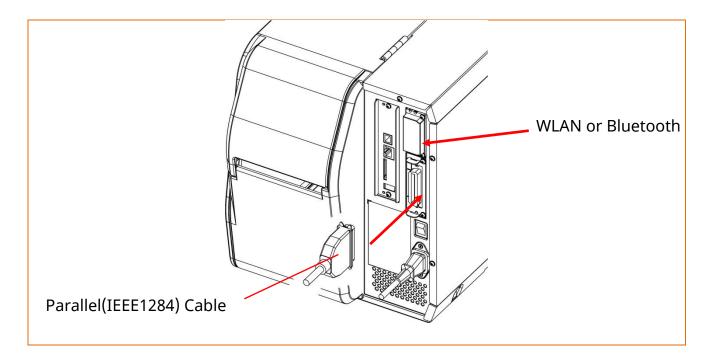
- 1) Turn off the power switch.
- 2) Connect the communication cable to the printer communication port to be used.
 - Connect the LAN(Ethernet) cable to the Ethernet port.
 - Connect the USB B-Type cable to the USB port.
 - Connect Serial(RS-232C) cable to the serial port and tighten both screws.



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 Option Interface

This printer can use the following types of communication. - WLAN / Bluetooth / Parallel(IEEE1284) Cable



- 1) Turn off the power switch.
- 2) Connect the communication cable to the printer communication port to be used.
 - Connect Parallel(IEEE1284) Cable to parallel port and fasten both clips.
 - Wireless interface does not require a separate cable connection



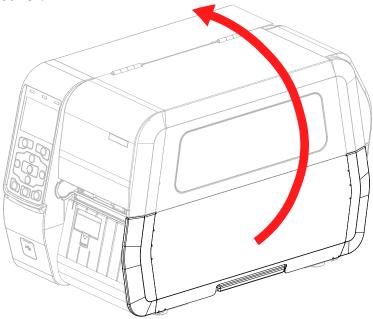
Be aware that the product's electronic components may be damaged due to discharging of electrostatic energy that accumulates on the surface of the body or other objects.

3-4 Media Installation

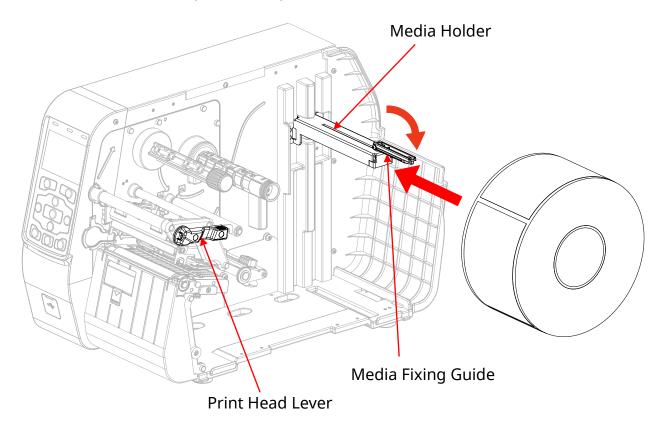
<u>3-4-1 Media Installation Method of Standard Model</u>

For standard models, install media in the following ways:

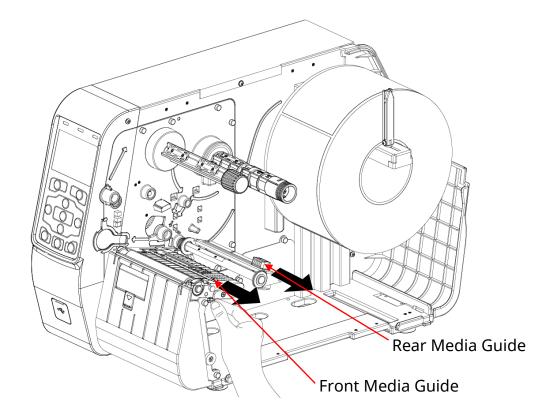
1) Open the media cover.



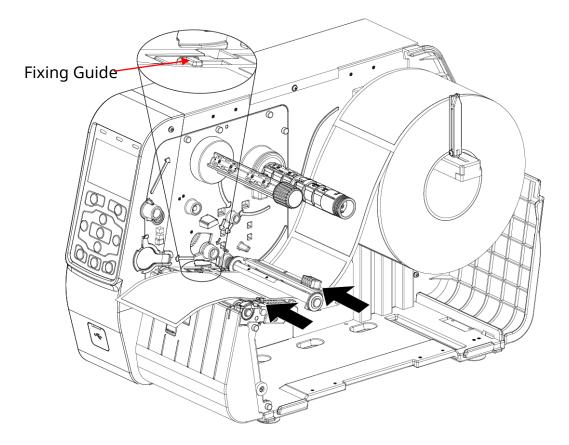
2) Open the print head lever. Flip down the media fixing guide and place the media in the media holder with print side up.



3) After flip up the media fixing guide, push the holder so that it is close to the media. Push the front and rear media guides to the right.

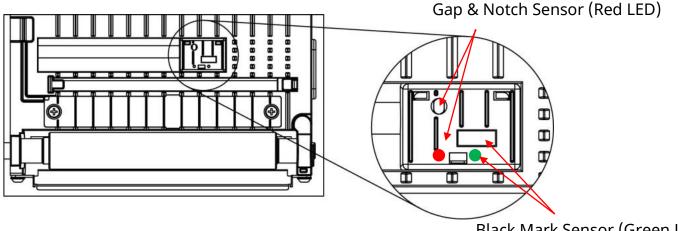


4) After inserting the media into the fixing guides, adjust the front and rear media guides to the media width.



5) Please make sure the sensor position where media gap/black mark will pass through for sensing. Sensor(gap & notch sensor, black mark sensor) can be moved by the sensor lever.

Check the sensor position with LED color.



Black Mark Sensor (Green LED)

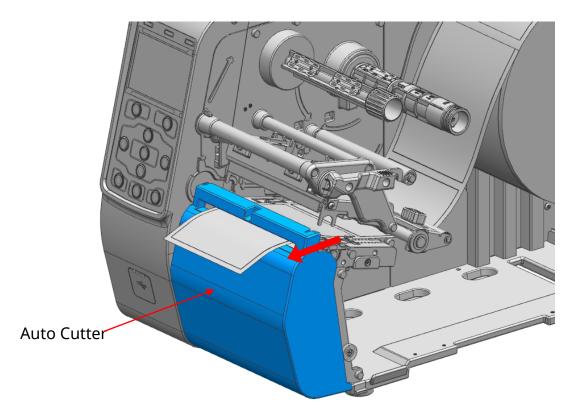
6) Close the print head lever and media cover.

- When opening or closing the cover, be careful not to pinch your fingers.
- Do not open the printer 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.
- While the printer is operating, the printer head gets very hot, so turn off the power and let it cool down completely. The hot printer head can cause serious burns.

3-4-2 Media Installation Method of Auto Cutter (optional) Model

Use the autocutter to cut the printed media. For Auto Cutter Model, install media in the following ways:

- 1) Refer to '3-4-1 Media Installation Method of Standard Model' to install media, adjust media guide and sensor position.
- 2) Install the media through the auto cutter as shown in the figure.



3) Close the print head lever and media cover.

- 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.

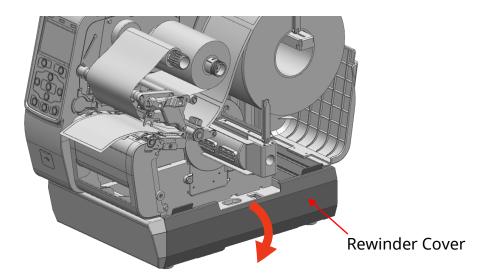


- Never insert objects or fingers while performing the cutting function. This can cause serious bodily injury.
- Be careful not to touch the cutter blade with your hand. There may be a risk of personal injury.
- While the printer is operating, the printer head gets very hot, so turn off the power and let it cool down completely. The hot printer head can cause serious burns.

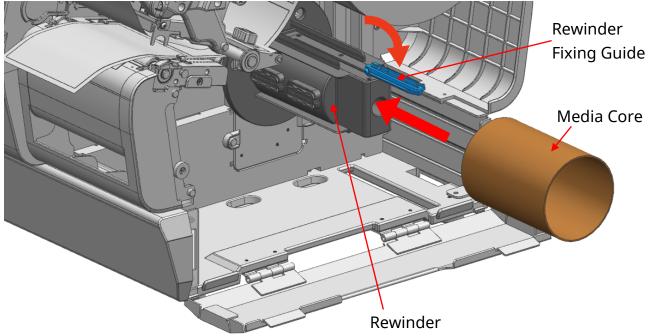
3-4-3 Media Installation Method of Rewinder(optional) Model

Use the rewinder to automatically rewind the printed media. When shipped from the factory, the rewinder is attached. For Rewinder Model, install media in the following ways:

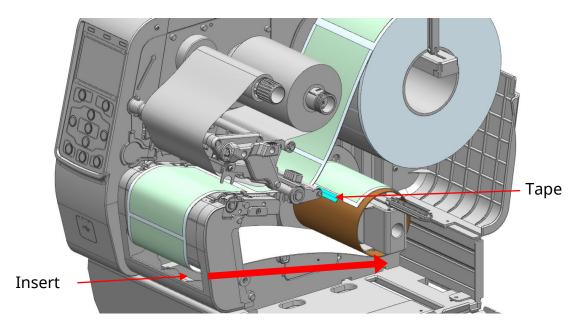
- 3-4-3-1 Media Installation Method Using Media Core.
- 1) Refer to '3-4-1 Media Installation Method of Standard Model' to install media, adjust media guide and sensor position.
- 2) Open the rewinder cover.



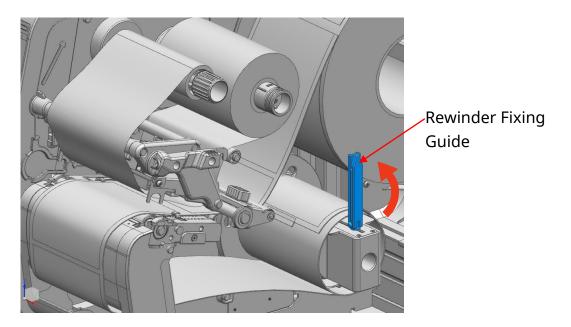
3) After flip down the rewinder fixing guide, install a 3inch media core on the rewinder holder.



4) After installing the media in the same way as the picture, attach the media to the media core using tape.



5) After flip up the rewinder fixing guide, push it close to the media.



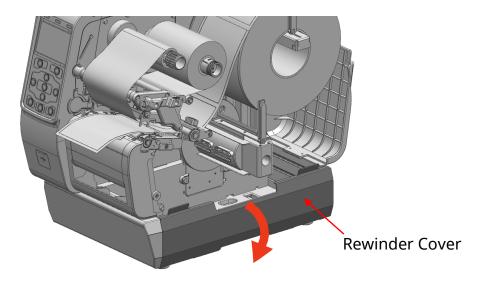
6) Close the print head lever, the rewinder cover, and the media cover.

- 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.

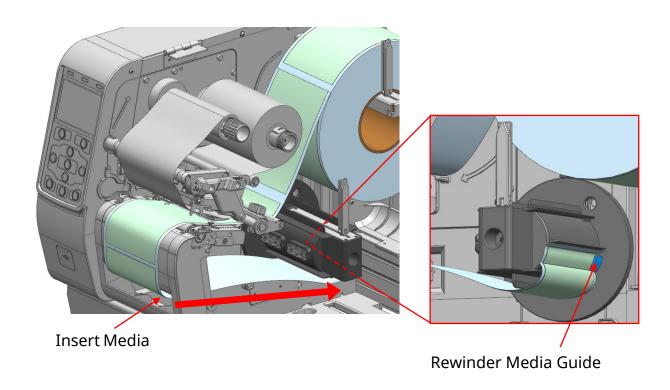


- Change the media when the printer is not receiving data, or data may be lost.
- While the printer is operating, the print head gets very hot, so turn off the power and let it cool down completely.
- The hot print head can cause serious burns.

