



**sewoo**

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**MODEL : LK-B30**  
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

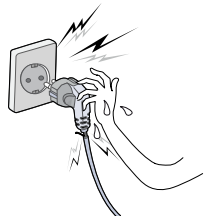


Do not handle the product with wet hands



## WARNING

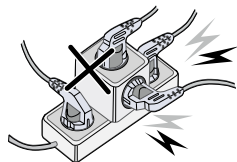
Failure to follow these instructions could result in fire, electric shock, or other injuries, or property damage



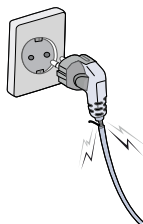
Do not pull or touch the power plug with wet hands.  
(Potential risk of electric shock or fire)



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)

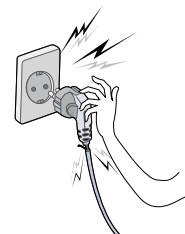


If a power plug is broken or a plug is cut or worn, do not use it.  
(Potential risk of electric shock or fire)

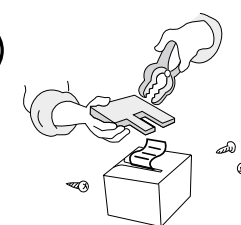


## WARNING

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.)

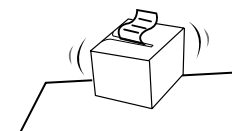


Do not disassemble, repair or modify the product.  
(Potential risk unit malfunction, electric shock or fire. When the product needs to be repaired, please contact in place where you ordered inspection.)

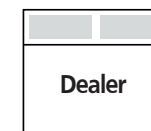


## WARNING

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



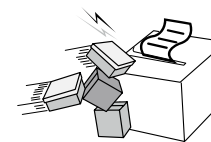
Do not install the product in uneven or inclined surface.  
(You may get hurt and it can be broken when it falls)



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

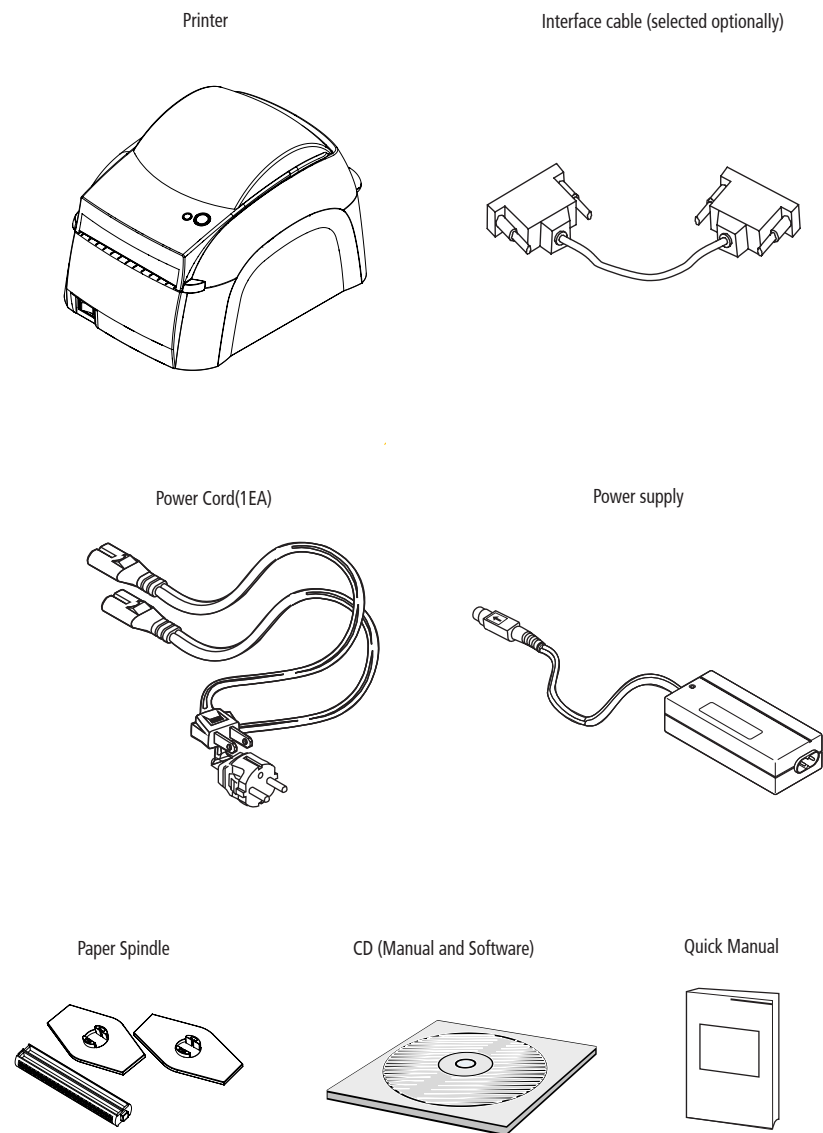


If the product that needs to be repaired, please contact in place where you ordered.  
(Potential risk of fire or unit malfunction)

