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BIXOLON®

User's Manual XD3-40d

THERMAL LABEL PRINTER Ver. 1.01



http://www.bixolon.com

Introduction

XD3-40d series printers have been designed to be connected to various types of electronic devices such as computer peripheral devices.

<u>* The main features of the printer are as follows</u>

- 1. Maximum 127mm/s printing speed.
- 2. 4inch THERMAL LABEL PRINTER
- 3. 181 x 222 x 168 (W x D x H)
- 4. Support for multiple interfaces (Standard: USB, Option: USB & Serial & Ethernet)
- 5. Easy media loading
- 6. Can print a range of barcodes
- 7. Supporting peeler option

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

<u>* Use only authorized supplies that can be trusted!</u>

- 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.

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

Symbol Information

	DC (Direct current)
Ň	Warning, Caution
	USB
율	Ethernet

Table of Contents

1. Content Confirmation	8
2. Product Part Names	9
3. Installation & Usage	
3-1 Printer Installation Placings	11
3-2 Power Connection	
3-3 Interface	
3-3-1 Standard Interface(USB only)	15
3-3-2 Option Interface(USB & Serial & Ethernet)	
3-4 Media Installation	
3-5 Control Panel	
3-6 Feed Button Operations	20
4. Self-test	21
5. Detailed features	22
5-1 Stand-alone Configuration Mode	22
5-1-1 start Stand-alone Configuration Mode and execute each function	
5-1-2 Function List of Stand-alone Configuration Mode	
5-2 Media Length Measurement	
5-3 Pause/Resume	23
5-4 Gap Sensor Auto Calibration Mode	23
5-5 Black mark Sensor Auto Calibration Mode	23
5-6 Media Sensor Manual Calibration	24
5-7 Data Dump Mode	25
5-8 Media Installation Method of Peeler(Option) Model	
5-9 Using Fan-Fold or External Media	29
5-9-1 Printer Preparation	
5-9-2 When using Fan-Fold media	
5-9-3 When using Large-Capacity media roll(Option)	31
6. Cleaning Printer	32
6-1 Cleaning Head	
6-2 Replacing Roller	
6-3 Cleaning Sensors, Roller or/and media Path	
7. Appendix	35
7-1 Specifications	
7-2 Label Types	

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 fonts and facilitate their usage as device fonts.

5. Ethernet interface Manual

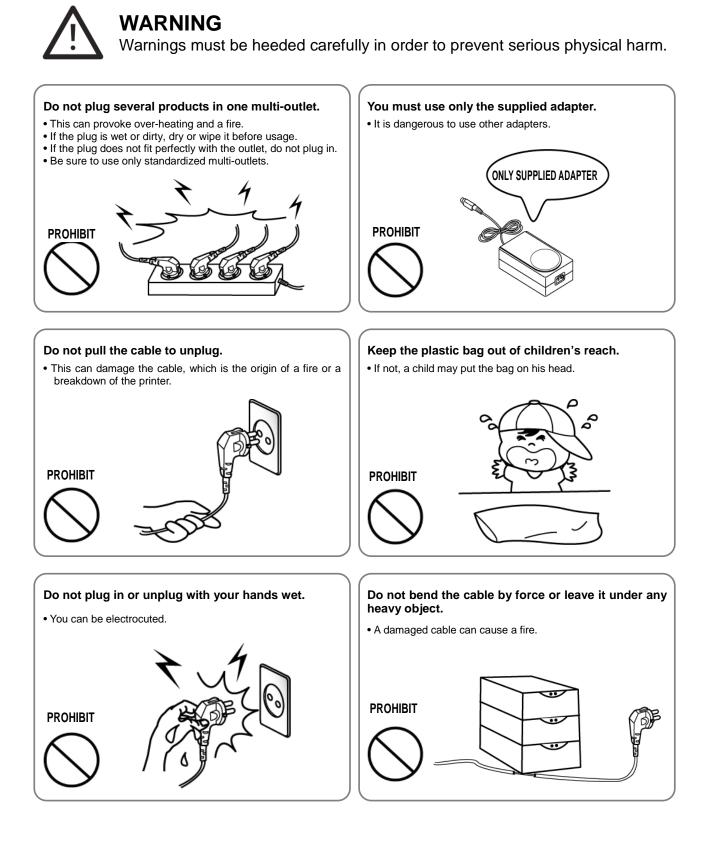
This manual provides information on the configuration and usage of ethernet interface.

