

BIXOLON®

User's Manual

SLP-DL410KV/DL413KV

THERMAL LABEL PRINTER

Ver. 1.00



<http://www.bixolon.com>

Introduction

The SLP-DL410KV printer is designed to be used inside a vehicle. Connect it to the HOST device to print and control.

※ The main features of the printer are as follows

1. SLP-DL410KV : Maximum 127mm/s(Max 5ips) printing speed
SLP-DL413KV : Maximum 127mm/s(Max 5ips) printing speed
2. 4inch THERMAL LABEL PRINTER
3. 194 x 248 x 169 (W x D x H)
4. Support for multiple interfaces
 - Standard(Wire): USB & USB HOST
 - Option(Wire): USB & USB HOST & Ethernet
 - Option(Wireless): Bluetooth
5. Easy media loading
6. Can print a range of barcodes
7. Option : Peeler, Auto Cutter
8. Vehicle-only printer(**Input Rated voltage: 12V**)

It is advisable to read the contents of this manual carefully before using the printer for the first time.


※ The input voltage rating of this product is 12V.


Therefore, be sure to use it in an environment that meets these specifications.

※ Use only authorized supplies that can be trusted!

- We are not responsible for quality and service for damage caused by the use of unauthorized products (or recycled ones).

Safety Information

 **Warning:** Warnings must be heeded carefully in order to prevent serious physical harm.

 **Caution:** Cautions must be heeded in order to prevent minor injuries, equipment damage, or data loss.

Symbol Information





	DC (Direct current)
	Warning, Caution
	USB
	Ethernet

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Manual Information

This user's guide contains basic information for product usage as well as for emergency measures that may be required.

※ The following separate manuals provide more detailed content on various technological issues and areas.

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.

Safety Precautions

In using the present appliance, please keep the following safety regulations in order to prevent any hazard or material damage.

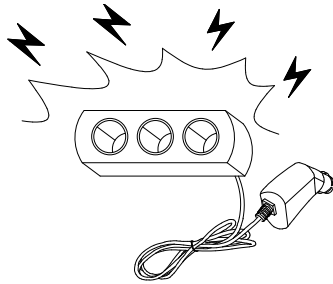


WARNING

Warnings must be heeded carefully in order to prevent serious physical harm.

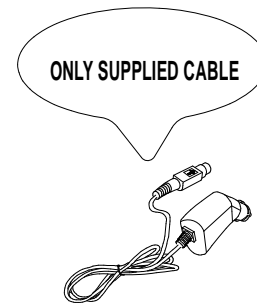
Do not use multi-sockets.

- This can provoke over-heating and a fire.
- They can cause the printer to malfunction.



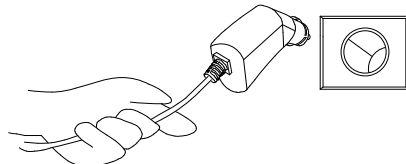
You must use only the supplied cable.

- Use of non-related cables may cause printer failure.



When unplugging, do not pull on the cord.

- This may damage the cord and lead to a fire or a failure.



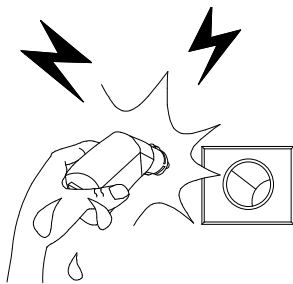
Keep the plastic bag out of children's reach.

- If not, a child may put the bag on his head.



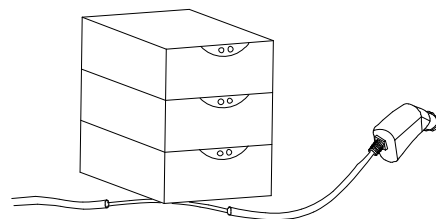
Do not plug in or unplug with your hands wet.

- You can be electrocuted.



Do not bend the cable by force or leave it under any heavy object.

- A damaged cable can cause a fire.





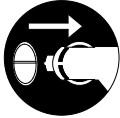
CAUTION

Cautions must be heeded in order to prevent minor injuries, equipment damage, or data loss.

If you observe a strange smoke, odor or noise from the printer, unplug it before taking following measures.

- Switch off the printer and unplug the set from the mains.
- After the disappearance of the smoke, call your dealer to repair it.

TO UNPLUG



Keep the desiccant out of children's reach.

- If not, they may eat it.

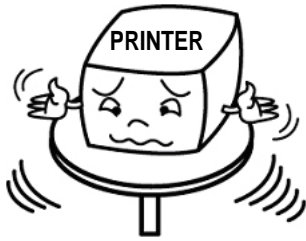
PROHIBIT



Install the printer on the stable surface.

- If the printer falls down, it can be broken and you can hurt yourself.

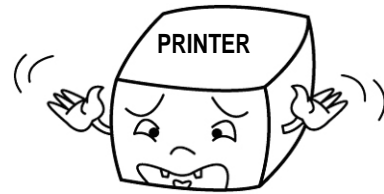
PROHIBIT



Use only approved accessories and do not try to disassemble, repair or remodel it for yourself.

- Call your dealer when you need these services.
- Do not touch the blade of auto cutter.

DISASSEMBLING PROHIBITED



Do not let water or other foreign objects in the printer.

- If this happened, switch off and unplug the printer before calling your dealer.

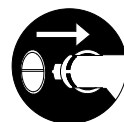
PROHIBIT



Do not use the printer when it is out of order. This can cause a fire or an electrocution.

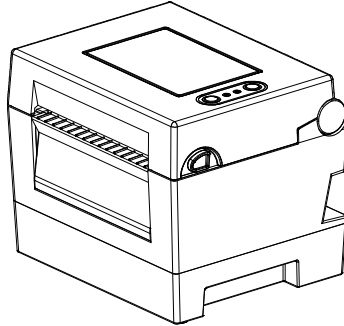
- Switch off and unplug the printer before calling your dealer.

TO UNPLUG

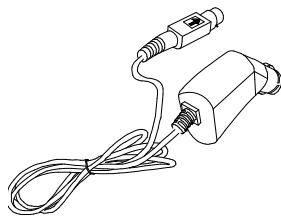


1. Content Confirmation

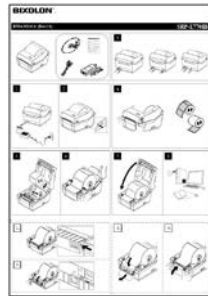
The following items should all be contained in the printer package.
Contact the dealer from which the purchase was made if any item is damaged or missing.



