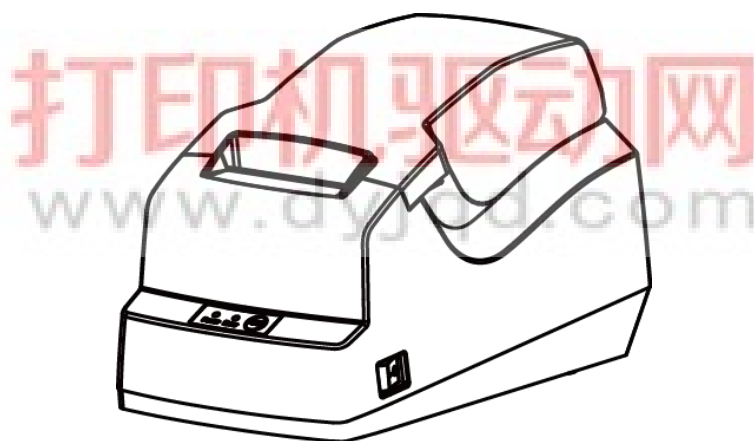


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# HTP58B

## User Manual



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## REVISION RECORDS

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## Statement

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Printed in China.

1.1 Version.

### Warnings :



This must be complied with in order to avoid any damage to the human body and to the equipment.



This is showing the important information and tips for the printer operating.

*Note: Due to continuous improvement of our product, the description of printer specification, accessories, design in this manual may slightly different, please in kind prevail.*

## Important Safety Instructions

### 1. Safety Warning



Warnings: The print head will become very hot during printing; avoid contact with the print head after printing has finished.



Warnings: Do not touch the thermal head and connector in case static damage the printer head.

### 2. Instructions

Read the following instructions thoroughly before starting up your printer.

- 1) Place the printer on a solid and even base so that it cannot fall.
- 2) Leave enough space around printer for operation and maintenance.
- 3) Keep all liquids away from the printer.
- 4) Do not expose the printer to high temperatures, direct sunlight or dust.
- 5) Protect the printer from shock, impact and vibration.
- 6) Ensure the printer is connected to a socket with the correct mains voltage.
- 7) Switch off the printer power supply when won't use it for a long time.
- 8) To ensure the printing quality and reliability, suggest use the recommended paper or the same quality paper.
- 9) Pls switch off the power supply when connect/disconnect all the ports or it will cause damage to the printer control circuit.
- 10) Never carry out maintenance or repair work yourself. Always contact a qualified service technician.
- 11) Keep this User Manual in a place which is easily accessible at all times.

# 1. Production Introduction

## 1.1 Packing List

### ■ Standard Accessories



Printer



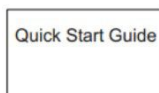
Power Cord



Power Adapter



Paper Roll



Quick Start Guide

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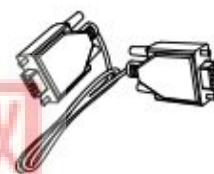
### ■ Optional Accessories