6. 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

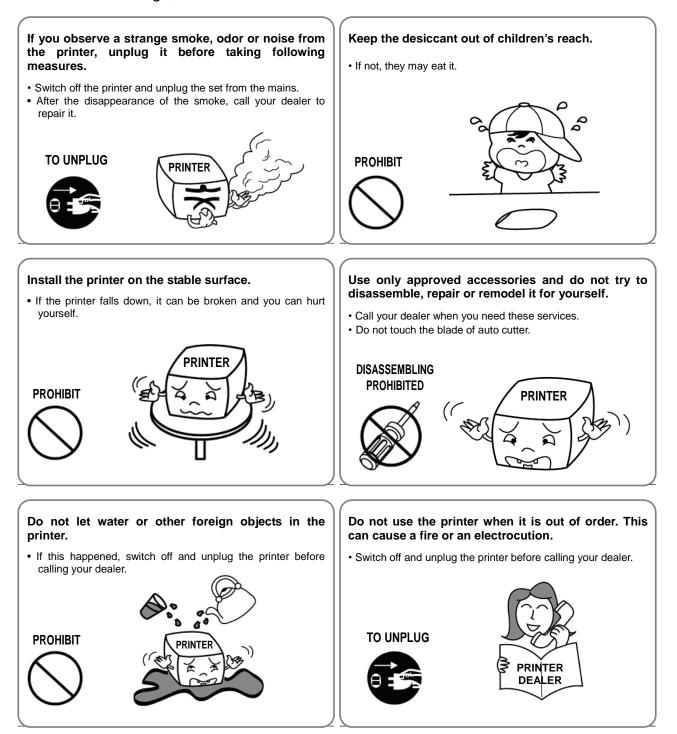
In using the present appliance, please keep the following safety regulations in order to prevent any hazard or material damage.





CAUTION

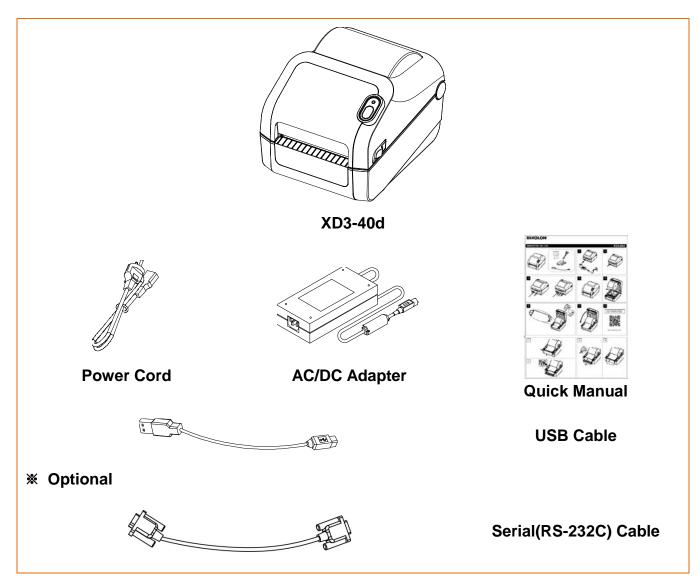
Cautions must be heeded in order to prevent minor injuries, equipment damage, or data loss.