SLP-DL410KV/DL413KV



Cigar Jack Cable



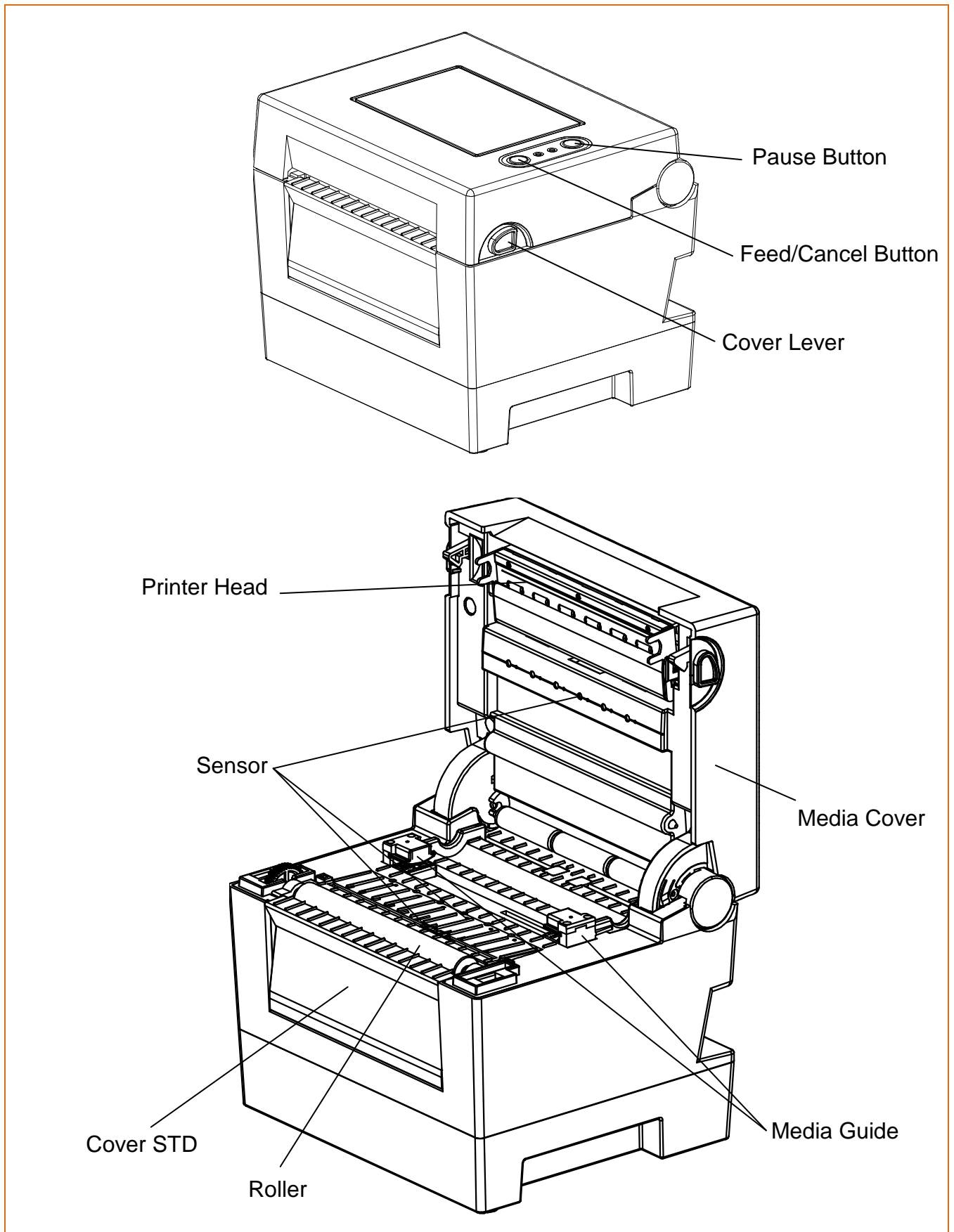
Quick Manual

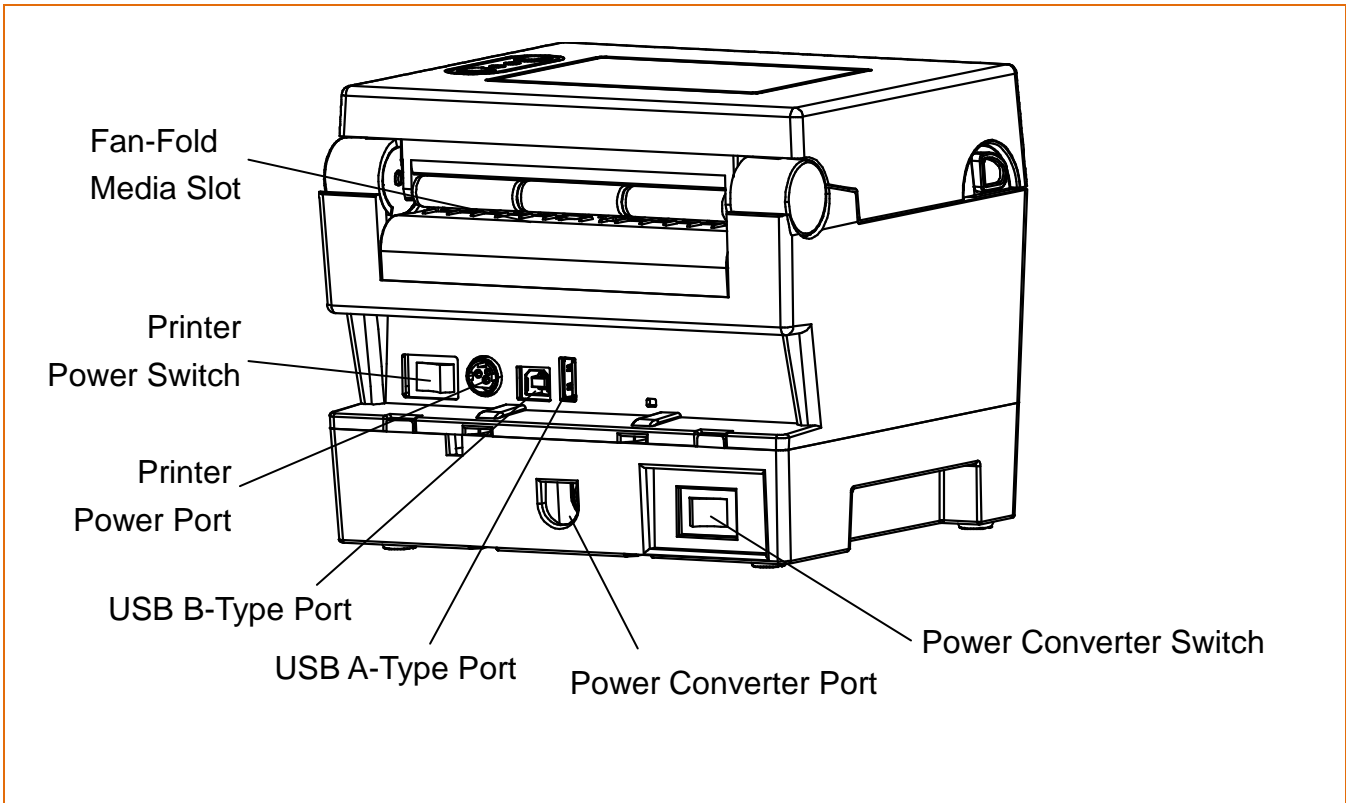
※ **Optional**



USB Cable

2. Product Part Names





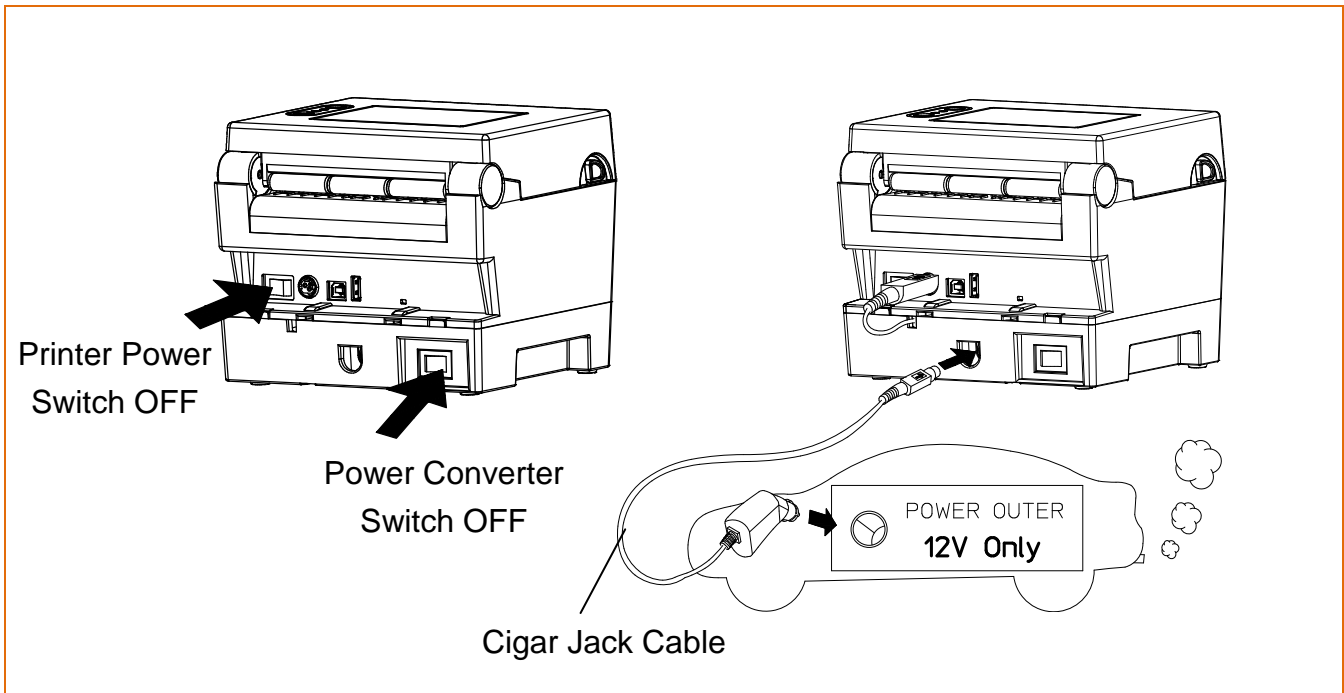
3. Installation & Usage

3-1 Printer Installation Placings



- Install the printer in a location that meets the following conditions.
 - Allow sufficient space around the printer for proper ventilation.
 - Install the printer on a flat and level surface.
 - Avoid humid environment.

3-2 Power Connection




- Connect power to the printer as shown below.



- 1) Start the vehicle.
 - ※ **The product may be damaged by a voltage surge, so be sure to start the engine before plugging in the cigar jack cable.**
- 2) Make sure that the printer power and power converter switch is off.
- 3) Connect the cigar jack cable to the printer.
- 4) Connect the cable to the vehicle's cigar jack socket.

 Caution	<ul style="list-style-type: none">- Only use a cable provided by BIXOLON. BIXOLON shall bear no responsibility for damage caused by using a third-party cable.- When removing the cigar jack cable, make sure you have a firm grasp the printer, then pull horizontally.
 Warning	<ul style="list-style-type: none">- Before starting the vehicle, disconnect the cigar jack cable from the cigar jack socket. Voltage surge may cause damage and/or fire.- The input voltage rating of this product is only 12V, so be sure to use it according to the specifications to avoid damage and fire.- 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.- When connecting the printer, do not use a multi-socket. Instead, connect directly to the cigar jack socket to avoid product damage and fire.

