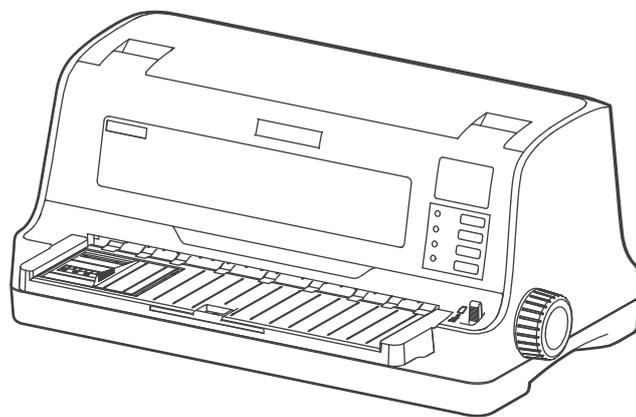


Jolimark

User's Manual

DP560

Printer



Declare

About Trademark

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- * Jolimark is a registered trademark of Kong Yue Electronics & Information Industry (XIN HUI) LTD.
- * EPSON and ESC/PK2 are the registered trademarks of Seiko Epson Corporation.
- * OKI and OKI 5530 SC are the registered trademarks of OKI Data Corporation.
- * Windows is a registered trademark of Microsoft Corporation.

Warnings, Cautions, and Notes

Pay attention to the following promises when using this manual:

Warning:

Warnings must be followed carefully to avoid bodily injury.

Caution:

Cautions must be observed to avoid damage to your equipment.

Note:

Notes contain important information and useful tips on the operation of your printer.

Important Safety Instructions

Read all of these instructions carefully and thoroughly and save them for later reference. The unauthorized operation would lead to malfunction or accident. Manufacturers have no responsibilities for the problems which are led by unauthorized operations.

- Follow all warnings and instructions in the manual as well as marked on the product.
- Do not touch the print head if the printer has just been recently used as the print head may be hot.
- Do not put your fingers under the left and right tractor sprocket covers of the tractor when installing the tractor paper.
- Unplug this product from the power outlet before cleaning. Do not use the chemicals like alcohol to clean the printer. Use a damp cloth for cleaning.
- Please don't use the printer near water.
- Slots and opening on the cabinet and the back or bottom are provided for ventilation. To ensure reliable operation of the product and to protect it from overheating, do not block or cover these openings. And do not place the printer on a bed, sofa, rug or other similar surface in case of blocking the openings. This product should not be placed in a crowded environment unless proper ventilation is provided.
- Make sure the printer is put on a stable surface and the surrounding is wide enough for paper load and eject.
- Avoid using the same AC socket with other high-power electric appliances or the electric appliance device which will easily cause voltage fluctuation.
- The whole computer system should be far away from the devices which may easily cause electromagnetic interference, for example, loudspeaker or wireless component.
- Do not locate this product where the cord will be stepped on. When the cord or the plug is mangled, please stop using and get a new one replaced. Make sure the old one is far away from the printer, so it can avoid someone who does not know the inside story getting damaged.
- Do not operate in locations where high humidity or dust levels are present and should avoid direct sunlight, high temperature or greasy area.
- In order to avoid electric shock, short circuit or printer malfunctions, please do not insert any objects of any kind in the printer air vent or at opening vent.
- Don't remove the printer's out-cover and repair the printer. When needed, call or take it to the professional.
- To ensure safety, please unplug this product prior to leave it unused for an extended period. The wall outlet you plan to connect to should be nearby and unobstructed.
- This product belongs to the impact printer; it produces obviously noise during printing, so we suggest placing this printer in a relatively independent area.
- When using the printer in room where ventilation is not good or printing a large amount of files, it is suggested to change the air in time.
- Unplug this product from the power outlet and leave servicing to qualified service personnel under the following conditions:
 - A. When the power cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the product.
 - C. If the product has been exposed to rain or water.
 - D. If the product does not operate normally when the operating instructions are followed.
 - E. If the product has been dropped or the cabinet has been damaged.

F. If the product exhibits a distinct change in performance, it indicates a need for service.

Note: The contents of this manual are subject to change without notice.

***All the parts of the printer can be recycled. When it is abandoned, we can call it back freely. Please contact us when you abandon it.**

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Chapter 1 Product Features

Thank you for choosing this printer. It is a 24 pin high speed bill/ passbook printer, and it can fulfill your multifunctional printing requirement. This printer has many new functions, which can make the usage more easily. We have made elaborate design in speed, copy, suitable paper and certificate, which makes the printer more suitable for printing various bills, cards and continuous bill printing.

The printer has the specialties as follows:

- **Flat push mechanism which solve the problem of paper jam**

Flat push mechanism can avoid the paper deformed, when using 1+n invoice, envelop, postcard, label, certificate, it can avoid the paper jam.

- **Load/eject function**

When the cut sheet is fed from the front of the printer, after printing, the paper can be ejected from the front or rear according to the requirement.

Install the continuous paper on the tractor, press **LOAD/EJECT** key to feed paper to the printing position. After printing the paper will be ejected from the front.

- **Tear paper function**

This function can make the continuous paper to feed to the tear position, so that the paper can aim at the tear position and realize precise tear off.

- **Function of paper eject**

This function allows the user to eject cut sheet/ continuous paper by the keys on the control panel.

- **High resolution of image printing**

Max. resolution of 360DPI (horizon) ×360DPI (vertical) and the image is clear.

- **Compatibility**

The command is compatible with OKI 5530SC and Epson ESC/PK2 which are popular control commands in printer market.

- **Large data buffer**

256KB large data buffer can take your computer time to the minimum, and allow the computer release the buffer of printing to other jobs.

- **Letter quality font**

There are Roman, Sans Serif, Courier, Prestige, Script, OCR-B, OCR-A and Orator fonts, which makes the file much better.

- **Bar code printing function**

Bar codes in the printer: Code 39, EAN 8, EAN 13, Code128 B&C, Codabar, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5.

- **Compress printing**

Modifying the printer menu system settings can set the compression proportion.

Note: Compression printing of menu system is invalid in high/super high speed.

- **Thick passbook and certificate printing function**

The printer can easily handle the passbook, certificate, card and thick paper whose thickness is within 2.0MM.

- **Auto certificate thickness detect**

When the gap adjust lever is in the position of "Passbook /card", the printer will adjust the height of the print head according to the thickness of the certificate.

- **Auto paper edge detect**

Auto detect the paper edge position, so that it can make sure the print content is within the paper.

- **Auto paper skew detect**

Auto detect the skewness of paper feeding, if it is over the stated tilt, the paper will be ejected, so as to make sure the printing quality.

- **Auto adjustment of the copy capacity**

After setting the print gap position, the printer can set the copy capacity automatically, so as to fulfill the copy requirement.

- **Contain break pin compensation function**

User can set to use the pin which is in good condition to compensate the broken pin.

- **Pin switch printing mode**

User can set to use several pins to rotationally print transverse lines of form in order to improve print head's life.

Chapter 2 Preparation

2.1 Unpacking and Checking

Check the following items in the package, if any of these items is missing, please contact your dealer.
(As Figure 2-1 shown)

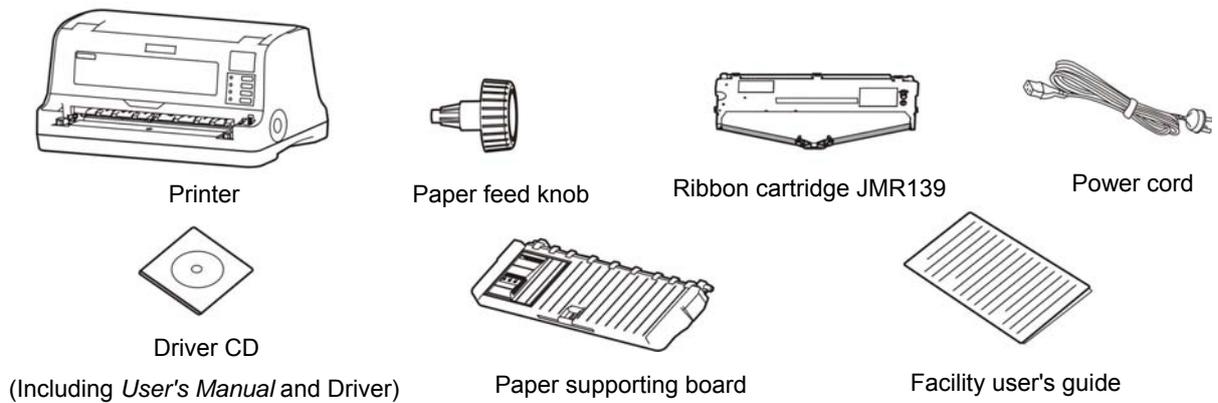


Figure 2-1 Items in the package

2.2 Removing the Protective Materials

1. Open the packing box, take out the printer, and tear off the fixed tape on the both sides of the printer. (As shown in Figure 2-2)
2. Save all the packing materials so that they can be used when transporting the printer in the future.

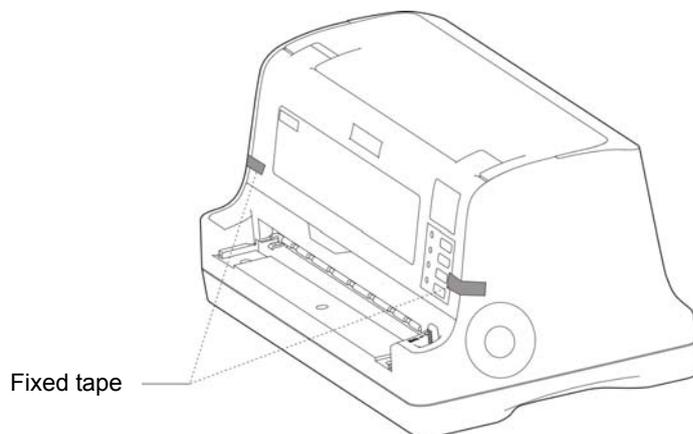


Figure 2-2 Tear off the fixed tape

2.3 Main Parts of the Printer

Figure 2-3 and Figure 2-4 show the main part names of printer.

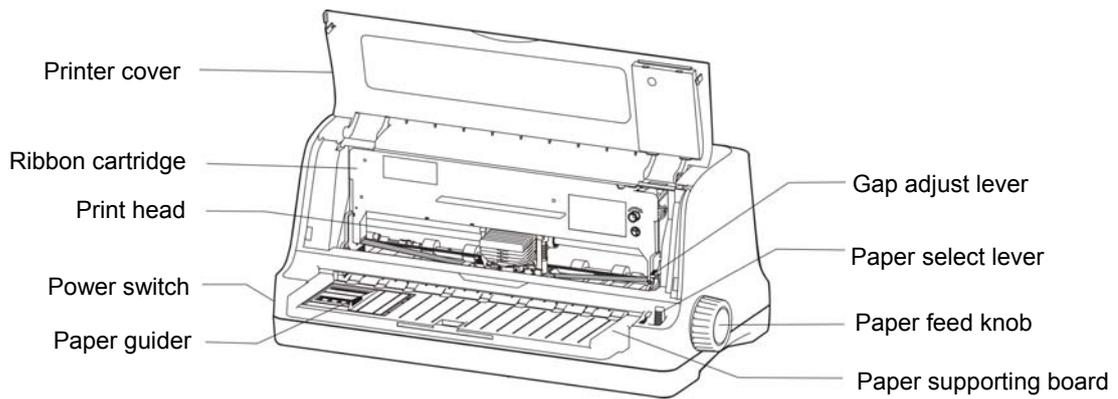


Figure 2-3 Main parts of the printer (Front view)

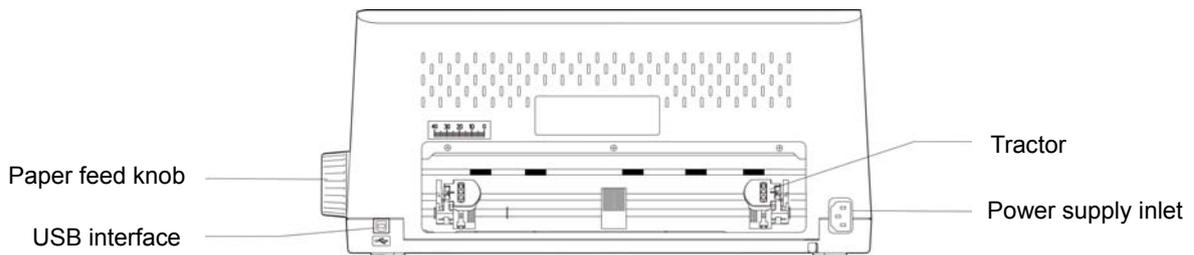


Figure 2-4 (1) Main parts of the printer (Rear view)

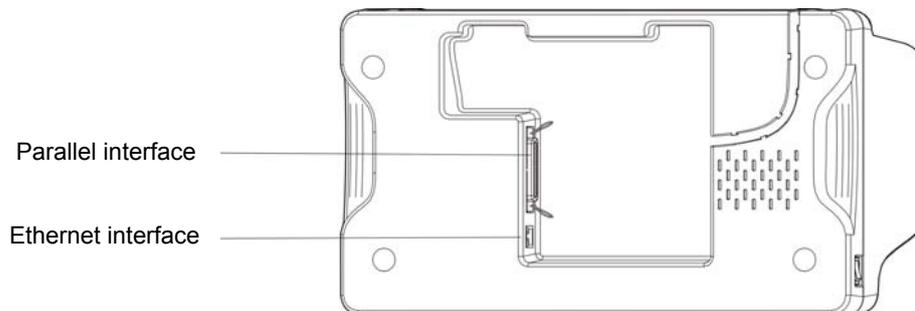


Figure 2-4 (2) Main parts of the printer

Note: Please take the specific interface as standard.