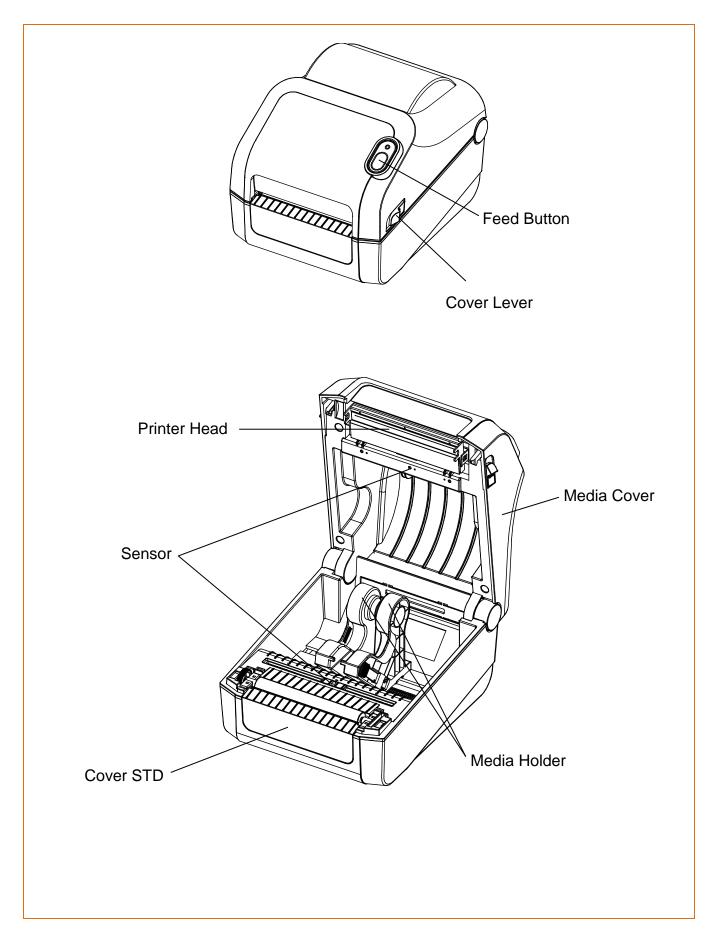
1. Content Confirmation

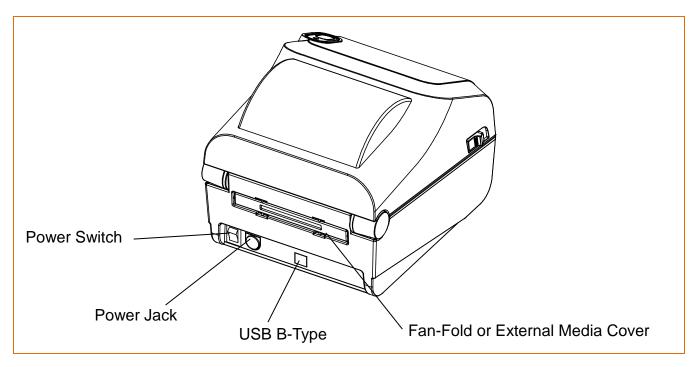
The following items should all be contained in the printer package.

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



2. Product Part Names





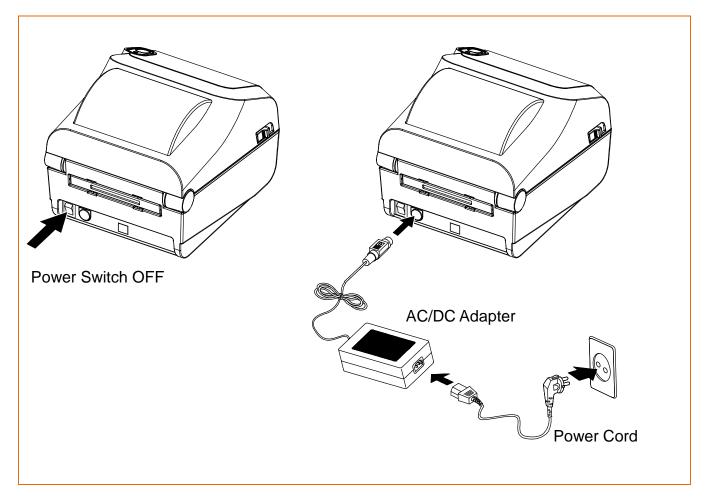
3. Installation & Usage

3-1 Printer Installation Placings

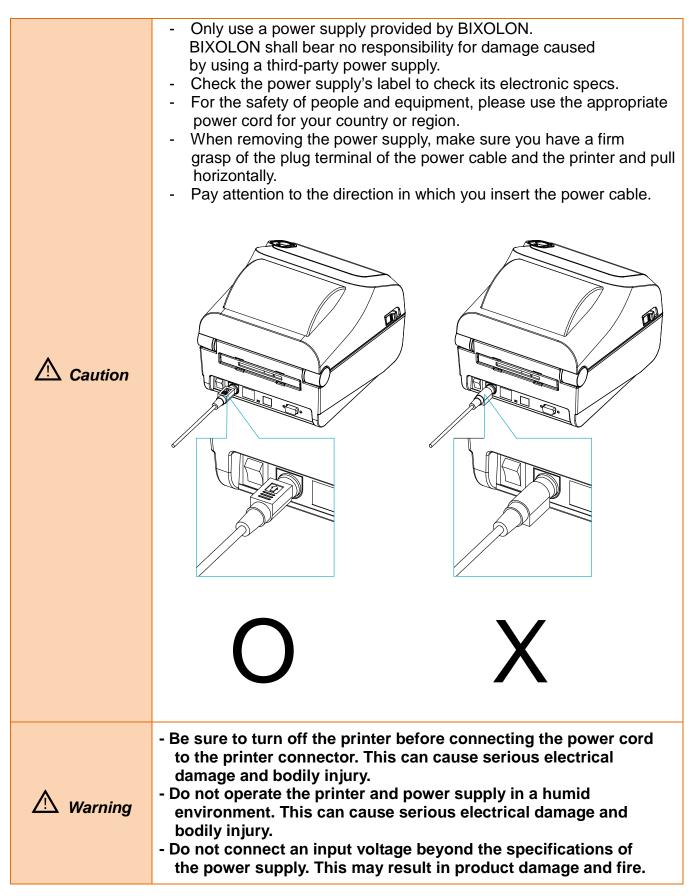
- Install the printer in a location that meets the following conditions.
 - Allow sufficient space around the printer for proper ventilation.
 - Install the printer on a flat and level surface.
 - Avoid humid environment.

3-2 Power Connection

• Connect power to the printer as shown below.



- 1) Turn off the printer power switch.
- 2) Check to see that the AC/DC adapter voltage matches that of the power source.
- 3) Connect the AC/DC adapter jack to the printer power connector.
- 4) Connect the power cord to the AC/DC adapter.
- 5) Connect the power cord to a power source/outlet.