3-3 Interface

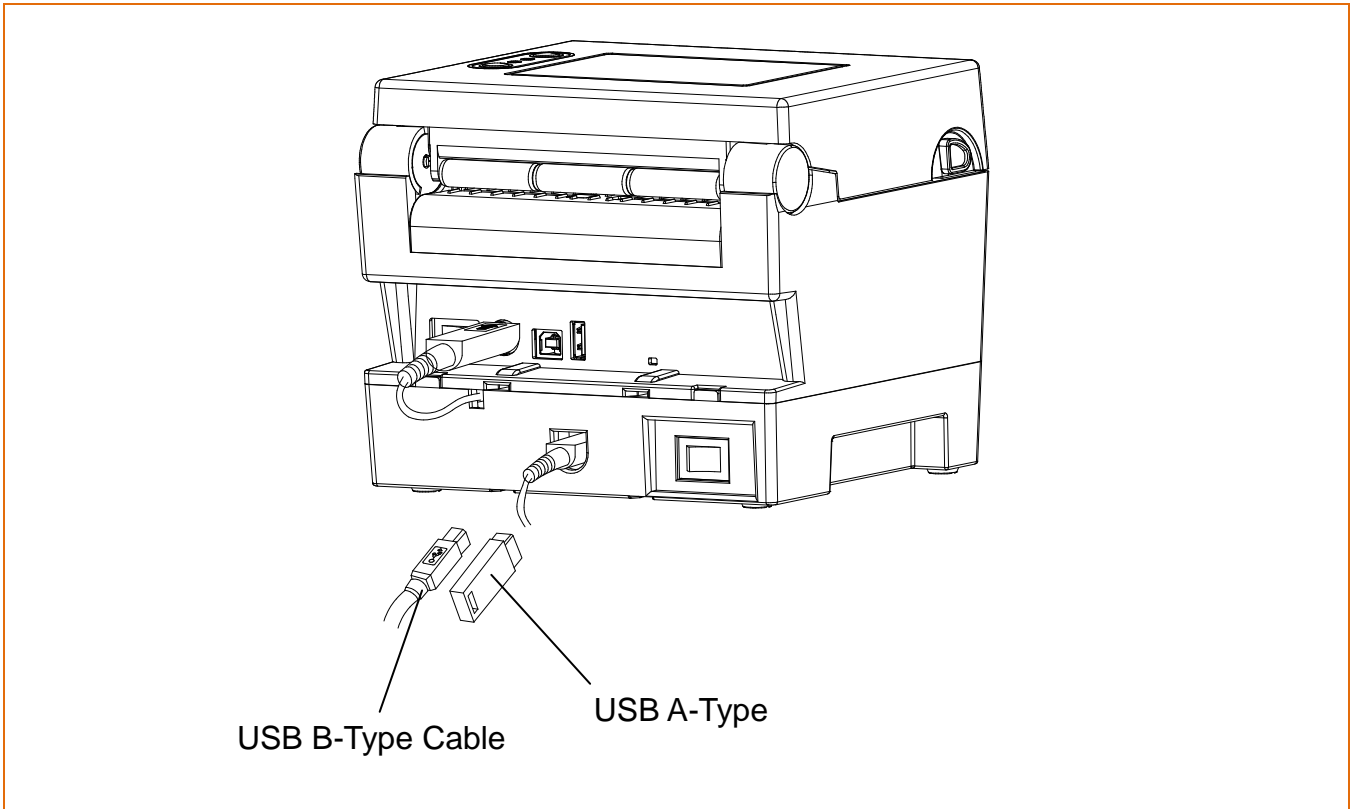
 Note	<p>Shielded cables must be used to prevent radiation and reception of electrical noise. Use the shortest possible communication cable to minimize the detection of electrical noise in the cable.</p> <ul style="list-style-type: none">- USB B-Type Cable (1.8m or less recommended)- LAN(Ethernet) Cable (3m or less, CAT-5 or higher UTP Cable)
 Caution	<ul style="list-style-type: none">- 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.- 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.
 Warning	<p>After turning off the power switch of printer, connect and disconnect the communication cable. This can cause serious electrical damage and bodily injury.</p>

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

Connect the interface cable as shown below.

This printer supports the following communications interface standards.

- USB B-Type Cable
- USB A-Type (WLAN Dongle or Bluetooth Dongle)



1) Turn off the power switch.

- 2) Connect the communication cable to the printer communication port to be used.
- Connect USB B-Type cable to the USB port.
 - Connect USB A-Type (WLAN Dongle or Bluetooth Dongle) to the HOST Port.



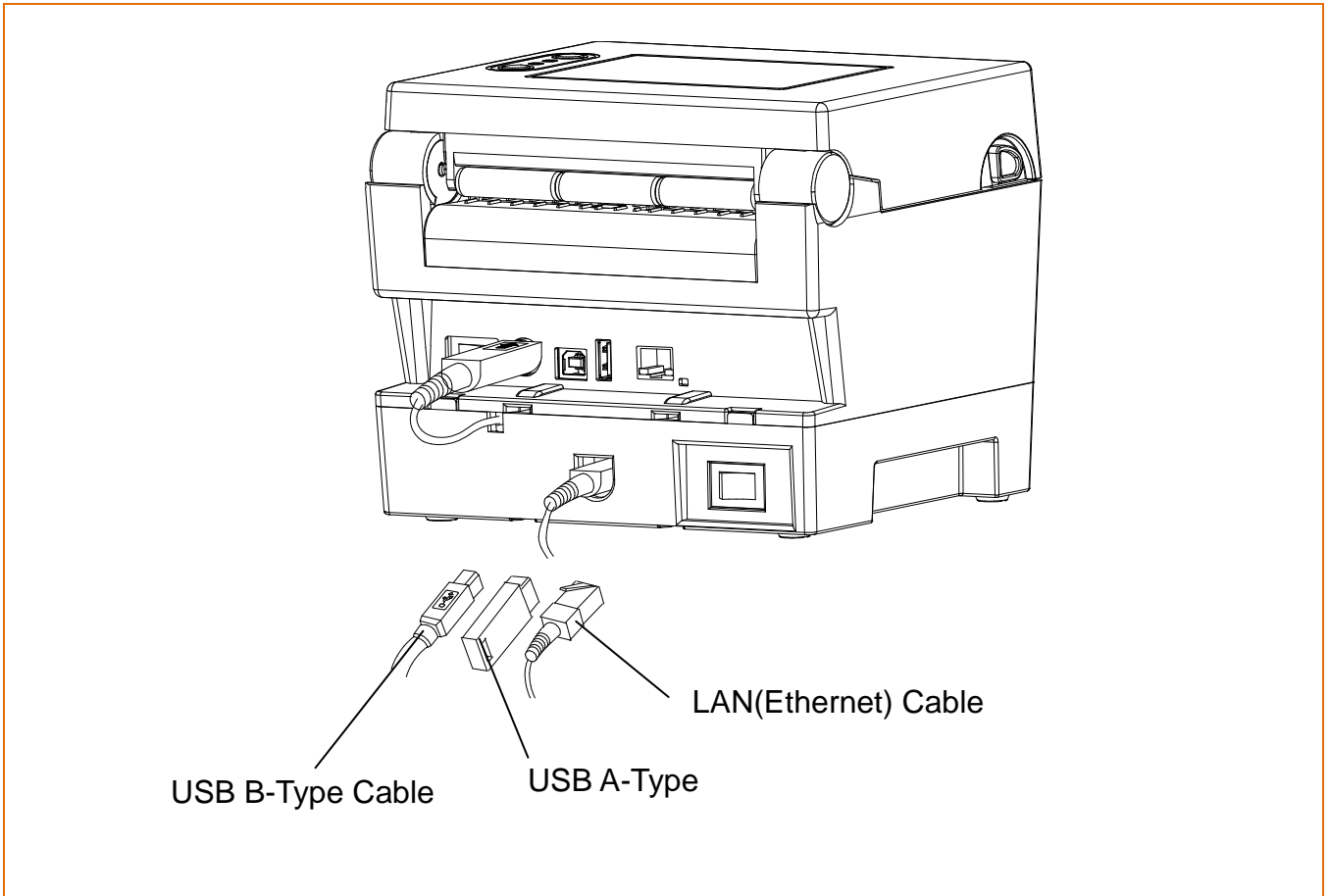
Be aware that the product's electronic components may be damaged due to discharging of electrostatic energy that accumulates on the surface of the body or other objects.

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

Connect the interface cable as shown below.

This printer supports the following communications interface standards.

- LAN(Ethernet) Cable
- USB B-Type Cable
- USB A-Type (WLAN Dongle or Bluetooth Dongle)



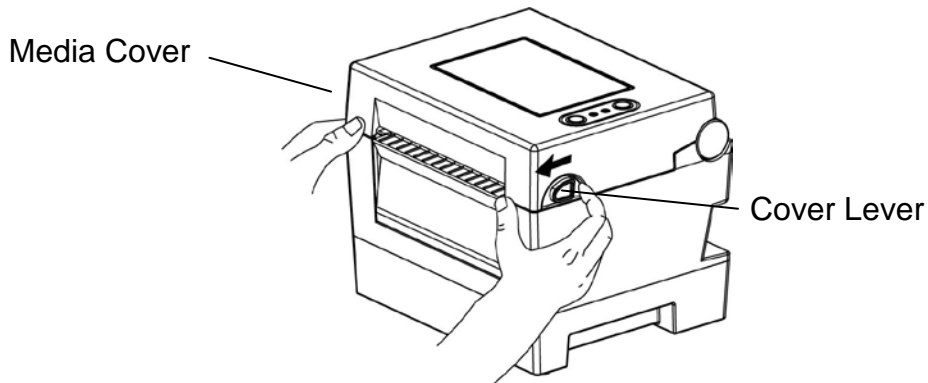
- 1) Turn off the power switch.
- 2) Connect the communication cable to the printer communication port to be used.
 - Connect the LAN(Ethernet) cable to the Ethernet port.
 - Connect USB B-Type cable to the USB port.
 - Connect USB A-Type (WLAN Dongle or Bluetooth Dongle) to the HOST Port.