2.4 Installing the Printer

Before placing the printer in your chosen location, consider the following guidelines:

1. The printer should be put on a place that the surface is even and install the ribbon.
2. Do not place the printer on the following place:
 - The place is overheating or humid.
 - The place is shaking.
3. Do not use the printer where it may be subjected to
 - The place that is dusty
 - The place that is splattered with oil or metallic dust

- The place that is exposed to direct sunlight
- The place that may be accidentally splashed with water

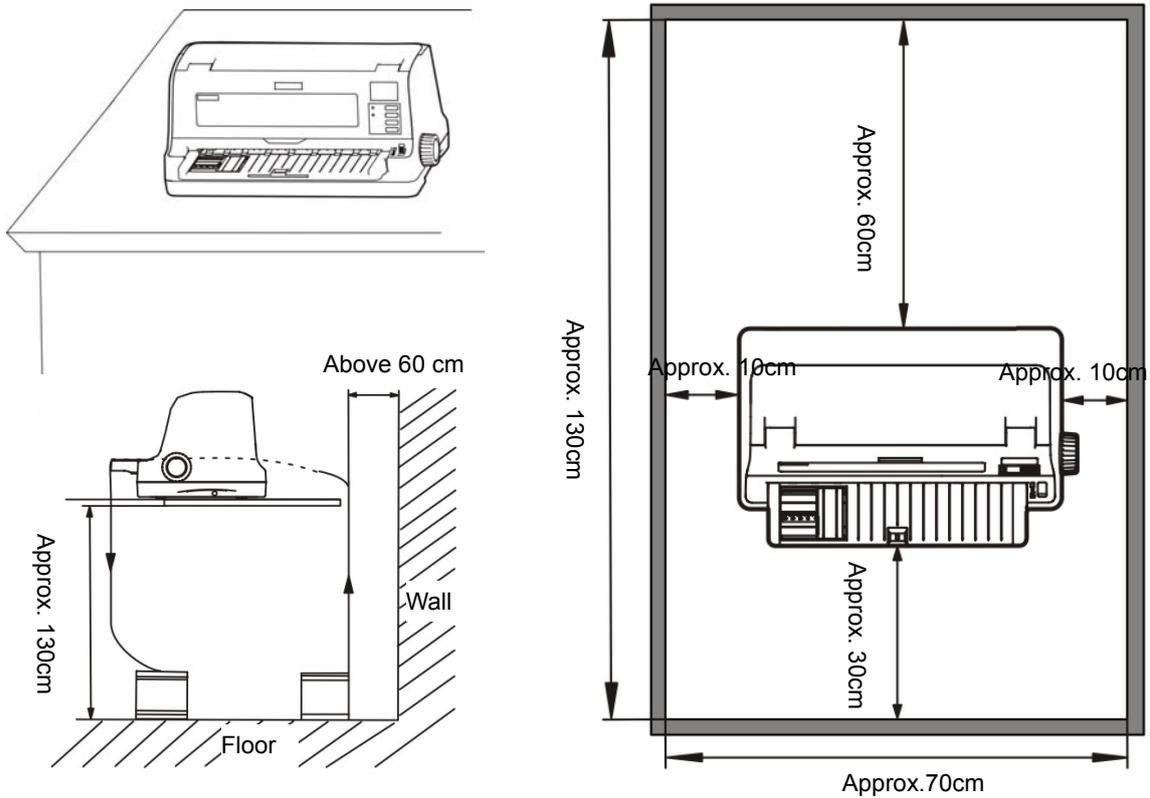


Figure 2-5 Printer placement

2.5 Installing and Removing the Paper Supporting Board

2.5.1 Installing the Paper Supporting Board

Insert the board to the slot of the front of the printer, then push it forward until it is locked (as shown in Figure 2-6).

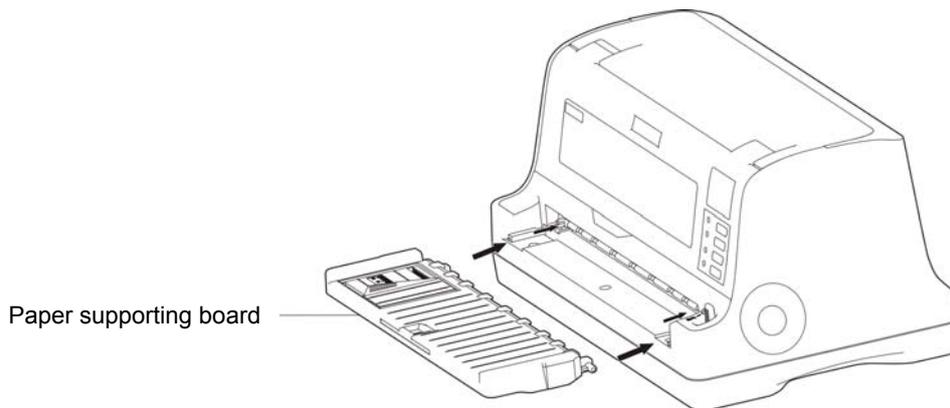


Figure 2-6 Installing the Paper Supporting Board

2.5.2 Removing the Paper Supporting Board

Hold the left and right ends of the paper supporting board with hands; pull it out while the thumbs hold against the printer and the paper supporting board can be taken out.

2.6 Installing the Paper Feed Knob

Make the opening of the paper feed knob aim at the D-shape shaft of the paper feed wheel shaft and put it into the shaft (as shown in Figure 2-7).

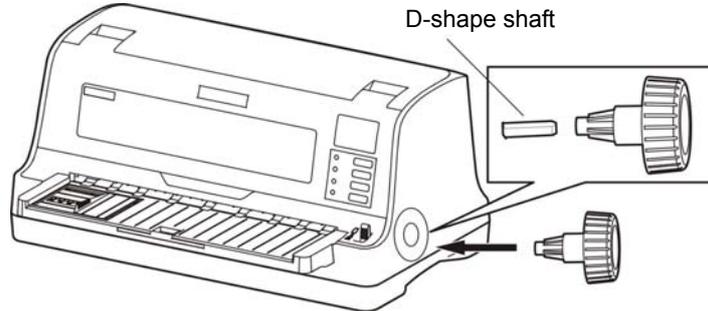


Figure 2-7 Install the paper feed knob

2.7 Installing the Ribbon Cartridge

1. Make sure the print head is in the ribbon nip install position.

Note: Don't replace the ribbon cartridge when the power is on, or else, the printer may start to work suddenly and you may get hurt.

2. Open the printer cover upwards (as shown in Figure 2-8).

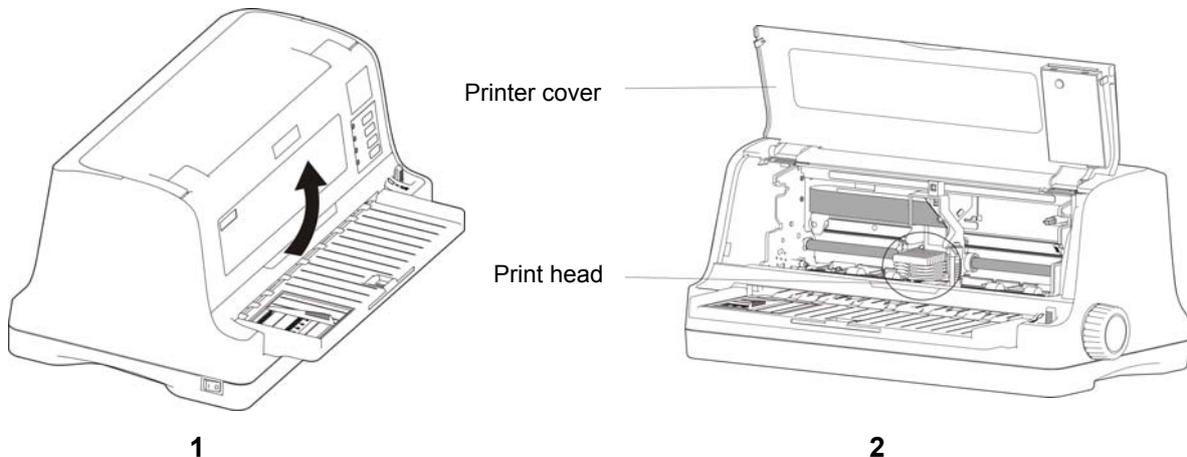


Figure 2-8 Open the printer cover

3. Pull the gap adjust lever to the "Ribbon change" position.

Caution: Don't move the print head when the printer is power on, or else, it may damage the printer. Moreover, don't touch the print head if the printer has just been recently used as the print head may be hot.

4. Take out the ribbon cartridge, the side with knob faces with user, turn the ribbon knob according to the arrow direction, so that the ribbon core can be tighten and it is easily to install (as shown in Figure 2-9).

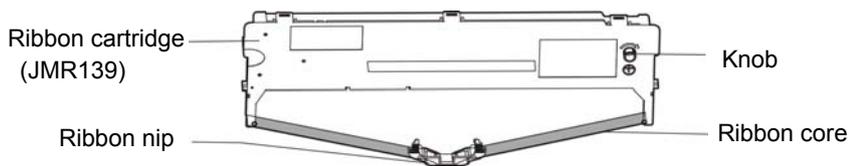


Figure 2-9 Ribbon cartridge

5. As shown in Figure 2-10, hold the middle position of the ribbon cartridge; make the buckles on the both sides aim at the slots of the printer, push it forward until it is locked in place. Then make the two holes of the ribbon nip aim at the two poles of the ribbon guide rack, and press them in place.

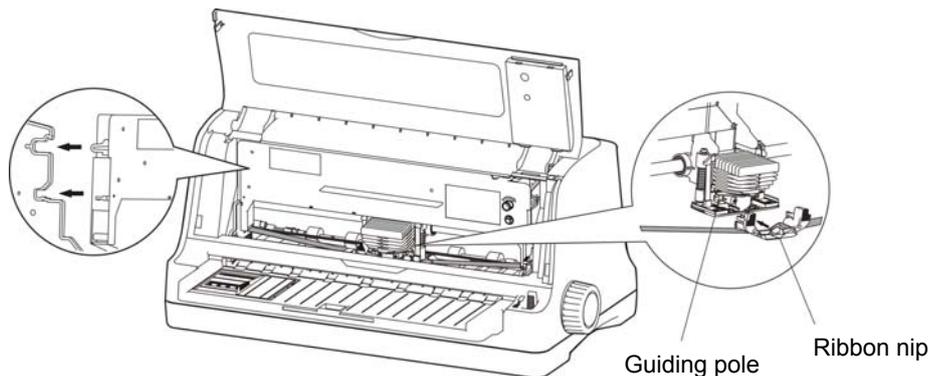


Figure 2-10 Install the ribbon cartridge

6. Make sure the ribbon core is smooth, and then turn the knob according to the arrow direction to tighten the ribbon core (as shown in Figure 2-10).
7. Move the print head several times to make sure the ribbon core is installed in place.
8. After installing the ribbon cartridge, please pull the gap adjust lever back to its position, and close the printer cover.

- Note:**
1. When the print becomes faint, you need to replace the ribbon cartridge. Otherwise, the print quality would be affected and the print head may be damaged.
 2. When you remove the ribbon cartridge, make sure the print head is in the ribbon nip installation position, take out the ribbon nip first, and hold the middle position of the ribbon cartridge and pull it forward, take it out from the printer. And then install a new ribbon by referring to the description above.
 3. Please use the Jolimark original JMR139 ribbon cartridge only. Manufacturer will not honor warranty when using unauthorized ribbon cartridge.
 4. Turn the ribbon knob as the arrow shown.

2.8 Connecting to Your Computer

The printer can be configured with USB interface, parallel interface, Ethernet interface, Bluetooth or Wi-Fi (Please take the specific interface as standard.). Please connect your computer and the printer with correct interface cable. (As Figure 2-11, 2-12, 2-13, 2-14 shown).

Caution: Before connecting the parallel interface or serial interface, you should make sure that the power of the printer is turned off. Only after tightening the cable could you turn on the printer, or else, it may damage the printer.

2.8.1 Connecting the USB Cable

1. Plug the USB cable A end (flat shape) into the computer's USB interface connector.
2. Plug the USB cable B end (square shape) into the printer's USB interface connector. (As shown in Figure 2-11)

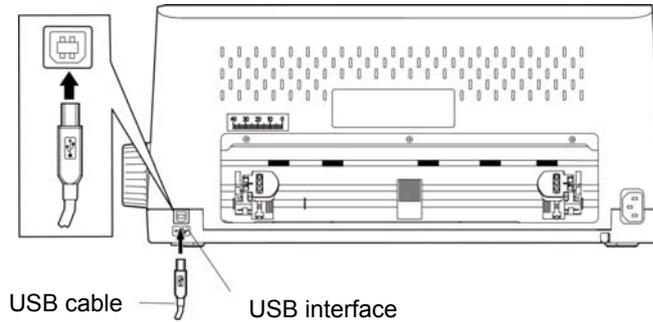


Figure 2-11 Connecting USB cable

Note: Do not impact the plug after connecting the USB cable.

2.8.2 Connecting the Parallel Cable

1. Make sure the computer and the printer are both turned off, plug the parallel cable to the parallel interface connector of the printer, Squeeze the wire clips on both sides and make the connector fixed. (As shown in Figure 2-12)
2. Plug the other end of the cable to the computer or other device's parallel interface. Tighten the screws on both sides and make the cable fixed.

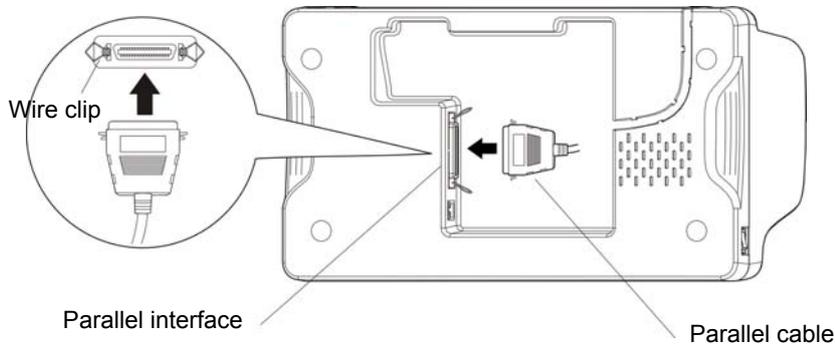


Figure 2-12 Connecting the parallel cable

2.8.3 Connecting the Ethernet Cable

Plug the end of the Ethernet cable (RJ-45) into the printer's Ethernet interface connector and the other end to the LAN (as shown in Figure 2-13).

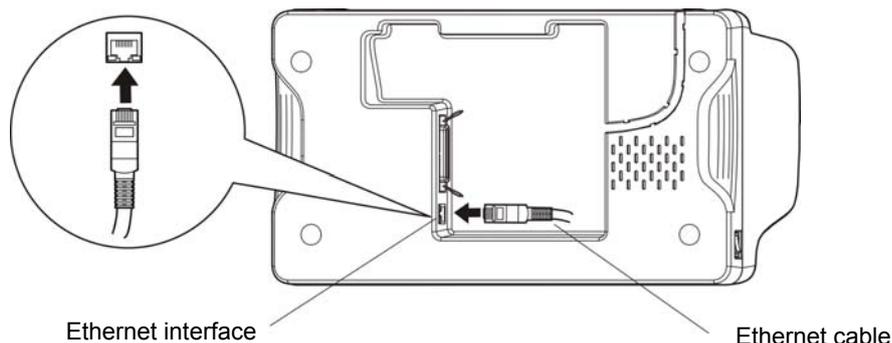


Figure 2-13 Connecting the Ethernet cable

Note: Please refer to the *user's manual* for detailed instructions of network settings.

2.9 Connecting the Power Supply

1. As Figure 2-14 shown, make sure the printer is turned off. (The pressed down side on the switch with "O" mark denotes the printer is off)
2. Make sure the voltage of the electrical outlet matches the voltage range of the AC adapter.
3. Plug one end of the power cord to printer's power supply inlet.
4. Plug the other end of the power cord into a properly grounded electrical outlet.