USB Cable



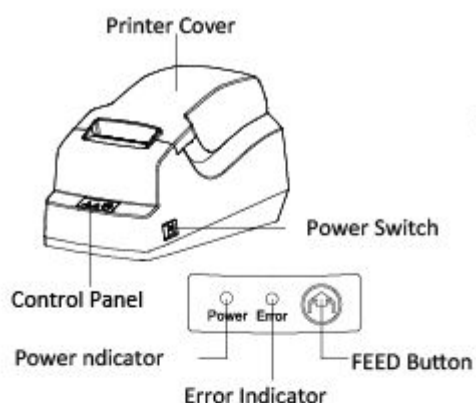
Parallel Cable



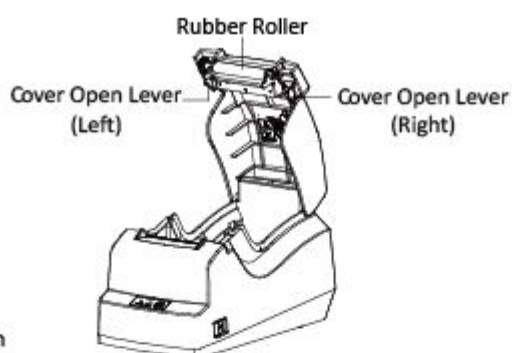
Serial Cable

### 1.2 Appearance

#### ■ Front



#### ■ Cover Open

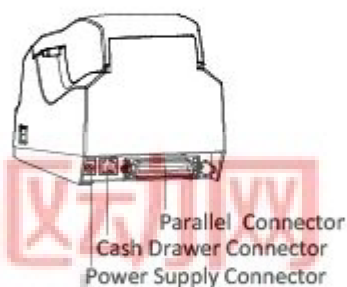


#### ■ Rear

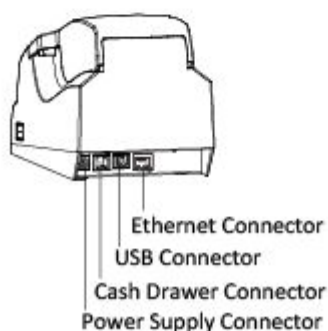
##### • Model 1



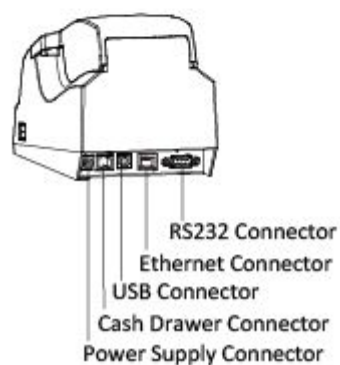
##### • Model 2



##### • Model 3



##### • Model 4



### Specification of some part elements

#### 1) Power indicator(Green)

Indicate the status of power.

#### 2) Error indicator(Red)

Indicate the error status of printer.

#### 3) Feed Button

##### ① Feed paper

When printer is in normal, push this button to feed paper. Pushing it once, printer feed a fixed distance. Pushing it continuously, printer feed a long distance.

##### ② Print paper

When printer is power off, hold this button down and power on the printer. Printer will print self test page.

#### 4) Power switch

Push “O” to power off and push “—” to power on.

### 1.3 Definition of the LED Indicator

| LED                         | ON/OFF   | Description                             |
|-----------------------------|----------|---|
| Power indication<br>(Green) | ON       | Printer is ON and ready to receive data |
|                             | OFF      | Power is off                            |
| Error indication<br>(Red)   | ON       | Out of paper or cover open              |
|                             | OFF      | The printer is an normal state          |
|                             | Flashing | Error status                            |



## 2.Specifications

### 2.1 General Specification

Table2-1 General Specification

(1/2)

| Items     |                     | Parameter   |
|-----------|---------------------|---|
| Printing  | Printing method     | Thermal line printing   |
|           | Resolution          | 203dpi  |
|           | Printing width      | 48mm  |
|           | Printing speed      | 100mm/s   |
|           | Interface(Optional) | RS232/USB/Cash drawer/Ethernet/Parallel<br>(It depends on the different model)  |
| Memory    | RAM                 | 20K Byte  |
|           | Flash               | 2M Byte   |
| Character | Chinese             | GBK16x16, 24x24dots   |
|           | Alphanumeric        | ASC II 8x16, 12x24dots  |
|           | User-defined        | Yes   |
|           | Codepage            | [PC437 (USA: Standard Europe)], [Katakana], [PC850 (Multilingual)], [PC860 (Portuguese)], [PC863 (Canadian-French)], [PC865 (Nordic)], [PC857 (Turkish)], [PC737 (Greek)], [ISO8859-7 (Greek)], [WPC1252][PC866 (Cyrillic #2)], [PC852 (Latin 2)], [PC858 (Euro)], [KU42], [TIS11 (Thai)], [TIS18 (Thai)], [PC720], [WPC775], [PC855 (Cyrillic)], [PC862 (Hebrew)], [PC864 (Arabic)], [ISO8859-2 (Latin2)], [ISO8859-15 (Latin9)], [WPC1250], [WPC1251(Cyrillic)], [WPC1253], [WPC1254], [WPC1255], [WPC1256], [WPC1257], [WPC1258], [MIK(Cyrillic /Bulgarian)], [CP755 (East Europe , Latvian 2)], [Iran], [Iran II], [Latvian], [ISO-8859-1 (West Europe)], [ISO-8859-3(Latin 3)], [ISO-8859-4(Baltic)], [ISO-8859-5(Cyrillic)], [ISO-8859-6(Arabic)], [ISO-8859-8(Hebrew)], [ISO-8859-9(Turkish)], [PC856] |
| Barcode   | 1D                  | UPC-A、UPC-E、EAN8、EAN13、CODE39、ITF、CODEBAR、CODE128、CODE93  |
| Detection | Sensors             | Paper out detection   |