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

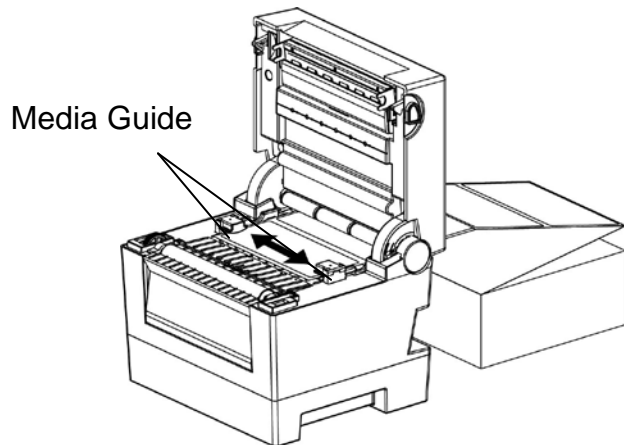
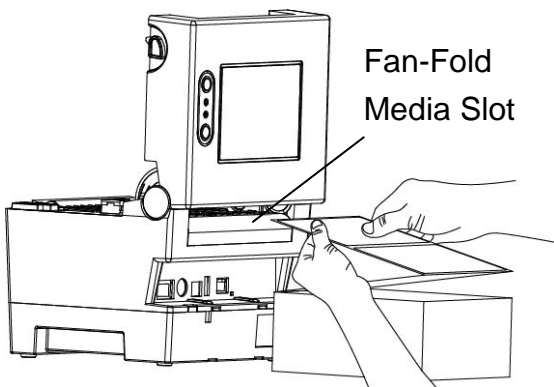
3-4 Media Installation

1) Pull the cover levers on both sides of the media cover and open the media cover.

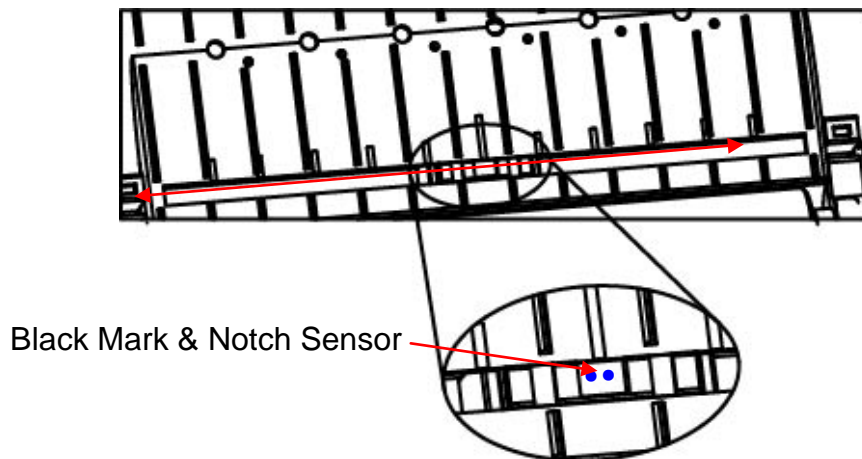


2) Install the Fan-Fold media in the media slot on the back.

3) Adjust the media guides to the width of the media.



4) After Installation the media, lift the media and manually set the sensor(Black-Mark & Notch Sensor) to the correct position.





Caution

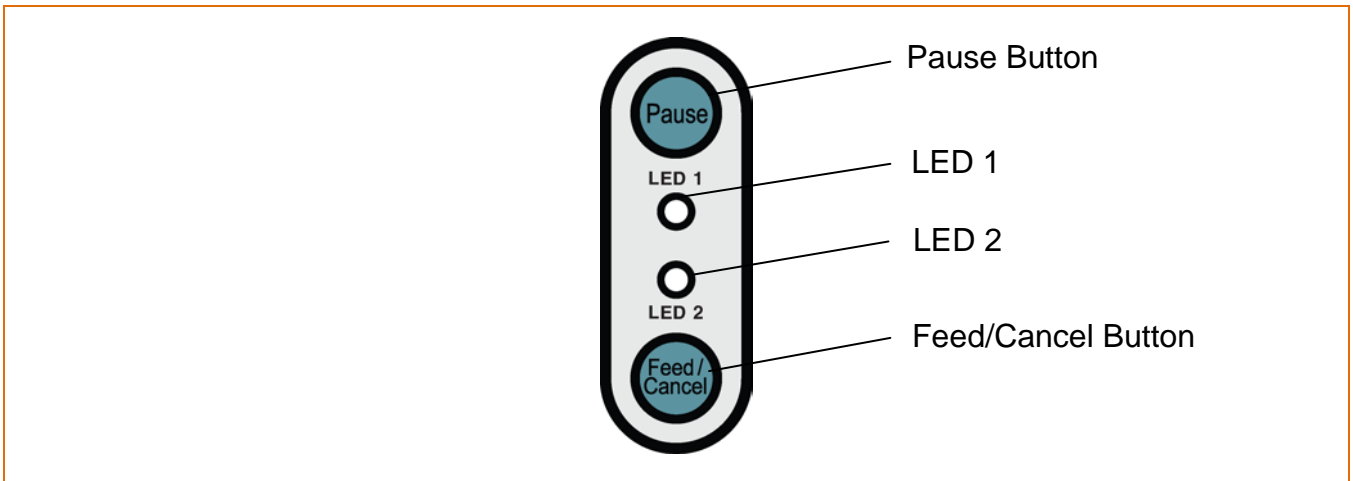
- When opening or closing the cover, be careful not to pinch your fingers.
- Do not open the print head levers while the printer is printing. The printer may be damaged.
- Change the media when the printer is not receiving data, or data may be lost.



Warning

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.

3-5 Button & LED



3-5-1 Button Operations

Printer state before operation	Button		Operation procedure	Printer operation mode
	Feed/Cancel	Pause		
Power OFF	Press	-	Apply power while pressing the button (Hold the button until the printer starts self-test printing)	Self-test Printing Mode.
Print Standby	Press	-	Press the button	Feed Mode
Print Standby	-	Press	Press the button for two seconds	Stand-alone Configuration Mode
During Printing	-	Press	Press the button for two Seconds	Print Pause Mode
During Printing	Press	-	Press the button for two Seconds	Print Cancel Mode
Print Pause Mode	Press	-	Press the button	Print Cancel Mode
Print Cancel Mode	Press	-	Press the button	Print Standby Mode

3-5-2 LED Indicator For Various Printer Statuses

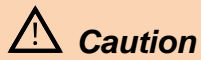
LED 1		LED 2		Printer Operation Status	
Color	Status	Color	Color		
Green	On	Green	On	Print Ready Mode	Ready Mode
Green	On	Red	Blink	Print Cancel Mode	Wait For Button Input
Green	Blink	Red	On	Print Is Paused Temporarily	Wait For Button Input
Green	Blink	Green	Blink	Print Standby Mode	Wait For Button Input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

4. Self-test

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

The self-test checks the following;

- 1) Make sure that the media has been installed properly.
- 2) Turn on the power while holding down the Feed/Cancel button. The self-test begins.
(It takes about 10 seconds before starting self-test)
- 3) The self-test prints the current printer configuration information.
- 4) After the self-test results are printed, a printer enters into print ready mode.



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

5. Detailed Features

5-1 Stand-alone Configuration Mode

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

- 1) The Pause button is pressed for two seconds while in Print Ready Mode.
- 2) Both LEDs will change to orange color, then release the Pause button
The printer will be set to Stand-alone configuration mode.
- 3) When the printer enters into this mode, the status of LED 1 and LED 2 are changed sequentially.
- 4) When the Feed/Cancel button is pressed at specific LED color combination, the corresponding printer operation will be executed.

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

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

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



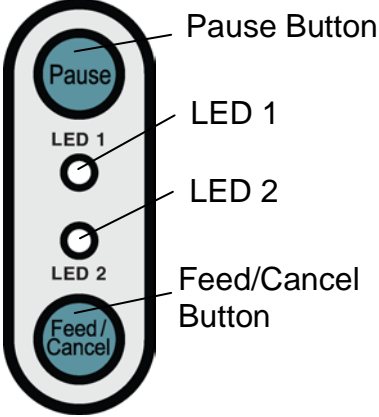
Caution

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

5-2 Pause/Cancel

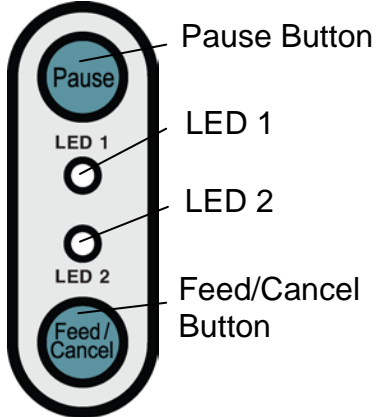
- During multiple-page print jobs, the Pause, Feed/Cancel button can be used to pause printing and cancel the print job altogether, respectively.