- 3-4-3-2 Media Installation(Removal) Method Not Using Media Core
- Media Installation Method
- 1) Refer to '3-4-1 Media Installation Method of Standard Model' to install media, adjust media guide and sensor position.
- 2) Open the rewinder cover.

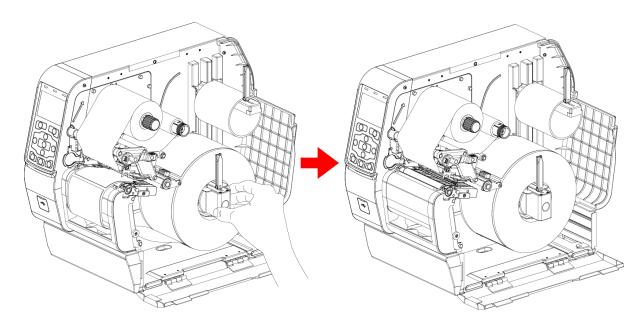


3) After installing the media in the same way as the picture, fix the media at rewinder media guide.

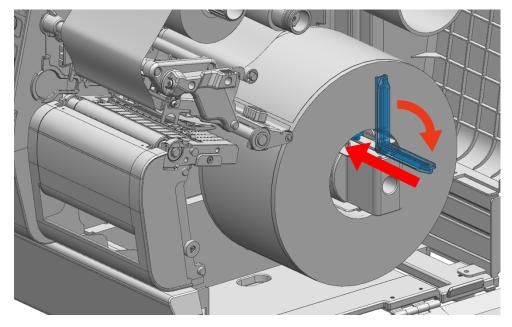


- Rewinder Fixing Guide
- 4) Adjust the rewinder fixing guides to the media width.

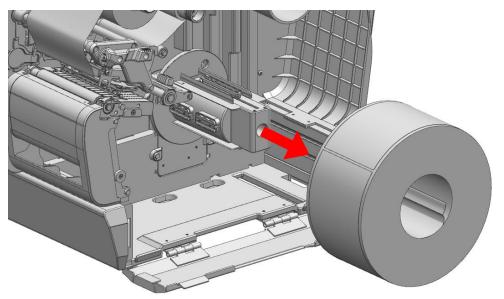
- 5) Close the print head lever, the rewinder cover, and the media cover.
- Media Removal Method
- 1) Open the media cover, the rewinder cover and the print head lever.
- 2) Rotate the rewinder media holder counter-clockwise to collect the media.



3) After flip down the rewinder fixing guide, push it inside.



4) Remove the media.

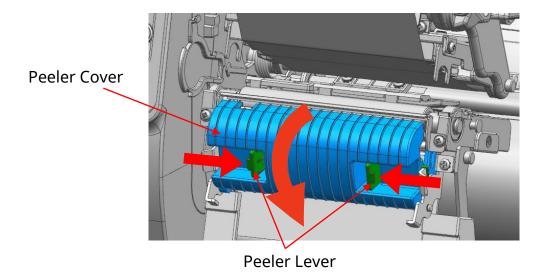


When removing the media, please work to avoid damaging the surrounding parts.
 When opening or closing the cover, be careful not to pinch your fingers.
 Do not open the print head levers while the printer is printing. The printer may be damaged.
 Change the media when the printer is not receiving data, or data may be lost.
 While the printer is operating, the print head gets very hot, so turn off the power and let it cool down completely. The hot print head can cause serious burns.

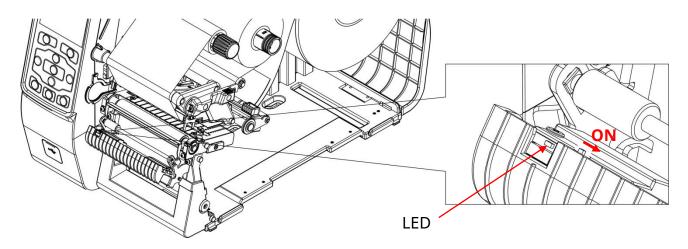
3-4-4 Media Installation Method of Peeler (optional) Model

Use a peeler to automatically separate the printed media from the liner. When shipped from the factory, the peeler is attached. For Peeler Model, install media in the following ways:

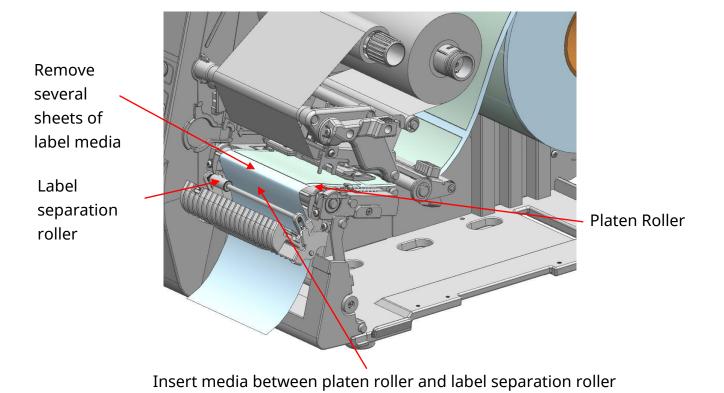
- 1) Refer to '3-4-1 Media Installation Method of Standard Model' to install media, adjust media guide and sensor position.
- 2) Press the left and right peeler levers to open the peeler cover.



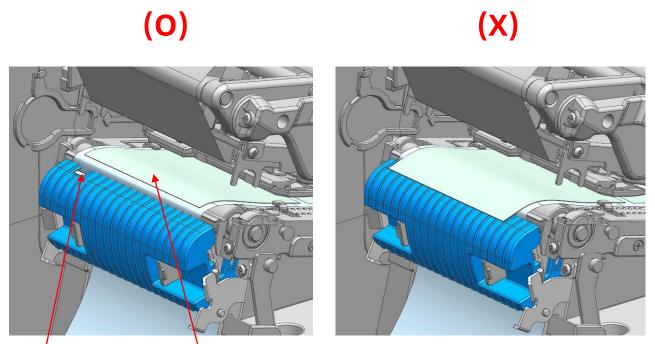
3) Move the peeler switch to ON. Please make sure that the LED has turned on.



4) Remove several sheets of label media and insert liner as in the picture.



5) Close the peeler cover until it clicks.



Peeler Sensor Be careful that the media does not cover the peeler sensor

- 6) Close the print head lever, the rewinder cover, and the media cover.
 - 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 peeler function is only available for label 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.
- While the printer is operating, the print head gets very hot, so turn off the power and let it cool down completely.

The hot print head can cause serious burns.

3-4-5 Media Installation Method of Peeler + Rewinder(optional) Model

Use the 'peeler + rewinder' to automatically separate the printed media from the liner and rewind the printed media.

When shipped from the factory, the peeler is attached.

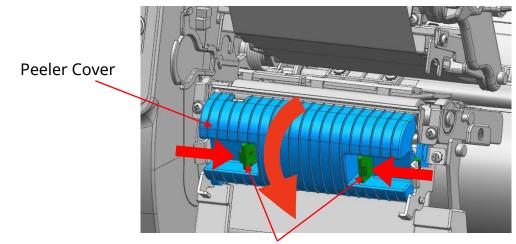
For 'Peeler + Rewinder Model', install media in the following ways:

3-4-5-1 Media Installation Method - Using Media Core.

- 1) Refer to '3-4-1 Media Installation Method of Standard Model' to install media, adjust media guide and sensor position.
- 2) Open the rewinder cover.

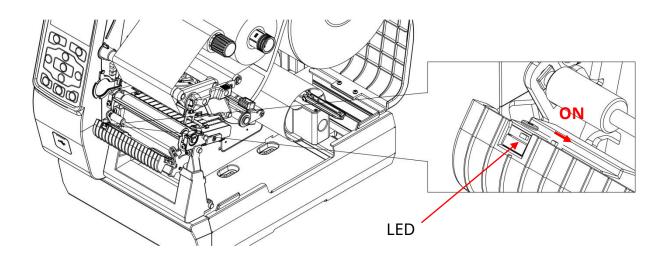
After flip down the rewinder fixing guide, install a 3inch media core in the rewinder holder. (Please refer to 3-4-3 Media Installation Method of Rewinder Model)

3) Press the left and right peeler levers to open the peeler cover.

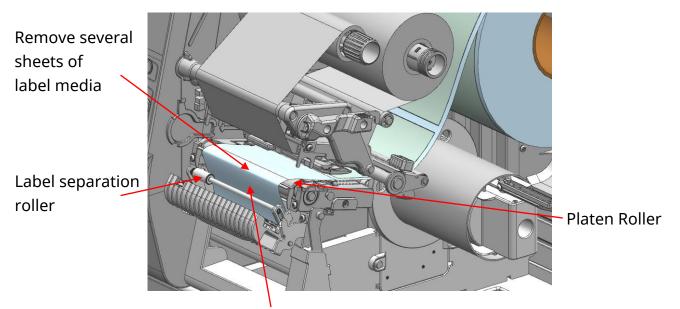


Peeler Lever

4) Move the peeler switch to ON. Please make sure that the LED has turned on.

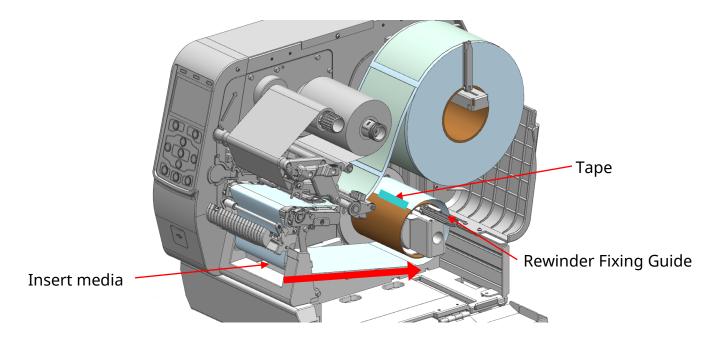


5) Remove several sheets of label media and insert liner as in the picture.



Insert media between platen roller and label separation roller

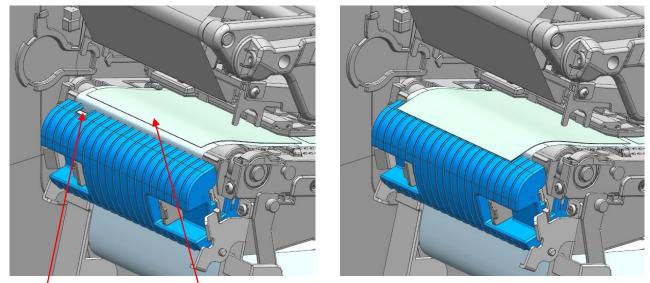
6) After installing the media in the same way as the picture, attach the media to the media core using tape.



- 7) Raise the rewinder fixing guide, and then push it close to the media.
- 8) Close the peeler cover until it clicks.

(0)





Peeler Sensor Be careful that the media does not cover the peeler sensor

9) Close the print head lever, the rewinder cover, and the media cover.

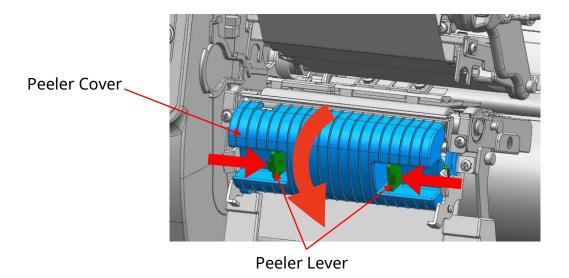
3-4-5-2 Media Installation(Removal) Method - Not Using Media Core.

Media Installation Method

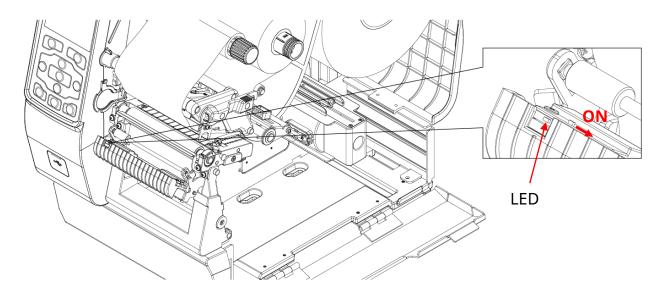
- 1) Refer to '3-4-1 Media Installation Method of Standard Model' to install media, adjust media guide and sensor position.
- 2) Open the rewinder cover.