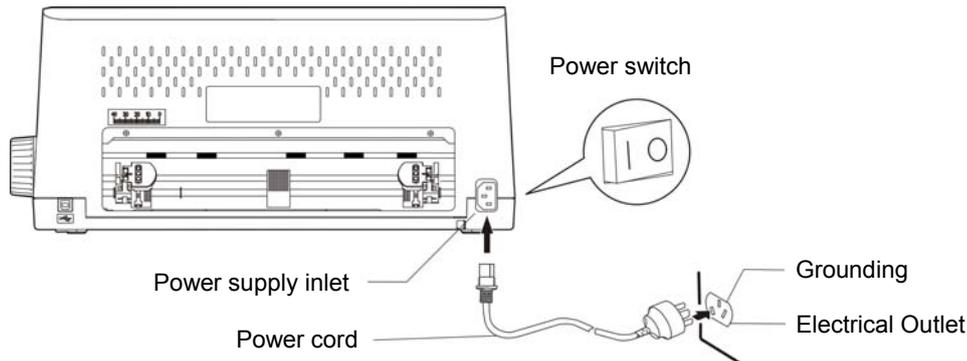


Figure 2-14 Connecting the power cord to the printer

- Press down the side of "I", the printer will be turned on.
- Press down the side of "O", the printer will be turned off.

Warning: 1. If the outlet voltage doesn't match the voltage range of the AC adapter, contact your dealer for assistance. Do not plug the power cord to electrical outlet.

2. Please use the electrical outlet connecting the ground properly.

2.10 Installing the Driver

Please use the cable to connect computer with printer, then turn on the computer and the printer, put the driver CD into the CD-ROM. Install driver by the following ways:

2.10.1 Auto-installing Way (Recommended)

Double click the file "Setup.exe" in the driver disc, install driver by the guide.

Note: Auto-installing way needs the operating systems of Windows2000 and above and the operating systems of Window 98/ME and below are not supported.

2.10.2 Hand-operated Installing Way

Note: This installing way is used for the people who have some knowledge on operating systems and equipment application.

2.10.2.1 The Operating Systems of Windows 2000/XP/Vista/Win7

(1) The hand-operated installing steps of parallel interface cable:

In the following, Windows XP is taken as an example to show the installing steps. There are slight differences among different operating systems. The installing way with other operating systems depends on the practical installing process.

- 1 Click "Start" → "Settings" → "Select Printers".
2. Click "Add Printer", then a window of "Add Printer Wizard" pops up, click "Next", then please read the select guide carefully, for example: select "Local Printer" in the "Local or Network Printer" window, then click "Next".
3. A window of "Select a Printer Port" pops up, according to your requirement, select "LPT1: (Recommended Printer Port)", click "Next".
4. A window of "Install Printer Software" pops up, click "Have Disk...".
5. A window of "Install From Disk" pops up. Please according to the operating system environment, you should select the path as follows: CD-ROM → "Drivers" → "WIN2000 (XP-Vista-Win7)", click "Open", then click "OK" to return to the window of "Install Printer Software", click "Next".
6. Follow the guide and click "Next" gradually until the installation is finished.

(2) The hand-operated installing steps of USB interface cable:

In the following, Windows XP is taken as an example to show the installing steps. There are slight differences among different operating systems. The installing way with other operating systems depends on the practical installing process.

1. Connect with the USB cable and turn on both the computer and the printer. After the computer finds out new hardware, and a window of "Found New Hardware" pops up — "Welcome to the new hardware wizard".
2. Select the "Set from the list or specific position", then click "Next".
3. A window of "Please choose your search and installation options" pops up, choose "Don't search, I will choose the driver to install", click "Next".
4. A window of "Add Printer Wizard" pops up, click "Have Disk...".
5. A window of "Install From Disk" pops up. Please according to the operating system environment, you should select the path as follows: CD-ROM → "Drivers" → "WIN2000 (XP-Vista-Win7)", click "Open", then click "OK" to return to the window of "Add Printer Wizard", click "Next".
6. Follow the guide and click "Next" gradually until the installation is finished.

2.10.2.2 The Operating System of Windows 8/Windows 10

The hand-operated installing steps of parallel interface or USB interface cable:

1. Enter "Control Panel" → "Device and Printers".
2. Click "Add Printer", then a window of "Add Printer" pops up, then click "Next", select "Add Local Printer Manually" in the "Local or Network Printer" window.
3. A window of "Select a Printer Port" pops up, according to your requirement, click "Use the Current Port", select "LPT1: (Printer Port)", USB interface or other interface, click "Next".
4. A window of "Install Printer Driver" pops up, click "Have Disk...".
5. A window of "Install from Disk" pops up. Please according to the operating system environment, you should select the path as follows: CD-ROM → "Drivers" → "Windows 8", click "Open", then click "OK" to return to the window of "Install Printer Driver", click "Next".
6. Follow the guide and click "Next" gradually until the installation is finished.

2.10.2.3 The Operating System of Windows 98

(1) The hand-operated installing steps of parallel interface:

1. Click "Start" → "Settings" → "Printers".
2. Double click "Add Printer", then a window of "Add Printer Wizard" pops up, select "Local Printer" in the "Local or Network Printer" window, then click "Next".
3. A window of "Click the manufacturer and model of your printer" pops up, click "Have Disk...", please click "Browse", select the path as follows: CD-ROM → "Drivers" → "WIN98 (WINME)", then click "OK".
4. A window of "Install from Disk" pops up, click "OK", return to a window of "Add Printer Wizard", then click "Next".
5. A window of "Printer Port" pops up, select "Available ports", according to your requirement, select "LPT1: (Recommended Printer Port)", click "Next", and then the printer's name will be shown. If the system has not installed other printer driver process, the printer is treated as default printer by the application process of Window98 environment, click "Next". Otherwise, according to prompt, choose the printer is default: "Yes", click "Next", choose "Yes-(recommended)", click "Finish". A window of "Printer test page completed" pops up, click "Yes".
6. The printer driver process is installed successfully.

(2) The installing steps with the USB interface cable:

Note: 1. As the system of Windows 98/ME doesn't integrate USB driver control, please install USB driver before using USB interface printing. Then install USB printer driver.

2. If it has installed the USB driver, please install the USB printer driver directly by the following steps.

USB driver installing steps:

1. Connect with the USB interface cable and turn on the printer.
2. After the computer finds out new hardware and finishes searching, a window of "Add New Hardware Wizard" pops up, click "Next".
3. A window of "Add New Hardware Wizard" — "Windows Operation" pops up, choose "Search the best driver for the device (recommended)", and click "Next".
4. A window of "Add New Hardware Wizard" pops up, check "Specify a location (L)", click "Browse", select the path as follows: CD-ROM → "Drivers" → "WIN98 (WINME)" → "USBdriver", then click "OK".
5. Return to the window of "Add New Hardware Wizard", click "Next"; a window of "Windows driver file search for the device" pops up, click "Next".
6. After the system finishing installing the file automatically, a window of "Jolimark USB Printer Supported" pops up, click "Finish".
7. The printer USB driver process is installed successfully.

USB printer driver installing steps:

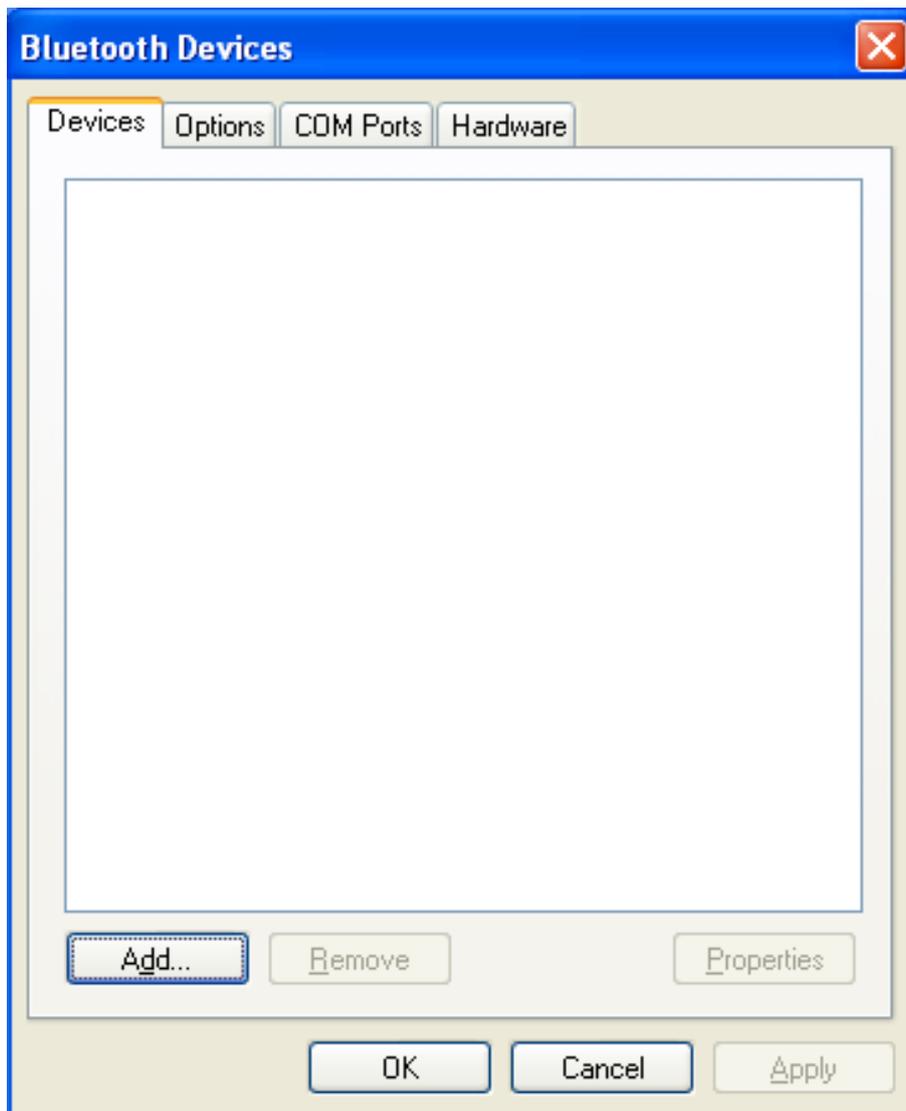
1. Click "Start" → "Settings" → "Printers".
2. Double click "Add Printer", then a window of "Add Printer Wizard" pops up, click "Next".
3. A window of "Click the manufacturer and model of your printer" pops up, click "Have Disk...", please click "Browse", select the path as follows: CD-ROM → "Drivers" → "WIN98 (WINME)", and then click "OK".

4. A window of "Install From Disk" pops up, click "OK", return to the window of "Add Printer Wizard", then click "Next".
5. A window of "Printer Port" pops up, select "Available ports", select "JMUSB", click "Next", and then the printer's name will be shown. If the system has not installed other printer driver process, the printer is treated as default printer by the application process of Window98 environment, click "Next". Otherwise, according to prompt, choose the printer is default: "Yes"; click "Next", choose "Yes-(recommended)", click "Finish". A window of "Printer test page completed" pops up, click "Yes".
6. The printer driver process is installed successfully.

2.11 Installing the Bluetooth Interface Driver

Note: Select to install this driver according to the chosen model.

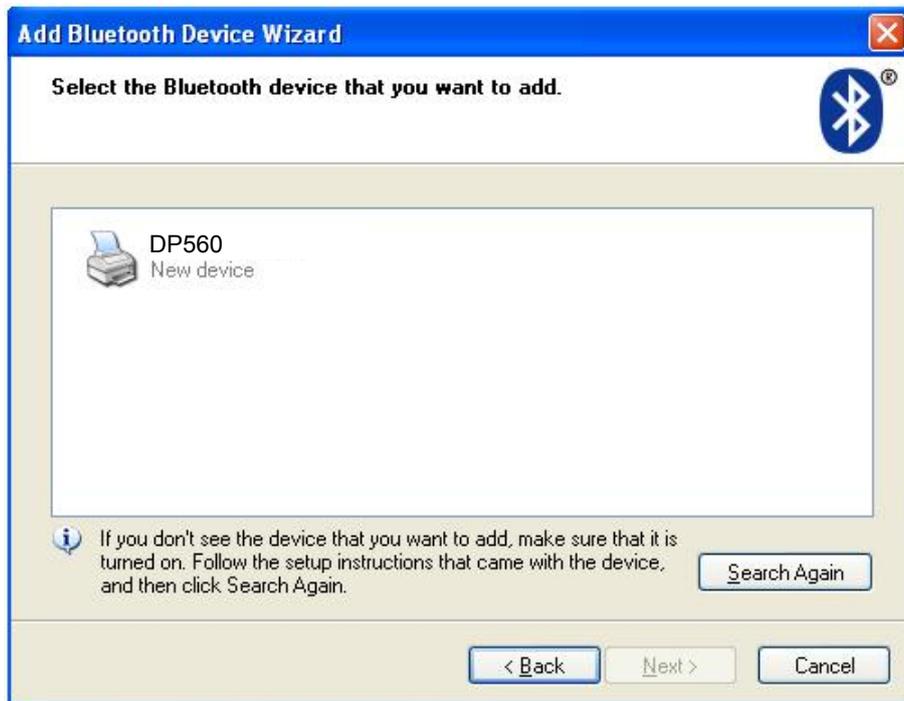
1. Choose the appropriate Bluetooth adapter, the operation system is Window XP or above which is with Bluetooth adapter driver.
2. Turn on the printer, search Bluetooth devices in Window XP system, and click "Add".



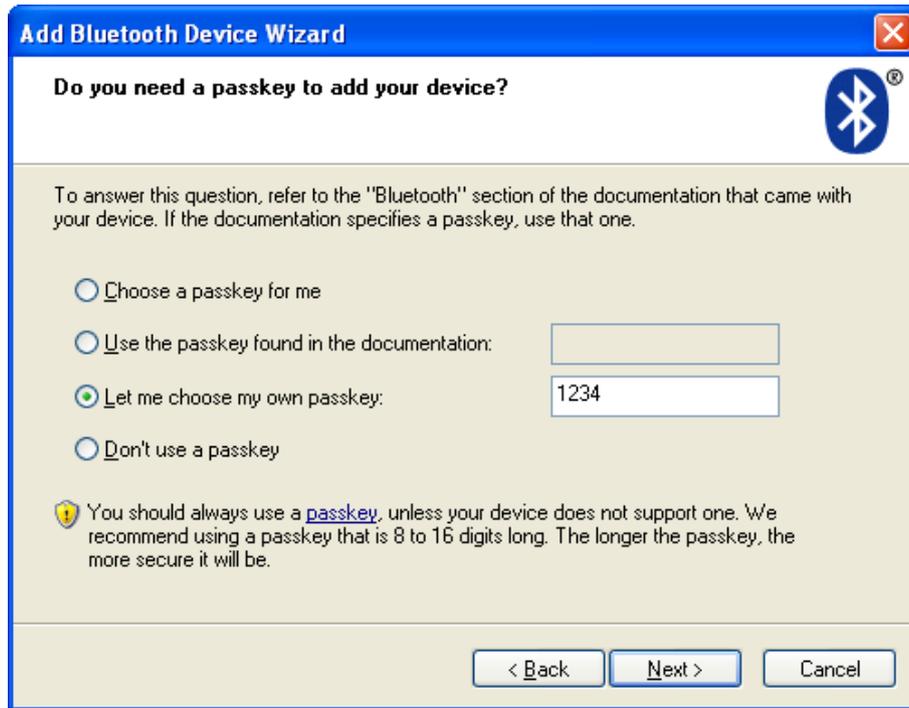
3. Tick off the option of “My device is set up and ready to be found.” Click “Next” to continue.



