



sewoo

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MODEL : LK-B31
4" DESKTOP LABEL PRINTER

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Disposal of Old Electrical&Electronic Equipment(Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronics equipment. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

1. Safety Caution

For higher reliability and safety, consider the following precautionary measures. Read and follow the instructions carefully before running of the product.

Indication



Prohibition



Must follow



Do not disassemble



Unplug the power from the outlet



Grounding to prevent electric shock

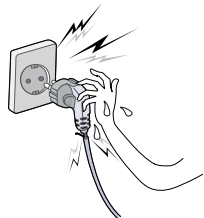


Do not handle the product with wet hands

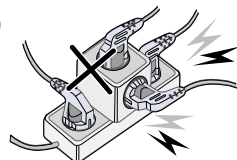


WARNING

Failure to follow these instructions could result in fire, electric shock, or other injuries, or property damage



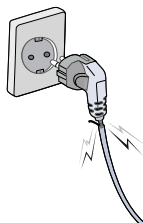
Do not pull or touch the power plug with wet hands.
(Potential risk of electric shock or fire)



Do not overload the power plug into one outlet.
(Potential risk of electric shock or fire)



Do not bend the wire and do not allow the wire to be pressed by heavy object.
(Potential risk of electric shock or fire)

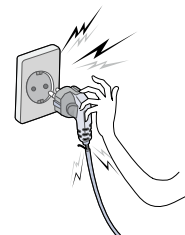


If a power plug is broken or a plug is cut or worn, do not use it.
(Potential risk of electric shock or fire)

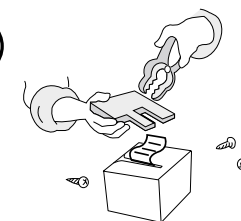


WARNING

Failure to follow these instructions could result in fire, electric shock, or other injuries, or property damage



Do not pull out the power plug to turn off the product.
(Turn off the power at installation, transportation, wiring and inspection.)

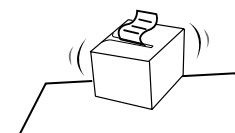


Do not disassemble, repair or modify the product.
(Potential risk unit malfunction, electric shock or fire. When the product needs to be repaired, please contact in place where you ordered.inspection.)



WARNING

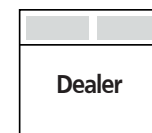
Failure to follow these instructions could result in fire, electric shock, or other injuries, or property damage



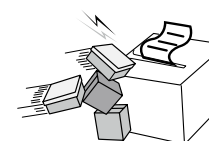
Do not install the product in uneven or inclined surface.
(You may get hurt and it can be broken when it falls)



Keep product away from the water and other material.
(Potential risk of discoloration or electric shock)

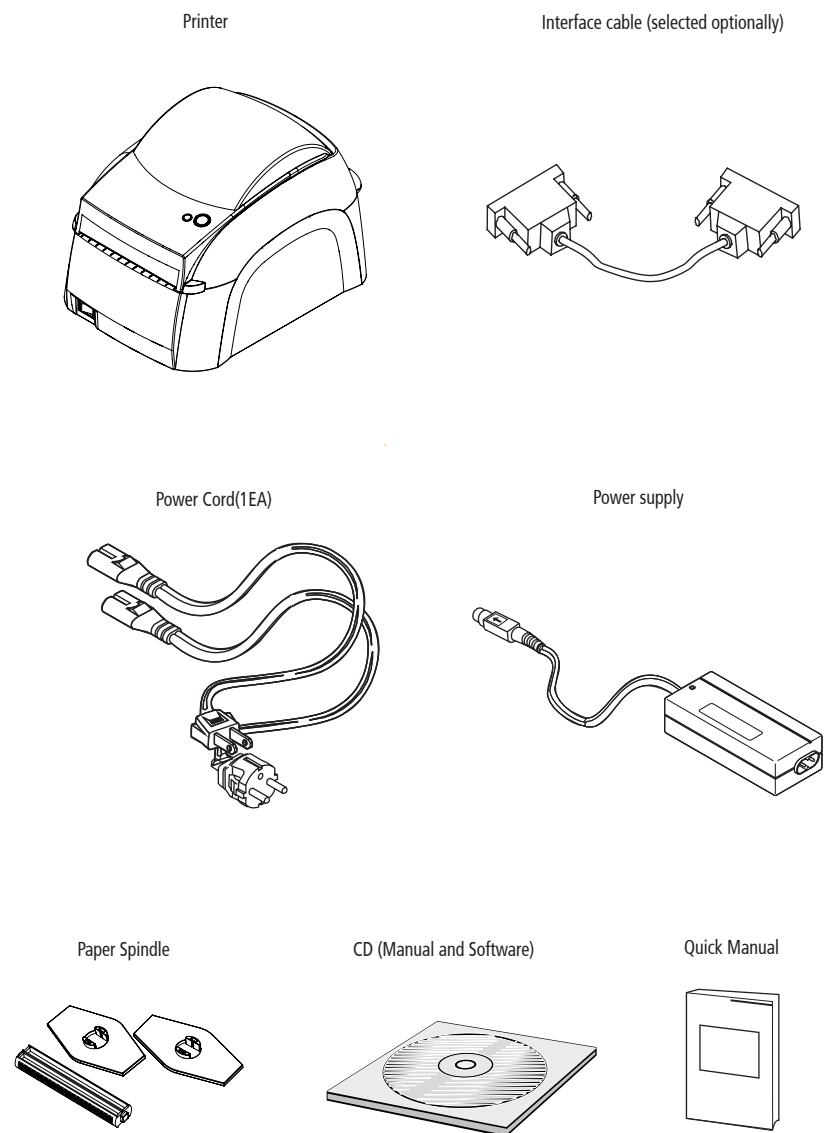


If the product that needs to be repaired, please contact in place where you ordered.
(Potential risk of fire or unit malfunction)