Table2-1 General Specification(Continued)

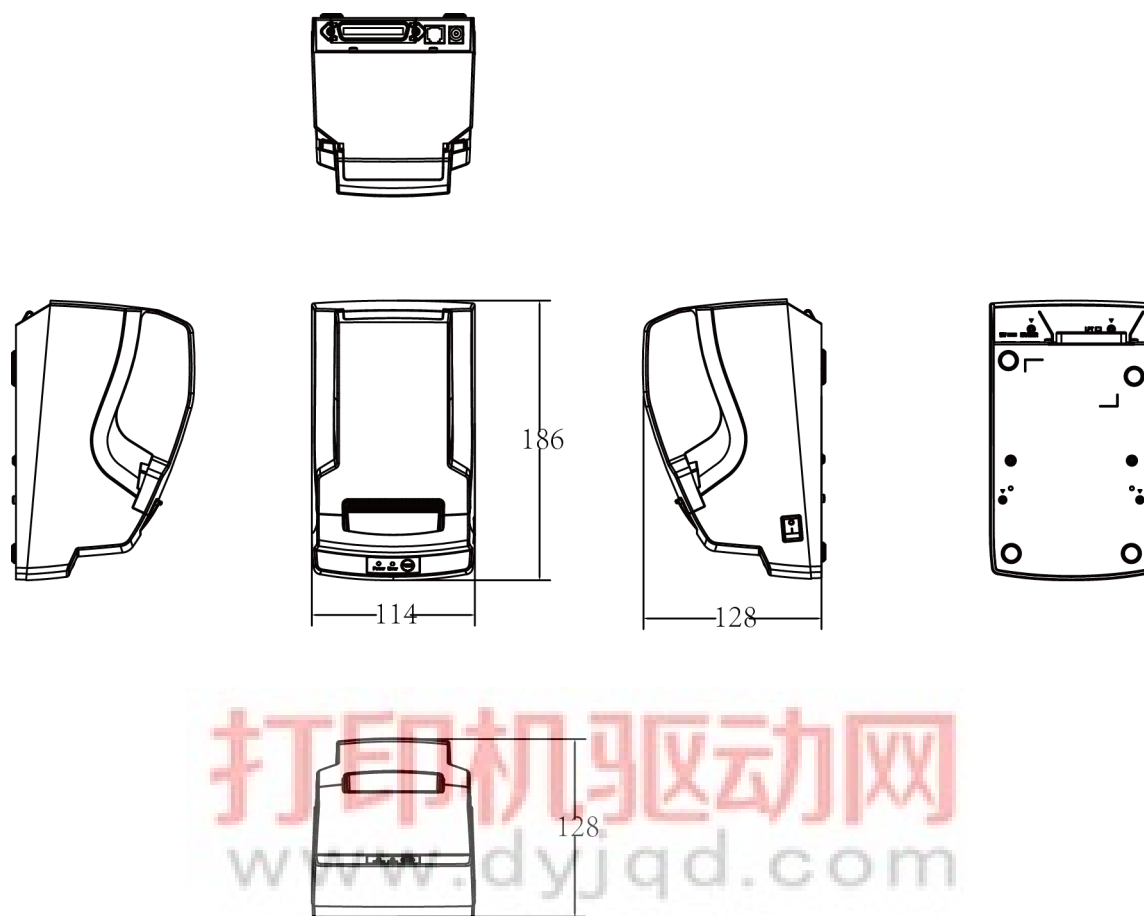
(2/2)