4. Select the “DP560”, and then click “Next”.



5. Tick off the option of “Let me choose my own passkey” and enter “1234” as shown, then click “Next”.



6. Record the Outgoing COM port and click “Finish”, then reboot the computer.



7. Set the printer driver print port as the outgoing port and the installation is finished.

Note: Every Bluetooth device has its own address. Please reinstall it when replacing the Bluetooth device.

8. After adding the Bluetooth port in the operating system, please install the printer driver by auto-installing way.

9. Select the virtual serial interface which is started with “JMCOM” in the port list of the driver, the port

name is corresponding to the serial port number generated by the above steps.

- Under some circumstances, files and port will be updated after restarting the operating system, if there is no corresponding port after installing the driver, please restart the operating system.

2.12 Ethernet Settings

Please use Jolimark network setting software NetFinder to set the IP address for Jolimark Ethernet interface network printers. NetFinder Software (NetFinder.exe) can be found in the CD or downloaded from www.jolimark.com

Note: The network printing function needs the operation systems of Windows2000 and above and the operation systems of Window 98/ME and below are not supported.

2.12.1 Connecting the Printer

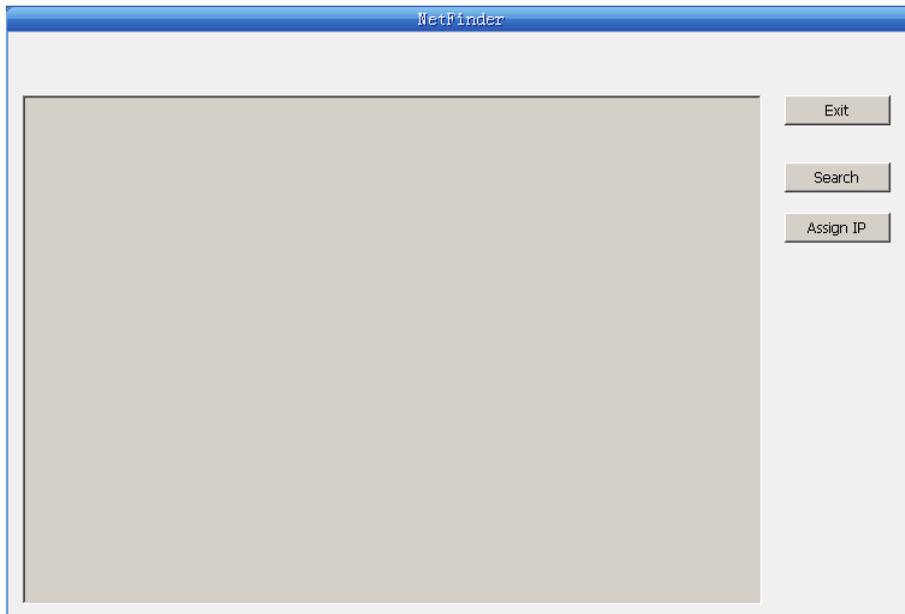
Power on the printer, connect with the Ethernet interface cable which has been connected to LAN, and look into the information of Ethernet LED to ensure the printer has entered the normal connection.

Orange LED	Green LED	Description
On	Blink	Online
Off	Off	Offline

2.12.2 Setting IP Address

1. Running NetFinder Software

Double click NetFinder.exe in the PC which connects the same LAN with the printer. The figure of the software is shown as follows:



Button description:

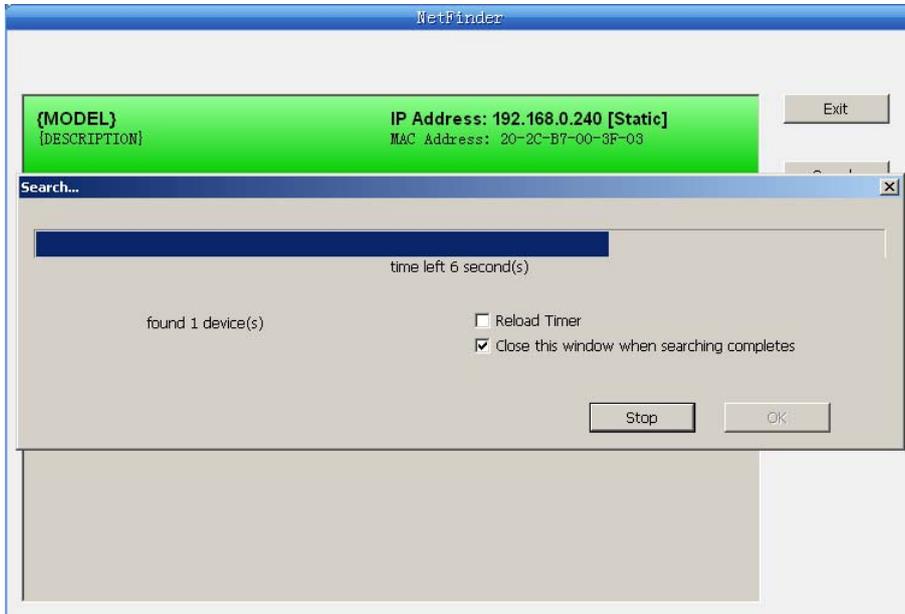
Exit — Exit from the software

Search — Search printers in the same LAN

Assign IP — Modify the IP address and other settings for the specified printer.

2. Searching the Printer

Click “Search” button in the main interface, the dialog box appearing will begin searching automatically and displays the status, listing a printer in the main interface if found. The time is counting down in the progress bar (10s in total) and the search will finish as soon as the time is over. If you need to go on searching, press “Search” button again.

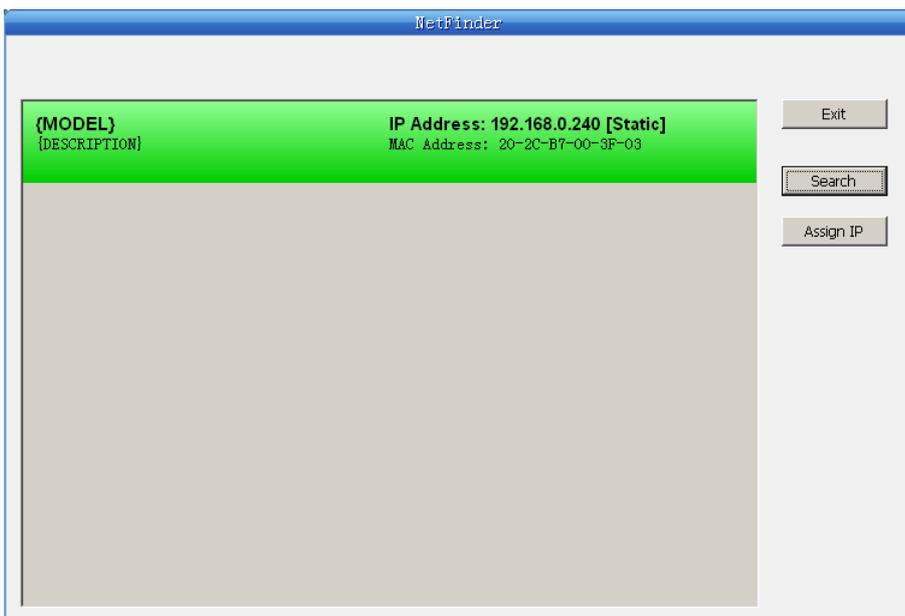


If the printer connects correctly, the IP address can be found in a search period.

If the printer still can not be found out when the network connection is correct in the same network. Please check whether the network fire wall on the PC is open or not. If the fire wall is open, please close it temporarily, open again after finish searching and setting the printer completely.

3. Setting Printer's IP Address

The printer's information is listed in the main interface, the left side of which is the model and description and the right are the IP address and MAC address. What's more, the assign mode (dynamic/static) is noted behind the IP address.



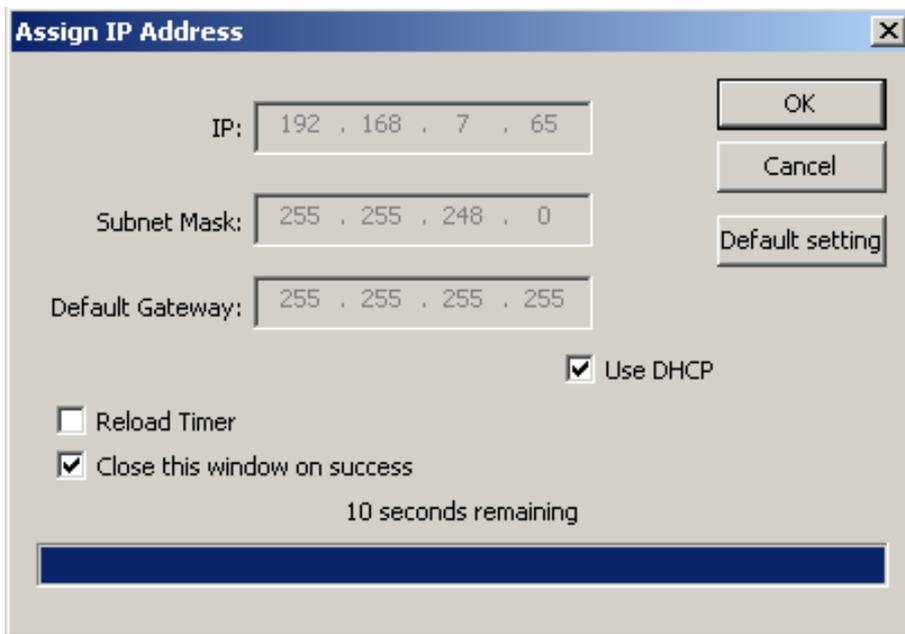
1) Correlative description for IP address settings

In order to search and set printer's IP address conveniently for the first time, the factory default setting is DHCP mode which assigns IP address dynamically. If there is no DHCP server in the connected LAN but printer is set to DHCP mode, then it will use the internal pre-set address (IP: 10.0.0.1, Subnet Mask: 255.255.255.0) automatically.

It is suggested that printer's IP is set to static in actual usage, which can cut down the time when initializing the Ethernet interface as the printer is turned on and prevent IP conflicts (The dynamic address used in printer may conflict with another one). The network segment part of the IP address and Subnet Mask must be the same as those of PC connecting with a printer. For example, the address of working PC is 192.168.0.1/255.255.255.0 (IP/Subnet Mask), then which of printer should be set to 192.168.0.x/255.255.255.0 (x=2~254 and should avoid the occupied IP). It is not restricted for NetFinder to search printers in the same network but different segment parts (can not stride gateway). Relative glossary of IP address may refer to corresponding information.

2) Setting printer's IP address

Select the printer information to be modified (black frame appears), click "Assign IP" button. Set the IP in the dialog box appearing.



Check the "Use DHCP" if needed to assign dynamic address, the settings above will be disabled automatically. Please make sure there is a DHCP server in the network, or the printer can not receive an effective IP address.

When to specify static address, uncheck "Use DHCP" and fill in "IP address", "Subnet Mask" and "Default Gateway". If there is no gateway in the network, fill 255.255.255.255 in the "Default gateway". "IP address" and "Subnet Mask" should obey the assigning rules of local LAN (Ethernet), please enquire the administrator of networks which the printer connects to for more details.

Click "OK" to send address setting information to the specified printer. Click "Cancel" if you abandon the modification.

Click "Search" in the main interface again to update printer information after modifying the printer's IP address and restarting the printer.

3) Record printer's IP address

Record the printer's IP address, which will be used in the section "Newly-install printer network driver" or "Upgrade-install printer network driver (setting driver's network port)".

2.13 Wi-Fi Setting of Jolimark Printer

2.13.1 Connecting the Printer

TP830 is taken as an example to respectively describe the connection of Windows, Android and iOS operation systems. Please make the connection according to the operating guide of the current system, and skip to the next chapter “**Wi-Fi Parameters Description**” when the connection is successful.

(1) Connecting to the equipment in Windows

Take Windows XP operating system as an example to show how to connect the printer with the equipment in Windows system.

1. Turn on the printer and make sure the printer is in normal working condition. Start the operation 30 seconds after the printer is on.
2. Right click “My Network Places”, and then click “Properties” to find the “Local Area Connection 2”. Double click it and the window of “Wireless Network Connection” pops up, select and double click the corresponding printer Wi-Fi name. The printer Wi-Fi default name is composed of “the printer model+10 SN numbers” (as shown in Figure 1)

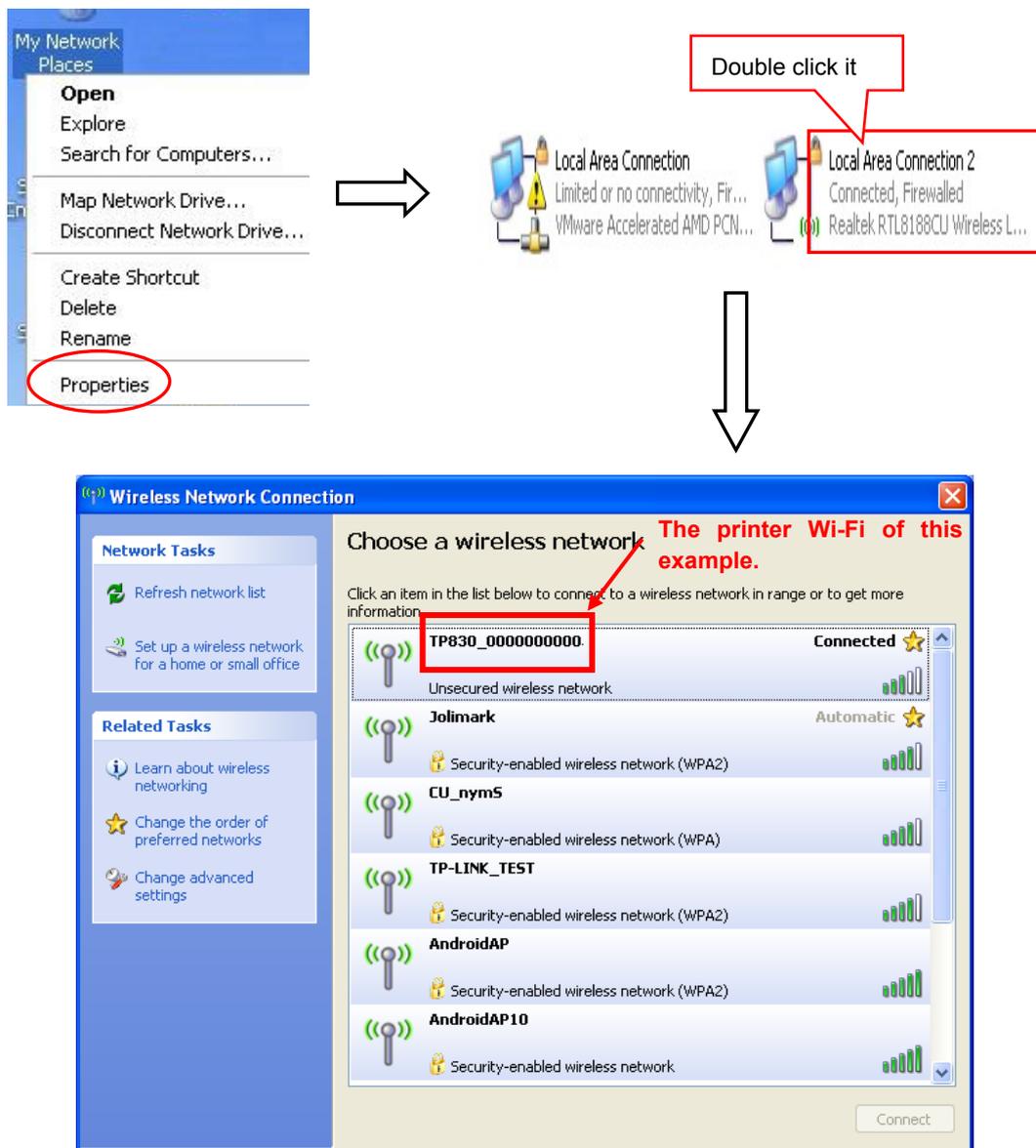


Figure 1

(2) Connecting to the equipment in Android

Take the mobile phone of Android 4.4 as an example to show how to connect the printer with the equipment in Android.