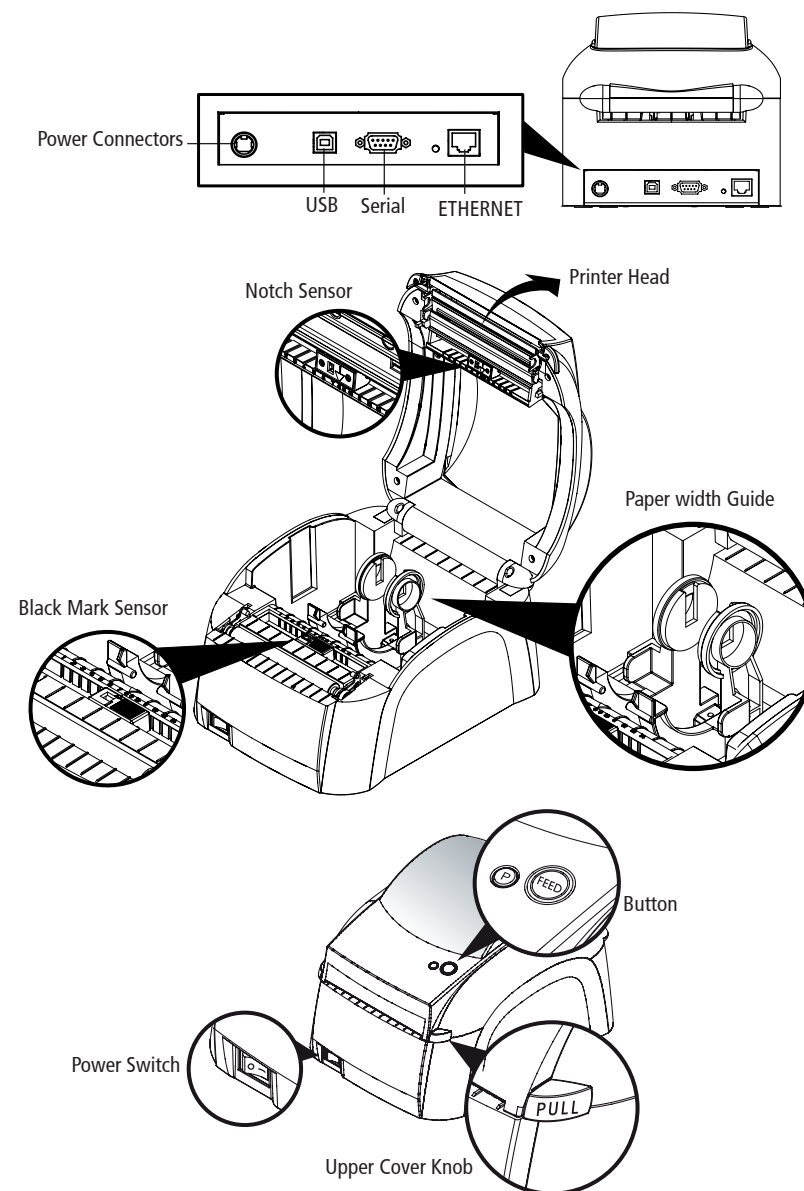


Please do not give excessive shock.
(Potential risk of fire or unit malfunction)

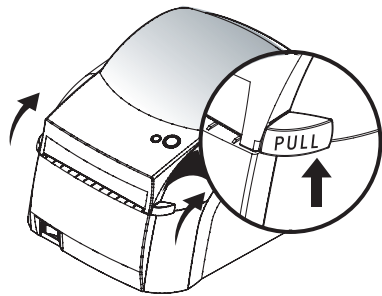
2. Unpacking



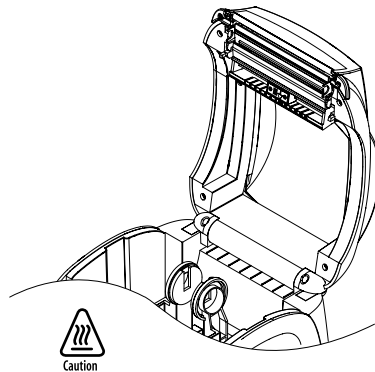
3. Printer identification



Opening the printer

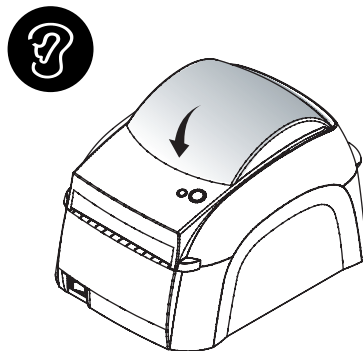


Open the upper cover by pushing the knob in the direction of the arrow.