| Items                    |                     | Parameter                                |
|--------------------------|---------------------|--|
| LED indicator            | Power indicator     | Green                                    |
|                          | Error indicator     | Red                                      |
| Power supply             | Input               | 12V $\pm$ 2A( External power adapter)    |
|                          | Paper type          | Thermal paper                            |
| Paper loading            | Paper width         | 58 $\pm$ <sub>-1</sub> <sup>+0</sup> mm  |
|                          | Recommended paper   | FD210,PD150R,PD160R (OJI Paper CO.,LTD.) |
|                          | Paper thickness     | 0.06~0.07mm                              |
|                          | Paper roll diameter | 83mm Max OD                              |
|                          | Paper loading       | Easy loading                             |
| Command                  |                     | ESC/POS                                  |
| Physical characteristics | Working condition   | 0 ~ 40℃/20 ~ 85%RH                       |
|                          | Storage condition   | -20 ~ 70℃/5 ~ 95%RH                      |
|                          | Dimension           | 186(L)*114 (W)*128(H)mm                  |
|                          | Weight              | 930g (without paper roll)                |
| Reliability              | TPH                 | 150km                                    |

## NOTE:

Pls. use the recommended thermal paper or same quality paper, otherwise it will influence the printing quality and decrease the thermal print head life.

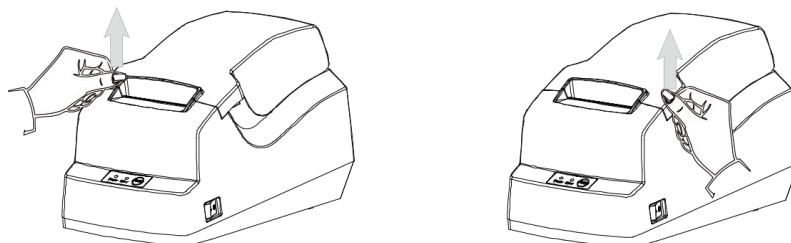
## 2.2 Overall Structure Dimensions



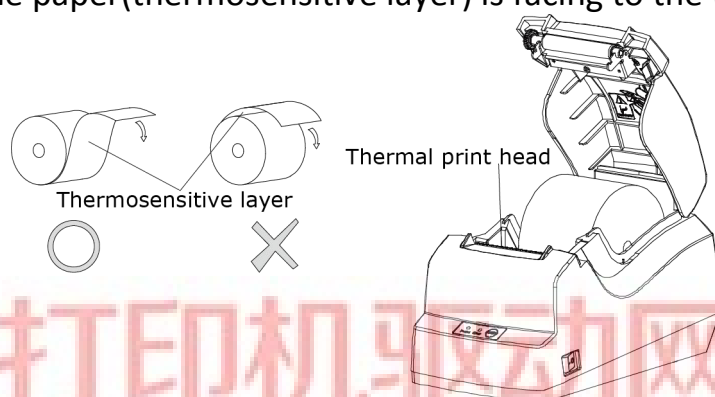
## 3.Operation Methods

### 3.1 Paper Roll Installation

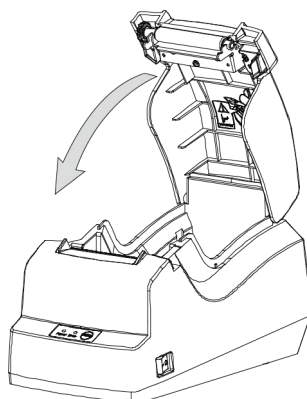
1.Push the cover open lever on any side of top cover and lift upwards.



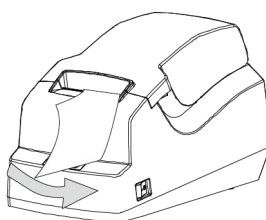
2.Load the paper roll in the correct direction as shown below. And make sure the printable side of the paper(thermosensitive layer) is facing to the thermal print head.



3.Pull out some paper roll and press down the center of printer cover to close the cover.



4.Tear off any excess paper in the direction of the side of the printer.



## **3.2 Basic Operation**

### **3.2.1 Power On/Power Off**

When printer is power off, push power switch “—” to power on. When printer is ready, [Power] indicator is green. If there is paper out or error in the printer, [Error] indicator is red.

When printer is power on, push power switch “O” to power off and indicators go out.

### **3.2.2 Print Self Test Page**

Users can print self test page when they get the printer. If there is no error on the self test page, it believe that printer works normally except communication function and charging function.