3-3 Interface

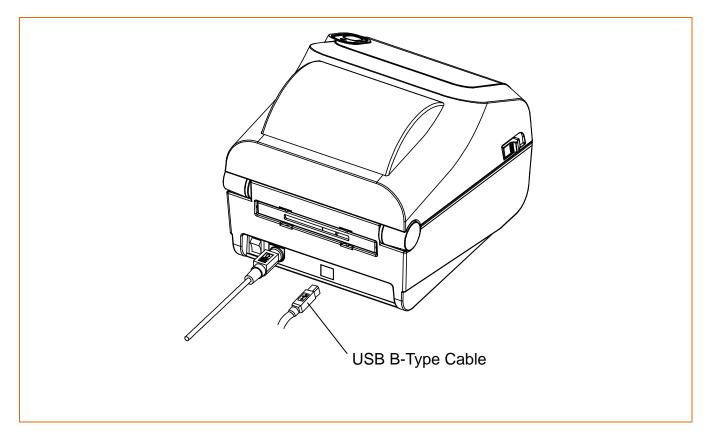
⚠ Note	Shielded cables must be used to prevent radiation and reception of electrical noise. Use the shortest possible communication cable to minimize the detection of electrical noise in the cable. - Serial(RS-232C) Cable (1.8m or less recommended) - USB B-Type Cable (1.8m or less recommended) - LAN(Ethernet) Cable (3m or less, CAT-5 or higher UTP Cable)
A Caution	 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.
A Warning	After turning off the power switch of printer, connect and disconnect the communication cable. This can cause serious electrical damage and bodily injury.

3-3-1 Standard Interface(USB only)

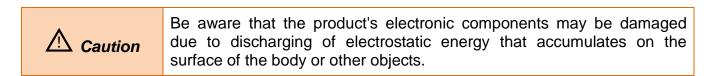
Connect the interface cable as shown below.

This printer supports the following communications interface standards.

- USB B-Type Cable



- 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.

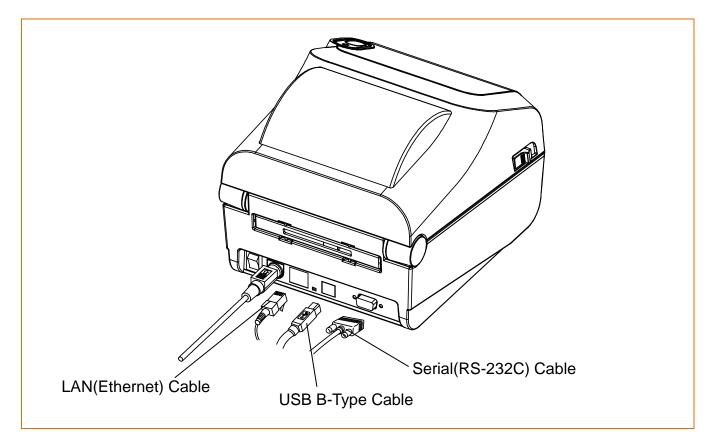


3-3-2 Option Interface(USB & Serial & Ethernet)

Connect the interface cable as shown below.

This printer supports the following communications interface standards.

- Serial(RS-232C) Cable
- LAN(Ethernet) Cable
- USB B-Type Cable



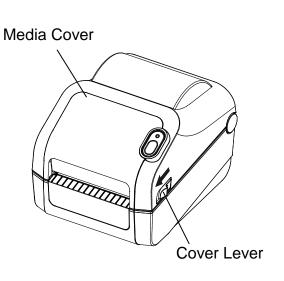
- 1) Turn off the power switch.
- 2) Connect the communication cable to the printer communication port to be used.
 - Connect the serial(RS-232C) cable to the serial port and tighten the screw on both sides.
 - Connect the LAN(ethernet) cable to the ethernet port.
 - Connect USB B-Type cable to the USB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

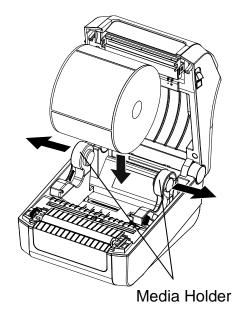


Be aware that the product's electronic components may be damaged due to discharging of electrostatic energy that accumulates on the surface of the body or other objects.

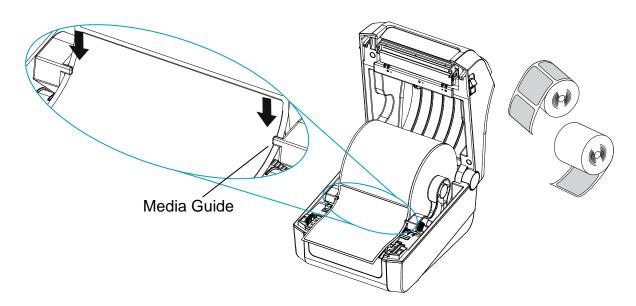
3-4 Media Installation

- 1) Pull the cover levers on both sides of the media cover and open the media cover.
- 2) Spread the media holder and insert media as shown.