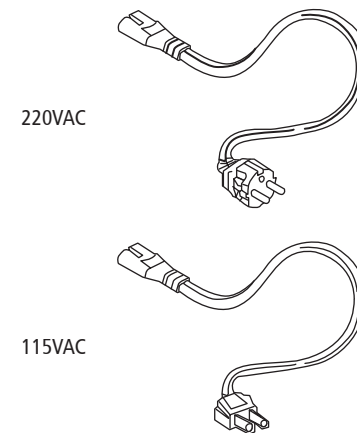
Make sure to be careful of the HOT head after using long time.

If the cover is not shut down completely, the printer may not work properly

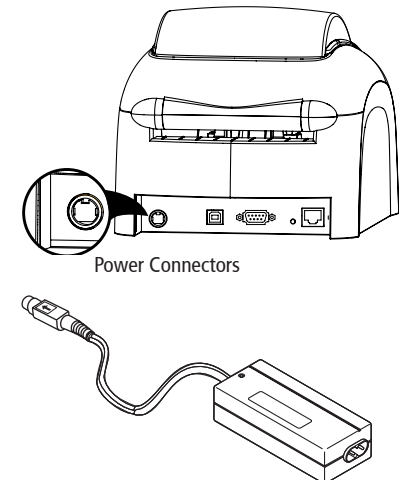


Please make sure you hear the closing sound of the upper cover.

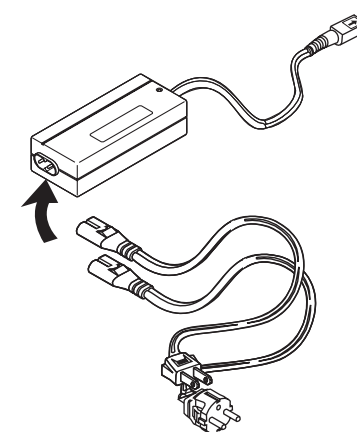
4. Connecting power supply



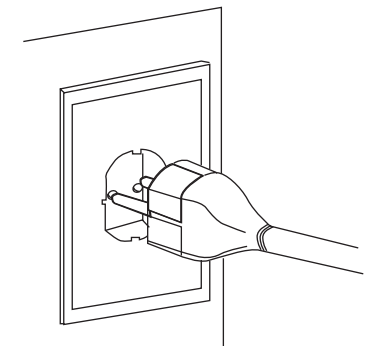
Please check the specification of the AC power cord if it is correct with your power system.



Turn off the power of the printer and connect the power supply to the printer as shown above.

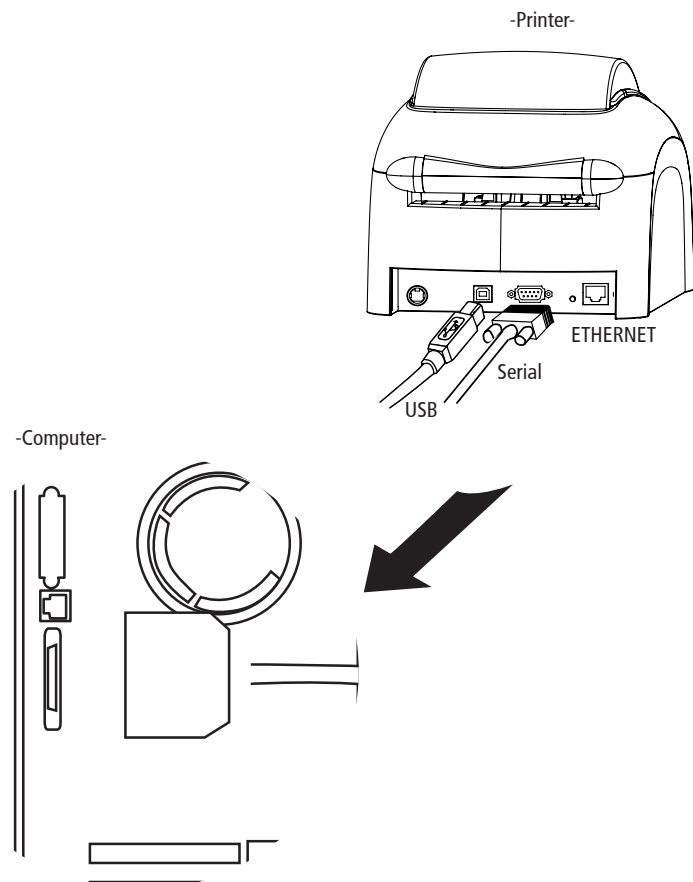


Connect the AC power cord to the power supply



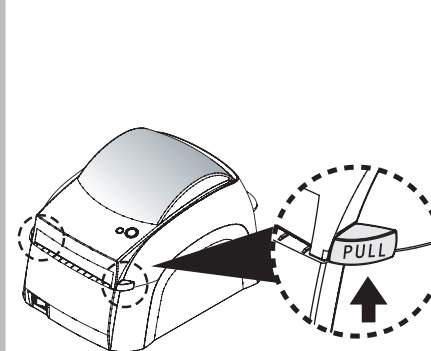
Insert a plug into the electrical outlet