Method of printing self test page:

1. Make sure that printer is power off;
2. Hold the [FEED] button and power on. Printer will print self test page. Then release the [FEED] button.

There are model, configuration of communication and font library and other information on the self test page. The last line of self test page is “\*\*\*completed\*\*\*”. It indicate that self test page is finished. After that, printer enter to the normal work status.

### **3.2.3 Feed Paper**

Printer can feed paper by hand according to the users’ need. In normal, pushing the button once, printer feed a line. If there is a need of long distance printing, push the button continuously.

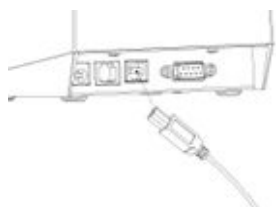
### **3.2.4 Tear Paper**

After printing, it need to tear the receipt off the paper roll. HTP58B has a convenient design of tear bar. Pay attention to the direction when tearing the paper.

## 4.Interfaces

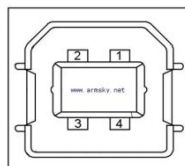
### 4.1 USB Interface

#### 4.1.1 Connecting USB Cable



- 1) Confirm the power switch is turned off.
- 2) As shown, insert the USB cable into the USB interface, and ensure they are matched.
- 3) The other end of USB interface cable should connect to the host.

#### 4.1.2 USB Specification



| PIN No. | Signal name |
|---------|-------------|
| 1       | VBUS        |
| 2       | D-          |
| 3       | D+          |
| 4       | GND         |

### 4.2 Power Supply Interface

#### 4.2.1 Connecting Power Cable



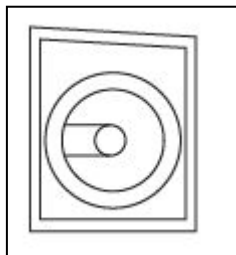
- 1) Confirm the power switch is turned off.
- 2) Insert the power cord into the power socket on the back of the printer.

**Caution:**

- ◆ When the printer is not in use for a long period of time, disconnect the Power adapter from the wall outlet for safety.
- ◆ Be sure to use the specified battery and power source provided by our company. Connection to an improper power source may cause fire, explosion or damage to the printer.

### 4.2.2 Power Specification

The power of HTP58B is 12V --- 2A.



## 4.3 Cash Drawer Interface

### 4.3.1 Connecting Cash Drawer

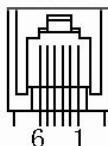


- 1) Confirm the printer power is turned off.
- 2) Insert the cash drawer cable into the cash drawer connector on the back of the printer.

❖ **Caution:**

Cash drawer interface can be connected only with a cash drawer device (Do not connect a telephone line and so on).

### 4.3.2 Cash Drawer Specification



| Pin No. | Signal   | Function                 |
|---------|----------|--------------------------|
| 1       | FG       | Frame Ground             |
| 2       | DRAWER 1 | Drawer kick-out drive    |
| 3       | DRSW     | Drawer open/close signal |
| 4       | VDR      | Drawer driving source    |
| 5       | DRAWER 2 | Drawer kick-out drive    |
| 6       | GND      | GND                      |

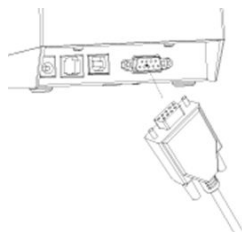


**Note :**

- Strictly prohibit to hot plug the plug.
- When arranging the line of communication, you have to avoid paralleling with the strong current.
- you have to use the shielded communication line.

### 4.4 RS232 Interface

#### 4.4.1 Connecting RS232 Cable



- 1) Connect the suitable interface cable with the
- 2) Correct connector to the connector of the interface board of the printer plug screws
- 3) Connect the other end of the interface cable to the host.