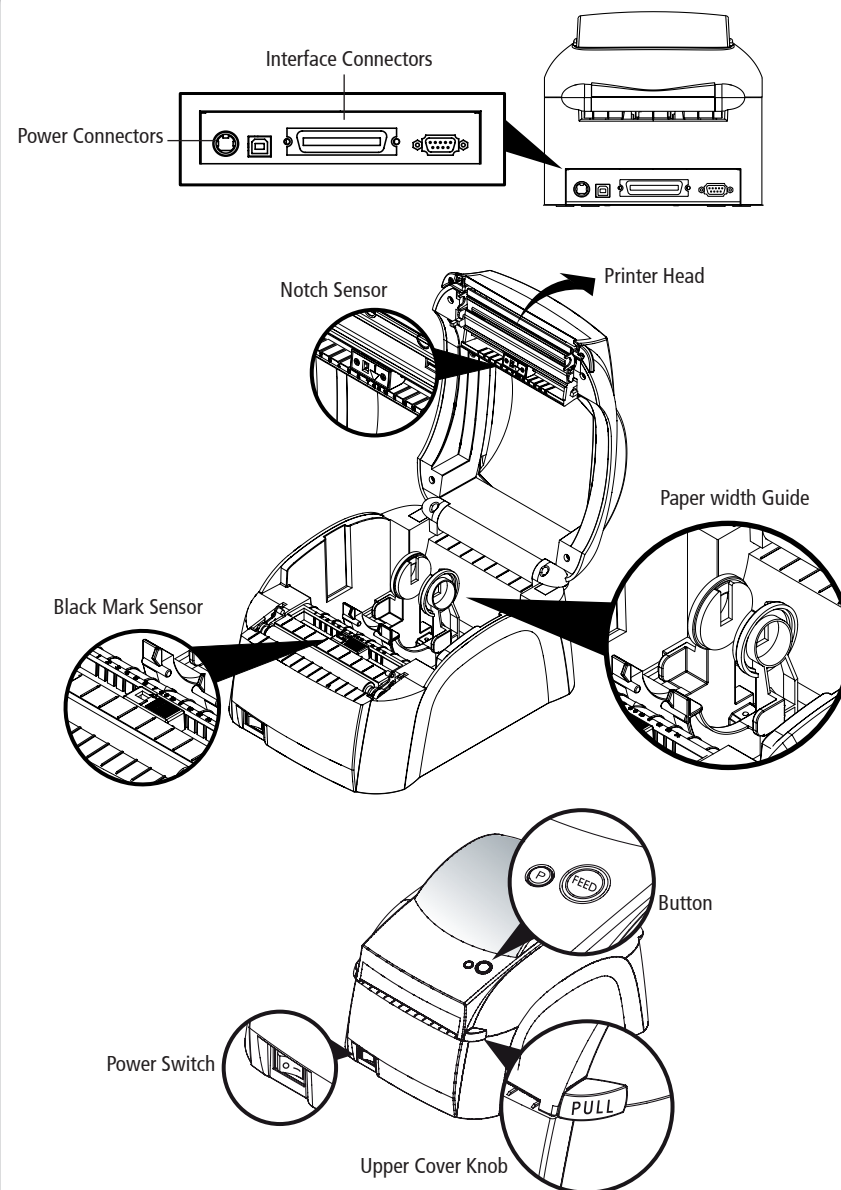


Please do not give excessive shock.  
(Potential risk of fire or unit malfunction)