5. Hooking up the printer and computer

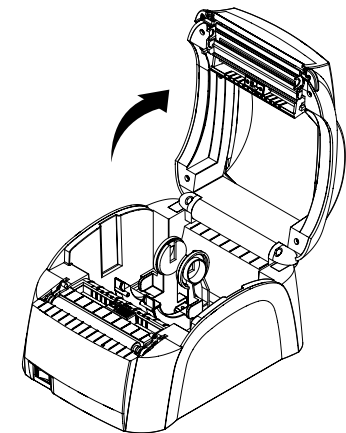


After making sure the printer is turned off, connect the printer to the PC.

6. Loading the media

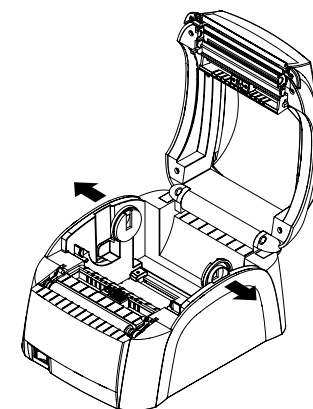


Turn off the printer and open the upper cover by pushing the knob in the direction of the arrow

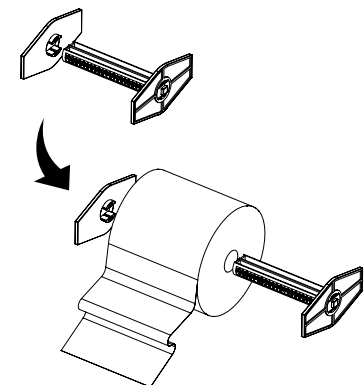


Please open the upper cover as shown above

1 2
3 4

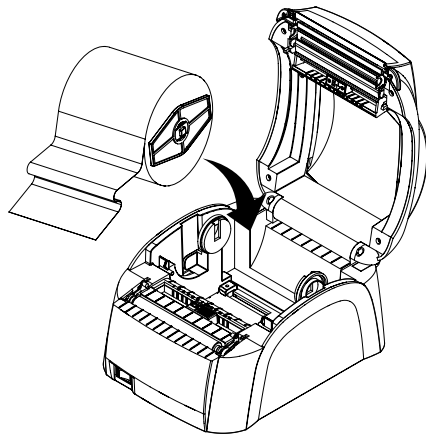


Open the paper width guides by pushing them to the right & left sides.

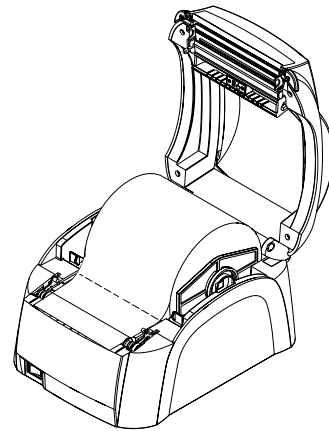


Insert the roll paper to the paper spindle as shown in the picture.

7. The treatment when you run short of paper and encounter cutter jam problem



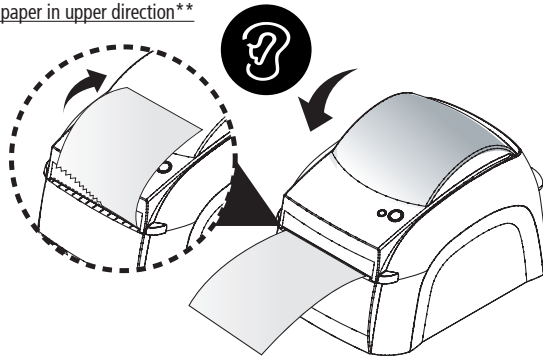
Insert the paper roll into the printer



Adjust the paper width guide to meet the paper width

5 6
7

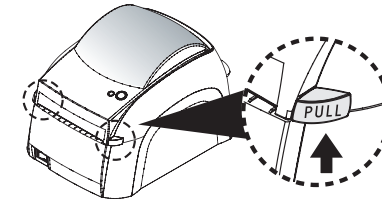
****Please cut the paper in upper direction****



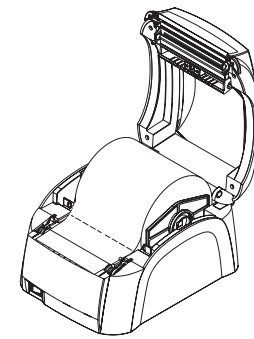
Close the upper cover completely and make sure you hear the closing sound.

NOTE

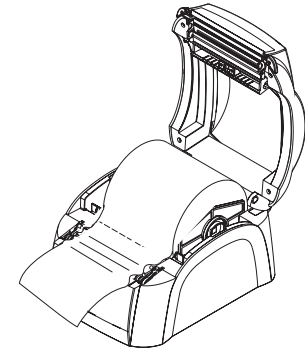
Paper fixing tap is only for 1 inch core roll paper and fan-fold paper.
For 1.5" core roll paper, mount it to the label paper guide directly without using paper fixing tap.