After flip down the rewinder fixing guide, push it inside. (Please refer to 3-4-3 Media Installation Method of Rewinder Model)

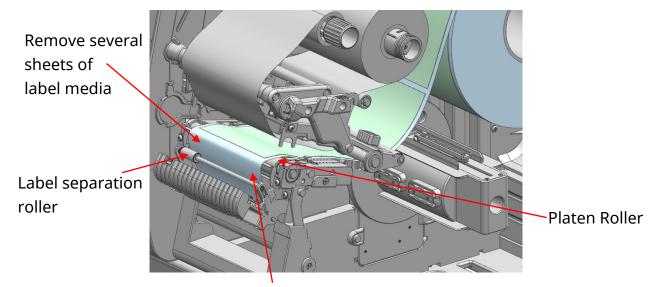
3) Press the left and right peeler levers to open the peeler cover.



4) Move the peeler switch to ON. Please make sure that the LED has turned on.

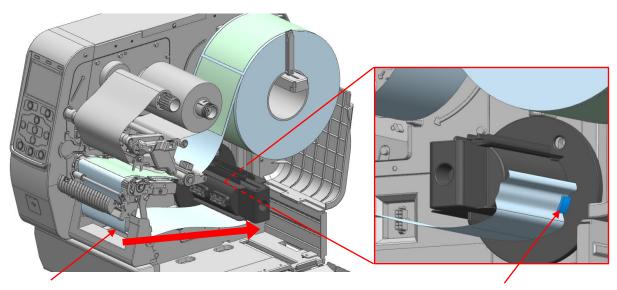


5) Remove several sheets of label media and insert liner as in the picture.



Insert media between platen roller and label separation roller

6) After installing the media in the same way as the picture, fix the media on rewinder media guide.

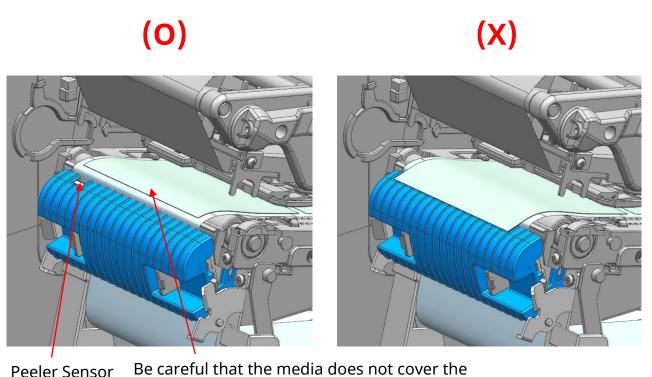


Insert

Rewinder Media Guide

- Rewinder Fixing guide
- 7) Adjust the rewinder fixing guides to the media width.

8) Close the peeler cover until it clicks.



Peeler Sensor Be careful that the media does not cover the peeler sensor

9) Close the print head lever, the rewinder cover, and the media cover.

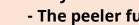
•Media Removal Method

- 1) Open the peeler cover, the media cover, the rewinder cover and the print head lever.
- 2) Please refer to Media Removal Method of 'Media Installation(Removal) Method
 - Not Using Media Core'.



When removing the media, please work to avoid damaging the surrounding parts.

- 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.

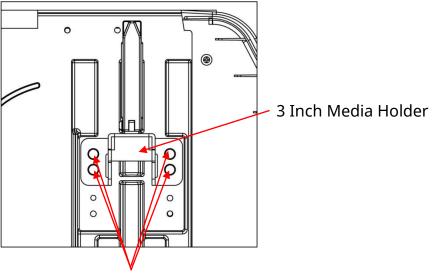


- The peeler function is only available for label media.
- When the peeler is switched on, the next label will not be printed unless the printed label is removed from the peeler.
- When the peeler is switched off, the peeler does not work.
- While the printer is operating, the printer head gets very hot, so turn off the power and let it cool down completely.
- The hot printer head can cause serious burns.

3-4-6 Media Installation method for 1inch Media Core (optional) Model

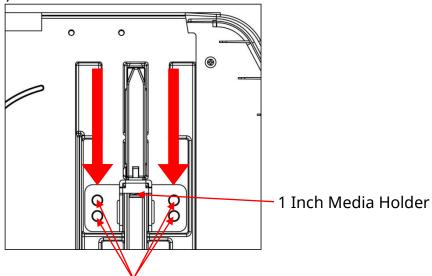
For 1inch Media Core Model, install media in the following ways:

1) Remove the current 3 inch media holder fixture from the printer using a hexagonal screwdriver (3mm).



Unscrew 4 hexagon wrench bolts

2) Assemble 1 inch media holder fixture(sold separately) with printer using a hexagonal driver (3mm).



Screw 4 hexagon wrench bolts

3) Install the media in the same manner as the 3 inch core paper model.



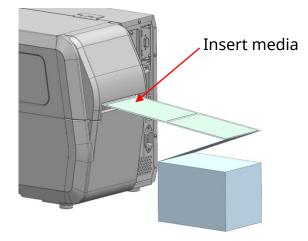
1 inch media holder fixture can be purchased separately. Please contact the place of purchase.

Be sure to turn off the printer before replacing the media holder. The printer may be damaged.

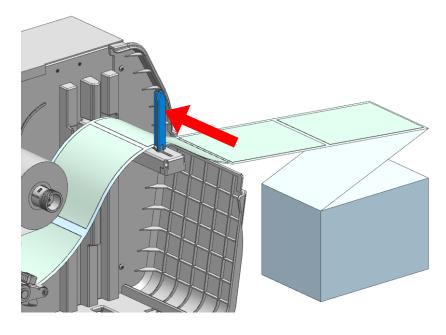
3-4-7 How To Install Media Externally

Install media from outside the printer as follows.

1) Insert the media through the rear access slot of the printer.



2) Adjust the media fixing guide to the media width.



- 3) Close the print head lever and media cover.
 - 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.

3-5 How to Use Media Damper (Standard Model)

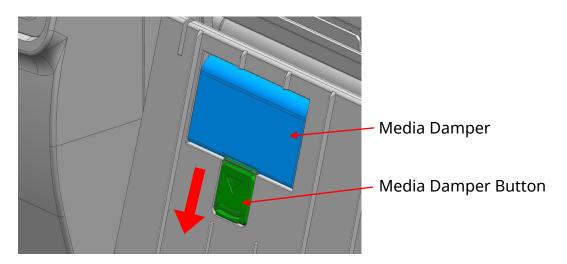
• You can use the media damper to avoid the issue shown in the following images.



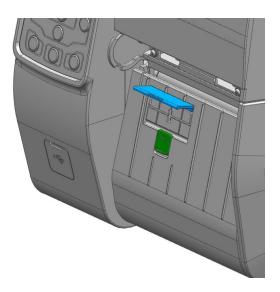
label stuck to the ribbon guide

folded label end when printing

1) Push the media damper button down to lift the media damper.



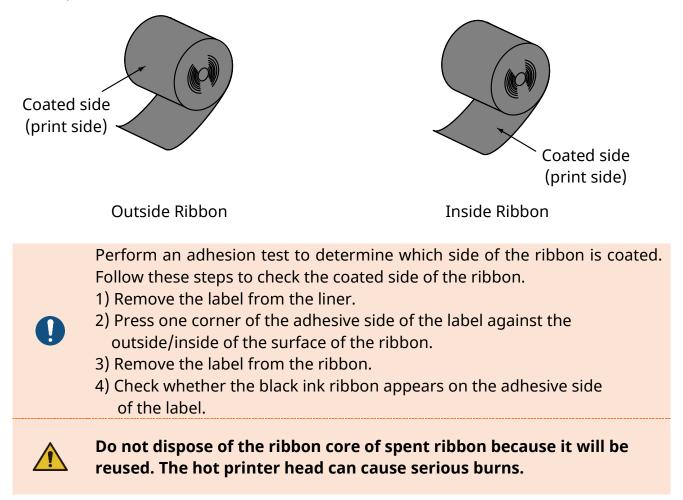
2) Use the printer with the media damper up as in the picture. (Please refer to 3-4-1 Media Installation Method of Standard Model)



3-6 Ribbon Installation

3-6-1 Ribbon Type

- 1) Type by film coating position
 - This printer can be used with both Outside and Inside Ribbon.

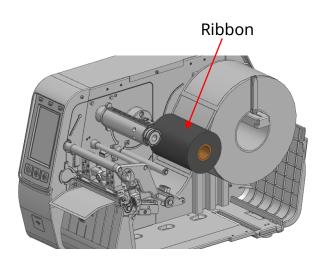


- 2) Type by Ribbon core
 - This printer can be used only with the ribbon of 1 inch ribbon core.

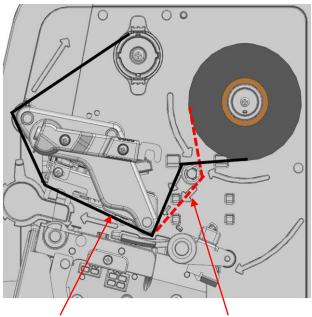
3-6-2 Ribbon Installation Method

Install ribbon as follows.

1) Insert the ribbon into the ribbon supply spindle.



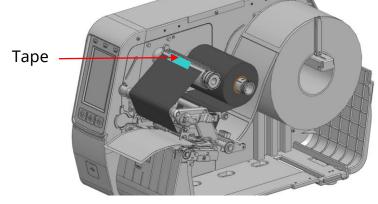
2) Open the print head lever and install the ribbon as shown below.



Outside Ribbon

Inside Ribbon

3) Attach the ribbon to the ribbon take-up spindle using tape.



4) Close the print head lever and the media cover.

- When opening or closing the cover, be careful not to pinch your fingers.

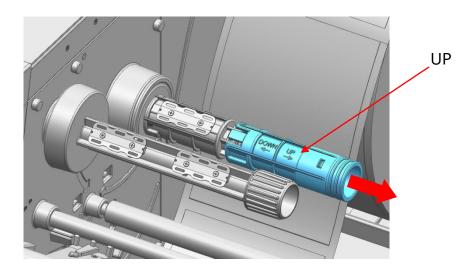
- Do not open the print head levers while the printer is printing. The printer may be damaged.
- Change the media when the printer is not receiving data, or data may be lost.
- While the printer is operating, the printer head gets very hot, so turn off the power and let it cool down completely.

The hot printer head can cause serious burns.

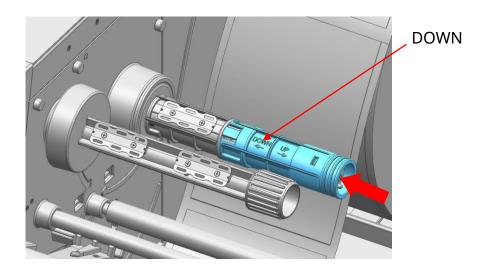
<u>3-6-3 Load Adjustment by Ribbon Length</u>

The printer can use all 1 to 4 inch wide ribbons and is set to 4 inch wide ribbons when shipped from the factory. Adjust the ribbon supply spindle load according to the ribbon width.

1) When using ribbon of 3 inch or 4 inch width, pull in the direction of UP marked on the ribbon supply spindle until it clicks.



2) When using ribbon of 1 inch or 2 inch width, push in the direction of DOWN marked on the ribbon supply spindle until it clicks.



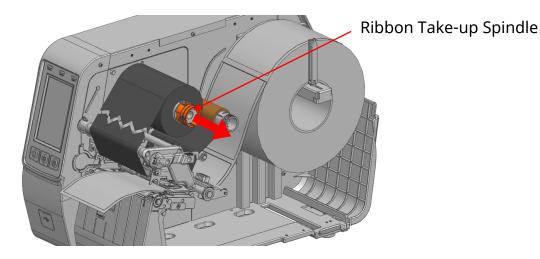


Do not adjust the ribbon supply spindle load while the printer is printing. The printer may be damaged.