## 2. Unpacking

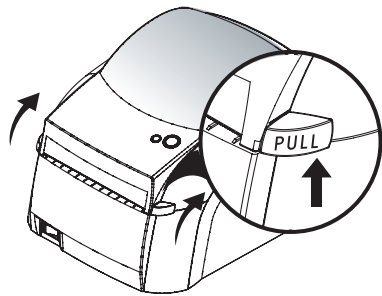


## 3. Printer identification

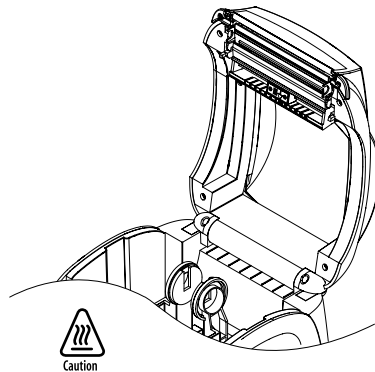




#### Opening the printer

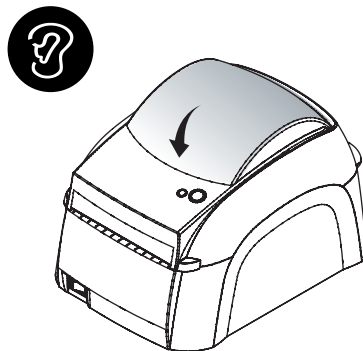


Open the upper cover by pushing the knob in the direction of the arrow.



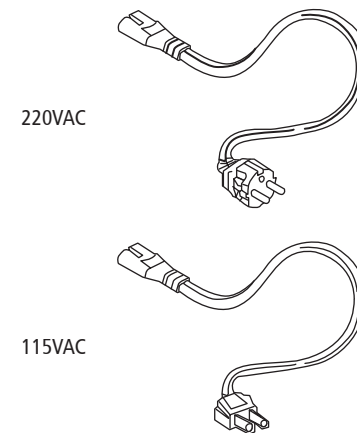
Make sure to be careful of the HOT head after using long time.

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

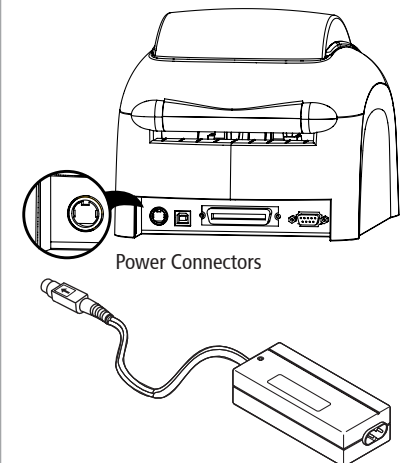


Please make sure you hear the closing sound of the upper cover.

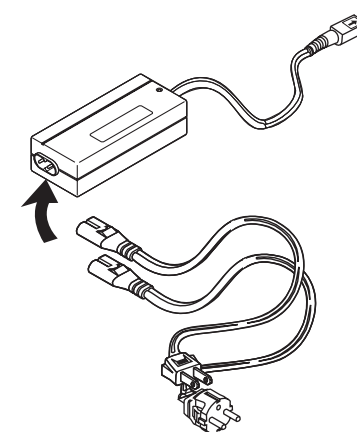
## 4. Connecting power supply



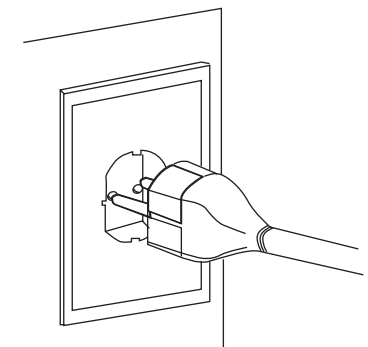
Please check the specification of the AC power cord if it is correct with your power system.