1. Turn on the printer and make sure the printer is in normal working condition. Start the operation 30 seconds after the printer is on.
2. Click “Settings” and the interface pops up. Select the “WLAN” function to “ON”, then click the printer Wi-Fi searched by the mobile phone to connect. The printer Wi-Fi default name is composed of “t the printer model+10 SN numbers” (as shown in Figure 2).

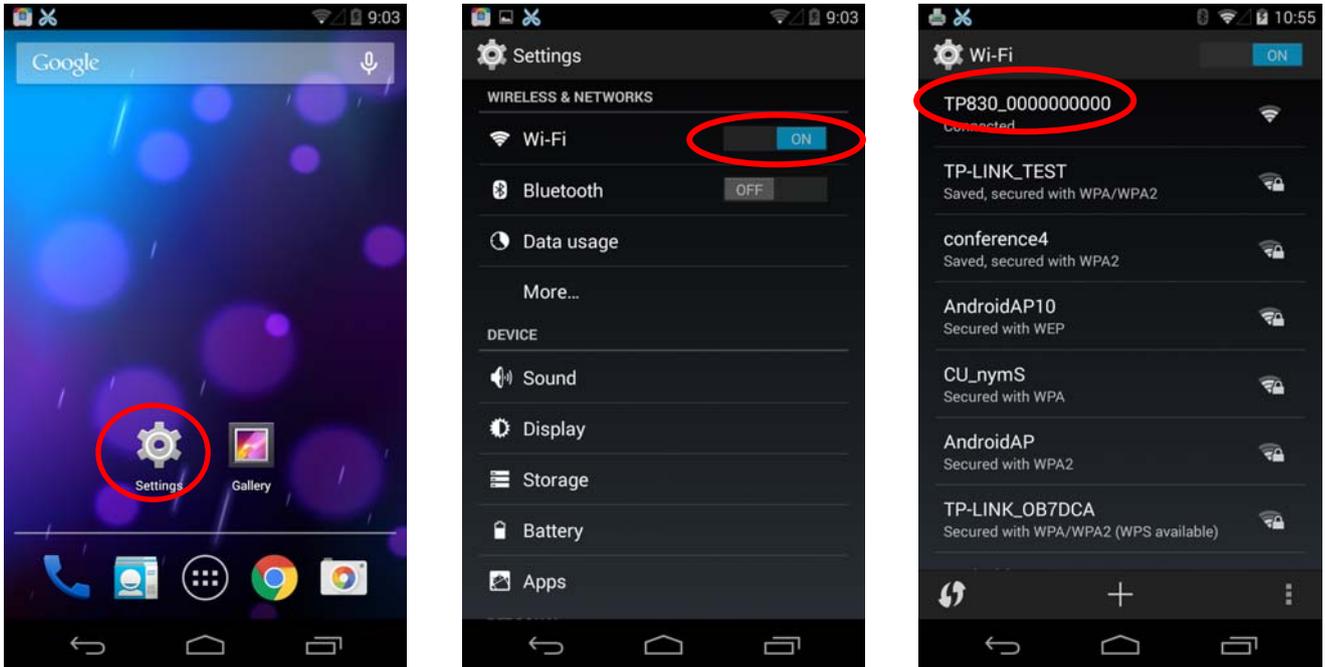


Figure 2

(3) Connecting to the equipment in iOS

Take the mobile phone of iOS 8.1 as an example to show how to connect the printer with the equipment in iOS.

1. Turn on the printer; make sure the printer is in normal working condition. Start the operation 30 seconds after the printer is on.
2. Click “Settings” and the interface pops up. Select the “WLAN” function to “ON”, then click the printer Wi-Fi searched by the mobile phone to connect. The printer Wi-Fi default name is composed of “the printer model+10 SN numbers” (as shown in Figure 3).

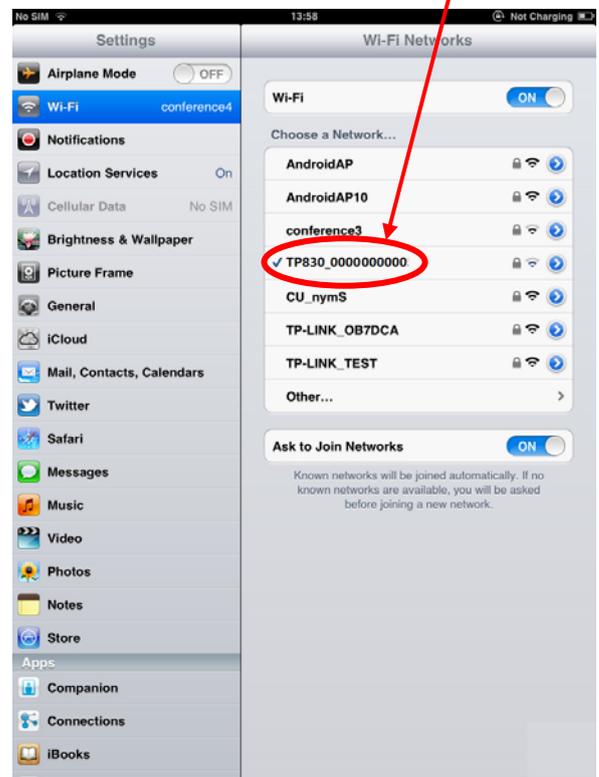
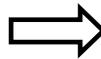


Figure 3

2.13.2 Wi-Fi Parameters Description

After connecting the equipment with the printer through wireless network, please import <http://10.10.10.1> in the browser address bar and enter, then the setting interface pops up. The display style of setting interface may differ in different systems, but the parameter items are the same. Take Windows XP as an example in the following, as shown in Figure 4.

==	
F/W Version	1.0.306 Dec 5 2014
Select Language	English <input type="button" value="v"/>
<input type="button" value="Apply"/>	
Wireless Settings	
BSSID	CC:D2:9B:35:43:7C
Network Name(SSID)	TP830_0000000000
IP Address	10.10.10.1
Subnet Mask	255.255.255.0
Security Mode	Disable <input type="button" value="v"/>
AP Client	
BSSID	CC:D2:9B:35:43:7D
Channel	Auto <input type="button" value="v"/>
SSID	<input type="text"/>
Security Mode	OPEN <input type="button" value="v"/>
Encrypt Type	None <input type="button" value="v"/>
Address Assignment	DHCP (Auto config) <input type="button" value="v"/>

Figure 4

You can select Simple Chinese, Traditional Chinese and English in the “Select Language” and the default language is English. When you need to change the language, just select the language you need in the “Select Language” and then click “Apply” (as shown in Figure 5).



Figure 5

(1) Printer-equipment connected printing

Printer-equipment connected printing is a way of printing which uses printer as the hotspot and connects the wireless equipment for printing.

“Wireless Settings” is the relevant setting parameter when the printer is as the hotspot (as shown in Figure 6). In the printer-equipment connected printing mode, the parameters of the wireless equipment must match that of the printer so as to make the communication successful. Please record the relevant parameters and input them in the wireless equipment correctly.

After you finish resetting the parameters in the setting column, click “Apply” on the upper side of “Update Firmware”. Then the countdown interface of saving the modification appears and the wireless equipment can conduct communications with the printer as soon as the countdown is over.

Wireless Settings	
BSSID	CC:D2:9B:00:00:52
Network Name(SSID)	<input type="text" value="TP830_0000000000"/>
IP Address	<input type="text" value="10.10.10.1"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Security Mode	<input type="text" value="Disable"/>
AP Client	
BSSID	CC:D2:9B:00:00:53
Channel	<input type="text" value="Auto"/>
SSID	<input type="text"/>
Security Mode	<input type="text" value="OPEN"/>
Encrypt Type	<input type="text" value="None"/>
Address Assignment	<input type="text" value="DHCP (Auto config)"/>
IP Address	<input type="text"/>
Subnet Mask	<input type="text"/>
<input type="button" value="Apply"/>	
Update Firmware	
Location:	<input type="text"/> <input type="button" value="Browse..."/>

Figure 6

Description in “Wireless Settings”

BSSID: The address of the printer wireless card in the “Wireless Settings”, which is the MAC address (Valid when it’s in printer-equipment connected printing).

Network name (SSID): The network name of the printer wireless card. You can modify it if necessary, but you have to connect the network again after modifying.

IP Address: The IP address of the printer wireless card. You can modify it if necessary, but you need to enter the browser with the new IP after modifying.

Subnet Mask: The subnet mask of the printer wireless card. You can modify it if necessary.

Security Mode: The security mode of the printer wireless card. You can modify it if necessary.

If the connection between printer and computer is exceptional, please restart the printer or modify “Channel” in “AP Client”.

(2) AP connected printing

AP connected printing is a way of printing which connects the printer with the wireless equipment by the outer hotspot.

“AP Client” (as shown in Figure 7) includes the setting parameters of AP connection. Please fill in the information of current outer hotspot in the corresponding place. The parameters of the printer should match that of the current outer hotspot so as to make the communication successful. Please input them correctly.

AP Client	
BSSID	CC:D2:9B:00:00:53
Channel	Auto ▼
SSID	<input type="text"/>
Security Mode	OPEN ▼
Encrypt Type	None ▼
Address Assignment	DHCP (Auto config) ▼
IP Address	<input type="text"/>
Subnet Mask	<input type="text"/>
<input type="button" value="Apply"/>	

Figure 7

Description in “AP Client”

BSSID: The address of the printer wireless card in “AP Client”, which is the MAC address. (Valid when it’s in AP connected printing)

Channel: Select the corresponding channel according to the hotspot setting (Automatic is recommended).

SSID: The Wi-Fi name of the current hotspot.

Security mode: Select the corresponding security mode according to the hotspot setting.

Encrypt type: Select the corresponding encrypt type according to the hotspot setting.

Acquiring and Setting the Security Mode and Encrypt Type

There are three ways to acquire security mode and encrypt type:

- (1) Get the security mode and encrypt type according to the corresponding network information given by the network administrator
- (2) Find them by entering the router of hotspot with the administrator’s account.
- (3) Find them through Windows operating system and the steps are shown below (Take WIN XP as an example):
 - ① Right click “My Network Places”, and click “Properties”, then double click “Local Area Connection 2” (as shown in Figure 8).

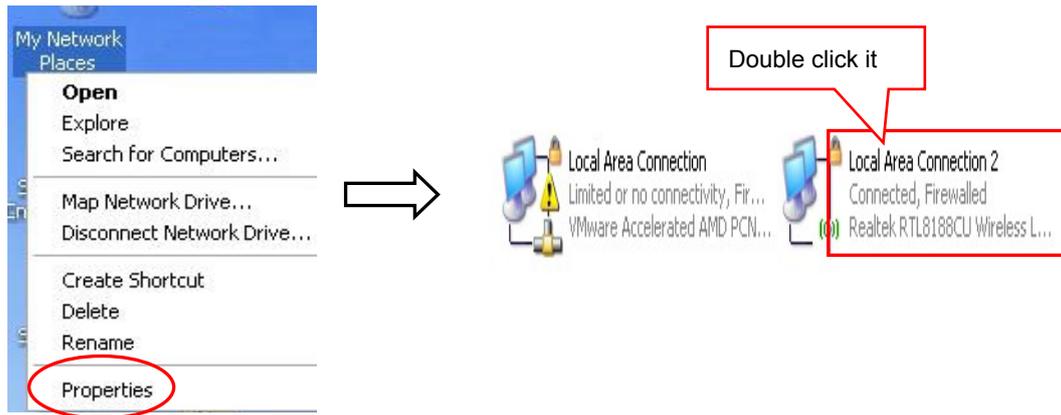


Figure 8

- ② The dialog box “Wireless Network Connection Status” pops up, then click “Properties” (as shown in Figure 9).

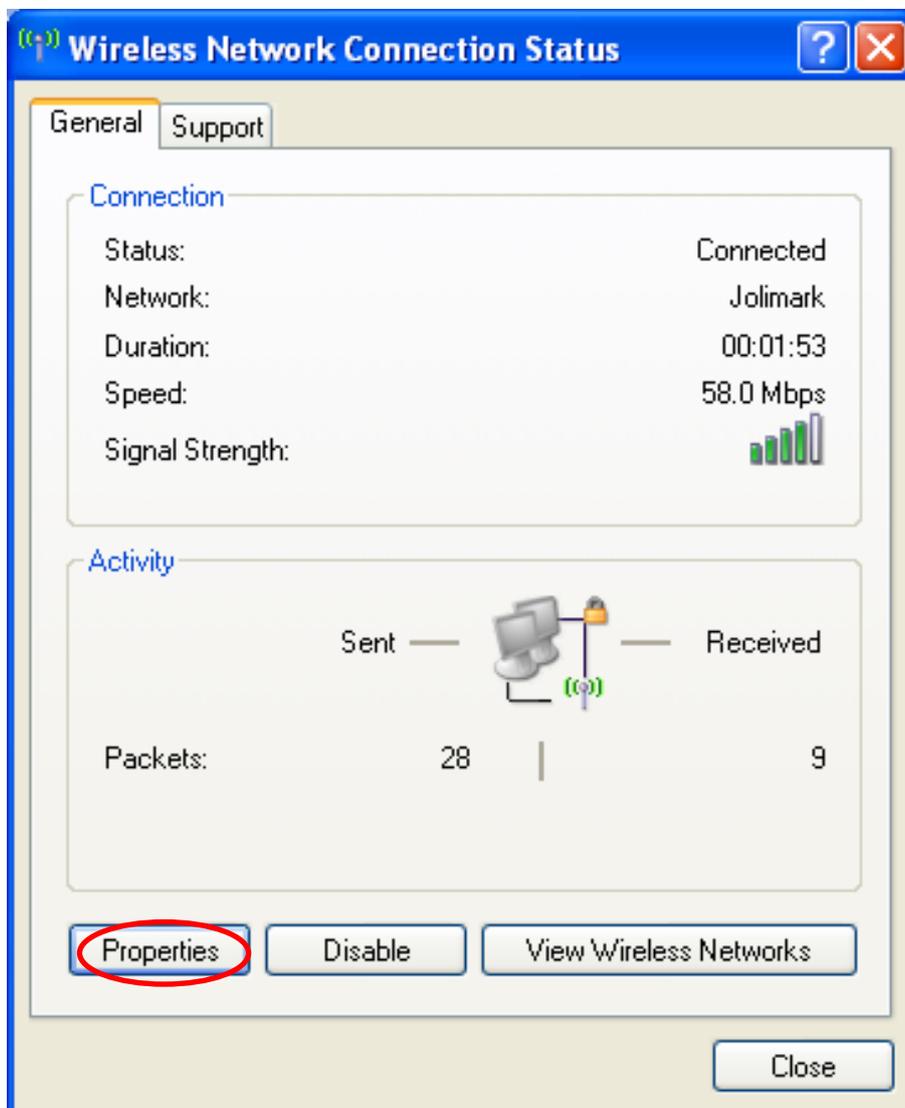


Figure 9

- ③ When the dialog box pops up, click “Wireless Networks” on the upper side of the dialog box (as shown in Figure 10).