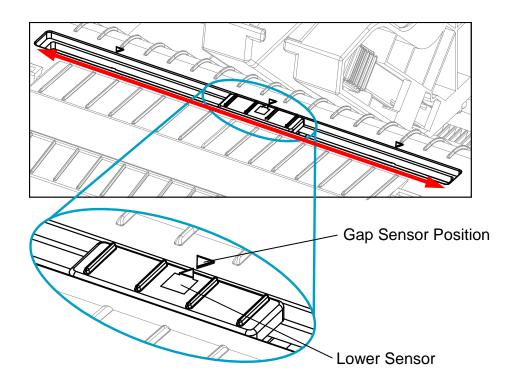




3) Whether the media label is wound inwards or outwards, its printing surface must face up.

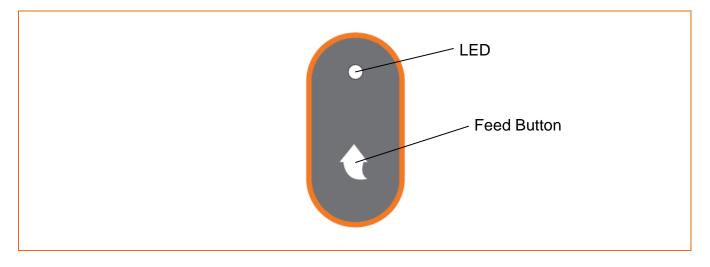


- 4) If you use gap media, please move the lower sensor to the arrow position as shown below.
- 5) If you use black mark or notch media roll, please lift up the media and match the sensor position adjust the black mark or notch hole.



A 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 Control Panel



Feed button: Feed media or pause the print job.

LED: The current printer status can be viewed. (Refer to below)

The current printer status can be viewed via the printer's LED display.

- 1) Green LED on
 - The printer waits for the data from host (PC) in normal mode.
- 2) Green LED blinking
 - The printer has stopped by pressing feed button. It restarts printing when pressed again.
- 3) Orange LED on
 - It means media gap/black mark sensing error.
 It becomes on when the printer fails to detect the media or media jam occurred.
 When fails to detect the media correctly, use auto calibration function.
- 4) Orange LED blinking
 - No media. Make sure the media is loaded correctly.
- 5) Red LED on
 - The printer cover is open.
- 6) Red LED blinking
 - TPH (Thermal Printing Head) overheated.

3-6 Feed Button Operations

• Feed button can be used for various purposes as follows.

1) Feed Label

In print standby state, pressed for shorter than 3 seconds, the printer feed one label.

2) Stand-alone Configuration Mode

In print standby state, pressed for longer than 3 seconds, the printer enters into stand-alone configuration mode. Please refer to 5-1 for details.

3) Pause and Resume printing

If pressed while printing labels, printing toggled between pause and resume.

4. Self-test

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

(Remove the printed label from peeler before using the self-test if using the printer's label peeler option.)

The self-test checks the following;

- 1) Make sure that the media roll has been installed properly.
- 2) Turn on the power while holding down the feed 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 out, a printer enters into print standby state.



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

5. Detailed features

5-1 Stand-alone Configuration Mode

• Various modes can be executed by using button and LED status.

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

- 1) Make sure that a printer is in print standby state.
- 2) Press the feed button for about 3 seconds, then the LED changes to orange color.
- 3) Release the feed button, then the printer starts the stand-alone configuration mode and 6 numbers of LED status changes sequentially.
- 4) When the feed button is pressed at specific LED status, the corresponding operation will be executed.

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

Sequence	LED		Printer Operation	
Number	Color	Status	Finiter Operation	
1	Green	Blink 4 times	Self Test	
2	Orange	Blink 4 times	Factory Reset and Gap Calibration	
3	Red	Blink 4 times	Factory Reset and Black Mark Calibration	
4	Green	Keep On 3 seconds	Reserved	
5	Orange	Keep On 3 seconds	Data Dump Mode	
6	Red	Keep On 3 seconds	Demo Mode	

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

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

5-2 Media Length Measurement

• The printer needs to have the exact length of currently installed media to make a proper print image.

For this, the printer automatically starts media length measurement mode in the following conditions.

- 1) When the printer has no measure length, for example first feeding after installation.
- 2) When the detected label length differs from the measured value.

In this mode, the printer feeds 2 or 3 labels to measure the exact length of label and saves the measured value on printer's non-volatile memory.

5-3 Pause/Resume

• Press feed button to pause at the middle of labels printing.

1) Press feed button once.

2) Printer stops after on-going printing and green LED is blinking

3) Press feed button once again. It resumes printing in a queue.

	Contact the customer center if the printer does not execute pause/resume function
--	---

5-4 Gap Sensor Auto Calibration Mode

• Gap sensor auto calibration mode is used when the printer does not detect a gap on the label 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) Use stand-alone configuration mode, sequence number 2 (refer to 5-1) - Sequence number 2: Gap media auto calibration mode



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

5-5 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 label 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) Use stand-alone configuration mode, sequence number 3 (refer to 5-1)

- Sequence number 3: Black mark media auto calibration mode



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 gap(or black mark) auto calibration mode has been executed.