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

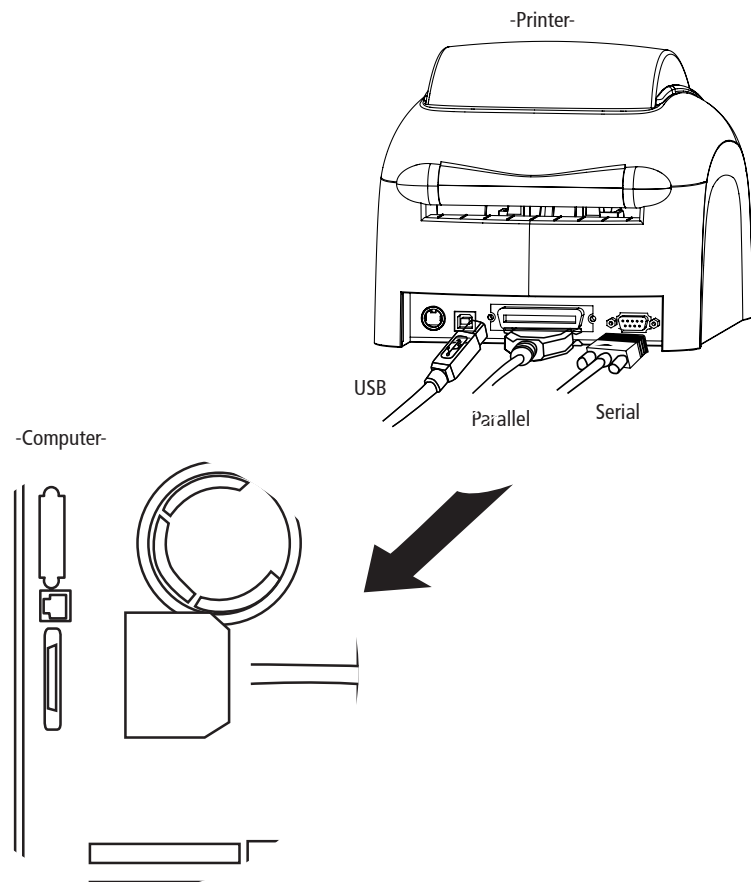


Connect the AC power cord to the power supply



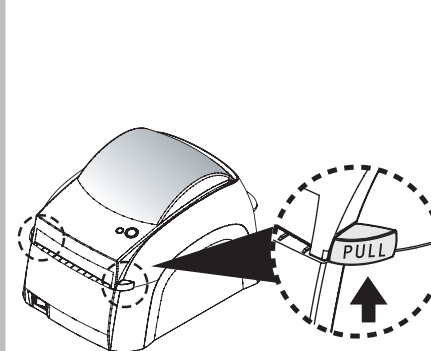
Insert a plug into the electrical outlet

## 5. Hooking up the printer and computer

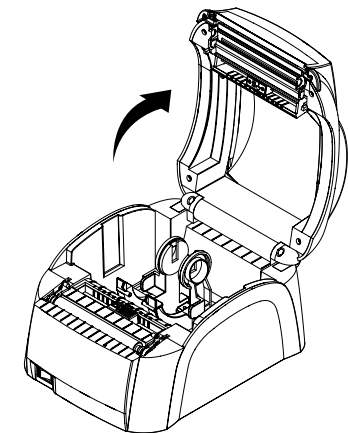


After making sure the printer is turned off, connect the printer to the PC.

## 6. Loading the media

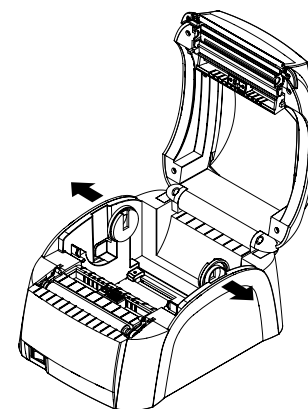


Turn off the printer and open the upper cover by pushing the knob in the direction of the arrow

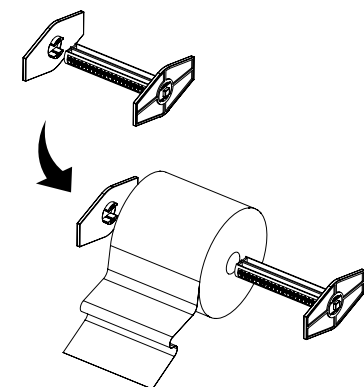


Please open the upper cover as shown above

1 2  
3 4

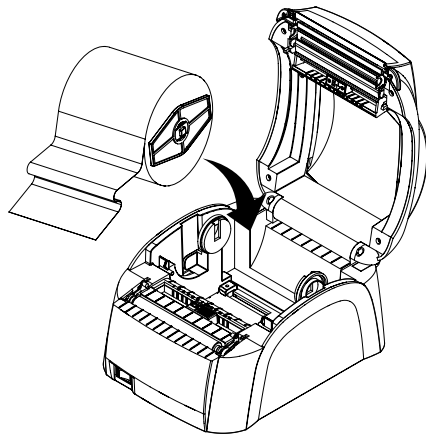


Open the paper width guides by pushing them to the right & Left sides.

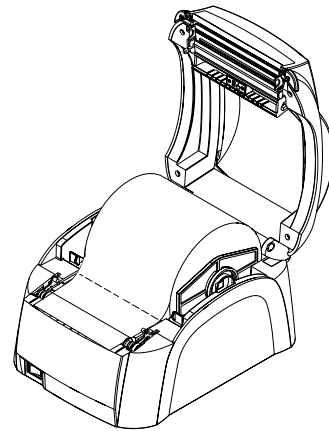


Insert the roll paper to the paper spindle as shown in the picture.