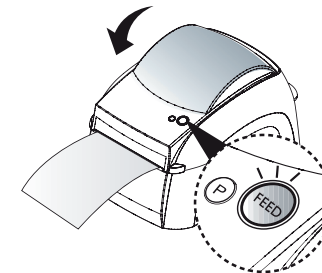
While you are printing with continuous media, please press PULL lever to the direction of the arrow.



****Installation of the new paper when the printer is short of it****



****Remove of the paper seized by paper jam****



After the treatment has been done as picture above, the printer function normally once you press FEED button.

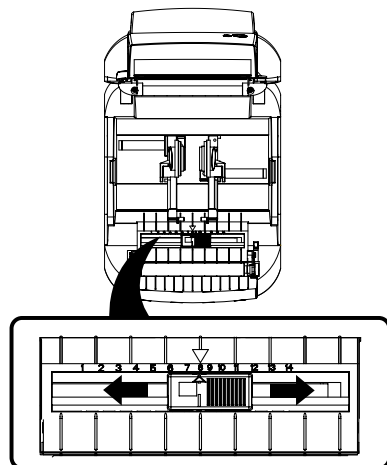


Caution

When the power is on, the ordered data will be printed without any data lost after installation of the new paper roll or treatment for paper Jam.
However, if these action has been done in the case the power is off, there can be some data lost since the printer buffer will not save them while the printer power is off.

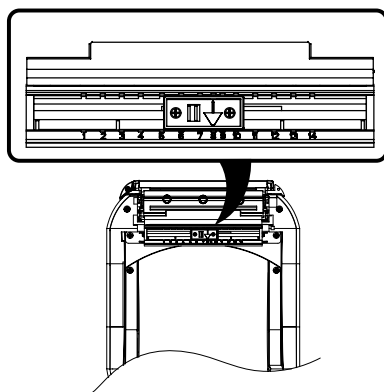
8. Setting up the sensors

Black Mark Sensor



Set Black Mark Sensor right to the size of roll paper

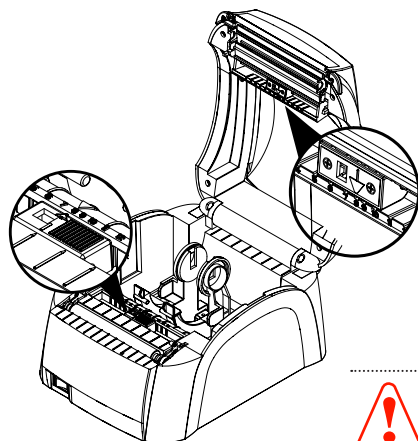
Notch Sensor



Locate notch sensor on the same number point- as the black mark sensor is indicating on.

1 2
3

****8 is the initialization number for sensor of the product.****



Black Mark Sensor and Notch sensor must always point to the same number

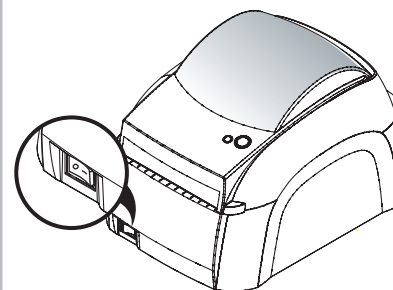


Caution If the thickness of paper with black mark is less than 0.1mm, it is recommended setting the black mark sensor and gap sensor to different location (number) each other.