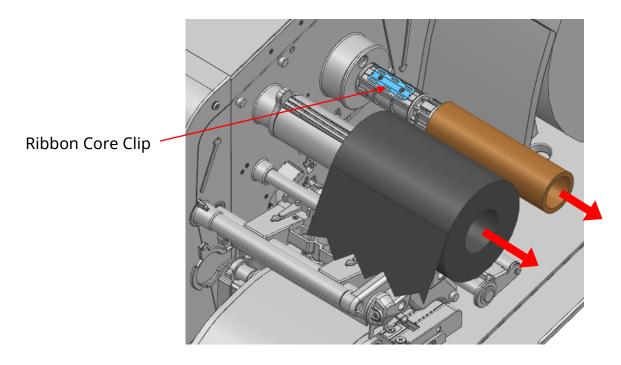
3-6-4 Ribbon Remove Method

Remove the ribbons as follows.

- 1) Open the print head lever.
- 2) Cut the Ribbon and pull the Ribbon Take-up spindle.



3) Remove the ribbon and ribbon core to outside.



- Don't remove the ribbon and ribbon core while the printer is printing. The printer may be damaged.

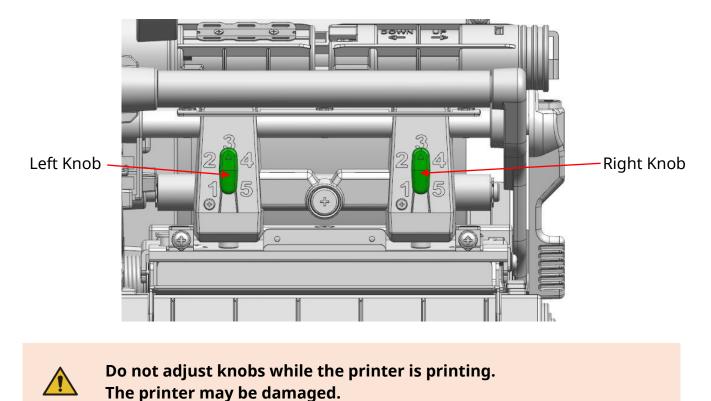
- When removing ribbon and ribbon core, be careful of the sharp end of the ribbon core clip. This can cause serious bodily injury.

3-7 Print Head Load Control Method

• Adjust the print head load by turning the left and right knobs depending on the media width and thickness. The left and right knobs are set to level 3 when shipped from the factory. Adjusting the print head load can improve the print quality.

X Turning the knob toward the level 1 (counterclockwise) direction reduces the print head load and the print density.

Turning the knob toward level 5 (clockwise) increases the print head load and the print density.

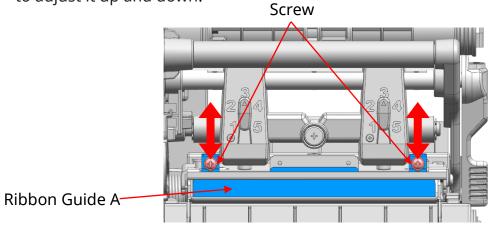


3-8 Ribbon Guide Control Method

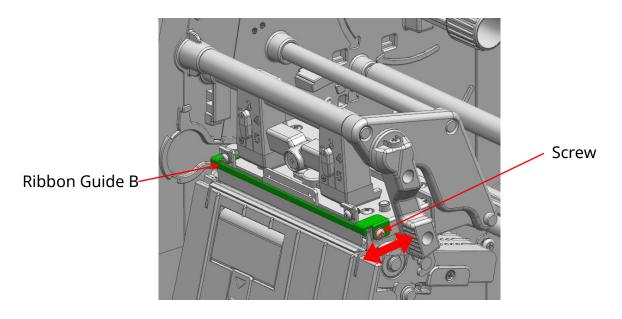
• Wrinkles can be improved by adjusting A and B on the ribbon guides.

1) How to adjust ribbon guide A

- Slightly loosen the screw fastened to the ribbon guide A using a cross-tip screwdriver to adjust it up and down.



- 2) How to adjust ribbon guide B
 - Slightly loosen the screw fastened to the ribbon guide B using a cross-tip screwdriver to adjust it forward and backward.

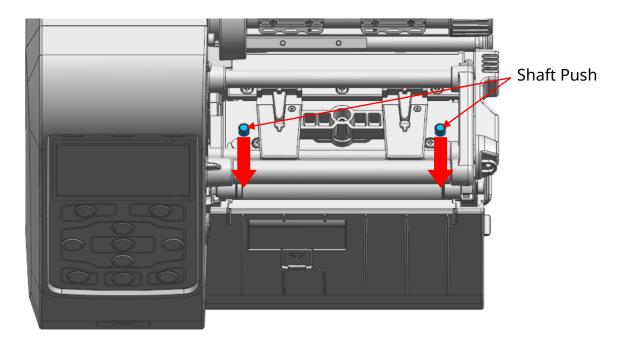




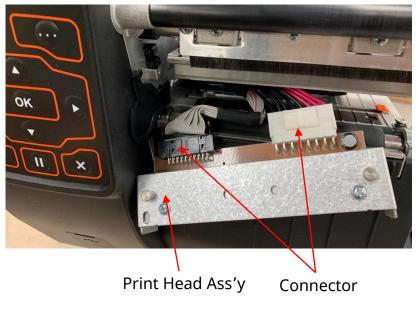
Do not adjust ribbon guide while the printer is printing. The printer may be damaged.

3-9 How to Fine Tune Print Head Position

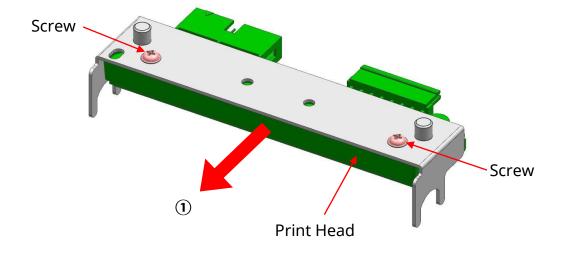
- When using special paper, you can fine tune the print head position. There is no need to do this when using standard paper.
 By fine tuning the print head position, you can improve the printing quality.
- 1) Turn off the printer.
- 2) Unplug the power cord from the printer.
- 3) Open the print head lever. Push the shaft down to remove the print head bundle which is attached by magnetism.



4) Remove the connector connected to the print head bundle.



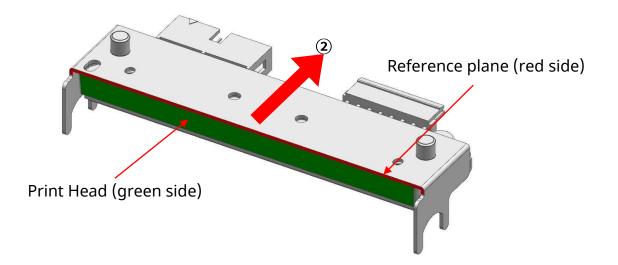
5) After loosening the screws using a cross-tip screwdriver, adjust the print head position.



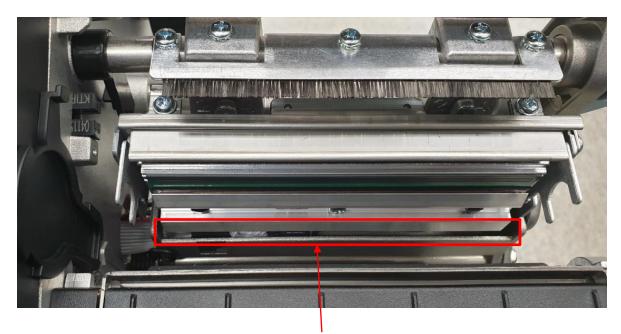
% Move the print head in direction 1 if you are using thick paper (0.26~0.3mm).

* The factory default position of the print head (green side) is 0.6mm from the red

guide in direction ②.



6) After fine tuning the position, re-assemble in reverse order of disassembly.



Be careful not to let the wires come out.

- Do not adjust the print head position while the printer is in operation as it may cause damage.
- Fine tuning the print head position significantly affects the printing quality. Perform this process only when necessary.

4. Printer Setting

4-1 Menu Composition(Standard Model)

		Explanation	
	Print Width		
	Print Length		
	Print Direction		
	Print Speed		
	Print Density		
	Print Method		
	Media Type		
	Tear Off		
	Print Offset		
Setting	Left Position		
	Print Mode		
	Power Up Action		
	Print Head Close		
		GPIO Port Mode	
		Start Print Mode	
	GPIO	Error on Pause	
		Reprint	
		Voltage Info.	

	Explanation		
		Baud Rate	
		Data Bits	
	Serial	Parity	
		Stop Bit	
		Host Handshake	
Interface		IP Protocol	
		IP Address	
	Ethernet	Subnet Mask	
		Gateway	
		MAC Address	

		1		
		Channel		
		Network		
		ESSID (APID)		
		Auth (Authentication)		
		Encrypt (Encryption)		
		WEP Passwore	d	
	WLAN	PSK Password	l	
	VVLAIN	IP Protocol		
		IP Address		
		Subnet Mask		
		Gateway		
		SWC	Execute SWC	
		(Simple Wi-	Dript App LIDI	
		Fi Connect)	Print App URL	
		Device Name		
		Pairing	Pincode	
			SSP(Secure Simple Pairing)	
		MAC Address		
	Bluetooth		Bluetooth Low Energy	
			Standard Mode	Connect Mode
		Mode		Auth&Enc
				(Authentication
				& Encryption)
	Interface Info			

	Explanation	
	Gap Calibration	
Sensor	Black Mark Calibration	
Serisor	Sensor Sensitivity	

	Explanation		
		Template	
		Image	
	Saved File	Download Font	
	Saved File	E Drive (Flash Memory)	
		A Drive (USB Memory)	
Files		B Drive (SD Card Memory)	
Tiles		Printer Setting	
	Twin Eurotian	Template	
	Twin Function	Image	
		Download Font	
	Firmware Update		

		Explanation	
	Self Test		
	Factory Reset		
	Dump Mode		
	Print Head Check		
	LCD	Dead Pixel Test	
	LCD	Backlight Brightness	
		Date Setting	
Ϋ́́	Real Time Clock	Time Setting	
o ∎ Tools		Date Format	
10013		Time Format	
	Language Setting		
	Emulation		
	USB Serial Number		
	Buzzer Setting		
	Cocurity	Password Enable	
	Security	Password Setting	
	Demo Print		

	Explanation		
	Printer Info		
		Media Installation	
		Media Installation (Peel Off)	
		Media Installation (Rewinder)	
•	Installation & Usage	Ribbon Installation	
Ĭ		Peel off Installation	
Info		Auto Cutter Installation	
		Replace Media	
		Replace Ribbon	
		Replace Print Head	
	Troubleshooting		
	Contact US		

4-2 Menu Composition(Touch Screen Model)