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



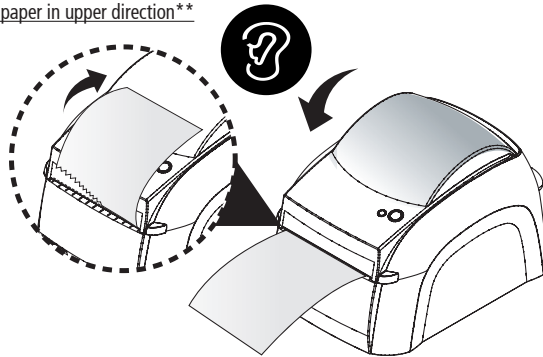
Insert the paper roll into the printer



Adjust the paper width guide to meet the paper width

5 6  
7

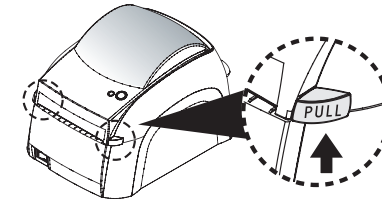
**\*\*Please cut the paper in upper direction\*\***



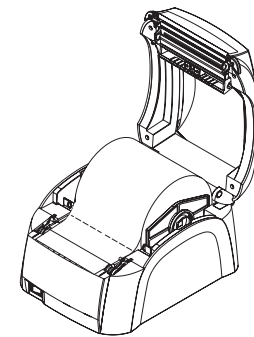
Close the upper cover completely and make sure you hear the closing sound.

### NOTE

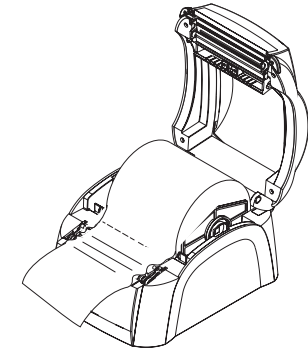
Paper fixing tap is only for 1 inch core roll paper and fan-fold paper.  
For 1.5" core roll paper, mount it to the label paper guide directly without using paper fixing tap.



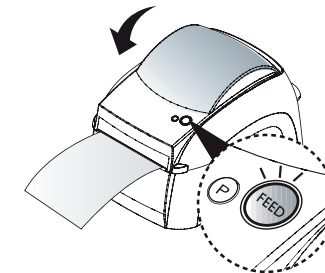
While you are printing with continuous media, please press PULL lever to the direction of the arrow.



**\*\*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.

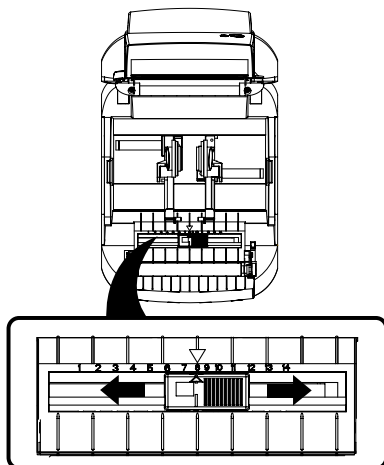


**Caution**

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.

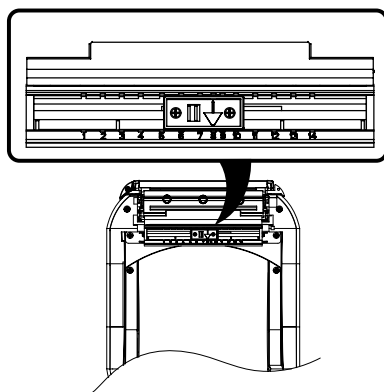
## 8. Setting up the sensors

### Black Mark Sensor



Set Black Mark Sensor right to the size of roll paper

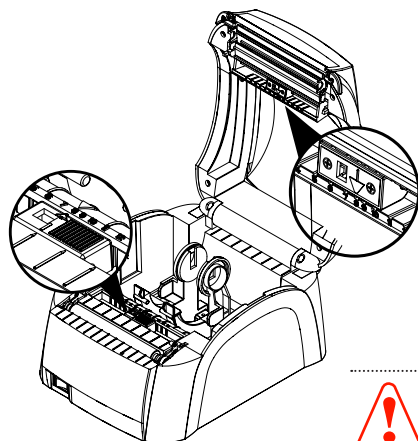
### Notch Sensor



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

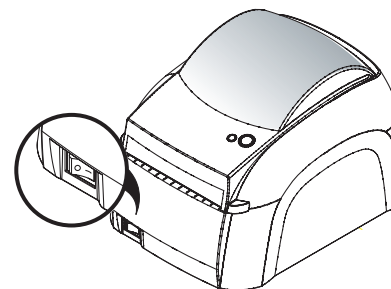


**Caution** If the thickness of paper with black mark is less than 0.1mm, it is recommended setting the black mark sensor and gap sensor to different location (number) each other.