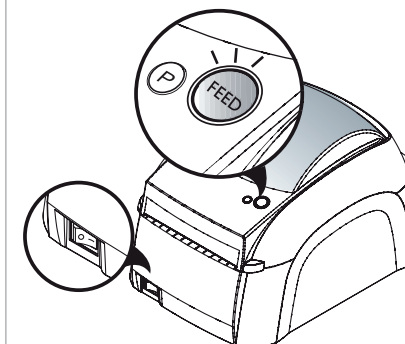
9. Self Test

✓ Note

Power switch sig — ON ○ OFF

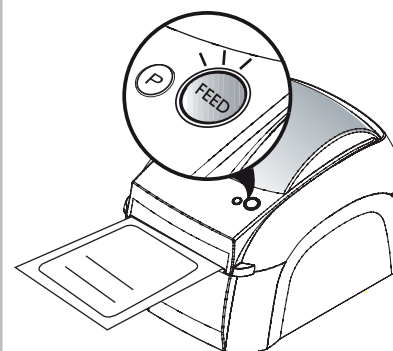


Turn off the printer

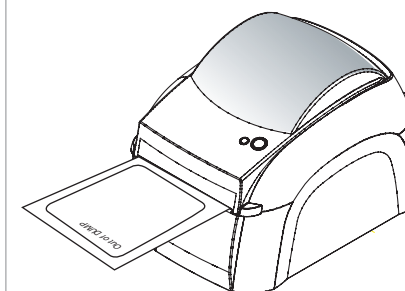


Press and hold the feed button while turning on the printer with power switch

1 2
3 4



After printed the basic information, please press the FEED button again

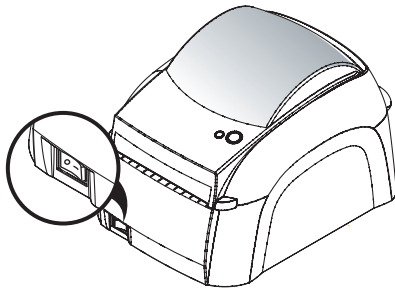


After finishing 'Out of DUMP' printing, ready to be printed out properly

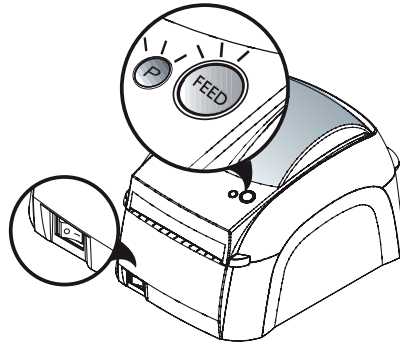
10. Auto Calibration

✓ Note

Power switch sig — ON ○ OFF



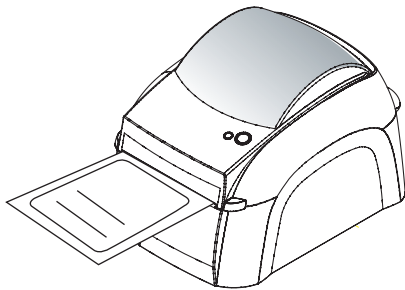
Turn off the printer



While you are pressing and holding 'P, FEED' button, turn off the power of printer.

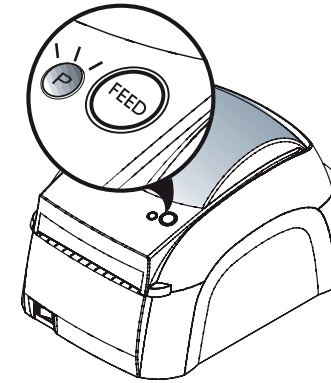
1 2
3

Auto setup will not be applied on the continuous stock



Printer sensor detects the size of the label, issuing the blank label.

11. Pause function



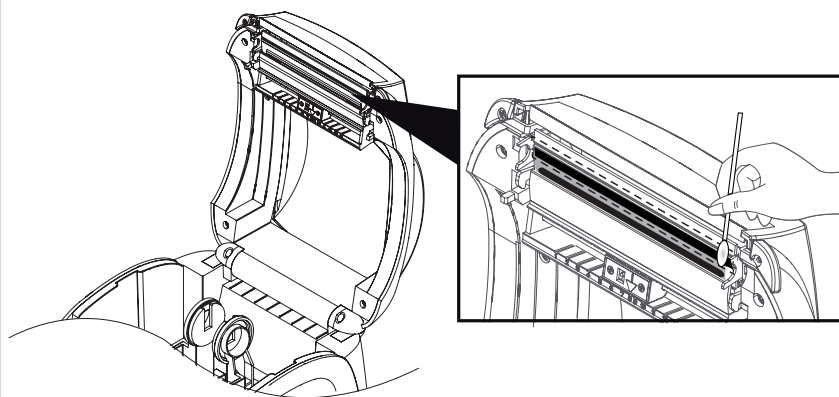
When you would pause on the printing process, press the 'P' key.

12. Printer cleaning

If the interior of the printer is dusty, printing quality can be lowered.
In such a case, follow the instructions below to clean up the printer.

✓ NOTE

1. Make sure to turn the printer power off prior to cleaning
2. Regarding print head cleaning, as the print head sets very hot during printing, turn off the printer power and wait approximately 10 minute before commencement.
3. When cleaning the print head, take care not to touch the heated portion of the print head.
The print head subject to be damaged by static electricity.
4. Take care not to allow the print head to become scratched and /or damaged in any way.



1. Use an applicator swab moistened with an alcohol solution to clean the print head and remove any dusts.
2. Once the cleaning is completed, insert paper roll into the printer few minutes later and close the printer cover.

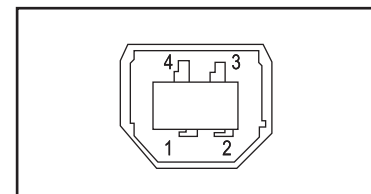
✓ Preventing Overheating

To prevent the motor from overheating, continuous driving of the printer should be 1.5 m or less in print length. Set the pause time for 30 seconds or more after driving the printer.