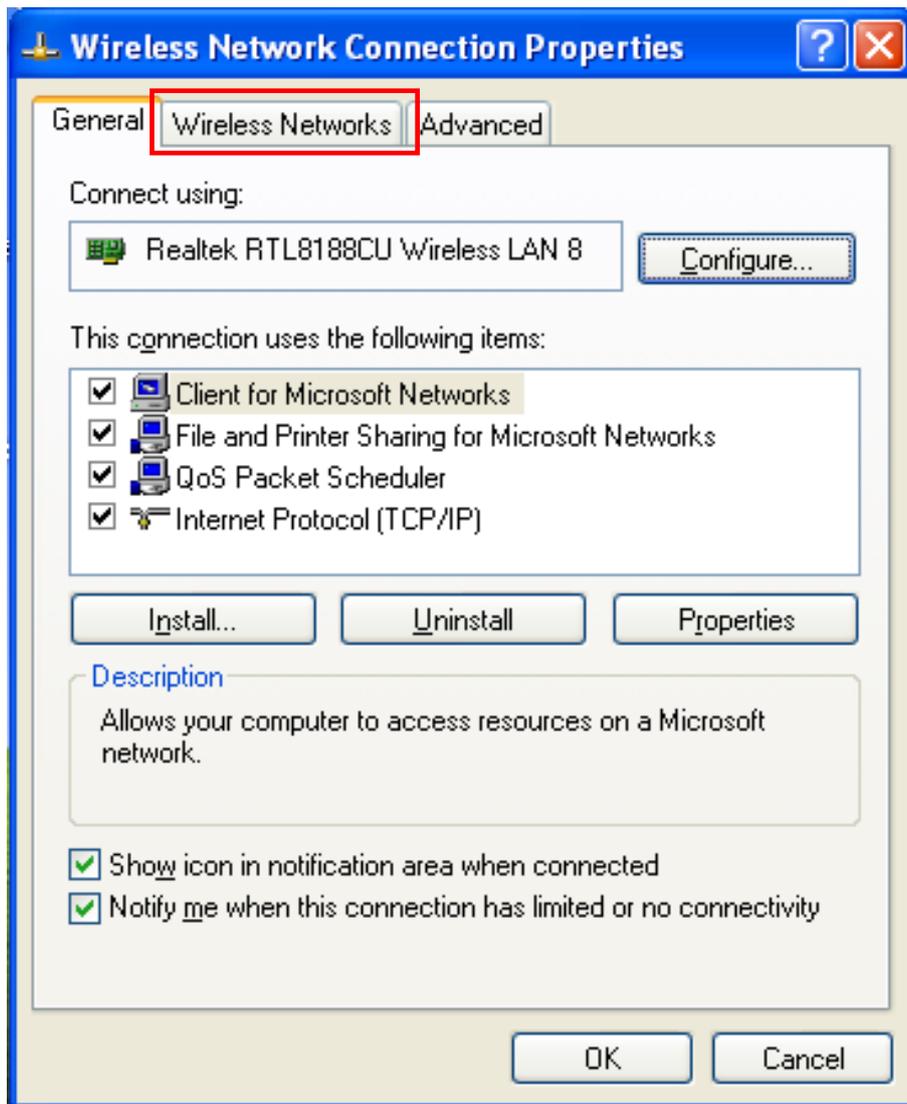


Figure 10

- ④ Select the current wireless network name in “Preferred networks” and then click “Properties” (as shown in Figure 11).

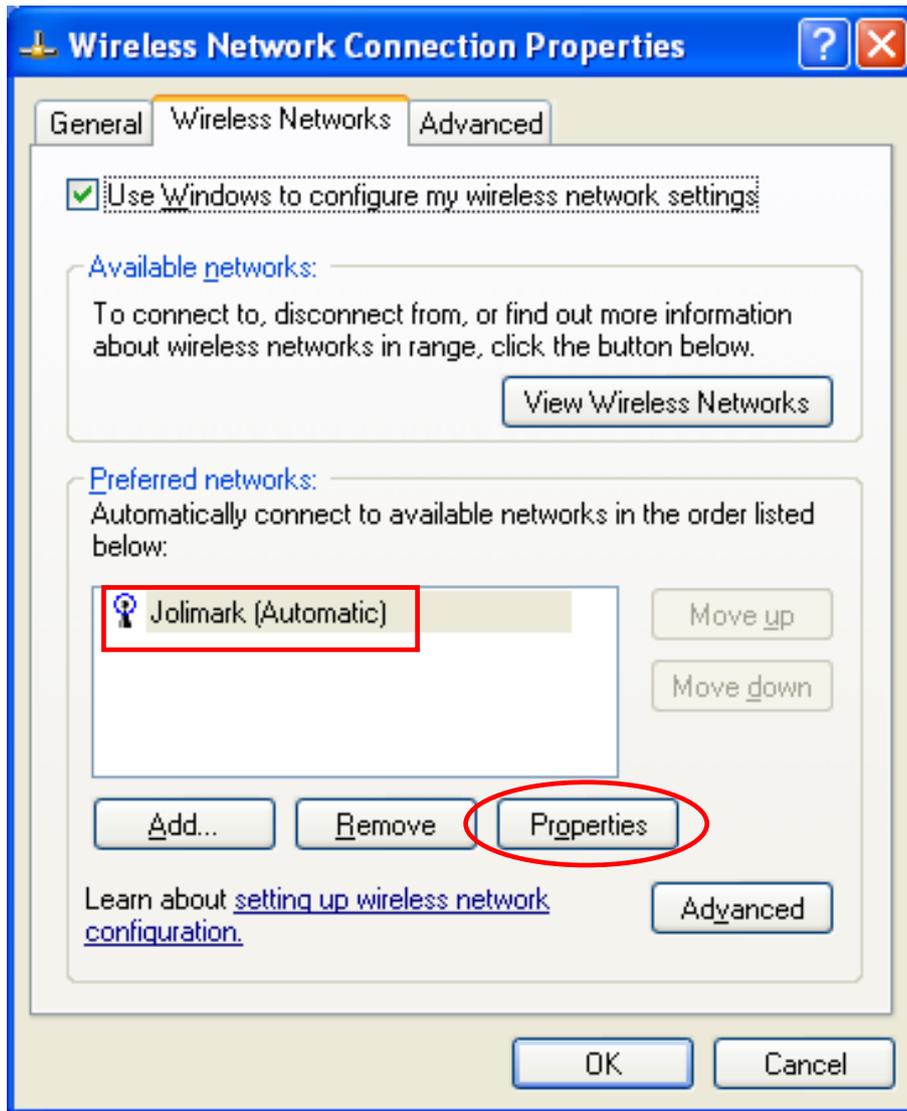


Figure 11

- ⑤ When the window of “Properties” pops up, find out the security mode and encrypt type in “Wireless network key” (as shown in Figure 12).

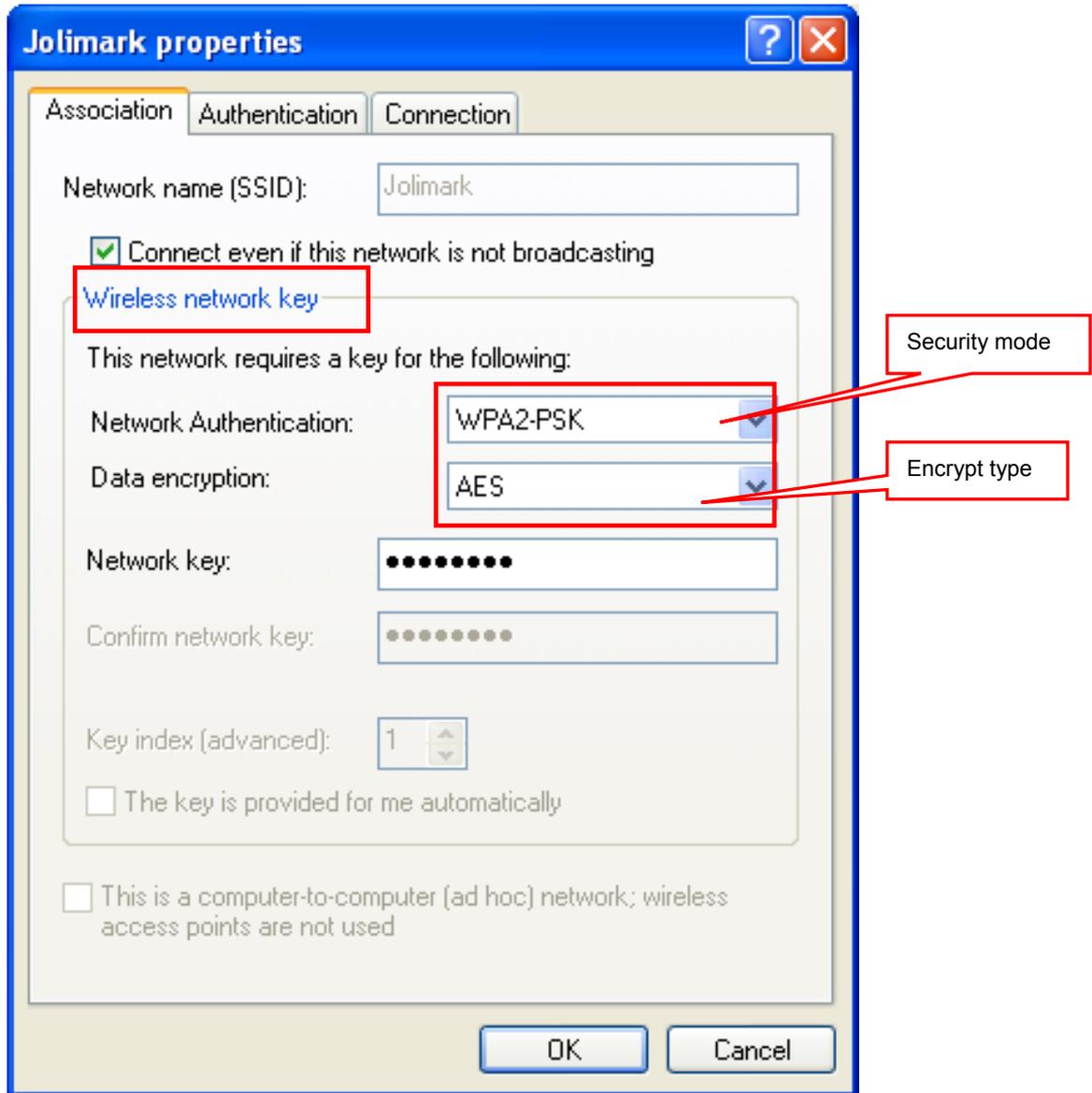


Figure 12

- ⑥ Close the windows in turn, then the dialog box “Local Area Connection 2 Status” pops up according to the operation of step ①, click “View Wireless Networks” (as shown in Figure 13). When the window of “Wireless Network Connection” pops up, double click the current hotspot and the connection will be disconnected (as shown in Figure 14).

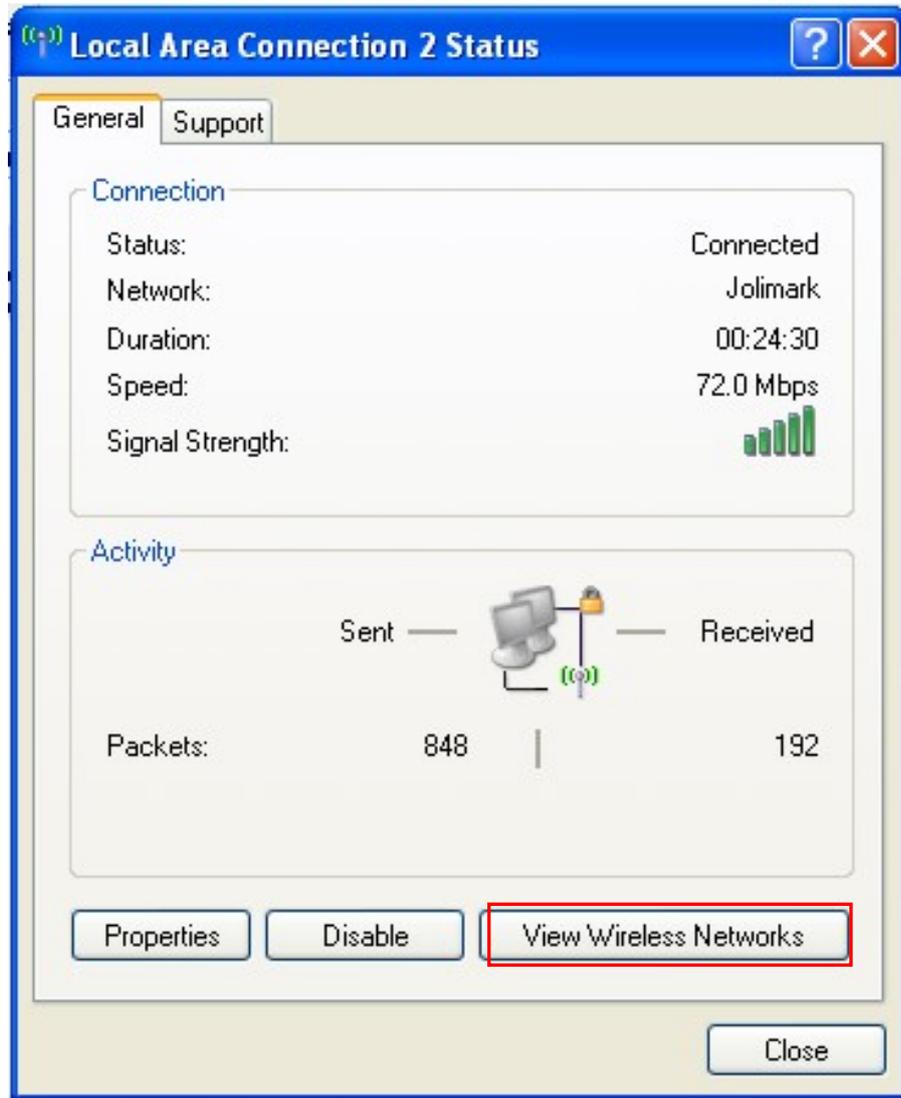


Figure 13

The current Wi-Fi hotspot of this example.