		Explanation	
	Print Width		
	Print Length		
	Print Direction		
	Print Speed		
	Print Density		
	Print Method		
	Media Type		
~~~	Tear Off		
रिंग्रे	Print Offset		
SETTING	Left Position		
	Print Mode		
	Power Up Action		
	Print Head Close		
		GPIO Port Mode	
		Start Print Mode	
	GPIO	Error on Pause	
		Reprint	
		Voltage Info.	

		Explanation
		Baud Rate
		Data Bits
	Serial	Parity
		Stop Bit
		Host Handshake
		IP Protocol
		IP Address
	Ethernet	Subnet Mask
<b>.</b>		Gateway
INTERFACE		MAC Address
		Channel
		Network
		ESSID (APID)
	WLAN	Auth (Authentication)
	VVLAIN	Encrypt (Encryption)
		WEP Password
		PSK Password
		IP Protocol

		IP Address		
		Subnet Mask		
		Gateway		
		SWC	Execute SWC	
		(Simple Wi- Fi Connect)	Print App URL	
		Device Name		
		Pairing –	Pincode	
			SSP(Secure Simple Pairing)	
		MAC Address		
	Bluetooth	Mode	Bluetooth Low En	ergy
			Standard Mode	Connect Mode
				Auth&Enc
				(Authentication & Encryption)
	Interface Info	•	·	

	Explanation
	Gap Calibration
	Black Mark Calibration
SENSOR	Sensor Sensitivity

	Explanation		
		Template	
		Image	
	Saved File	Download Font	
	Saved File	E Drive (Flash Memory)	
(E)		A Drive (USB Memory)	
		TemplateImageDownload FontE Drive (Flash Memory)A Drive (USB Memory)B Drive (SD Card Memory)Printer SettingTemplateImageDownload Font	
FILE		Printer Setting	
	Twin Function	Template	
	Twin Function	Image	
		Download Font	
	Firmware Update		

	Explanation				
	Self Test				
	Factory Reset				
	Dump Mode				
	Print Head Check				
	LCD	Dead Pixel Test			
		Touch Position Test			
		Backlight Brightness			
× +	Real Time Clock	Date Setting			
11		Time Setting Date Format			
TOOL					
		Time Format			
	Language Setting				
	Emulation				
	USB Serial Number				
	Buzzer Setting				
	Security	Password Enable			
		Password Setting			
	Demo Print				

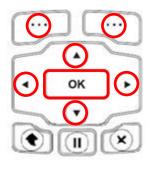
	Explanation				
	Printer Info				
	Installation & Usage	Media Installation			
		Media Installation (Peel Off)			
INFO		Media Installation (Rewinder)			
		Ribbon Installation			
		Peel off Installation Auto Cutter Installation			
				Replace Media	
		Replace Ribbon			
		Replace Print Head			
		Troubleshooting			
	Contact US				

### 4-3 Menu Select Method(Standard Model)

1) This is print ready status LCD output screen.



2) Press function button, direction button or OK button.



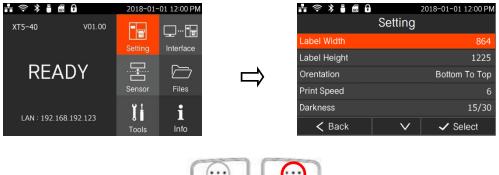
3) The setting menu is selected.



4) Use direction buttons to move to the desired menu.



5) Press OK or the right function button to enter the sub menu.





6) If there are no input for 5 seconds, it returns to main screen



### 4-4 Setting Confirm Method(Standard Model)

- 1) How to use the up and down buttons
  - (1) Select the desired setting value using  $\frown$  or  $\bigcirc$  button
  - (2) After selecting the setting value, save it with  $\square$  button
  - (3) If you want to exit the menu without setting, press button to move to the previous screen





### 2) How to input numbers

- (1) Select the desired input value using ,,,,,,, button
- (2) Enter the desired value using or button
- (3) With Space, you can delete the input value
- (4) With **Solution**, you can move the cursor
- (5) After entering set value, save it using 💭 button
- (6) If you want to exit the menu without setting, press button to move to the previous screen



<b>⊹                                    </b>	SD T	2018-0	1-01 12	:00 PM			
Lebel Height							
	Range : 0 ~ 32000						
01234							
1	2	3	$\langle X \rangle$	Back space			
4	5	6	<	>			
7	8	9	123	@			
	0	±	AE	3C			
< E	Back	✓ Select					

- 3) How to input characters
  - (1) Select the desired input value using ,,,,,,,, button
  - (2) Enter the desired value using or button
  - (3) With Space , you can delete the input value
  - (4) With **Solution**, you can move the cursor
  - (5) With ¹²³, you can move to the numeric input screen
  - (6) With _____, you can move to the symbol input screen
  - (7) With abc , you can move to lower case input screen
  - (8) After entering set value, save it using 💭 button
  - (9) If you want to exit the menu without setting, press button to move to the previous screen



Å	((i•	∦ ≞	sD.	f			20	18-0	1-01 12	:00 PM
	Device Name									
	Range : MAX 20									
	BLUETOOTH PRINTER									
А	В	С	D	Е	F	G	Н		$\otimes$	Back space
J	Κ	L	М	Ν	0	Ρ	Q	R	<	>
S	Т	U	V	W	Х		Ζ		123	@
	SPACE					abc				
	< Back				✓ Select					

#### 4-5 Menu Select Method (Touch Screen Model)

1) This is print ready status



3) Press screen to enter the sub menu.





4) If there are no input for 5 seconds, it returns to main screen .

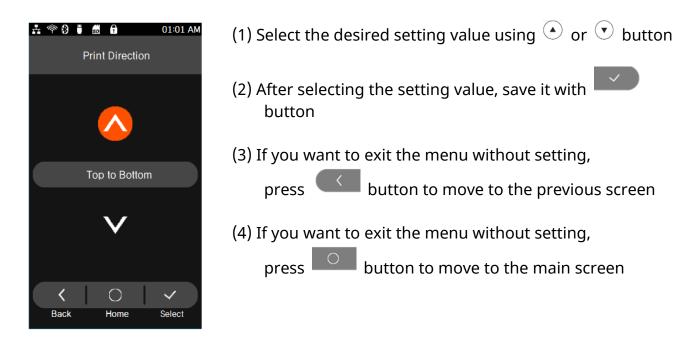


### 2) Press the setting menu.



### 4-6 Setting Confirm Method(Touch Screen Model)

1) How to use the up and down buttons



2) How to input numbers

i 🕆 🖗 🕄 🖡	SD T	01:01 AM	(1) Select the desired setting value using number keypad.				
Print Length Range : 0 ~ 32000			(2) With , you can delete the input value.				
1	2	3	(3) With DEL, you can delete the all input value.				
4	5	6	(4) After selecting the setting value, save it with				
7	8	9	button				
DEL	0	X	(5) If you want to exit the menu without setting,				
K Back	Home	Select	press 💙 button to move to the previous screen				
(6) If you want to exit the menu without setting,							
			press button to move to the main screen				

3) How to input characters(English only)

🚠 😤 🖗 💼 🔒 🕺 01:01 AM	(1) Select the desired setting value using keypad.
Device Name	
	(2) With, you can delete the input value.
1 2 3 4 5 6 7 8 9 0	(3) With 🚺, you can input the capital lettere.
q w e r t y u i o p	(4) After selecting the setting value, save it with
a s d f g h j k l	button
★         w         e         r         t         y         u         i         ▲X           !#1         _         _         _         _         _         _         _         _	(5) If you want to exit the menu without setting,
Back Home Select	press 🔍 button to move to the previous screen
	(6) If you want to exit the menu without setting,
	press button to move to the main screen

#### 4) How to input IP address

击 💎 θ 🖡 💼 🔒 🚹 🛛 01:01 AM				
	IP Address			
192.168.1.1.				
1	2	3		
4	5	6		
7	8 9			
	. 0 <			
<	0	~		
Back	Home	Select		

- (1) Select the desired IP Address using number keypad.
- (2) With , you can delete the input value.
- (3) With , you can input the Dot(.)
- * from 0 to 99, press Dot(.) to move next
- * from 100 to 255, Dot(.) would be automatically generated.
- (4) After selecting the setting value, save it with button
- (5) If you want to exit the menu without setting,
  - button to move to the previous screen
- (6) If you want to exit the menu without setting,

press

press button to move to the main screen

## 4-7 Setting Menu Explanation(Standard, Touch Screen Model)

### <u>4-7-1 Setting</u>

List	Explanation	
Print Width	Explanation Setting media width[dots] Function to adjust image buffer size according to print width Default Value 203dpi: 832dots 300dpi: 1,248dots 600dpi: 2,496dots	
	Maximum Value 203dpi: 832dots 300dpi: 1,248dots 600dpi: 2,496dots	
Print Length	Explanation Setting media length[dots] Function to adjust image buffer size according to print length Default Value 203dpi: 1,225dot (153mm) 300dpi: 1,811dot (150mm) 600dpi: 3,622dot (150mm)	
	<b>Maximum Value</b> 203dpi: 32,000dot (4,000mm) 300dpi: 30,000dot (2,500mm) 600dpi: 24,000dot (1,000mm)	

	<ul> <li>Explanation Setting printing direction Top to bottom: Printing from top to bottom Bottom to Top: Printing from bottom to top </li> <li>Default Value Bottom to Top Variable Value Bottom to Top, Top to Bottom</li></ul>	
Print Direction	Printing Direction	
	Top to bottom Bottom to top	
Print Speed	Explanation         Setting print speed[ips]         Default Value         203dpi: 6ips         300dpi: 6ips         600dpi: 3ips         Variable Value         203dpi: 2 ~ 14ips         300dpi: 2 ~ 10ips         600dpi: 1 ~ 5ips	
Print Density	600dpi: 1 ~ 5ips Explanation Setting print density Default Value 203dpi: 15 300dpi: 15 600dpi: 15 Variable Value 0 ~ 30	

	Explanation
	Setting print method
	Default Value
Print Method	Transfer
	Variable Value
	Transfer, Direct
	Explanation
	Setting media type
<b>.</b> _	Default Value
Media Type	Gap
	Sup
	Variable Value
	Gap, Black Mark, Continuous
	Explanation
	Setting media position[dots] for tear off after printing or feed
	Default Value
Tear Off	0
	0
	Variable Value
	-100 ~ 100
	Explanation
	Setting top print position[dots]
	Default Value
Print Offset	0
	U U
	Variable Value
	-100 ~ 100
	Explanation
	Setting left print position[2dots]
	Default Value
Left Position	0
	0
	Variable Value
	-300 ~ 300
	Explanation
	Setting print mode suitable to the printer option
Print Mode	
	Default Value

	Tear Off		
	Variable Value		
	Tear Off, Auto Cutter, Rewinder		
	Explanation		
	Setting the action for the printer after the power-up sequence.		
Power Un Action	Default Value		
Power Up Action	No Feed		
	Variable Value		
	No Feed, Set Label Length, Media Calibration, Feed		
	Explanation		
	Setting the action for the printer when you close the print head		
	Default Value		
Print Head Close	Feed		
	Variable Value		
	Feed, Standby Mode, No Feed, Set Label Length, Media Calibration		

#### <u>4-7-2 GPIO</u>

List	Explanation	
GPIO Port Mode	Explanation Set the "END PRINT" signal for the GPIO port. Default Value Off Variable Value Off: GPIO disabled (printing without the start signal) 1: In general, the end print signal is HIGH and becomes LOW when printing/feeding. 2: In general, the end print signal is LOW and becomes HIGH when printing/feeding. 3: In general, the end print signal is HIGH and becomes LOW for 40ms after printing. 4: In general, the end print signal is LOW and becomes HIGH for 40ms after printing.	
	^gt	

## 4-8 Interface Menu Explanation(Standard, Touch Screen Model)

#### <u>4-8-1 Serial</u>

List	Explanation
<b>Explanation</b> Setting the baud rate	
Baud Rate	<b>Default Value</b> 115200
	<b>Variable Value</b> 9600,19200,38400,57600,115200
	Explanation
	Setting the data bit
<b>D</b> ( <b>D</b> )	Default Value
Data Bits	8
	Variable Value
	7, 8
	Explanation
	Setting the parity
Davita	Default Value
Parity	None
	Variable Value
	None, Odd, Even
	Explanation
	Setting the stop bit
Stop Bit	Default Value
Stop Bit	1
	Variable Value
	1, 2
	Explanation
	Setting the handshake
Host Handshake	Default Value
	RTS_CTS
	Variable Value
	RTS_CTS, DTR_DSR, XON_XOFF

#### <u>4-8-2 Ethernet</u>

List	Explanation		
	Explanation		
	Setting IP assignment method		
IP Protocol	Default Value		
	DHCP		
	Variable Value		
	DHCP, Static IP		
	Explanation		
	Setting IP Address method		
	Default Value		
IP Address	Static IP: 192.168.192.123		
	DHCP: 0.0.0.0		
	Variable Value		
	0 ~ 255		
	Explanation		
	Setting subnet mask		
	Default Value		
Subnet Mask	Static IP: 255.255.0		
	DHCP: 0.0.0.0		
	Variable Value		
	0 ~ 255		
	Explanation		
	Setting gateway		
<b>a</b> .	Default Value		
Gateway	Static IP: 192.168.192.254		
	DHCP: 0.0.0.0		
	Variable Value		
	0~255		
MAC Address	Explanation		
	Indicating MAC address		

#### <u>4-8-3 WLAN</u>

List	Explanation		
	Explanation		
	Setting channel when creating Adhoc network		