Users can calibrate sensor parameters in detail by using the utility program provided by the manufacturer.

The utility can be obtained from the Internet via the BIXOLON website <u>www.bixolon.com</u>.

Please make sure the printer is connected and execute the utility program. Please press the calibration setting manager button after setting the interface type.

		Sensing Value Distribution	STEP 1 : Start
Interface Type	User Setting	0 32 : 0000	Sensing Type :
Serial Parallel @ USB	Configure Printer Setting	64 : 0000 96 : 0000	
Ethernet Bluetooth	Configure Print Quality	128 : 0000 160 : 0000	Label Length : (mm)
Communication Setting	Calibration Setting Manager	0 192 : 0000 224 : 0000	150
-		256 : 0000	Check Sensing Value
LPT Port LPT3: -	File Transfer	C 320 : 0000 C 352 : 0000	Check Sensing Value
COM Port COM3; -	PCX File Downloader	384 : 0000	
	File Transfer	0 416 : 0000 0 448 : 0000	STEP 2 : Save
Baud Rate 115200 V		C 480 : 0000 C 512 : 0000	Middle Gap Value :
Data Bits 8	Printer Tool	C 544 : 0000 C 576 : 0000	0
Parity None -	Printer Tool	608 : 0000	Gap Count :
Stop Bits 1	Communication Tool	672 : 0000	7 -
192 . 168 . 192 . 123	SLCS Test Tool	0 704 : 0000 0 736 : 0000	Save Calbration
IP 192 . 168 . 192 . 123		768 : 0000 800 : 0000	Sere campieson
Port 9100	RFID	832 : 0000 864 : 0000	
	Set Configuration Write/Read	0 896 : 0000 0 928 : 0000	Cancel
Connect Disconnect		C 960 : 0000	
	EXIT	© 992 : 0000 © 1024 : 0000	Cancel Calibration

- 1) Select the sensing type and input the label length(mm) and click on "Check Sensing Value" button then printer starts to calibrate.
- 2) After calibration, the scanned 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" button.

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 correctly.

In this mode, the received data will be printed in hex format.

Use stand-alone configuration mode, sequence number 5(refer to 5-1) to start data dump mode.

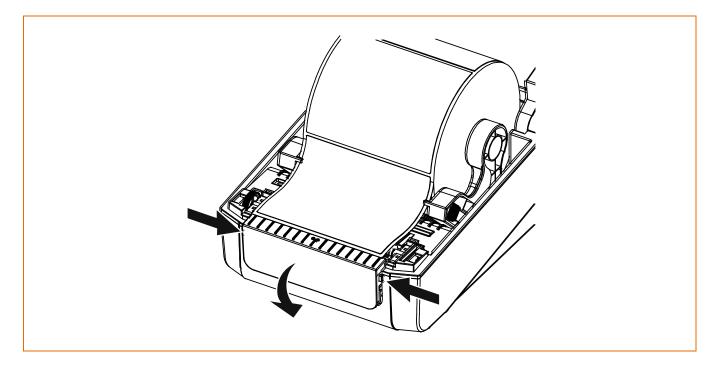
Turn the printer off and on to recover to the print standby mode.

▲ Caution

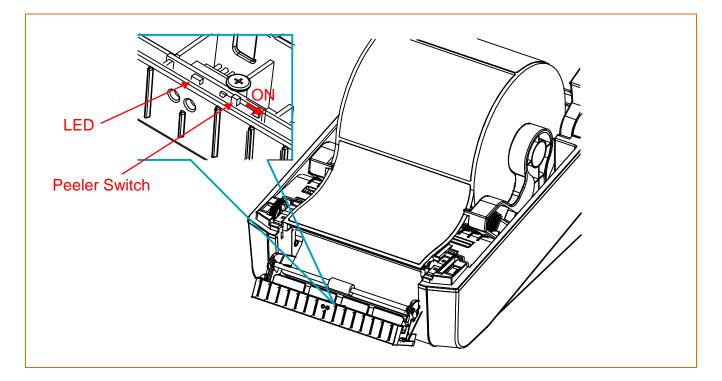
Contact the customer center if the printer does not enter data dump mode.

5-8 Media Installation Method of Peeler(Option) Model

- Use a peeler to automatically separate the printed media from the liner. For peeler model, install media in the following ways:
- 1) Open the media cover.
- 2) Open the peeler cover.

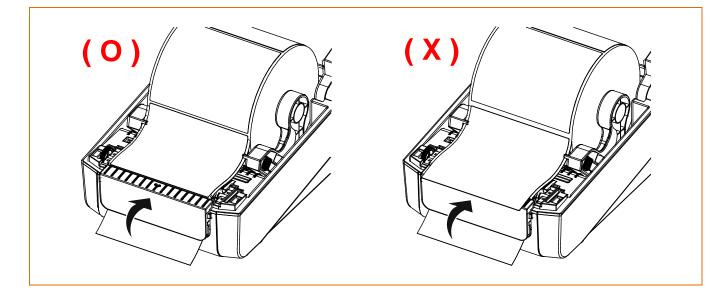


3) Set the peeler switch to the 'ON' position and check to see that the LED has turned on



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

5) Close the peeler cover.