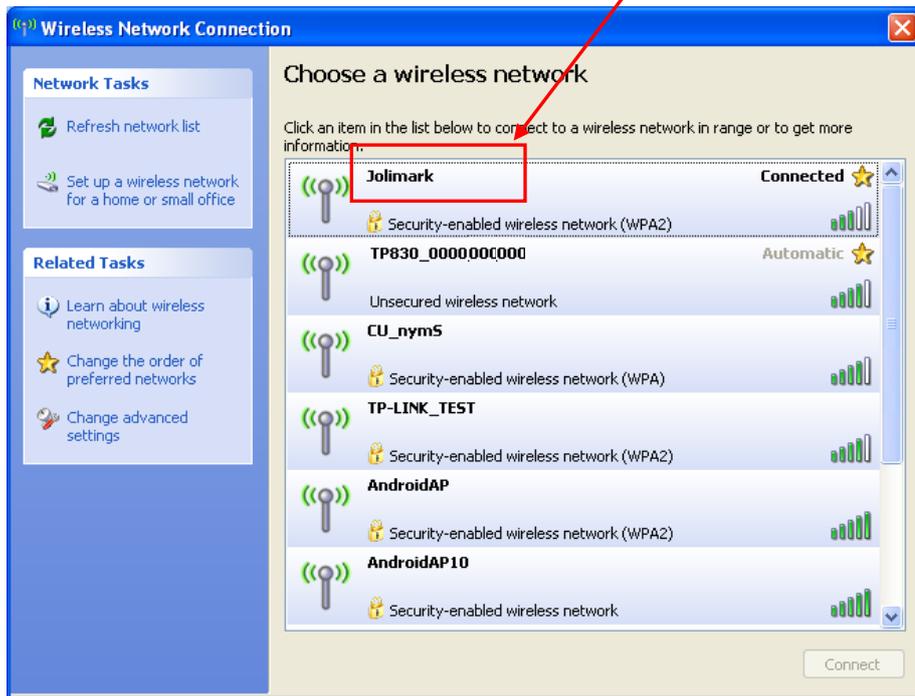


Figure 14

The setting of Security Mode and Encrypt Type

Refer to **“Connecting the Printer”**, connect the wireless equipment with the printer and select the parameters acquired by the above steps in the **“Security Mode”** and **“Encrypt Type”** of the **“AP Client”**.

Pass Phrase: The password of the hotspot

Address Assignment: It includes **“DHCP (Auto config)”** and **“Static (Assigned IP)”**. You can select the corresponding assignment way according to your need. When selecting **“DHCP (Auto config)”**, the IP Address and Subnet Mask can be acquired automatically (Click **“Apply”** and the system will assign automatically), and there is no need to set manually (as shown in Figure 15).

AP Client	
BSSID	CC:D2:9B:00:00:53
Channel	1
SSID	Jolimark 
Security Mode	WPA2PSK
Encrypt Type	AES
Pass Phrase	••••••••
Address Assignment	DHCP (Auto config)
IP Address	192.168.43.129
Subnet Mask	255.255.255.0
<input type="button" value="Apply"/>	

Figure 15

Note: The green handshaking mark on the right side of the SSID column denotes the connection between the printer and the outer Wi-Fi hotspot is successful.

IP Address: Set the IP address of the printer wireless card and the IP address should be in the same segment with the wireless networks you are using.

Subnet mask: Set the subnet mask of the printer wireless card and the subnet mask should be the same with that of the wireless networks you are using.

Click “Apply” after all the parameters are set, then the countdown interface appears. When the time is over, disconnect the computer with the printer and connect the computer with the outer hotspot.

Update Firmware: Upgrade the wireless module of the printer (as shown in Figure 16), and you can neglect it if there is no need to upgrade.

Update Firmware	
Location:	<input type="text"/> <input type="button" value="Browse..."/>
It takes about 1 minute to upload and upgrade flash and be patient please. Caution! A corrupted file will hang up the system.	
<input type="button" value="Apply"/>	

Figure 16

2.13.3 Wi-Fi Interface Status Display and Parameters Reset

Printer with Wi-Fi interface, when the Wi-Fi can not be connected because the password is forgotten or the Wi-Fi parameter settings is error, use can settle this by Wi-Fi reset, restore the Wi-Fi

parameters to default setting, and then set the parameters again.

Method of Wi-Fi reset:

It is suggested to use USB interface to reset Wi-Fi, USB interface is taken as an example to describe in the following.

1. Make sure the computer and printer is connected with USB cable, turn on the computer and printer, the printer is in normal working condition.
2. In WINDOWS system, double click the "setup.exe" in the driver CD, run the driver installation guide.
3. In the window of driver installation guide, click "Printer port management", the window of "Printer port management" will pop up.
4. In the window of "Printer port management", select the corresponding USB port in "Change printer port". (If use other ports, please select the corresponding port and make sure the connection is normal.)
5. Click "WIFI reset", the prompt window pops up.
6. Click "Yes" in the prompt window, Wi-Fi reset command is sent to the corresponding port, if click "No", return to the previous menu.

Note: If the warning pops up, the connection is error, please check the connection and set again.

7. When the printer receives the Wi-Fi reset command and execute, it takes 20 seconds to finish. When the the window of "WIFI reset finished" pops up, the reset is finished.
8. After reset, please restart the printer, set the Wi-Fi Wi-Fi parameters again by referring to Wi-Fi Parameters Description.

2.14 Mobile Equipment Wi-Fi Printing Function Application

The Jolimark printer which is equipped with Wi-Fi interface supports the print service of Android system 4.4 or above version and the AirPrint wireless printing function of iPhone iOS system. After the Android mobile equipment has installed the Jolimark print service plug-in, it can directly use the system print service to realize wireless printing; the iPhone iOS equipment does not need to install any plug-in.

**Note: 1. Only if wireless printing function is supported by the APP can it be used.
2. The Android system must be 4.4 or above version and should have the complete Android Print function.**

TP830 which is equipped with Wi-Fi interface is taken as an example to describe printing application. Network name (SSID) is "TP830", IP Address is 10.10.10.1, Subnet Mask is 255.255.255.0 and Security Mode is "Disable". Turn on the printer and then conduct the subsequent application steps. As shown in Figure 17.



Figure 17

2.14.1 The System Print Service Application of Android Equipment

As the Android system is relatively open, the equipment manufacturers can customize the special interface and function according to their need. The parameter setting way may be different because of the different interfaces.

1. Install the print service

Download the print service installation package AdrPrintSvc.apk from www.jolimark.com. After running the installation program, the “JM Print Service” will be added in the Android system.

2. Connect Wi-Fi printer

2.1 Enter into the “Settings” of system, as shown in Figure 18.

2.2 Find out the “WIRELESS & NETWORKS” in “Settings” interface, then click “Wi-Fi”, as shown in Figure 19.



Figure 18

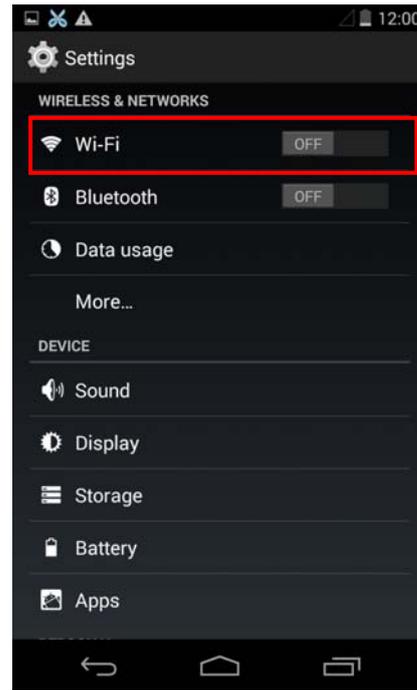


Figure 19

2.3 Select the “Wi-Fi” function to “ON”, and select the “TP830” hotspot, as shown in Figure 20.

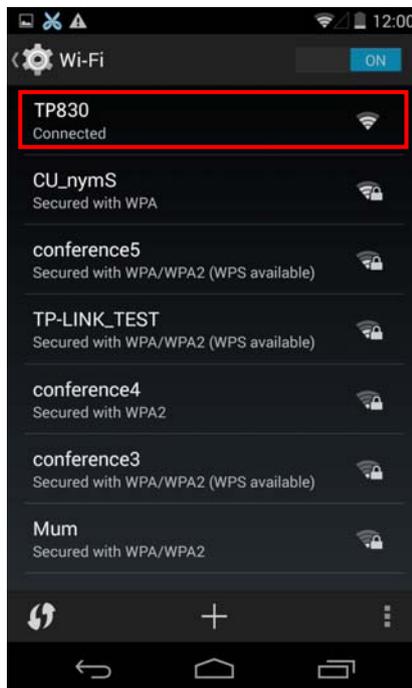


Figure 20

3. Turn on the print service

3.1 Enter into the “Settings” of the system, as shown in Figure 18;

3.2 Find out “Printing” in “Settings” interface and enter into, as shown in Figure 21;

3.3 Find out “JM Print Service” in “Printing” interface and enter into, as shown in Figure 22;

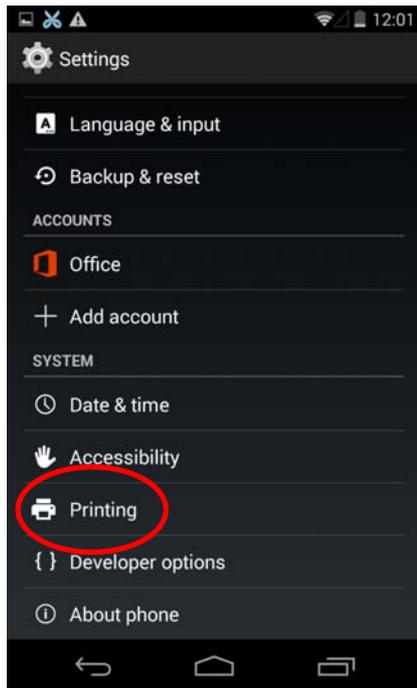


Figure 21

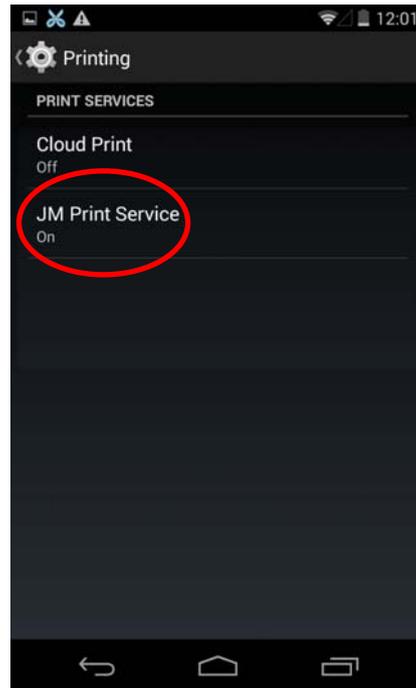


Figure 22

3.4 Switch the “JM Print Service” function from “OFF” to “ON”, as shown in Figure 23;

Note: If there is no function switch in the upper right of “JM Print Service” interface, it means the current system has no complete Android Print function; it does not support the system print service.

3.5 After turning on the “JM Print Service”, it will search automatically and show the printer if found, as shown in Figure 24.

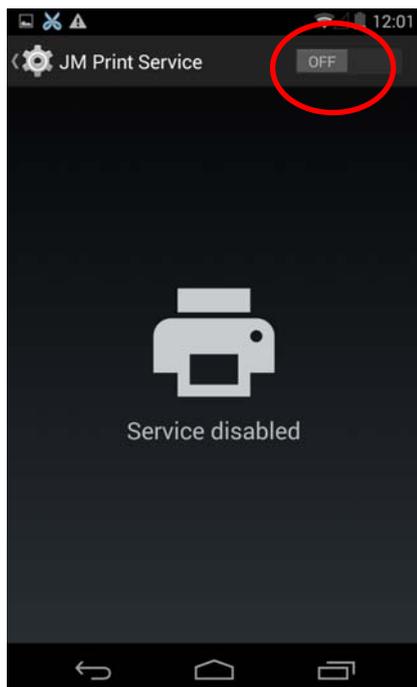


Figure 23

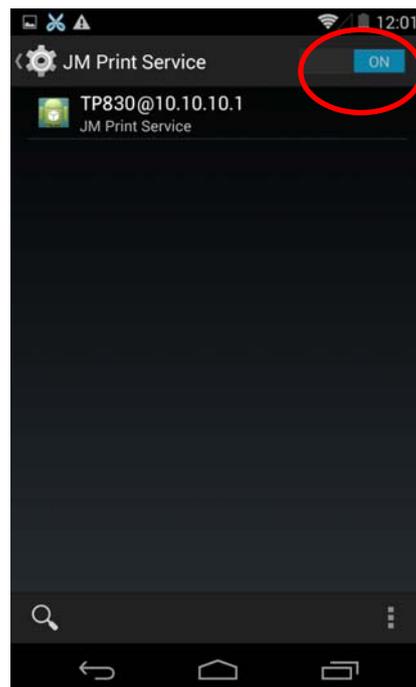


Figure 24

4. Run APP

APP has to support the system's print service, WPS Office is taken as an example to describe.

4.1 Run the APP "WPS Office", as shown in Figure 25;

4.2 Open the document which is to be printed in the software, then click the "Tools" button, as shown in Figure 26;

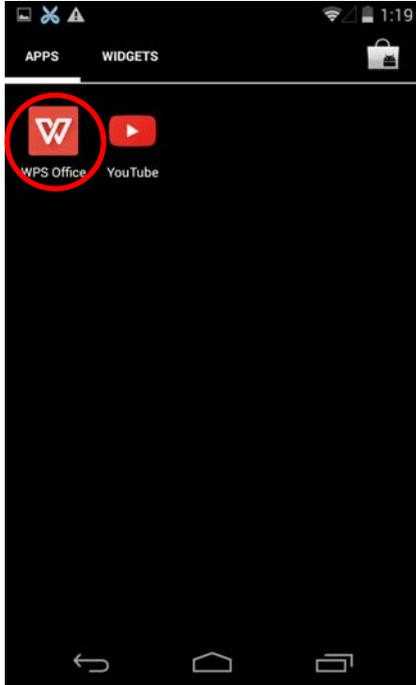


Figure 25



Figure 26

4.3 When the menu pops up, select "Print", as shown in Figure 27;

4.4 When the "Print" interface pops up, click "Print", as shown in Figure 28;

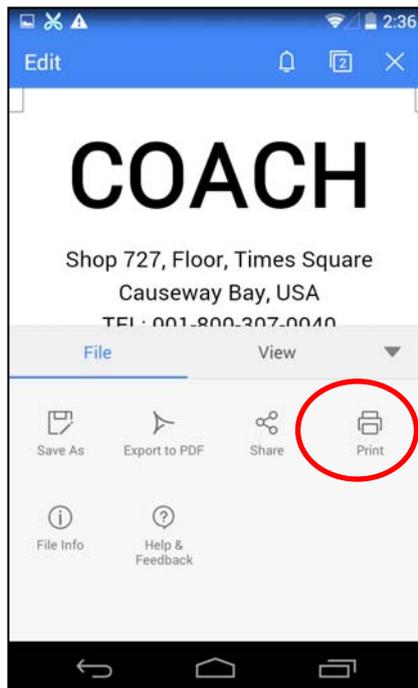


Figure 27

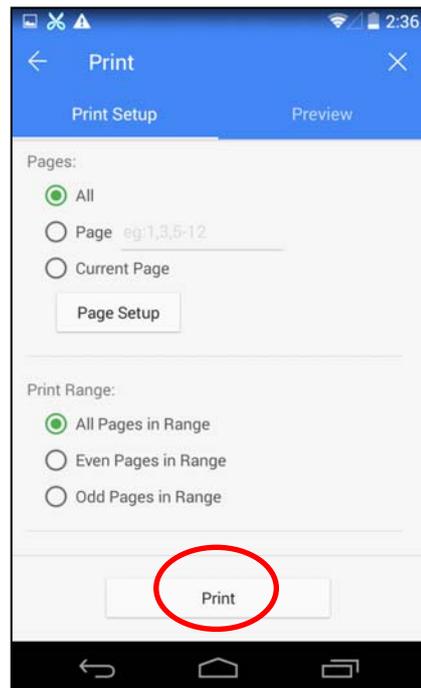


Figure 28

- 4.5 When the “Select Print Service” interface pops up, select “System Print Service”, as shown in Figure 29;
- 4.6 Select “TP830@10.10.10.1”, as shown in Figure 30;