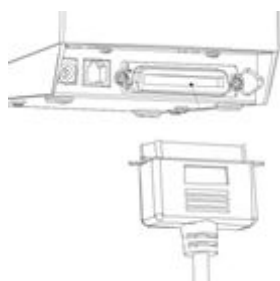
#### 4.4.2 RS232 Specification



| PIN | Name | Description     |
|-----|------|-----------------|
| 1   | --   | --              |
| 2   | TXD  | Transmit Data   |
| 3   | RXD  | Receive Data    |
| 4   | --   | --              |
| 5   | GND  | Ground          |
| 6   | --   | --              |
| 7   | CTS  | Clear to send   |
| 8   | RTS  | Request to send |
| 9   | --   | --              |

### 4.5 Parallel Interface

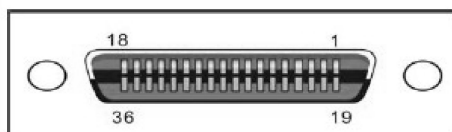
#### 4.5.1 Connecting Parallel Cable



- 1) Confirm the power switch is turned off.
- 2) Connect the suitable interface cable with the correct connector to the connector of the interface board of the printer clip springs .
- 3) Connect the other end of the interface cable to the host.

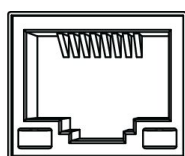


### 4.5.2 Parallel Specification



| Pin No. | Signal name         | Direction | Signal definition                                       |
|---------|---------------------|-----------|---|
| 1       | $\overline{STROBE}$ | Out       | Gating pulse which host output to printer               |
| 2~9     | D0~D7               | Out       | 8 data lines  |
| 10      | $\overline{ACK}$    | In        | Acknowledge signal which indicates already receive data |
| 11      | BUSY                | In        | Printer is busy that can't receive new data             |
| 12      | PE                  | In        | Paper out   |
| 13      | NC                  | ---       | Not connect   |
| 14      | NC                  | ---       | Not connect   |
| 15      | NC                  | ---       | Not connect   |
| 16      | GND                 | ---       | Logic Ground  |
| 17      | CHASSIS-GND         | ---       | Chassis ground  |
| 18      | NC                  | ---       | Not connect   |
| 19~30   | GND                 | ---       | Logic Ground  |
| 31      | NC                  | ---       | Not connect   |
| 32      | $\overline{ERROR}$  | In        | Printer is in a wrong status                            |
| 33      | GND                 | ---       | Logic Ground  |
| 34~36   | NC                  | ---       | Not connect   |

### 4.6 Ethernet Interface



| PIN NO. | SIGNAL |
|---------|--------|
| 1       | TX+    |
| 2       | TX-    |
| 3       | RX+    |
| 4       | -      |
| 5       | -      |
| 6       | RX+    |
| 7       | -      |
| 8       | -      |

## 5.Troubleshooting

### 1.Power indicator is off.

Check the connection of power cable and power socket.

### 2.Error indicator is on when there is no printing.

- ❖ If there is a paper roll
- ❖ If there is out of paper
- ❖ If the top cover is closed correctly

### 3.Error indicator is flashing when there is no printing or no paper jam.

If thermal head is too hot, printer will stop working until it cool off.

If it can't recover, power off the printer and power on after 10s.

### 4.Print faintly.

The cause of it is thermal head is dirty. Please clean the thermal head. See more information in "6.Method of cleaning thermal head".

### 5.Take out the jammed paper.



Note: Thermal head will get very hot after printing. Don't touch it.

- 1.Power off the printer and open the top cover.
- 2.Take out the jammed paper. Reinstall the paper roll and close the top cover.

## 6. Printer Cleaning

Print 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:

### ※ CAUTION

- Make sure to turn off the printer prior to cleaning.
- As the print head gets hot during printing, intending to clean the print head, turn the printer off and wait approximately 2~3 minute before commencement.
- When cleaning the print head, take care not to touch the heated portion of the print head. → Print Head is susceptible to damage from static electricity, etc.
- Take care not to allow the print head become scratched and/or damaged in any way.

### 6.1 Cleaning Head

- 1) Open the Printer Cover and then use the cleaning pen to clean the head in the direction from the center of the head to the edges.
- 2) After cleaning the head, do not use the printer until the alcohol used for cleaning evaporates completely (1~2 min) and the printer has completely dried.

### 6.2 Cleaning Sensors, Roller and/or Paper Path

- 1) Open the printer cover and then remove the paper.
- 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.
- 4) After cleaning the parts, do not use the printer until the alcohol evaporates completely (1~2 min) and the printer has completely dried

※ Clean the parts whenever print quality or paper detection degraded.