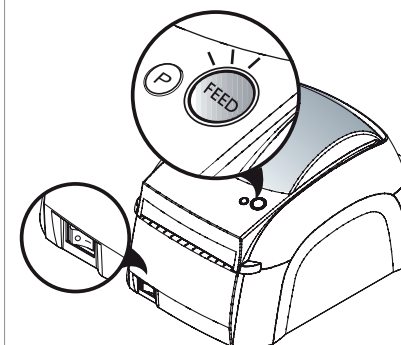
## 9. Self Test

### ✓ **Note**

Power switch sig — ON ○ OFF

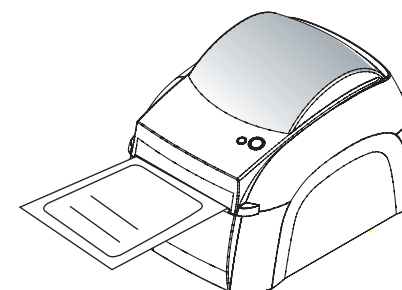


Turn off the printer



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

1 2  
3

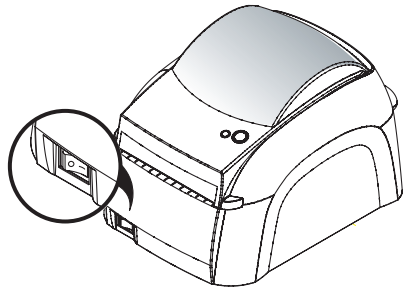


The printer prints information on the printer configuration and quality of the printing

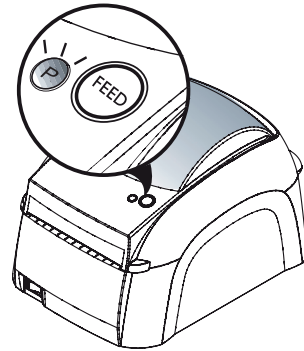
## 10. Auto setup for label size

### ✓ Note

Power switch sig — ON ○ OFF



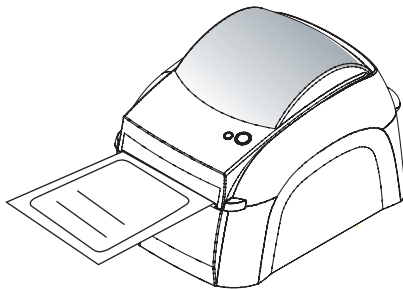
Turn off the printer



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

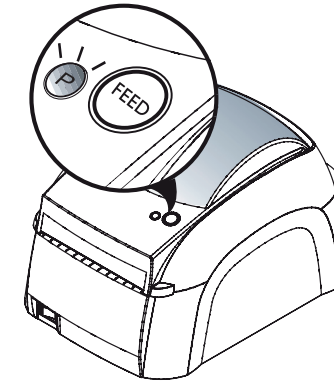
1 2  
3

*\*\*Auto setup will not be applied on the continuous stock\*\**



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

## 11. Pause and cancel function

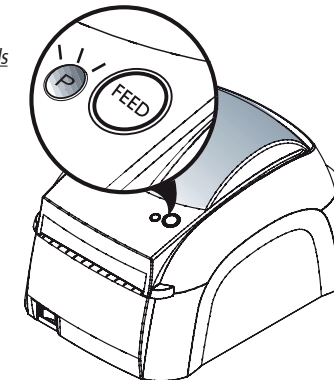


When you would pause on the printing process, press the 'P' key.

1  
2

*\*\*When you would cancel printing, you should proceed the cancel on your PC at first. \*\**

Over 2 seconds



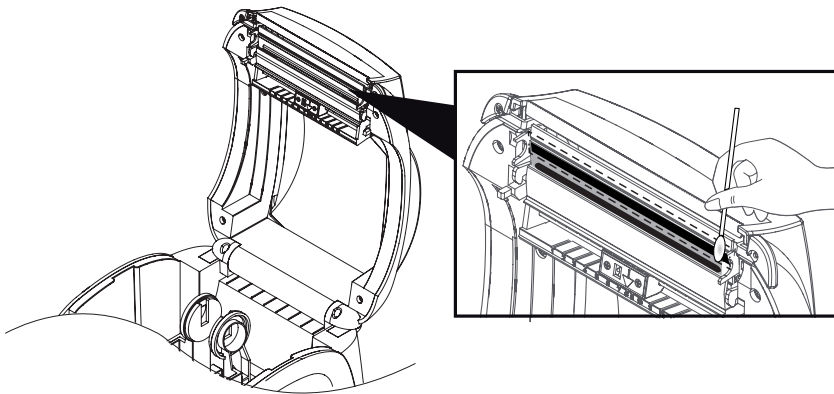
When you want cancel the printing, press and hold the "P" key for over 2 seconds.