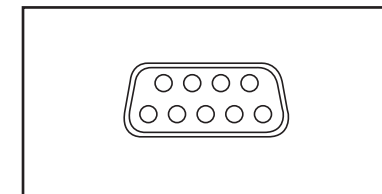
13. Connector

Interface Connectors

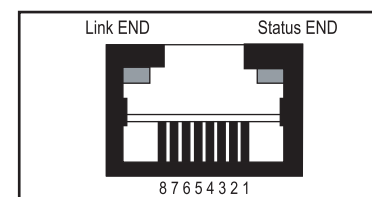
Standard



<USB " B " TYPE>



<9 Pin Serial> Option



<Ethernet> Option

14. Standard roll media specification

USB Interface

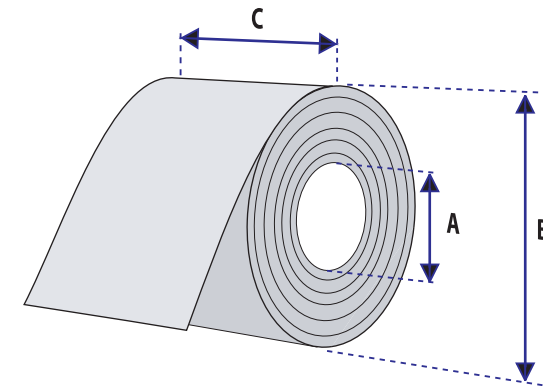
Pin	Signal	I/O	Description
1	+5V	-	+5V
2	DATA-	-	Printer transmit data line
3	DATA+	-	Printer transmit data line
4	GND	-	System Ground

9Pin Serial Interface

Pin	Signal	I/O	Description
3	RXD	Input	Printer receive data line RS-232C level
2	TXD	Output	Printer transmit data line RS-232C level
6,8	DTR	Output	Printer handshake to host line RS-232C level
5	GND	-	System Ground
4	DSR	Input	Data Send Ready
1,7,9	NC	-	

Ethernet Interface

Pin	SIGNAL	I/O
1	Data Out +	Output Data +
2	Data Out -	Output Data -
3	GND	Ground
4	Data IN +	Input Data +
5	Data IN -	Input Data -
6	N.C	
7	N.C	
8	N.C	



Core	
Diameter(A)	25.4 or 38.1 mm
Max. width	118 mm
Roll	
Max.diameter(B)	127 mm
Max.media width(C)	119 mm
Min.media width(C)	18 mm
Max.media thickness	0.15 mm
Min.mdeia thickness	0.06 mm

NOTE

1. If the label thickness is more than 0.18mm, adjust the printing speed to 127mm/s.
2. When the paper width is less than 25.4 (1inch), please print 101.6 mm/s
When the paper width is between 25.4 (1inch) to 76.2 (3inch), please print 127mm/s

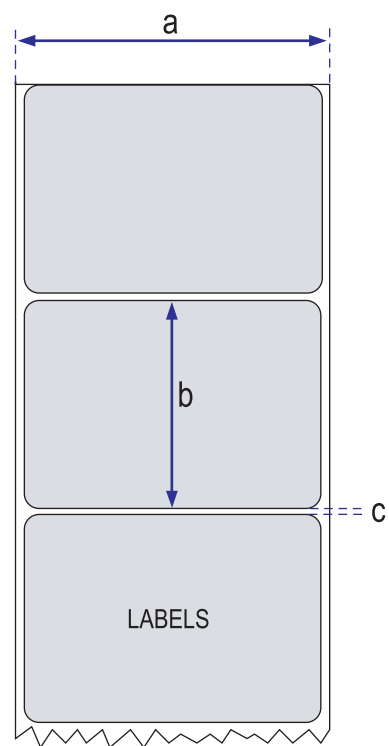


Caution

Protect the media against sand, grit, and other hard particles during printing and storage. Keep the cover closed. Even very small foreign particles may cause severe harm to the delicate printhead.

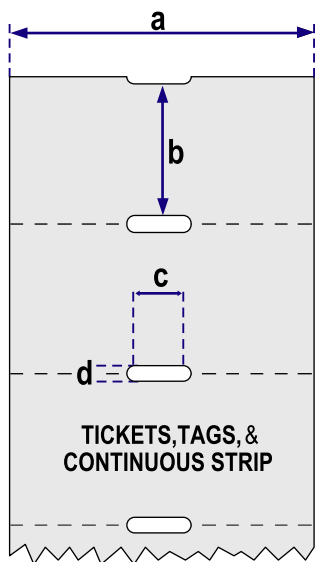
15. Standard label specification

<- a -> Media width (inch, liner)	
Maximum	118 mm
Minimum	18 mm
<- b -> Label length	
Minimum	10 mm
<- c -> Label gap height	
Maximum	10 mm
Minimum	2 mm
Liner	
Opacity	50~75%



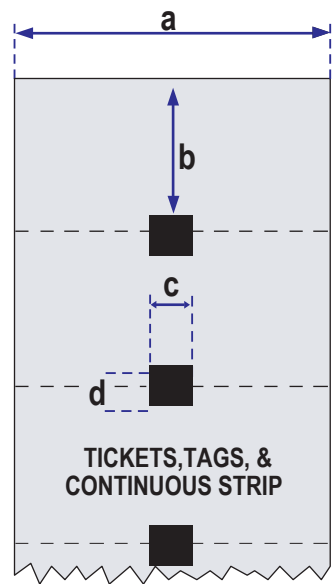
16. Label specification with Through-hole

<- a -> Tag or strip width	
Maximum	118 mm
Minimum	18 mm
<- b -> Tag length	
Minimum	10 mm
<- c -> Detection slot width	
Minimum	14 mm
<- d -> Detection slot height	
Maximum	10 mm
Minimum	2 mm



17. Label with Black Mark

<-- a --> Tag or strip width	
Maximum	118 mm
Minimum	18 mm
<-- b --> Tag length	
Minimum	10 mm
<-- c --> Black mark width	
Minimum	14 mm
<-- d --> Black mark height	
Maximum	10 mm
Minimum	3 mm



18. Continuous stock specification

The printer can use continuous paper without any detection gap or black marks.
The printer must be set for continuous paper by the Q command.
The length of each copy is decided by the size of the print image and any additional media feed is decided by the Q command.