5-2-1 Pause/Resume Function

 <p>The diagram shows a vertical control panel with four components from top to bottom: a circular 'Pause' button, a small circular 'LED 1', another small circular 'LED 2', and a larger circular 'Feed/Cancel' button. Lines connect each label to its corresponding component.</p>	<ol style="list-style-type: none">1) When printing, press the Pause button.2) The printer will pause after finishing the current media printing and the status of LED will be as follows.<ul style="list-style-type: none">- LED 1: Green Blink- LED 2: Red On3) While the print job is paused, press the Pause button again to resume printing.
--	---

5-2-2 Print Cancellation

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

 <p>The diagram shows a vertical control panel with four components from top to bottom: a circular 'Pause' button, a small circular 'LED 1', another small circular 'LED 2', and a larger circular 'Feed/Cancel' button. Lines connect each label to its corresponding component.</p>	<ol style="list-style-type: none">1) During printing and/or pause mode, press the Feed/Cancel button enters the print cancellation mode.2) The LED Status in the print cancellation mode can be as follows.<ul style="list-style-type: none">- LED 1: Green On- LED 2: Red Blink3) While in the print cancellation mode, press the Feed/Cancel button again to return to print ready mode.
--	---



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

5-3 Smart Media Detection

- Media with gap and black mark can be identified without additional settings.
- 3~5 pages of media will be used depending on the types of media.
- Smart Media Detection function is executed in the followings cases
 - When the printer is installed first time, it is executed by pressing the Feed/Cancel button.
 - If the printer is installed first time, printer command will execute Smart Media Detection.
 - When change of media length or type is detected during feeding or printing.
 - When the different media type command is entered from the configured media type.
 - After factory reset.



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

5-4 Gap Sensor Auto Calibration Mode

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

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

- 1) Make sure that media roll has been installed properly.
- 2) Using stand-alone configuration mode, press the Feed/Cancel button at sequence number 4 gap sensor auto calibration mode (refer to 5-1).



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

5-5 B/M Sensor Auto Calibration Mode

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

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

- 1) Make sure that media roll has been installed properly.
- 2) Using stand-alone configuration mode, press the Feed/Cancel button at sequence number 5 black mark sensor auto calibration (refer to 5-1).



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

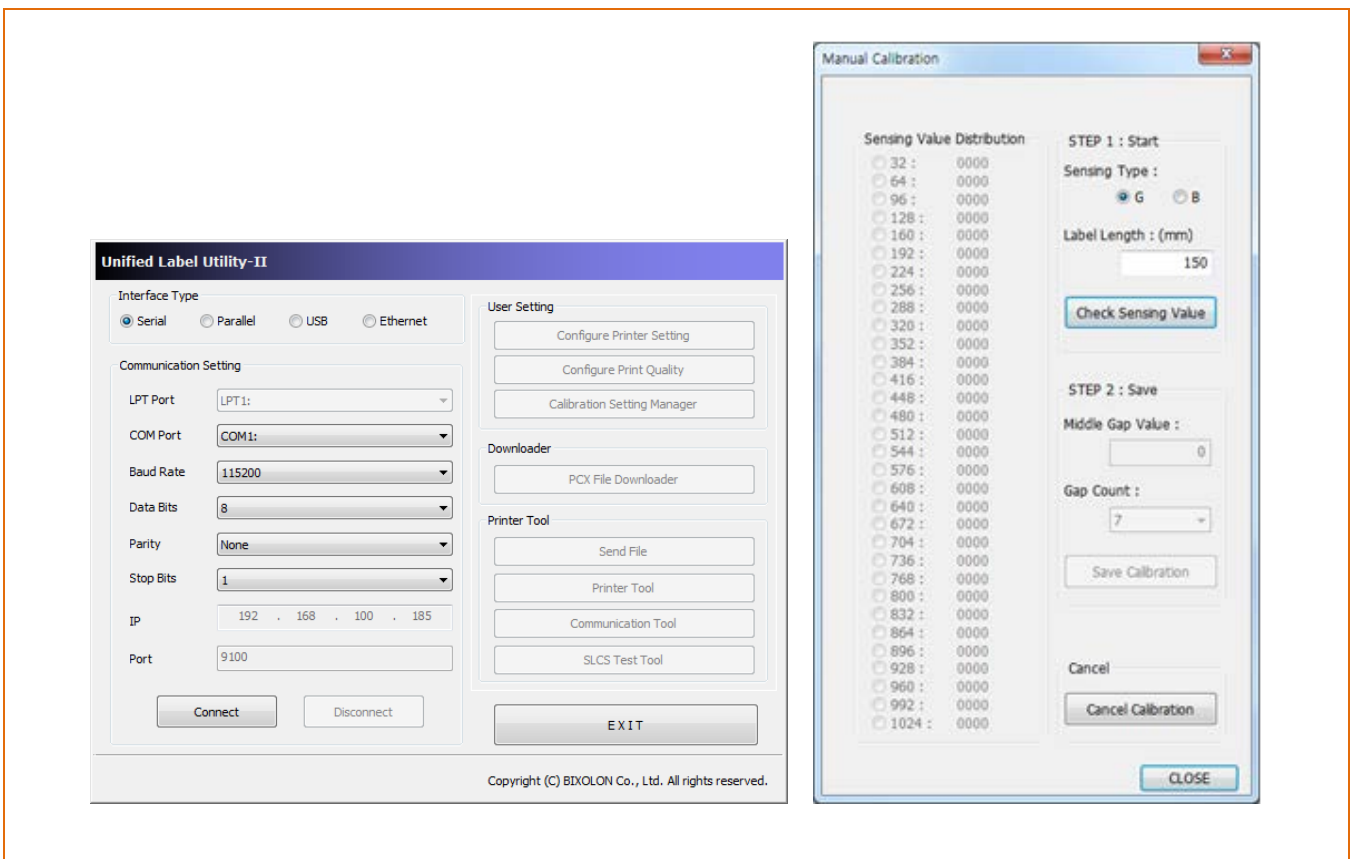
5-6 Media Sensor Manual-Calibration

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

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

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

Please make sure the printer is connected and execute the Unified Label Utility-II program. Please the Calibration Setting Manager Button after setting the interface type.



- 1) Select the sensing type and input the label length by millimeter and click "Check Sensing Value" button. Then printer starts calibration.
- 2) 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"



Caution

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

5-7 Data Dump Mode

- This function can be used to diagnose the communication issues when the printer does not work properly.

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

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

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



Caution

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

5-8 Factory Reset

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

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

- (1) Use Auto Calibration Mode(depends on the media type) for Factory Reset.
 - * Please refer Tools Menu Explanation (5-1) for more information.
 - * The printer will be rebooted automatically.



Caution

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

5-9 Print Standby Mode

5-9-1 About Print Standby Mode

The printed area may become out of range of media if the media is not in the accurate printing position when the cover is opened and closed.

The printer is put into print standby mode instead of print ready mode when the cover is closed in order to prevent this problem, and it waits for additional user input.

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

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

5-9-2 How to switch the printer from Standby Mode to Print Ready Mode

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



Caution

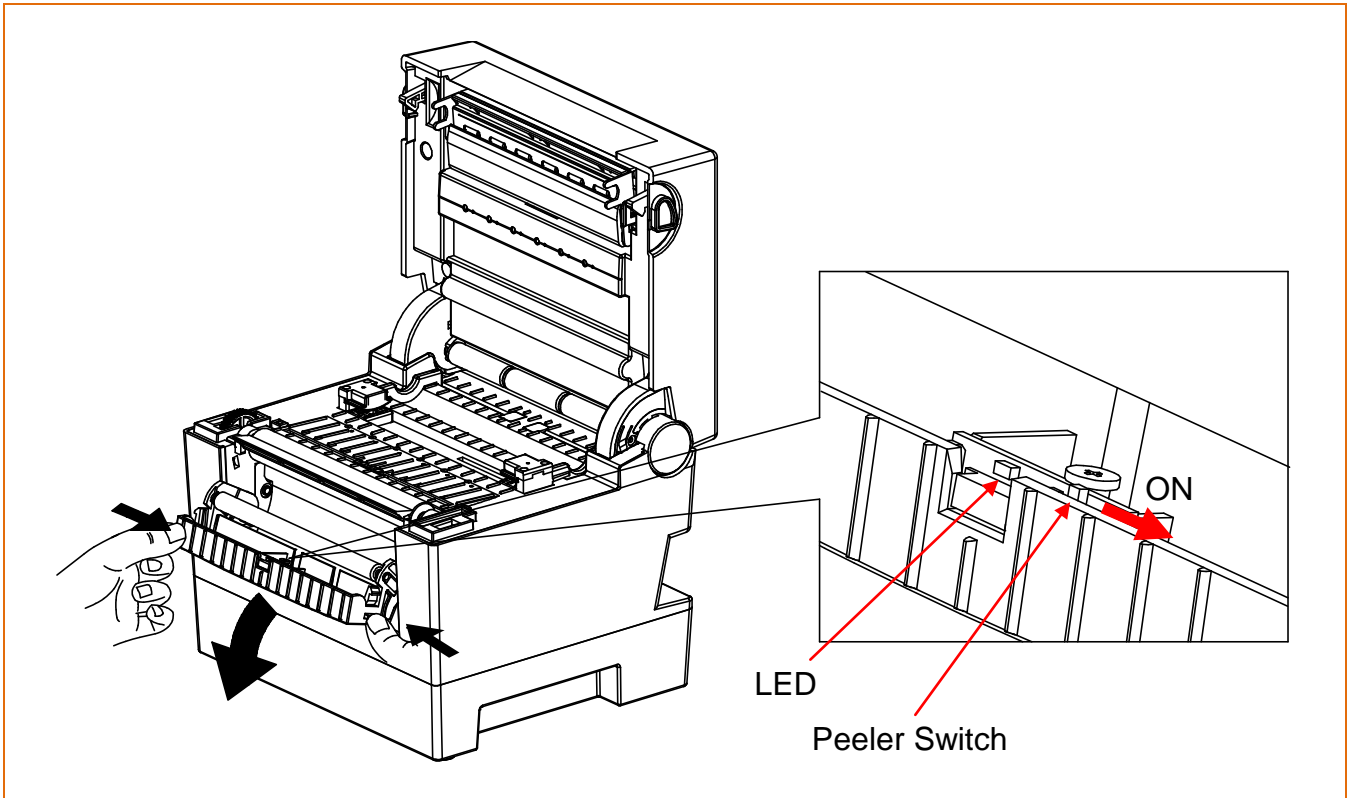
Contact the customer center if the printer does not execute print standby mode function.