## 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 gets very hot during printing, turn off the printer power and wait approximately 10 minutes before commencement.
3. When cleaning the print head, take care not to touch the heated portion of the print head. The print head is 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.

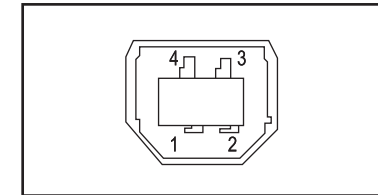
### ✓ Preventing Overheating

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.

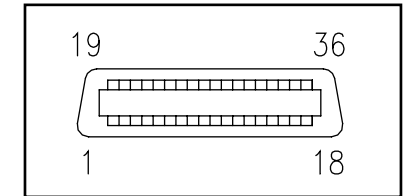
## 13. Connector

### Interface Connectors

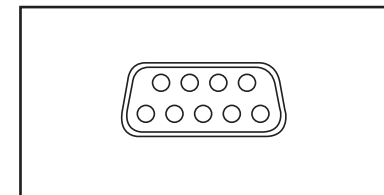
Standard



<USB " B " TYPE>



<Centronics Parallel>



<9 Pin Serial>

#### Centronics Parallel Interface

| Pin   | Signal     | I/O          | Description                            |
|-------|------------|--------------|--|
| 1     | STROBE-    | Input        | Synchronize signal Data received       |
| 2~9   | DATA0~7    | Input/Output | Data bit Transmitted 0~7               |
| 10    | ACK-       | Output       | Data receiving completed.              |
| 11    | BUSY       | Output       | Impossible to print of data receiving. |
| 12    | PE         | Output       | Paper empty                            |
| 13    | SELECT     | Output       | Printer status for ON/OFF line         |
| 14    | AUTO FEED- | Input        | Paper auto feed signal                 |
| 15    | GROUND     | -            | System ground                          |
| 16    | GROUND     | -            | System ground                          |
| 17    | NC         | -            |  |
| 18    | LOGIC-H    | -            | +5V                                    |
| 19~30 | GROUND     | -            | System ground                          |
| 31    | INIT-      | Input        | Initialize                             |
| 32    | ERROR-     | Output       | Printer error                          |
| 33    | GROUND     | -            | System ground                          |
| 34    | NC         | -            |  |
| 35    | +5V        | -            | +5V                                    |
| 36    | SELECT IN- | Input        | Printer select signal                  |

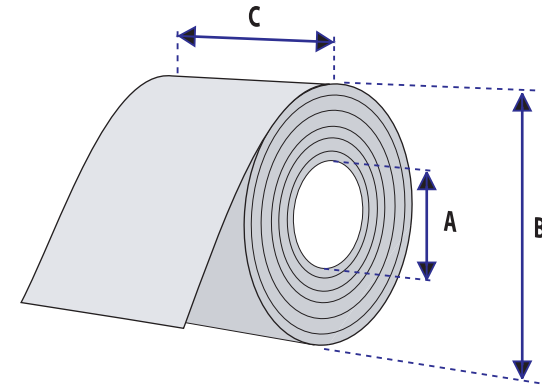
#### USB Interface

| 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     | -      |  |

## 14. Standard roll media specification



| 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

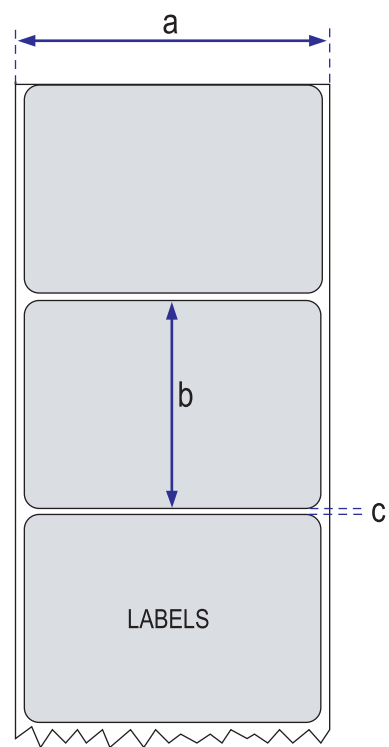


Caution

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.