	Default Value		
Channel	6		
	0		
	Variable Value		
	1 ~ 14		
	Explanation		
	Setting WLAN operation mode		
	Default Malue		
Network	<b>Default Value</b> Soft AP		
	SOLA		
	Variable Value		
	Soft AP, Infrastructure, Adhoc, P2P		
	Explanation		
	Setting the ID of AP to be accessed		
ESSID			
	<b>Default Value</b> PRINTER_xxxxxx(product specific value)		
	Explanation		
	Setting WLAN authentication method		
	Default Value		
Auth	Open System		
	Variable Value		
	Open System, Shared Key, WPA1PSK, WPA2PSK, WPA1EAP,		
	WPA2EAP		
	Explanation		
	Setting WLAN encryption method		
Encrypt	Default Value		
- 71	None		
	Variable Value		
	None, WEP64/128, TKIP, AES, AES+TKIP		
MED Decoverd	Explanation		
WEP Password	Setting WEP password		

PSK Password       Explanation Setting PSK password         Explanation Setting IP assignment method         Default Value DHCP       Default Value DHCP         Variable Value Static IP, DHCP         Setting IP address         Default Value Static IP: 192.168.1.1 DHCP: 0.0.0         Variable Value Static IP: 192.168.1.1 DHCP: 0.0.0         Variable Value 0 ~ 255         Subnet Mask         Default Value Static IP: 255.255.255.0 DHCP: 0.0.0         Subnet Mask         Default Value 0 ~ 255         Subnet Mask         Default Value Static IP: 255.255.255.0 DHCP: 0.0.0         Subnet Mask         Default Value 0 ~ 255         Subnet Mask         Default Value Static IP: 192.168.1.254 DHCP: 0.0.0         Subnet Mask         Setting gateway         Setting gateway         Setting gateway         Static IP: 192.168.1.254 DHCP: 0.0.0.0         Variable Value 0 ~ 255         Submet Mask         Setting gateway         Setting gateway         Setting Submet Mask         Setting Submet Mask         Setting Gateway         Setting Submet Mask         Setting Submet Mask         Setting Submet Mask         Setting Submet Mask		Explanation	
IP Protocol       Explanation Setting IP assignment method         Default Value DHCP       Variable Value Static IP, DHCP         IP Address       Explanation Setting IP address         Default Value Static IP: 192.168.1.1 DHCP: 0.0.0       Variable Value 0 ~ 255         Variable Value 0 ~ 255       Explanation Setting subnet mask         Default Value 0 ~ 255       Default Value 0 ~ 255         Subnet Mask       Default Value Static IP: 255.255.255.0 DHCP: 0.0.0         Variable Value 0 ~ 255       Variable Value 0 ~ 255         Gateway       Default Value Static IP: 192.168.1.254 DHCP: 0.0.0         Variable Value 0 ~ 255       Explanation Setting gateway         Default Value 0 ~ 255       Explanation Setting gateway         Default Value 0 ~ 255       Explanation Setting gateway         Default Value 0 ~ 255       Explanation Setting gateway	PSK Password	-	
IP Protocol       Default Value DHCP			
IP Protocol       Default Value DHCP         Variable Value Static IP, DHCP         Static IP, DHCP         IP Address         Default Value Static IP: 192.168.1.1 DHCP: 0.0.0.0         Variable Value 0 ~ 255         Explanation Setting subnet mask         Default Value 0 ~ 255         Subnet Mask         Default Value 0 ~ 255         Subnet Mask         Default Value 0 ~ 255         Variable Value 0 ~ 255         Variable Value 0 ~ 255         Variable Value 0 ~ 255         Variable Value 0 ~ 255         DHCP: 0.0.0.0         Variable Value 0 ~ 255         Setting gateway         Oefault Value 0 ~ 255         Variable Value 0 ~ 255         Variable Value 0 ~ 255         Variable Value 0 ~ 255         Static IP: 192.168.1.254 DHCP: 0.0.00         Variable Value 0 ~ 255         Explanation 2 Connecting printers to network environments		-	ament method
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Explanation       Setting subnet mask         Subnet Mask       Default Value         Static IP: 255.255.255.0       DHCP: 0.0.0         Variable Value       Variable Value         0 ~ 255       Variable Value         Setting gateway       Setting gateway         Default Value       Static IP: 192.168.1.254         DHCP: 0.0.0       Variable Value         Variable Value       Static IP: 192.168.1.254         DHCP: 0.0.0       Static IP: 192.168.1.254         DHCP: 0.0.00       Static IP: 192.168.1.254         DHCP: 0.0.01       Static IP: 192.168.1.254         DHCP: 0.020       Static IP: 192.168.1.254		Variable Value	
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Gateway       Static IP: 192.168.1.254 DHCP: 0.0.0         Variable Value 0 ~ 255       Variable Value 0 ~ 255         Execute SWC       Explanation Connecting printers to network environments		Dofault Value	
DHCP: 0.0.0.0 Variable Value 0 ~ 255 Execute SWC Explanation Connecting printers to network environments	Gateway		
Variable Value         0 ~ 255         Execute SWC         Connecting printers to network environments	Galeway		
0 ~ 255 Execute SWC Execute SWC		Direr: 0.0.0.0	
0 ~ 255 Execute SWC Execute SWC		Variable Value	
ExplanationExecute SWCConnecting printers to network environments			
<b>Execute SWC</b> Connecting printers to network environments			Explanation
51	SWC	Execute SWC	-
Brint Ann LIDI Explanation			· · · · · · · · · · · · · · · · · · ·
Print App URL Site linking(QR code) for SWC technical support		Print App UKL	-

#### <u>4-8-4 Bluetooth</u>

List			Explanation	
Device Name		ne	Explanation	
			Name of Device	
	Pin	code	Explanation	
			Changes required pin code to connect	
			Explanation	
			Secures simple pairing	
Dairing	SSP		Default Value	
Pairing			Disable	
	3	3F	Disable	
			Variable Value	
			Disable, Just Works, Numeric Comparison, Passkey	
			Entry	
	MAC Addre		Explanation	
		:22	Bluetooth device MAC address	
	Bluetooth Low Energy		Explanation	
			Bluetooth Low Energy	
			Default Value	
			Disable	
			Variable Value	
			Disable, Enable	
			Explanation	
			Setting Bluetooth connection mode	
		Connect Mode	, , , , , , , , , , , , , , , , , , ,	
			Default Value	
Mode			Mode 2	
			Variable Value	
	Standard		Mode 1, Mode 2, Mode 3	
	Mode		Explanation	
		Auth&Enc	Setting Bluetooth authentication and encryption function	
			Default Value	
			Enable	
			Variable Value	
			Enable, Disable	

#### 4-9 Sensor Menu Explanation(Standard, Touch Screen Model)

List	Explanation
Gap Calibration	Explanation
Gap Calibration	Detect media gap and calibrate automatically
Black Mark	Explanation
Calibration	Detect media black mark and calibrate automatically
	Explanation
	Adjusts the sensitivity of the gap sensor
Sensor Sensitivity	<b>Default Value</b> 70
	, ,
	Variable Value
	10 ~ 100



Depending on the characteristics of the media, the amount of media output may be different during gap / black mark calibration.

#### 4-10 Files Menu Explanation

List	Explanation		
	Saved File	Template	
		Image	
		Download Fonts	Refer
		E Drive (Flash Memory)	4-10-1 Saved File
		A Drive (USB Memory )	
		B Drive (SD Card Memory )	
Files	Twin Function	PRT Set (Printer Setting)	<b>Refer</b> 4-10-2 Twin
Thes		Template	
		Image	
		Download Fonts Function	Function
			Refer
	F/W Update		4-10-3 F/W
	· / · · · F ······		Update

#### 4-10-1 Saved File

Displays the list of object files stored in the printer on the LCD screen.

List	Explanation	
Template	Template list stored in the printer	
Image	Image list stored in the printer (*.pcx)	
Download Font	Download font list stored in the printer	
E Drive		
(Flash Memory)	Saved object files in E drive	
A Drive	Saved object files in A drive	
(USB Memory)	Saved object files in A drive	
B Drive		
(SD Card	Saved object files in B drive	
Memory)		

#### 4-10-2 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 and saves files to the current printer.

List	Explanation
	Explanation
	Saves printer settings to a USB storage device, or loads the print
Printer Setting	settings from USB storage.
	File path
	F:\configuration
	Explanation
	Saves template file to a USB storage device, or load the template
Template	from USB storage.
•	File week
	F:\USER_AREA_TEMPLATES
	<b>Explanation</b> Saves image file to a USB storage device, or load the image from
_	USB storage (*.pcx)
Image	
	File path
	F:\ USER_AREA_PCXImages
	Explanation
	Saves download font file to a USB storage device, or load the
Download Font	download font from USB storage.
	File week
	<b>File path</b> F:\ USER_AREA_FONTS

	<u>//10 +0 001105</u>
List	Explanation
	Explanation
	Saves printer settings to a USB storage device, or loads 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 up and down buttons.
	- The printer_config file is created in the configuration folder of
	USB storage device.
Printer Setting	(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.
	(If there is no file, save the printer settings first.)
	- Connect the USB storage to the printer.
	- Select Load from the Printer Setup menu using the up and down
	buttons.
	- Loading message is displayed while loading, and when loading
	is
	completed, USB loading completion message is displayed.
	- Check the change of the printer's settings.

	<u>/////////////////////////////////////</u>
List	Explanation
	<b>Explanation</b> Saves template file to a USB storage device, or load the template from USB storage.
	<b>File path</b> F:\ USER_AREA_TEMPLATES
	<ul> <li>Save Function Explanation</li> <li>Connect a USB storage to the printer.</li> <li>Select Save on the menu using the up and down buttons.</li> <li>Template files are stored in the USER_AREA_TEMPLATES folder</li> </ul>
Template	of USB storage device. (USER_AREA_TEMPLATES folder is automatically created) • Load Function Explanation
	<ul> <li>Check whether a template file exists in the USER_AREA_TEMPLATES folder of the USB storage device. (If the file does not exist, create a USER_AREA_TEMPLATES folder and save the template file to be copied to the printer below first)</li> <li>Connect the USB storage to the printer.</li> <li>Select Load from the Printer Setup menu using the up and down</li> </ul>
	<ul> <li>buttons.</li> <li>Loading message is displayed while loading, and when loading is</li> <li>completed, USB loading completion message is displayed.</li> <li>Go to Save File menu then, check the template file is normally saved to the printer.</li> </ul>

List	Explanation
	<b>Explanation</b> Saves image file to a USB storage device, or load the image from USB storage (*.pcx)
	<b>File path</b> F:\ USER_AREA_PCXImages
	• Save Function Explanation
	- Connect a USB storage to the printer.
	- Select Save on the menu using the up and down buttons.
	- Image files are stored in the USER_AREA_PCXImages folder of USB storage device.
-	(USER_AREA_PCXImages folder is automatically created)
Image	
	• Load Function Explanation
	- Check whether the image file exists in the
	USER_AREA_PCXImages folder of the USB storage device.
	(If there is no file, create the USER_AREA_PCXImages folder and save the image file to be copied to the printer below first.)
	- Connect the USB storage to the printer.
	<ul> <li>Select Load from the Printer Setup menu using the up and down buttons.</li> </ul>
	- Loading message is displayed while loading, and when loading is
	completed, USB loading completion message is displayed.