5-10 Media Installation Method of Peeler (Option) Model

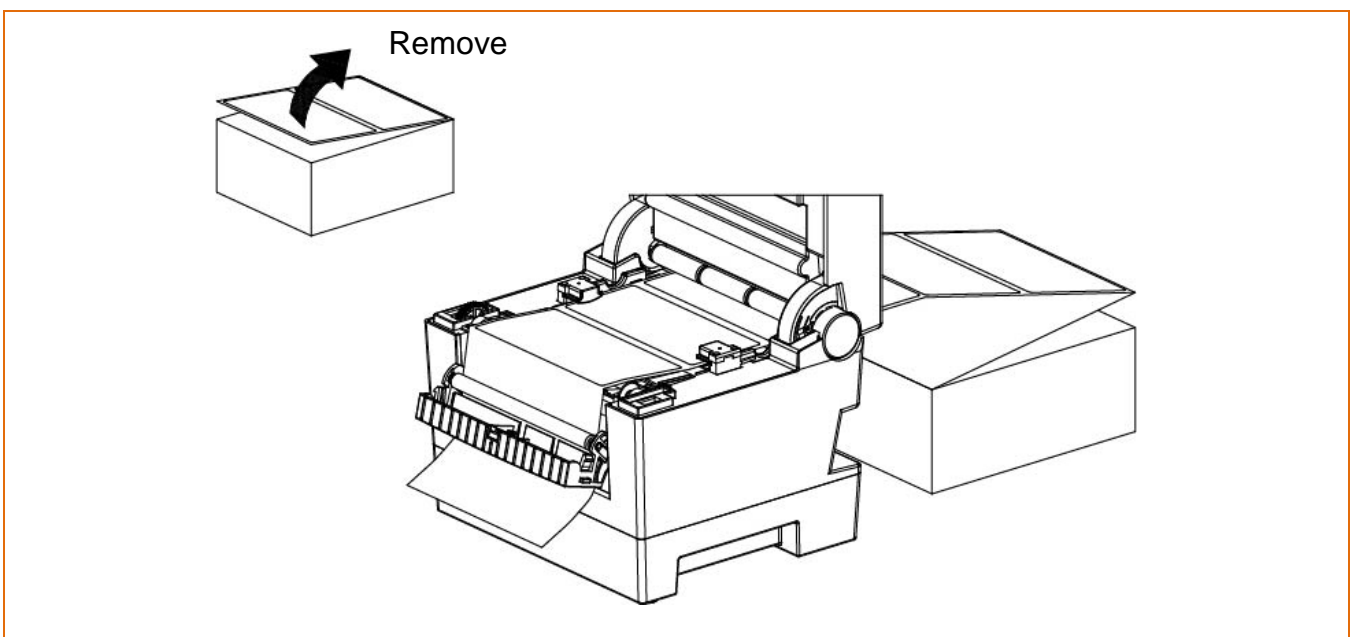
- Use a peeler to separate the printed media from the liner automatically.

To use peeler, install media in the following ways:

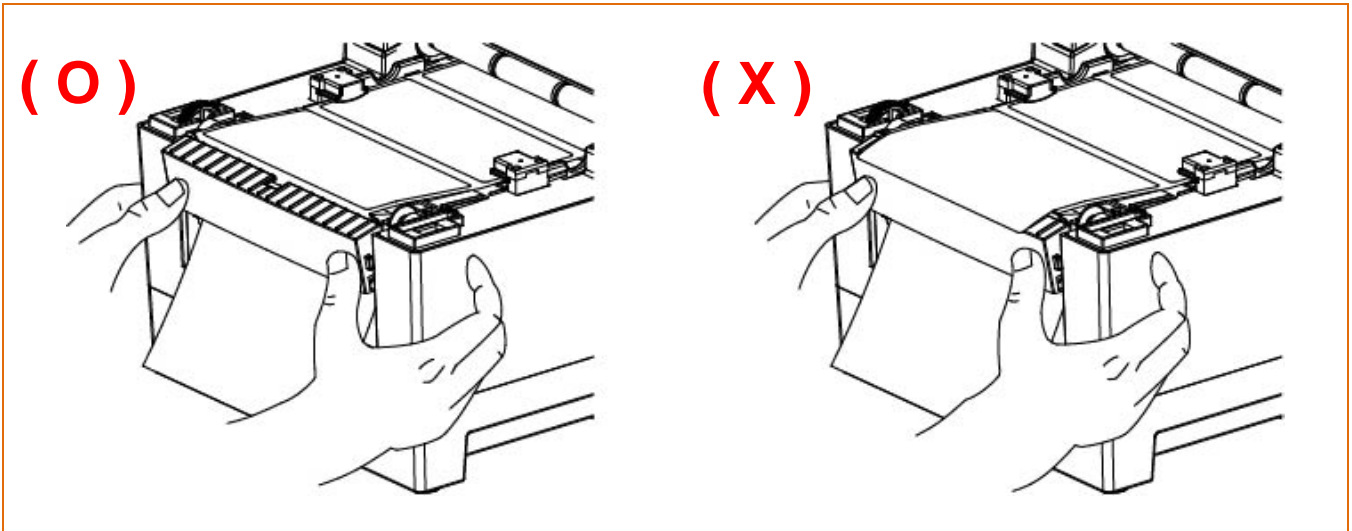
- 1) Open the media cover.
- 2) Open the peeler cover.
Set the peeler switch 'ON' position and check to LED has turned on.





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



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

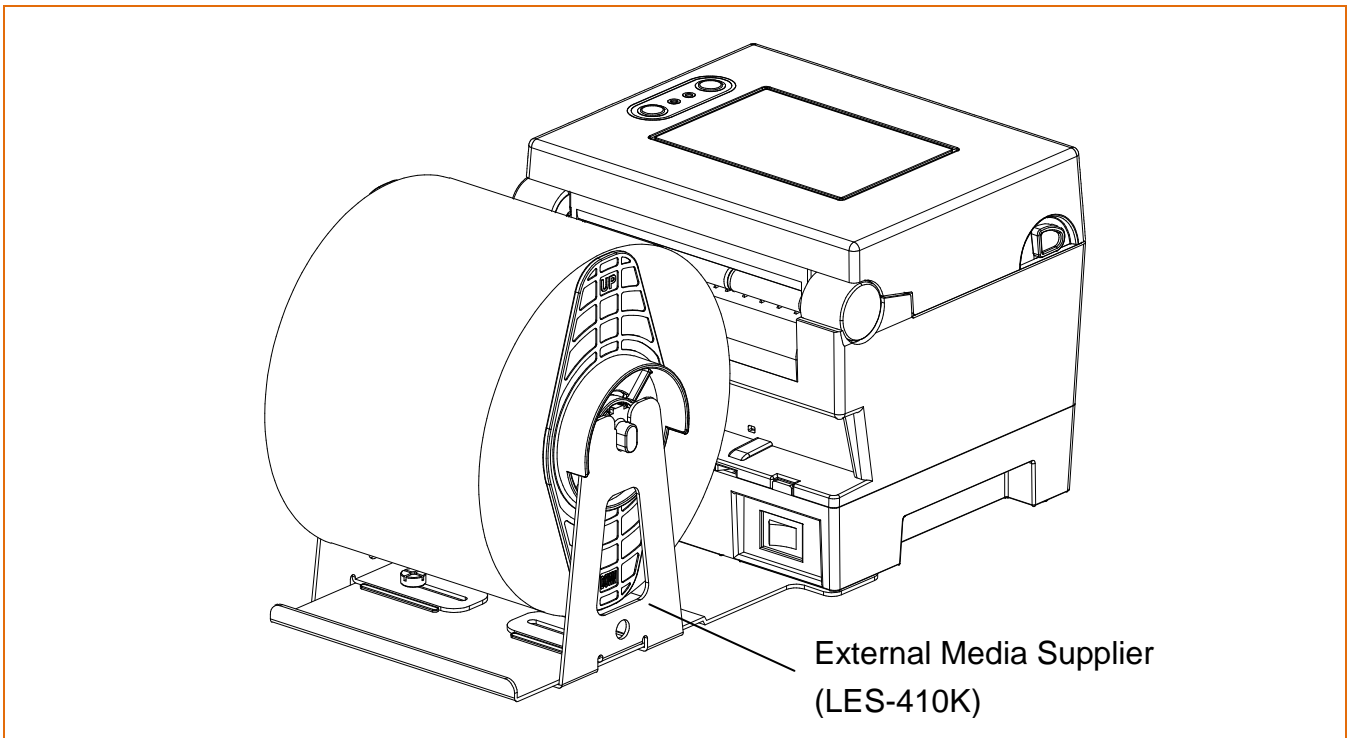



6) Close the media cover until a click sound is heard.