- 6) Close the media cover until a click sound is heard.
- 7) Turn the printer off and back on.

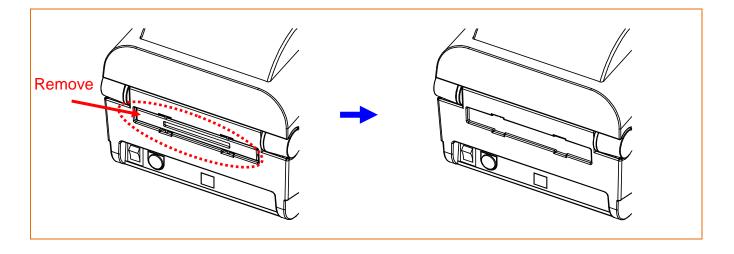
A Warning	 When the peeler is switched off, the peeler does not work. While the printer is operating, the print head gets very hot, so turn off the power and let it cool down completely. The hot print head can cause serious burns.
⚠ Caution	 When opening or closing the cover, be careful not to pinch 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. The peeler function is only available for label media. Turn the printer off before peeler switch on / off When the peeler is switched on, the next label will not be printed unless the printed label is removed from the peeler.

5-9 Using Fan-Fold or External Media

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

5-9-1 Printer Preparation

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

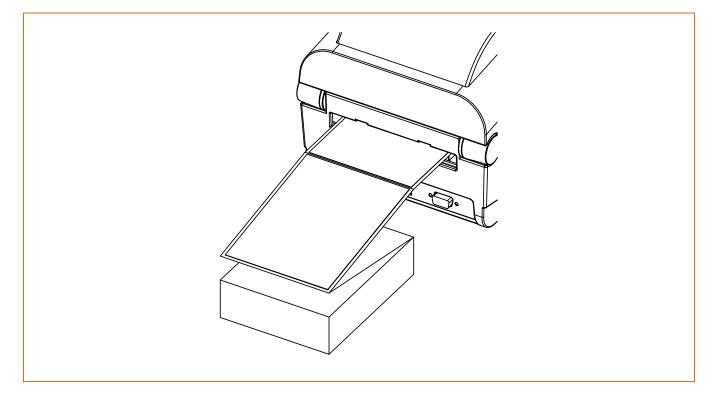




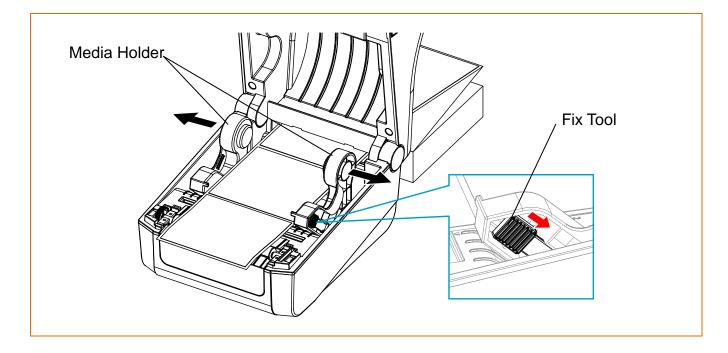
Take care not to injure the hands and/or any other part of the body when performing this step

5-9-2 When using Fan-Fold media

1) Insert the media at the rear of the printer as shown below and open the media cover.

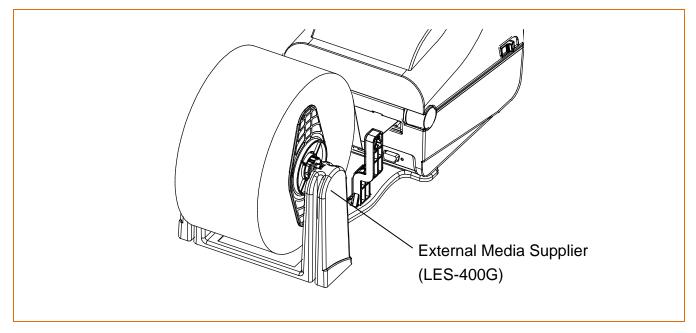


2) Adjust media holders to the media width by using the fix tool.