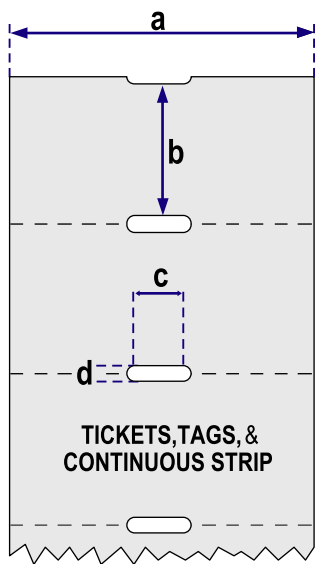
# 15. Standard label specification

| <- 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

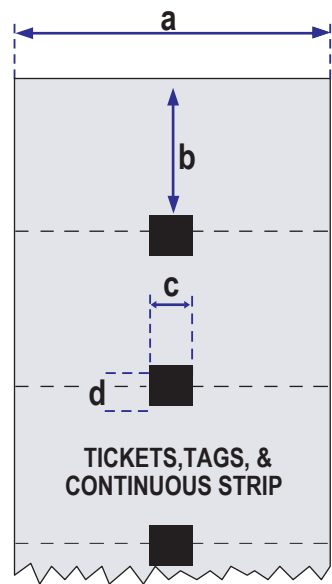
| <- a -> Tag or strip width    |        |
|-------------------------------|--------|
| Maximum                       | 118 mm |
| Minimum                       | 18 mm  |
| <- b -> Tag length            |        |
| Minimum                       | 10 mm  |
| <- c -> Detection slot width  |        |
| 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   |

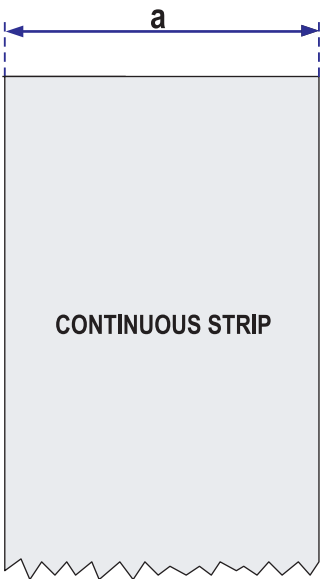


# 18. Continuous stock specification

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)     |          | 152mm/sec   |
| Print width(max)     |          | 104mm   |
| Print length(max)    |          | 630mm   |
| Resolution           |          | 203dpi, 8 dots/mm   |
| Paper Width(min~max) |          | 18~118mm  |
| Paper roll size(max) |          | 127mm   |
| Paper thickness      |          | 0.06~0.18mm   |
| Paper Type           |          | Label , Tag, Continuous, Fanfold  |
| Paper sensor         |          | Label gap, Notch, Black Mark  |
| Interface            | Standard | USB, RS232C, Parallel (IEEE-1284)   |
| Memory               | Standard | 8MB SDRAM, (4MB+1MB) Flash  |
|                      | Option   | 8MB Flash   |
| Serial baud rate     |          | 9600bps~115200bps   |
| Peeler               |          | Option  |
| Font Specification   |          | EPL II (Eltron Programming language)<br>ZPL II (Zebra Programming language) |
| Barcode              | 1D       | Codabar, Code93, Code128, Code39, EAN8/JAN8                                 |
|                      |          | EAN13/JAN13, EAN14/UPC-A, Industrial2 of 5                                  |
|                      |          | Standard 2 of 5, Interleaved 2 of 5, LOGMARS                                |
|                      |          | MSI, Plessey, POSTNET, UPC-E, UCC-EAN Extensions                            |
|                      | 2D       | MaxiCode, PDF 417   |
| Font Specification   | EPL II   | 5bitmapped Font   |
|                      | ZPL II   | 7bitmapped Font, 1 Smooth Font  |
| Weight               |          | 4.5lbs (2.0kg)  |
| Size (W x D x H)     |          | 190mmx254mmx169mm   |

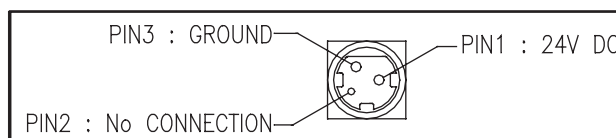
### Certification

- (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)

♣ "This equipment is indoor use and all the communication wiring are limited to inside of the building" or similar text.

### 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<br>MaxiCode<br>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<br>Transmissive(Gap)Sensor<br>Black Line Sensor<br>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   |