 Caution	<ul style="list-style-type: none">- When opening or closing the cover, be careful not to pinch your fingers.- The peeler function is only available for Gap media.- When the peeler is switched on, the next label will not be printed unless the printed label is removed from the peeler.- When the peeler is switched off, the peeler does not work.
 Warning	<p>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.</p>

5-10-1 When using Large media roll (Option)

Install the external media supplier(LES-410K) as shown below and adjust media holders to the media with Fix Tool.



 **Caution**

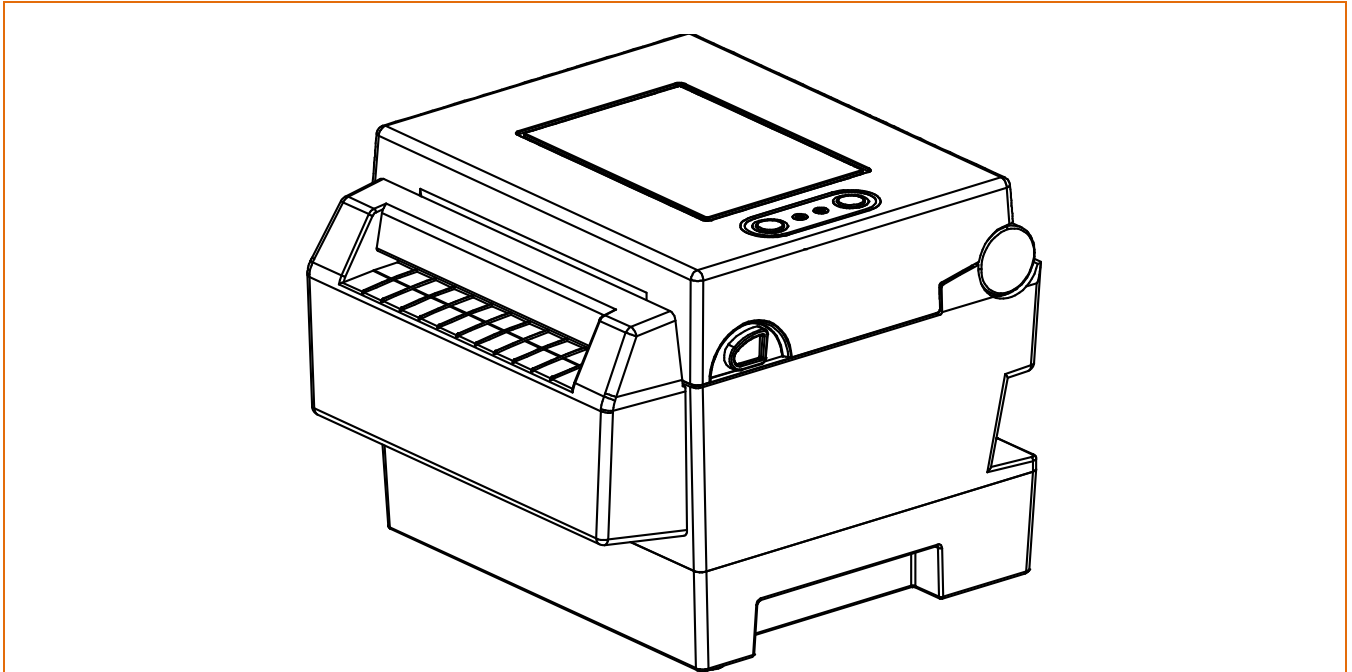
- Do not open the print cover while the printer is operating, otherwise the printer may be damaged.
- To prevent data loss, replace media only when the printer is not receiving any data.
- Be aware of physical damage caused by external media when operating the printer




5-11 Auto Cutter (Option)

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

Auto-Cutter can be controlled by command.

※ The media installation method is the same as media with no auto cutter.

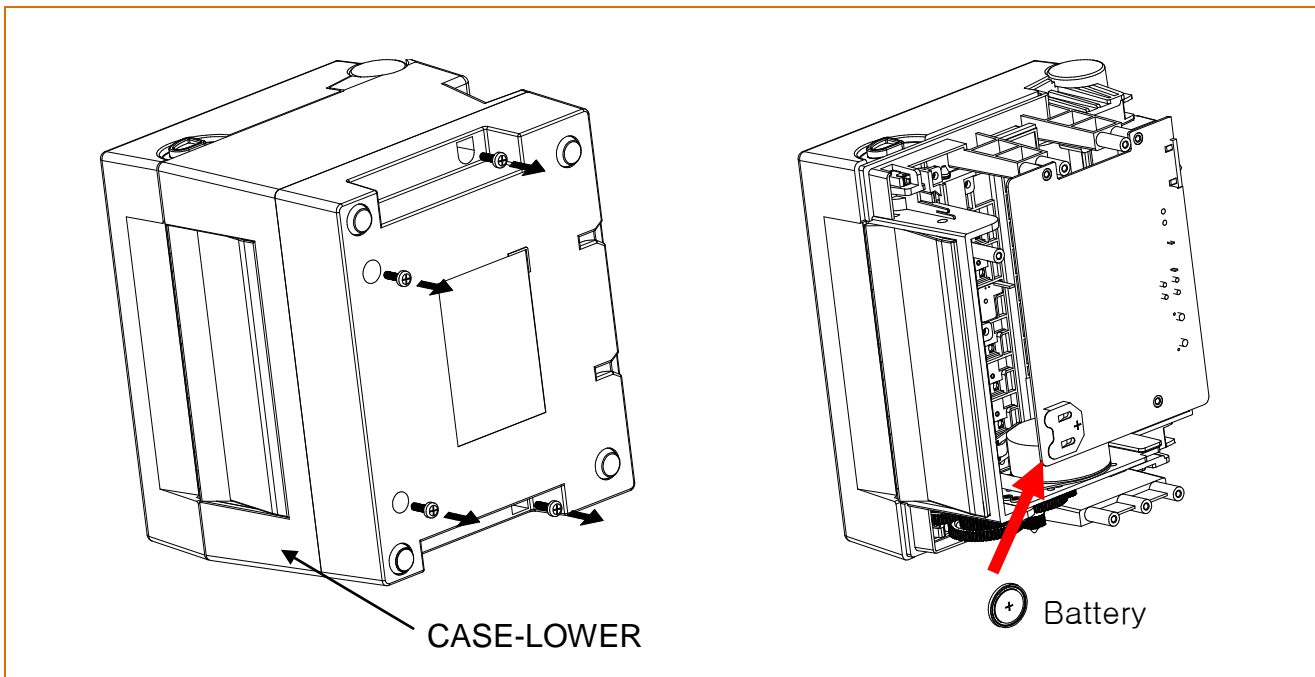


 <p>Note</p>	<ul style="list-style-type: none"> - Please refer CUT(Auto-cutter Enable/Disable) of Program Manual Explanation for more information. - Please refer Advanced Setting of Unified Label Utility-II Manual Explanation for more information.
 <p>Caution</p>	<ul style="list-style-type: none"> - When 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.
 <p>Warning</p>	<ul style="list-style-type: none"> - 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 print head gets very hot, so turn off the power and let it cool down completely. The hot print head can cause serious burns.

5-12 RTC(Real-Time Clock / Option)

• With the ability to print time and date on labels, you can change the setting values using the Unified Label Utility-II.

If the printer continuously prints the wrong time and date, the battery must be replaced.
If the battery is replaced, the time and date must be reset.



Caution

- For your safety, the printer's CASE-LOWER should always be closed. To replace the battery, remove the screw using a cross-point screwdriver (+) and open the CASE-LOWER.
- When recycling and storing the battery, it must be wrapped in an insulating material to prevent short circuits.
- Do not short circuit: this may cause heat and fire.
- Do not disassemble or heat the battery.