Continuous paper cannot be used in the Test (Dump) Mode.

<-- a -->	
Maximum	118mm
Minimum	18 mm



19. Specifications

Product Specifications

Print method		Direct Thermal
Print speed(max)		127mm/sec
Print length(max)		1250mm
Resolution		203dpi, 8 dots/mm
Paper Width(min~max)		18~118mm
Paper roll size(max)		Ø 25.4mm ~ Ø 127mm
Paper thickness		0.06~0.18mm
Paper Type		Label , Tag, Continuous, Fanfold
Paper sensor		Label gap, Notch, Black Mark
Interface	Standard	USB
	Option	RS232
Memory	Standard	8MB SDRAM, 1MB Flash
	Option	4MB Flash
Serial baud rate		9600bps~115200bps
Font Specification		GDI
Weight		4.5lbs (2.0kg)
Size (W x D x H)		190mmx254mmx169mm

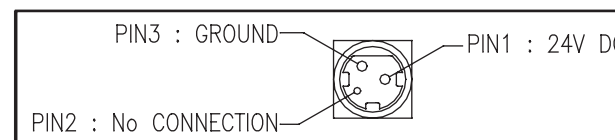
Certification

- (1) FCC PART15 CLASS A
- (2) CE EMCD (CE-EMCD Class B should use Parallel shield Cable complied with IEEE-1284 standards)
- (3) UL/cUL (UL 60950-1)

Electrical Characteristics

- (1) Input Voltage DC 24V \pm 10%
- (2) Current Consumption
 - Operating: Approx. 2.9 A (at ASC II printing)
 - Peak : Approx. 17 A
 - (at print duty 100%, For 10 seconds or less)
 - Stand-by : Approx. 0.15 A

(3) Power Connector



20. Command List

No.	Command	Description
1	A	ASC II Text
2	AUTOFR	Automatic Form Printing
3	B	Bar Code
4	B	RSS-14 Bar Code
5	b	Data Matrix MaxiCode PDF417
6	C	Counter
7	C	Cut Immediate
8	D	Density
9	EI	Print Soft Font Info.
10	EK	Delete Soft Font
11	eR	User Definable Error Response
12	ES	Store Soft Font
13	f	Cut/Peel Position
14	FE	End Form Store
15	FI	Print Form Info.
16	FK	Delete Form
17	FR	Retrieve Form
18	FS	Store Form
19	GG	Retrieve Graphics
20	GI	Print Graphics Info.
21	GK	Delete Graphic
22	GM	Store Graphic
23	GW	Direct Graphic Write
24	I	Character Set Selection
25	JB	Disable Top Of Form Backup
26	JC	Disable Top Of Form Backup –All Cases
27	JF	Enable Top Of Form Backup
28	LE	Line Draw Exclusive OR
29	LO	Line Draw Black
30	LS	Line Draw Diagonal
31	LW	Line Draw White
32	M	Memory Allocation
33	N	Clear Image Buffer
34	o	Cancel Customized Settings
35	oB	Cancel Customize Bar Code
36	oE	Line Mode Font Substitution
37	oH	Macro PDF Offset
38	oM	Disable Initial Esc Sequence Feed
39	oR	Character Substitution(Euro)
40	oW	Customize Bar Code Parameters

No.	Command	Description
41	O	Options Select
42	OEPL1	Set Line Mode
43	P	Print
44	PA	Print Automatic
45	Q	Set Form Length Transmissive(Gap)Sensor Black Line Sensor Continuous Stock
46	q	Set Form Width
47	r	Set Double Buffer Mode
48	R	Set Reference Point
49	S	Speed Select
50	TD	Define Date Layout(& Print Date)
51	TS	Set Real Time Clock
52	TT	Define Time Layout(& Print Time)
53	U	Print Configuration
54	UA	Enable Clear Label Counter Mode
55	UB	Reset Label Counter Mode
56	UE	External Font Information Inquiry
57	UF	Form Information Inquiry
58	UG	Graphic Information Inquiry
59	UI	Host Prompts/Codepage Inquiry
60	UM	Codepage& Memory Inquiry
61	UN	Disable Error Reporting
62	UP	Codepage& Memory Inquiry/Print
63	UQ	Configuration Inquiry
64	US	Enable Error Reporting
65	V	Define Variable
66	W	Windows Mode
67	xa	Sense Media
68	X	Box Draw
69	Y	Serial Port Setup
70	Z	Print Direction
71	?	Download Variables
72	^ @	Reset Printer
73	^ default	Set Printer to Factory Defaults
74	^ ee	Status Report – Immediate