5-9-3 When using Large-Capacity media roll(Option)

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



⚠ 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.
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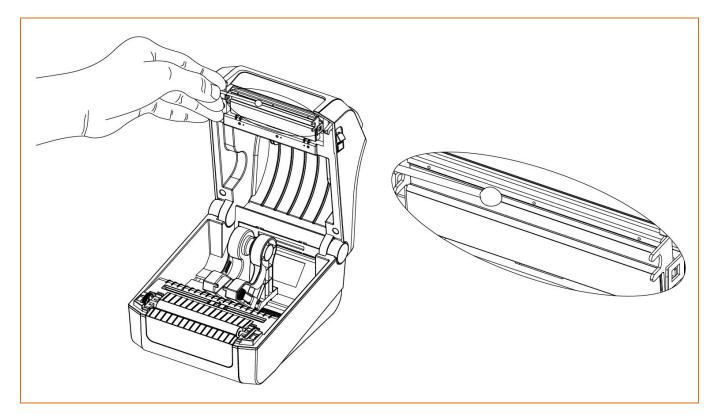
6. Cleaning Printer

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 Head

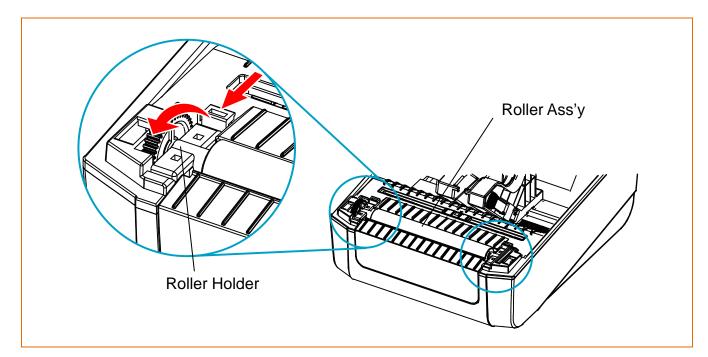
- 1) Open the paper cover and clean the printhead using the cloth or cotton swab soaked in alcohol for medical.
- 2) After cleaning the head, do not use the printer until the alcohol used for cleaning evaporates completely. (1~2 min)



▲ Note	Perform the cleaning process each time the media roll is replaced to prevent print quality deterioration.
⚠ Caution	 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.
A Warning	Do not touch heated area of print–head when cleaning. Personal injury may result from static electricity, etc.

6-2 Replacing Roller

- 1) Open the media cover and remove the media.
- 2) Pull the roller holders and separate the roller assembly.

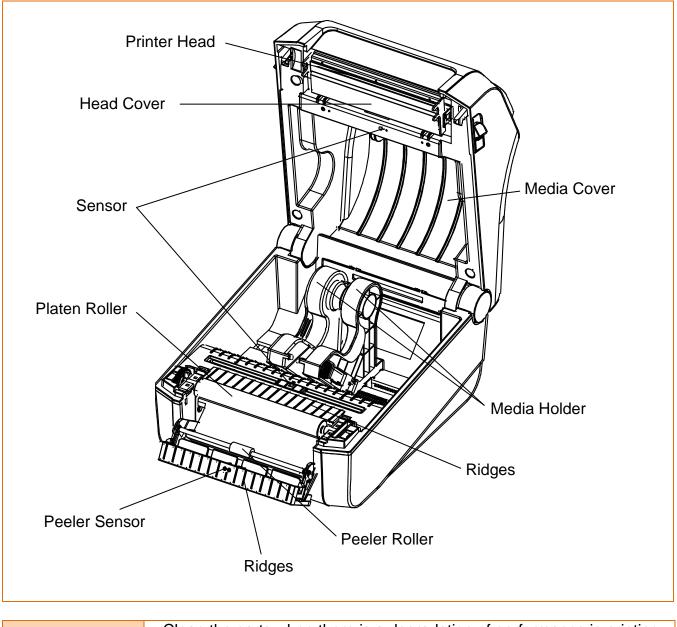


3) Assemble new roller assembly in reverse order.



6-3 Cleaning Sensors, Roller or/and Media Path

- 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.



	- Clean the parts when there is a degradation of performance in printing
⚠ Caution	quality or media detection.After cleaning the parts, do not use the printer until the alcohol evenerates completely.
	evaporates completely (1~2 min) and the printer has completely dried

7. Appendix

7-1 Specifications

ltem		Description	
Printer	Printing Method	Direct Thermal Printing	
	Dot Density	203 dpi (8 dot/mm)	
	Printing Width	Max. 104 mm (Max. 4.09")	
	Printing Speed	Max. 127 mm/sec (Max. 5ips)	
Media	Roll Width	15 ~ 118 mm (0.59 ~ 4.64")	
	Roll	Max 127 mm (Max. 5")	
	Core	25.4 ~ 38 mm (1" ~ 1.5")	
AC Adapter	SMPS Input Voltage	AC 100 - 240V	
	Frequency	ncy 50/60 Hz	
	SMPS Output Voltage	DC 24V ±5%	
	SMPS Output Current	2.5A	
Usage Conditions	Temperature	0 ~ 40 ℃ (Operating)	
		-20 ~ 60 ℃ (Storage)	
	Humidity	10 ~ 80 % RH (Operating)	
	(except for media)	10 ~ 90 % RH (Storage)	

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

Warning - U.S.A

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.

ii) Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

iii) 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.

Notice - Canada

i) 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.

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.

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".

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	14.06.19	-	New
1.01	09.12.19	32	Modified how to clean the printhead