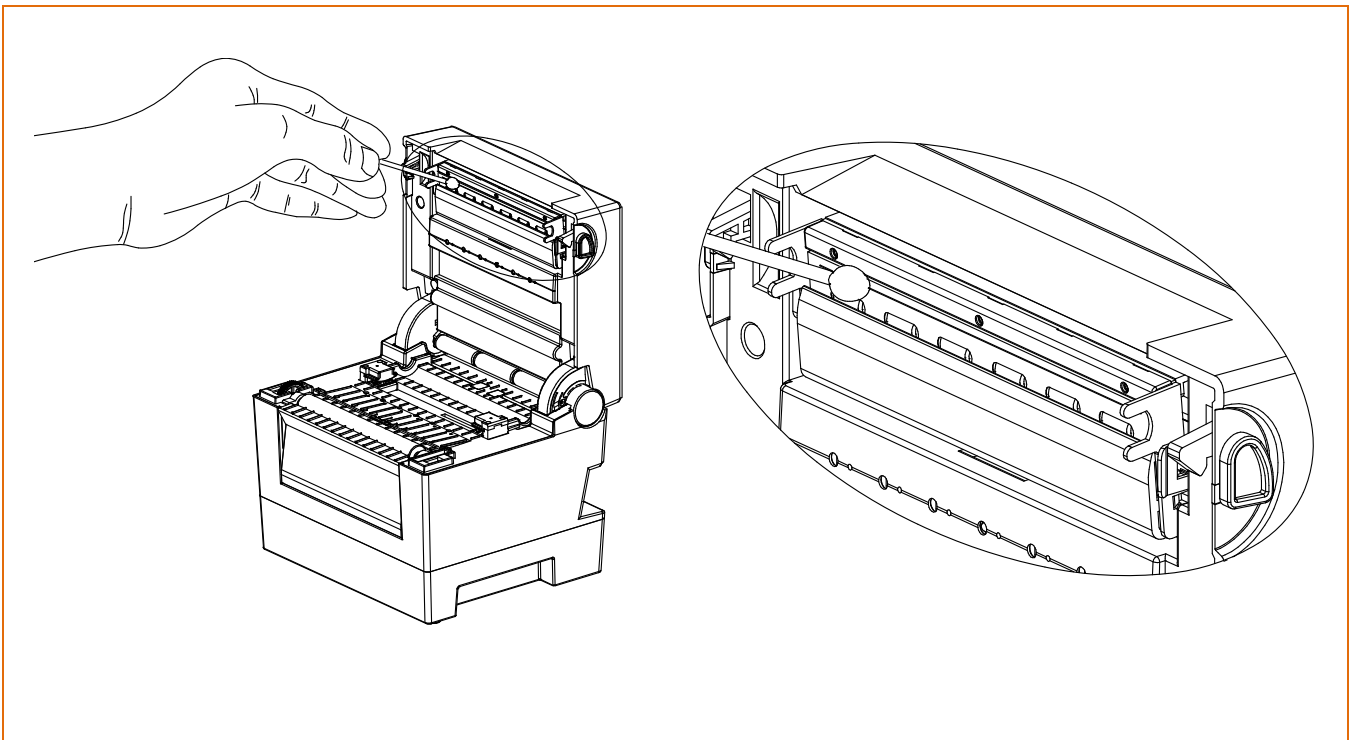
6. Printer Maintenance




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

When dirty, clean the print head as follows

6-1 Cleaning Printer Head

- Be sure to turn the printer off.
- 1) Open the media cover and then remove adhesive foreign substances or other pollution materials with the cloth or cotton swab soaked in alcohol for medical.
 - 2) After cleaning the head, do not use the printer until the alcohol used for cleaning evaporates completely. (1~2 min)

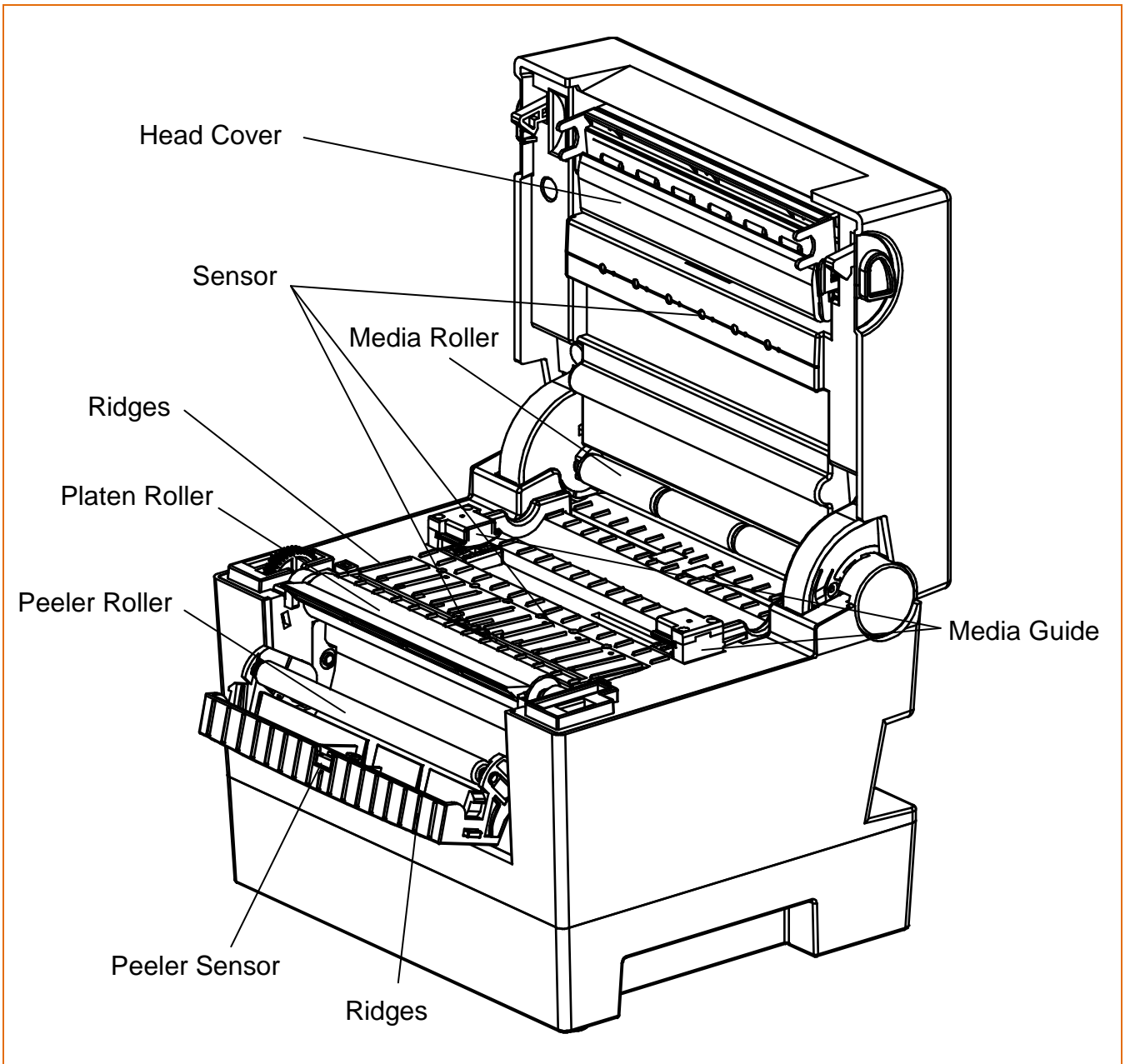


 Note	Perform the cleaning process each time the media roll is replaced to prevent print quality deterioration.
 Caution	<ul style="list-style-type: none"> - Be sure to clean after turning the printer off. - Be careful not to leave scratches in the print head. - The printer may be damaged. - Print head is very hot while the printer is printing, so clean the printer after cooling it sufficiently with power off.
 Warning	<p>Do not touch heated area of print-head when cleaning. Personal injury may result from static electricity, etc.</p>

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

• Be sure to turn the printer off.

- 1) Open the media cover and remove the media.
- 2) Remove any dust or foreign substance using dry cloth or cotton swab.
- 3) Soak the cloth or cotton swab in alcohol for medical use and use it to remove adhesive foreign substances or other pollution materials.



⚠ Caution

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

7. Appendix

7-1 Specifications

	Item	Description
Printer	Printing Method	Direct Thermal Printing
	Dot Density	SLP-DL410KV: 203 dpi(8 dot/mm) SLP-DL413KV: 300 dpi(11.8 dot/mm)
	Printing Width	SLP-DL410KV: Max 108 mm(Max. 4.25 inch) SLP-DL413KV: Max 105.7 mm(Max. 4.16 inch)
	Printing Speed	SLP-DL410KV: Max. 127 mm/sec(Max. 5ips) SLP-DL413KV: Max. 127 mm/sec(Max. 5ips)
	Printing Length	Up to 1,000mm
Media	Roll Width	15 ~ 118 mm (0.59 ~ 4.64")
	Roll	Max. 127 mm (Max. 5")
	Core	25.4 ~ 38.1 mm (1" ~ 1.5")
	Thickness	0.06 ~ 0.20mm
Cigar Jack Cable	Input Rated Voltage/Current	DC 12V / 10A(Max)
	Output Rated Voltage/Current	DC 12V / 6A
DC/DC Converter	Input Voltage/Current	DC 12V / 6A
	Output Voltage/Current	DC 24V(Setting Voltage Range: 24.2~24.6V / 2.5A)
Usage Conditions	Temperature	0 ~ 40 °C (Operating) -20 ~ 60 °C (Storage)
	Humidity (except for media)	10 ~ 80 % RH (Operating) 10 ~ 90 % RH (Storage)



Note

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



Caution

- 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

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

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Caution

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

※ Class A devices (broadcasting and communication devices for business)

This device is a suitability-evaluated device for use in a work environment, and there is a concern of radio interference when used in a home environment.

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.

Revision History

Ver.	Date	Page	Description
1.00	17.06.20	-	New