	- Go to Save File menu then, check the image file is normally saved to the printer.

## <u>4-10-3 Firmware Update</u>

Firmware can be updated through USB storage.

	Explanation
	Printer firmware update available using the USB storage directly
	without any communication.
	File path
	F:\ FW_DOWNLOAD
	File name
	"XT5-4x_Vxx.xx_STD_mmddyy.fls" in F:\ FW_DOWNLOAD folder.
	( 203dpi : x is 0 / 300dpi : x is 3 / 600dpi : x is 6)
F/W Update	Download process explanation
•	<ul> <li>Check firmware file(*.fls) is in FW_DOWNLOAD folder</li> </ul>
	of USB storage.
	(If there is no folder, please create FW_DOWNLOAD folder and
	save the firmware file (* .fls) to it.)
	- Connect USB storage to the printer.
	- Select "F/W Update" from the "Files" menu.
	- Select the firmware download menu.
	- If the message "F/W Downloading" is displayed, the firmware
	download has started normally.
	- When the firmware download is completed successfully,
	the message "Printer Restart" is displayed and the rebooting
	process is automatically performed.

## 4-11 Tools Menu Explanation(Standard, Touch Screen Model)

	List	Explanation	
Self Test		Explanation	
Sell Test		Prints for self-test	
Factory Reset		Explanation	
•		Initializes the printer settings to factory default	
		Explanation	
		Diagnoses communication status when printing is	
		not normal	
	Dump Mode	Default Value	
		Disable	
		Variable Value	
		Disable, Enable	
Pri	int Head Check	Explanation	
		Dot-out check of head through printing	
	Dead Pixel Test	Explanation	
		LCD pixel test function	
		Explanation	
	<b>Touch Position Test</b>	LCD touch position test function	
		(Touch Position Test is supported on Touch Screen Model only)	
		Explanation	
LCD		Setting backlight brightness	
	Backlight	Default Value	
	Brightness	70	
		Variable Value	
		10 ~ 100	
		Explanation Setting RTC date and time	
		Setting RTC date and time format	
		Setting KTC date and time format	
Real Time Clock		Date format	
		YYYY-MM-DD, YYYY/MM/DD, MM-DD-YYYY,	
		MM/DD/YYYY, DD-MM-YYYY, DD/MM/YYYY	
		Time format	
		12H, 24H	

Explanation Setting language to be displayed on the LCDDefault Value EnglishEnglishVariable Value English, Korean, German, French, SpanishEmulation Setting printer emulationDefault Value AUTOVariable Value AUTOVariable Value AUTOVariable Value AUTOBuzzer SettingBuzzer SettingSetting beep on / offVariable Value AUTOChecks USB serial numberExplanation Setting beep on / offBuzzer SettingDefault Value EnableDefault Value EnableBuzzer SettingBuzzer SettingDefault Value EnableDefault Value EnableDefault Value EnableBuzzer SettingBuzzer Setting <th></th> <th></th>		
Language Setting       English         English, Korean, German, French, Spanish         Setting printer emulation         Setting printer emulation         Variable Value         AUTO         Variable Value         AUTO(SLCS, BPL-Z, BPL-E), BPL-D         Variable Value         Checks USB serial number         Explanation         Setting beep on / off         Buzzer Setting         Default Value         Enable         Variable Value         Enable, Disable         Security       Default Value         Disable         Disable         Disable         Disable         Disable, Enable         Disable, Enable		•
English, Korean, German, French, Spanish         Explanation         Setting printer emulation         Default Value         AUTO         Variable Value         AUTO(SLCS, BPL-Z, BPL-B), BPL-D         USB Serial         Explanation         Checks USB serial number         Explanation         Setting beep on / off         Buzzer Setting         Default Value         Enable         Variable Value         Enable         Setting beep on / off         Setting a password to restrict printer settings         Setting a password to restrict printer settings         Variable Value         Disable         Variable Value         Disable         Seturity         Default Value         Disable         Disable         Variable Value         Disable	Language Setting	
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Emulation       AUTO         Variable Value       AUTO(SLCS, BPL-Z, BPL-D)         USB Serial       Explanation         Number       Checks USB serial number         Explanation       Setting beep on / off         Buzzer Setting       Default Value Enable         Yariable Value       Enable         Security       Default Value Enable         Security       Default Value Enable, Disable         Yariable Value       Setting a password to restrict printer settings         Yariable Value       Disable         Yariable Value       Setting a password to restrict printer settings         Security       Default Value Disable         Yariable Value       Disable         Explanation       Setting a password to restrict printer settings         Security       Default Value Disable         Disable       Disable         Yariable Value       Disable         Disable, Enable       Disable         Yariable Value       Disable         Disable, Enable       Disable         Partiation       Explanation		-
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AUTO(SLCS, BPL-Z, BPL-E), BPL-D         USB Serial       Explanation         Number       Checks USB serial number         Explanation       Setting beep on / off         Buzzer Setting       Default Value Enable         Variable Value Enable, Disable       Explanation         Security       Default Value Disable         Variable Value Enable, Disable       Explanation         Setting a password to restrict printer settings       Variable Value Disable         Person Print       Explanation         Explanation       Setting a password to restrict printer settings	Emulation	Αυτο
AUTO(SLCS, BPL-Z, BPL-E), BPL-D         USB Serial       Explanation         Number       Checks USB serial number         Explanation       Setting beep on / off         Buzzer Setting       Default Value Enable         Variable Value Enable, Disable       Explanation         Security       Default Value Disable         Variable Value Enable, Disable       Explanation         Setting a password to restrict printer settings       Variable Value Disable         Person Print       Explanation         Explanation       Setting a password to restrict printer settings		Variable Value
USB Serial Number       Explanation Checks USB serial number         Explanation Setting beep on / off       Explanation         Buzzer Setting       Default Value Enable         Variable Value Enable, Disable       Explanation         Security       Default Value Disable         Variable Value Enable, Disable       Explanation         Security       Default Value Disable         Variable Value Disable       Explanation         Security       Default Value Disable         Explanation       Setting a password to restrict printer settings         Security       Default Value Disable         Buzzer Setting       Default Value Disable         Security       Default Value Disable         Setting a password to restrict printer settings         Security       Default Value Disable         Setting a password to restrict printer settings         Setting a password to restrict printer settings <th></th> <td></td>		
Number       Checks USB serial number         Explanation Setting beep on / off       Explanation Setting beep on / off         Buzzer Setting       Default Value Enable         Variable Value Enable, Disable       Explanation Setting a password to restrict printer settings         Security       Default Value Disable         Variable Value Disable       Default Value Enable         Explanation Setting a password to restrict printer settings         Explanation Disable         Explanation Disable         Explanation Disable         Explanation Disable         Explanation Disable         Explanation	LICE Corial	
Buzzer Setting       Explanation Setting beep on / off         Buzzer Setting       Default Value Enable         Variable Value Enable, Disable       Explanation Setting a password to restrict printer settings         Security       Default Value Disable         Variable Value Enable, Disable       Default Value Disable         Security       Default Value Disable         Variable Value Disable       Disable         Kariable Value Disable, Enable       Explanation         Disable, Enable       Explanation		•
Buzzer Setting       Setting beep on / off         Buzzer Setting       Default Value Enable         Variable Value Enable, Disable       Variable Value Enable, Disable         Security       Default Value Disable         Variable Value Disable       Variable Value Disable         Variable Value Disable       Default Value Disable         Explanation       Security	Number	
Buzzer Setting       Default Value Enable         Variable Value Enable, Disable       Variable Value Enable, Disable         Security       Explanation Setting a password to restrict printer settings         Default Value Disable       Default Value Disable         Variable Value Disable, Enable       Explanation         Explanation       Explanation		-
Buzzer Setting       Enable         Variable Value       Variable Value         Enable, Disable       Explanation         Security       Default Value         Disable       Disable         Variable Value       Disable         Explanation       Explanation         Security       Default Value         Disable       Disable         Explanation       Explanation         Disable       Disable         Explanation       Explanation         Disable       Disable         Disable       Disable         Disable, Enable       Explanation		Setting beep on / off
Finable       Variable Value         Enable, Disable       Enable, Disable         Explanation       Setting a password to restrict printer settings         Security       Default Value         Disable       Disable         Variable Value       Disable         Explanation       Explanation         Security       Default Value         Disable       Disable         Explanation       Explanation	Buzzer Setting	Default Value
Enable, Disable         Explanation         Setting a password to restrict printer settings         Default Value         Disable         Variable Value         Disable, Enable         Explanation	Buzzei Setting	Enable
Enable, Disable         Explanation         Setting a password to restrict printer settings         Default Value         Disable         Variable Value         Disable, Enable         Explanation		
Explanation         Setting a password to restrict printer settings         Default Value         Disable         Variable Value         Disable, Enable         Explanation		
Setting a password to restrict printer settings         Security       Default Value Disable         Variable Value Disable, Enable         Demo Print		
Security     Default Value Disable       Variable Value Disable, Enable       Demo Print		•
Security     Disable       Variable Value       Disable, Enable       Explanation		Setting a password to restrict printer settings
Security     Disable       Variable Value       Disable, Enable       Explanation	Constant in	Default Value
Disable, Enable Explanation Explanation	Security	
Demo Print Explanation		Variable Value
		Disable, Enable
Demo format output function	Demo Print	Explanation
		Demo format output function

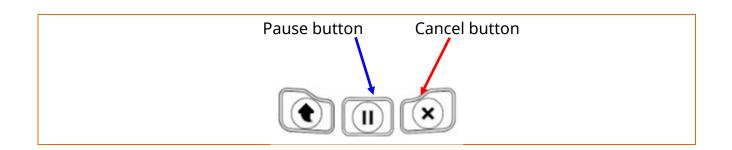
## 4-12 Info Menu Explanation(Standard, Touch Screen Model)

List	Explanation
Printer Info	Explanation
	Checking the printer usage information
	Explanation
Installation & Usage	Site linking(QR code) for installation and usage
	instructions
Troubleshooting	Explanation
	Site linking(QR code) for troubleshooting
Contract UC	Explanation
Contact US	Site linking(QR code) for technical support

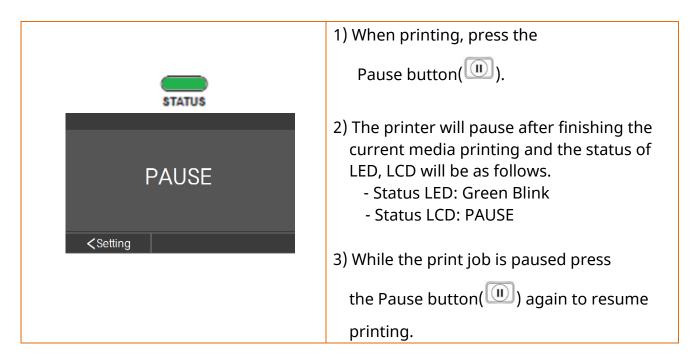
# 5. Detailed Features

#### 5-1 Pause/Cancel

• During multiple-page print jobs, the Pause and Cancel button can be used to pause printing and cancel the print job altogether, respectively.



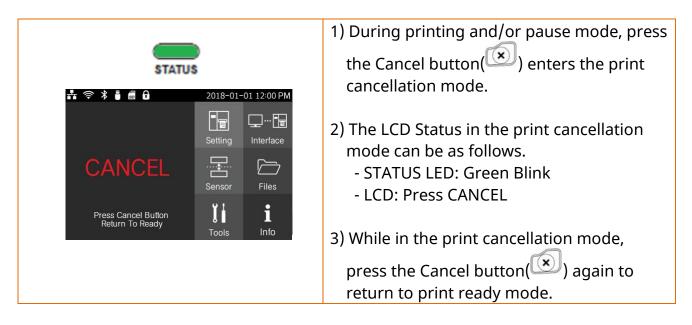
#### 5-1-1 Pause/Resume Function



#### 5-1-2 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.





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

#### 5-2 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 Feed button(())
  - 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

#### 5-3 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.

2) In print ready mode the setting menu and move to Sensor  $\rightarrow$  Gap Calibration

and press or or button to process gap sensor auto calibration * Please refer Tools Menu Explanation (4-1) for more information.



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

#### 5-4 Black Mark 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.

2) In print ready mode the setting menu and move to Sensor  $\rightarrow$  Black Mark Calibration

and press or or button to process black mark sensor auto calibration * Please refer Tools Menu Explanation (4-1) for more information.



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

#### 5-5 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 Internet via the BIXOLON website. (<u>www.bixolon.com</u>)

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.

Interface Type		User Setting	Sensing Value Distribution	STEP 1 : Start
Serial	Parallel USB Ethernet	Configure Printer Setting	O 32 : 0000 O 64 : 0000	Sensing Type :
Communication	n Setting	Configure Print Quality	96: 0000 128: 0000 160: 0000	● G ● B
LPT Port	LPT1: v	Calibration Setting Manager	0 190 1 0000 0 192 : 0000 0 224 : 0000	Label Length : (mm) 150
COM Port	COM1: •	Downloader	256 : 0000 288 : 0000 320 : 0000	Check Sensing Value
Baud Rate	115200 💌	PCX File Downloader	0 352 : 0000 0 384 : 0000 0 416 : 0000	
Data Bits	8	Printer Tool	C 448 : 0000 C 480 : 0000	STEP 2 : Save Middle Gap Value :
Parity	None	Send File	C 512 : 0000 C 544 : 0000 C 576 : 0000	0
Stop Bits	1	Printer Tool	608 : 0000 640 : 0000 672 : 0000	Gap Count :
IP	192 . 168 . 100 . 185	Communication Tool	0 704 ± 0000 0 736 ± 0000	Save Calibration
Port	9100	SLCS Test Tool	C 768 : 0000 C 800 : 0000 C 832 : 0000	
	Connect		C 864 : 0000 C 896 : 0000 C 928 : 0000	Cancel
		EXIT	© 960 : 0000 © 992 : 0000 © 1024 : 0000	Cancel Calibration

- 1) Select the sensing type and input the label length by millimeter and click "Check Sensing Value" button. Then printer starts calibration.
- 2) Printer will print the scanned values after calibration and the values will appear on the Screen.
- 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.

#### 5-6 Sensor Sensitivity

• Use this mode when paper is not detected correctly.

You can adjust the strength of the sensor to fix the paper sensing problem.

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

In print ready mode the setting menu and move to Sensor  $\rightarrow$  Sensor Sensitivity and

press or button to run automatically Calibration with the setting value. * Please refer Tools Menu Explanation (4-1) for more information.



When the setting value is not correct, sensing failure occurs. In this case, change the setting value and reattempt.

#### 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.

In print ready mode the setting menu and move to Tools  $\rightarrow$  Dump  $\rightarrow$  Dump Enable and

press 🤍 or 🚾 button to run dump mode

* Please refer Tools Menu Explanation (4-1) 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.

2) In print ready mode the setting menu and move to Tools  $\rightarrow$  Reset and

press or button to reset the printer to Factory default.

* Please refer Tools Menu Explanation (4-1) 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) In print ready mode the setting menu and move to Interface  $\rightarrow$  WLAN  $\rightarrow$  SWC

 $\rightarrow$  Execute SWC and press  $\smile$  or  $\frown$  button to Execute SWC.

- 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..."  $\rightarrow$  "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"

# 6. Maintenance

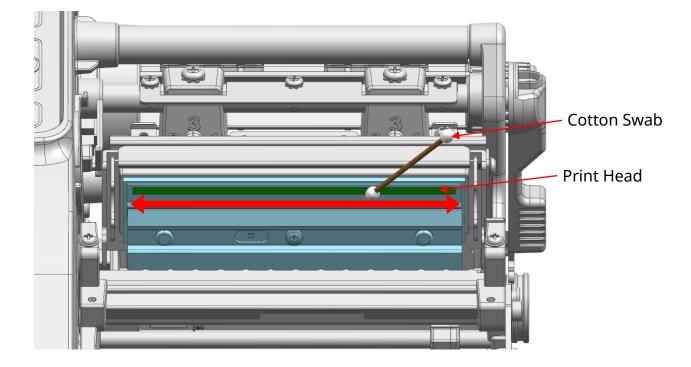
#### 6-1 Cleaning Printer

• Due to dust, foreign substances, adhesives, and other contaminants on or inside print head, print quality may be reduced. In this case, clean the printer using the cleaning tools for each area as indicated in the following table.

Area	Tools	Interval
Print Head	Cotton swab dipped in medical alcohol solution	When changing media
Platen Roller	Cloth dipped in medical alcohol solution	
Media Sensor	(Cotton swab)	
Ribbon Sensor	(Cotton swab)	
Media Feed Path	Air compressors,	
Ribbon Feed Path	Cloth dipped in medical alcohol solution (Cotton swab)	
Manual cutting	Cloth dipped in medical alcohol solution	When a foreign substance is discovered
Peeler Roller(Option)	(Cotton swab)	When changing media
Peeler		
Sensor(Option)		
Auto Cutter(Option)	Air compressors, Cotton swab dipped in medical alcohol solution	When a foreign substance is discovered

#### 6-2 Cleaning Print Head

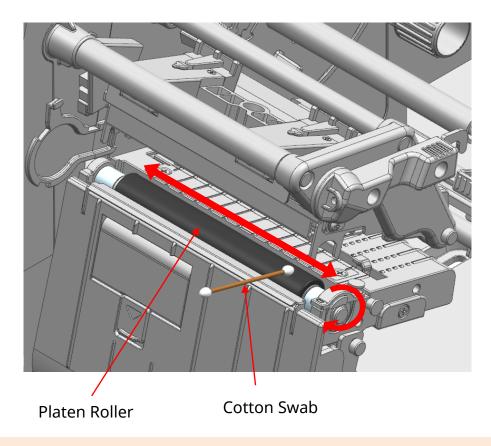
- 1) Open the media cover and print head levers and remove the media and ribbon.
- 2) Clean the print head toward both sides from the center using a cotton swab dipped in medical alcohol.
- 3) After cleaning, use the printer after alcohol has evaporated sufficiently (1 to 2 minutes) and the surface of print head has completely dried up.



- Be sure to clean after turning the printer off.
- Be careful not to leave scratches in the print head The printer may be damaged.
- Print head is very hot while the printer is printing, so clean the printer after cooling it sufficiently with power off.
- Do not touch heated area of print-head when cleaning. Personal injury may result from static electricity, etc.

#### 6-3 Cleaning Platen Roller

- 1) Open the media cover and print head levers and remove the media and ribbon.
- 2) While rotating the roller, remove dust or foreign substances using a dry cloth or cotton swab.
- 3) In case that adhesive substances or other contaminants remain, remove it using a cloth or cotton swab dipped in medical alcohol solution while rotating the roller.
- 4) After cleaning, use the printer after alcohol has evaporated sufficiently (1 to 2 minutes) and the surface of platen roller has completely dried up.

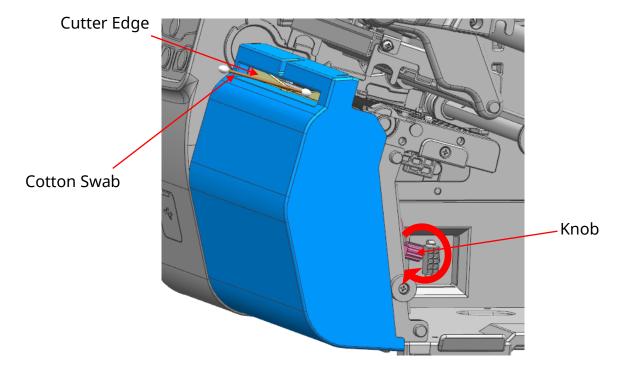




- Be sure to clean after turning the printer off.
- Be careful not to scratch the roller. The printer may be damaged.

#### 6-4 Cleaning Auto Cutter (optional)

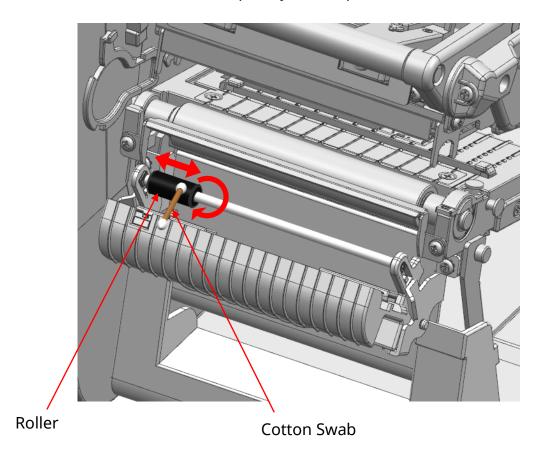
- 1) Open the media cover and print head levers and remove the media and ribbon.
- 2) After exposing the cutter blade completely by rotating the knob, remove dust or foreign substances using a cotton swab dipped in medical alcohol solution.



- 3) After cleaning, use the printer after alcohol has evaporated sufficiently (1 to 2 minutes) and the cutter blade has completely dried up.
  - Be sure to clean after turning the printer off.
  - Be careful not to scratch the roller. The printer may be damaged.
  - Do not touch cutter edge of auto cutter when cleaning. This can cause serious bodily injury.

#### 6-5 Cleaning Peeler Module (optional)

- 1) Open the media cover, print head levers, and peeler cover and remove the media and ribbon.
- 2) While rotating the roller, remove dust or foreign substances using a dry cloth or cotton swab.
- 3) In case that adhesive substances or other contaminants remain, while rotating the roller, remove it using a cloth or cotton swab dipped in medical alcohol solution.
- 4) After cleaning, use the printer after alcohol has evaporated sufficiently (1 to 2 minutes) and the surface of roller has completely dried up.



- Be sure to clean after turning the printer off.
- Be careful not to scratch the roller. The printer may be damaged.

# 7. Specifications

#### 7-1 Printer Specifications

Item		Description
	Printing Method	Thermal transfer Printing
		XT5-40: 203dpi (8 dot/mm)
	Dot Density	XT5-43: 300dpi (11.8 dot/mm)
		XT5-46: 600dpi (23.6 dot/mm)
Printer		XT5-40: Max 104mm (Max 4.09")
Filitei	Print Width	XT5-43: Max 105.7mm (Max 4.16")
		XT5-46: Max 105.6mm (Max 4.15")
		XT5-40: Max 356mm/sec (Max 14ips)
	Print Speed	XT5-43: Max 254mm/sec (Max 10ips)
		XT5-46: Max 127mm/sec (Max 5ips)
	Width	25 ~ 114mm
Media	Outer Diameter	Max 203mm
MEdia	Inner Diameter	38.1~76.2mm (1.5 ~ 3 Inch),
		25.4mm (1 Inch Option)
	Length/Width	Max 450m / 40 ~ 110mm (1.6 ~ 4.3 Inch)
Ribbon	Туре	Wax, Wax resin, Resin, Outside, Inside
	Inner Diameter	25.4mm (1 Inch)
	Input Voltage	AC 100~120V / AC 200~240V
AC/DC Enclosed	Input Frequency	50/60Hz
	Output Voltage/ Current	DC 24V / 7.5A
Usage	Temperature	5~ 40 °C (Operating)
		-20 ~ 60 °C (Storage)
Conditions	Humidity	10 ~ 80 % RH (Operating)
	(except for Media)	10 ~ 90 % RH (Storage)
	(exception media)	

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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: PP, PET

# **Revision History**

Rev.	Date	Description
1.00	2018-10-16	New
1.01	2019-10-07	Media Damper, Media Damper Button named added. Peeler model image added. Printer operation button image revised. Media Installation (Removal) Method – Not Using Media Core added. Media Installation Method of Peeler (optional) Model added. Media Installation Method of Peeler + Rewinder (optional) Model changed. How to Use Media Damper (Standard Model) added. "using a sharp tool" deleted. Description of print density added. Printer operation button image revised and Print head adjustment instruction added. WLAN section added. Installation & Usage section added. WLAN section added. Sensor menu reference added. Print head cleaning tool revised. Print head cleaning tool revised.
1.02	2019-12-06	Warning contents revised
1.03	2020-07-30	Touch Screen Model image added. Introduction revised Manual Information revised. Symbol Information revised. Touch Screen Model image added Major Control Part Names (Touch Screen Model) added. Power Connection revised. Menu Composition (Standard Model) revised. Menu Composition (Touch Screen Model) added. Menu Select Method (Touch Screen Model) added.
1.04	2020-11-24	Label Types added. Caution revised
1.05	2022-08-12	GPIO added 5.Detailed Features added SWC added Document format revised

Rev.	Date	Description
1.06 2023-03-2		Ribbon Core deleted
	2022 02 21	Internal revised
	2025-05-21	3-6-2 Ribbon Installation Method revised
		3-6-4 Ribbon Remove Method