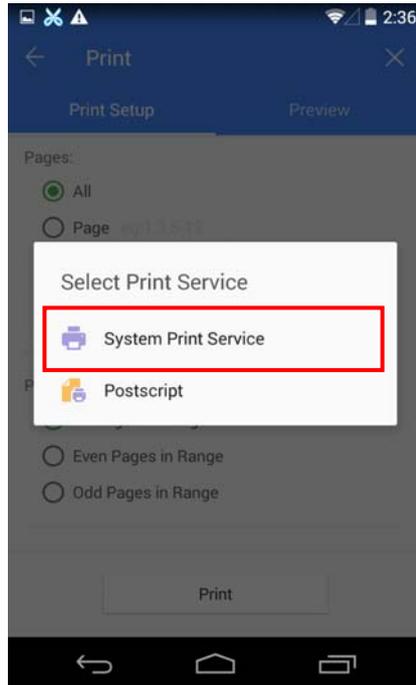


Figure 29

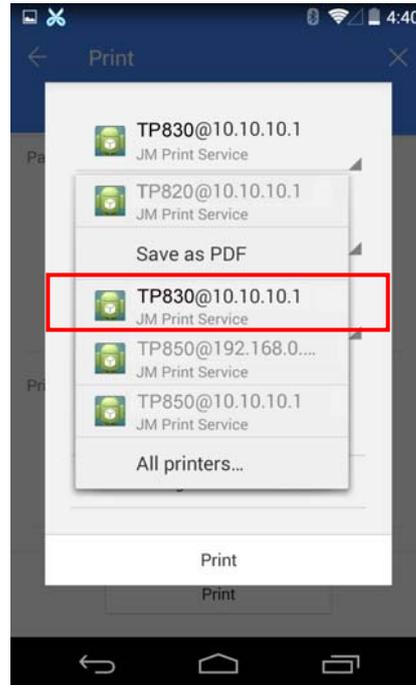


Figure 30

- 4.7 Make sure the printer and the corresponding printing parameters are correct, click “Print”, as shown in Figure 31;
- 4.8 The system sends print data to the printer, when the printer finishes receiving, a prompt “Print job completed!” will be shown, as shown in Figure 32.

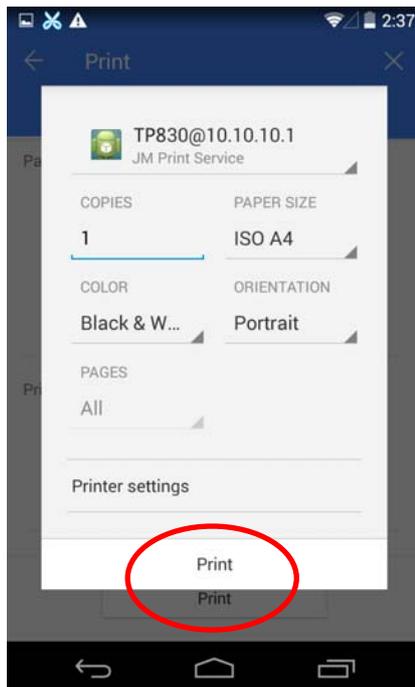


Figure 31

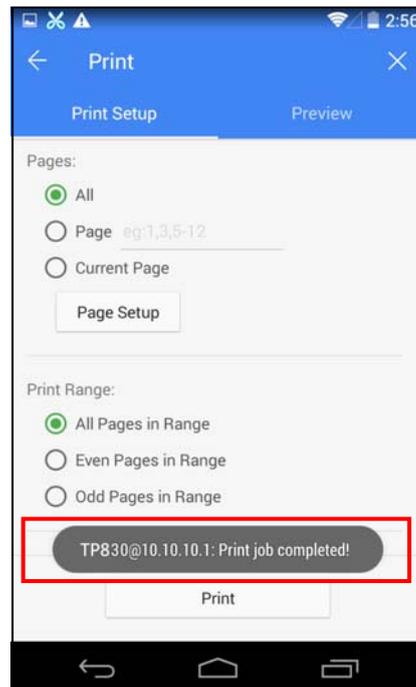


Figure 32

2.14.2 AirPrint Printing Application of iPhone iOS Equipment

iPhone iOS equipment used in this example is iPad Air2, iOS system version is 9.1. The application situation of other iOS equipment or system version may be different to this example.

1. Connect Wi-Fi printer

1.1 Enter into the “Settings” of the system, as shown in Figure 33;

1.2 Find out “WLAN” in “Settings” interface and enter into, as shown in Figure 34;

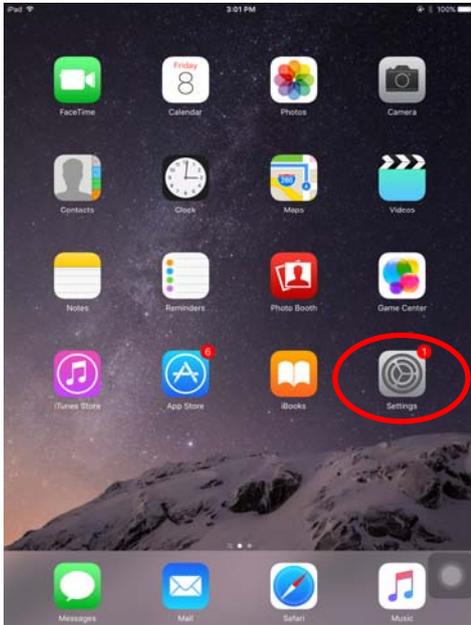


Figure 33



Figure 34

1.3 Turn on the “WLAN” function, equipment will search automatically and show the current hotspot, as shown in Figure 35;

1.4 Select the “TP830” hotspot, as shown in Figure 36;



Figure 35



Figure 36

2. Run APP

As the interface designs of APP are different, the operating way of printing function will also be different. "Word" is taken as an example to describe.

2.1 Install and run "Word", as shown in Figure 37;

2.2 Open the document which is to be printed, as shown in Figure 38;

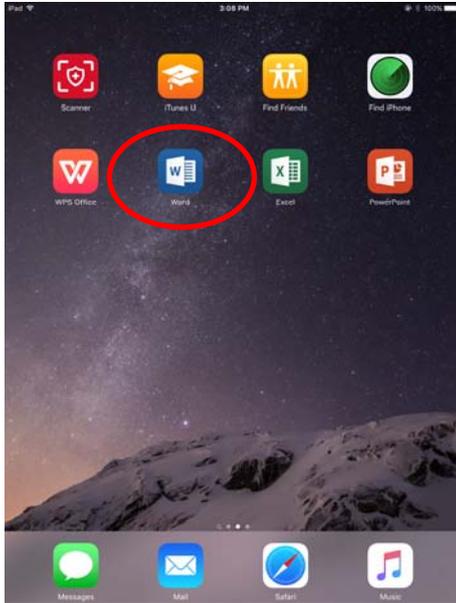


Figure 37

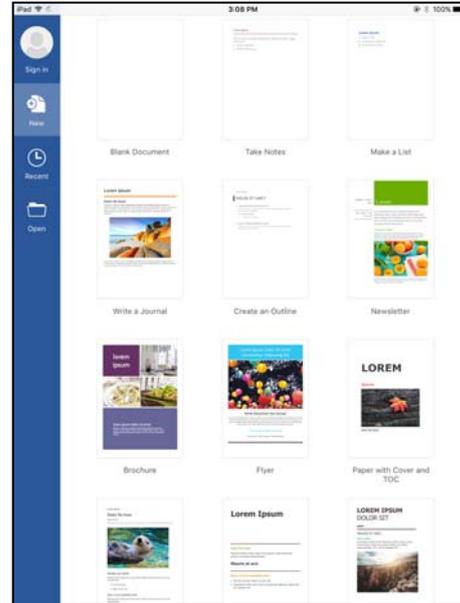


Figure 38

2.3 Click the menu icon on the upper left of the "Word" software interface, as shown in Figure 39;

2.4 When the menu pops up, click "Print", as shown in Figure 40;

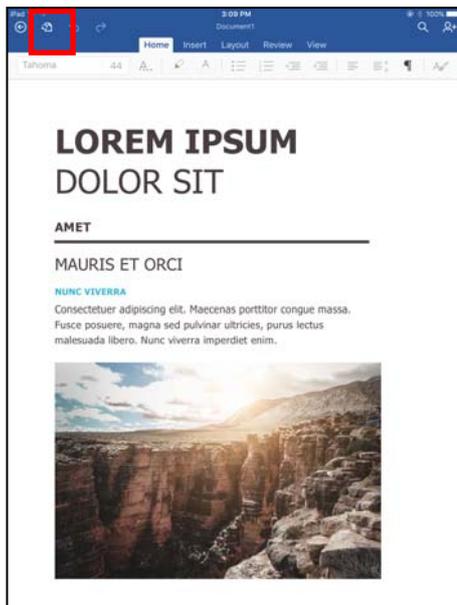


Figure 39

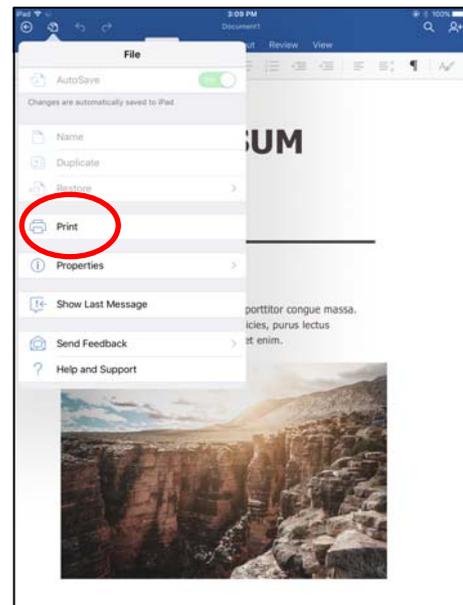


Figure 40

2.5 When the "Printer Options" interface pops up, click "Select Printer", as shown in Figure 41;

2.6 Select "TP830" in the list, as shown in Figure 42;

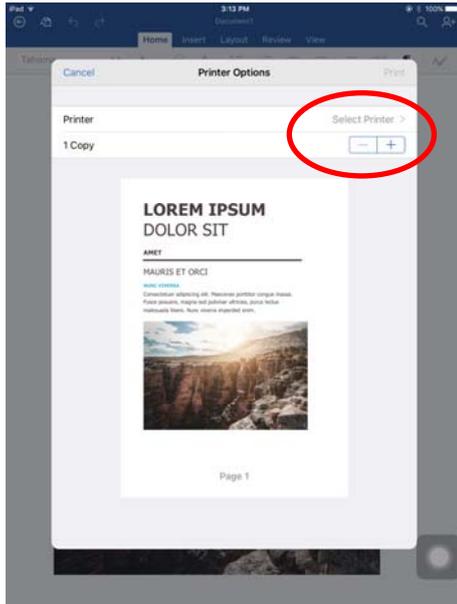


Figure 41



Figure 42

2.7 Return to “Printer Options” interface and click “Print”, the system sends print data to the printer, as shown in Figure 43.

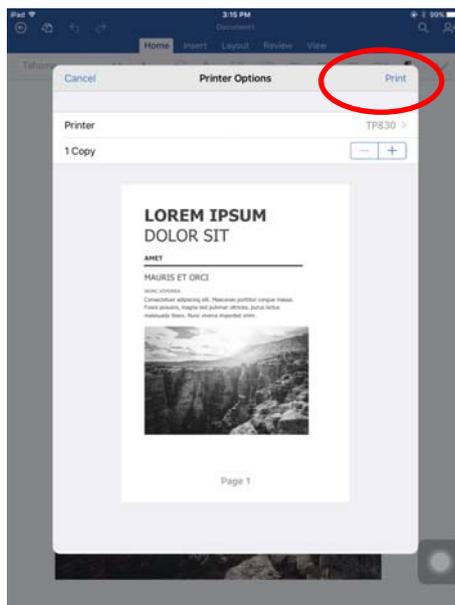


Figure 43

2.15 Installing Printer Network Driver

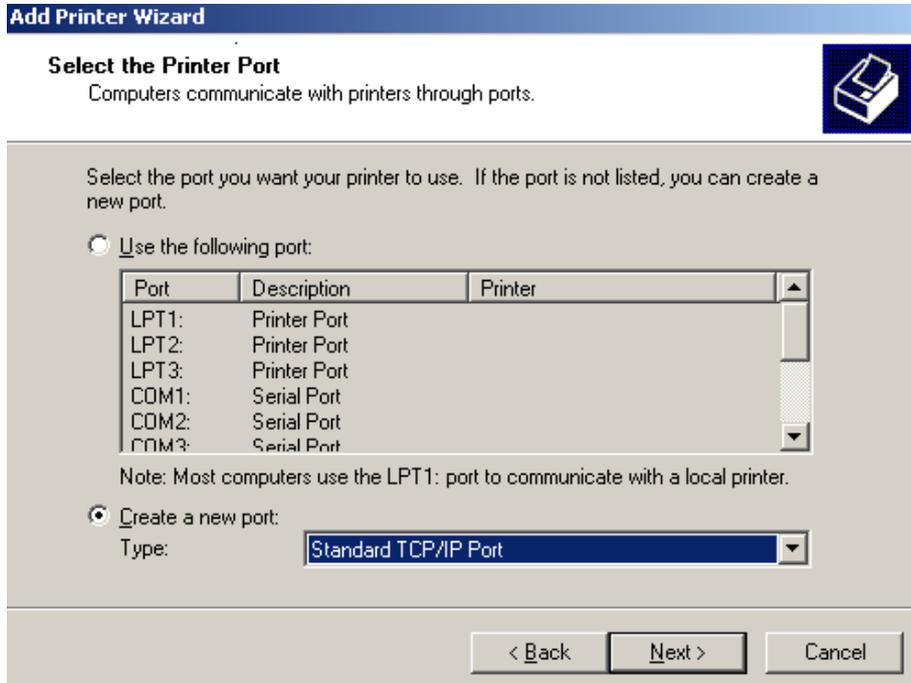
The ways of installing network driver are classified into Newly-install way and Upgrade-install way according to whether the PC is installed the printer driver or not.

If the printer driver hasn't been installed on the PC, adopt newly-install way whose steps are shown in “Newly-install printer network driver”.

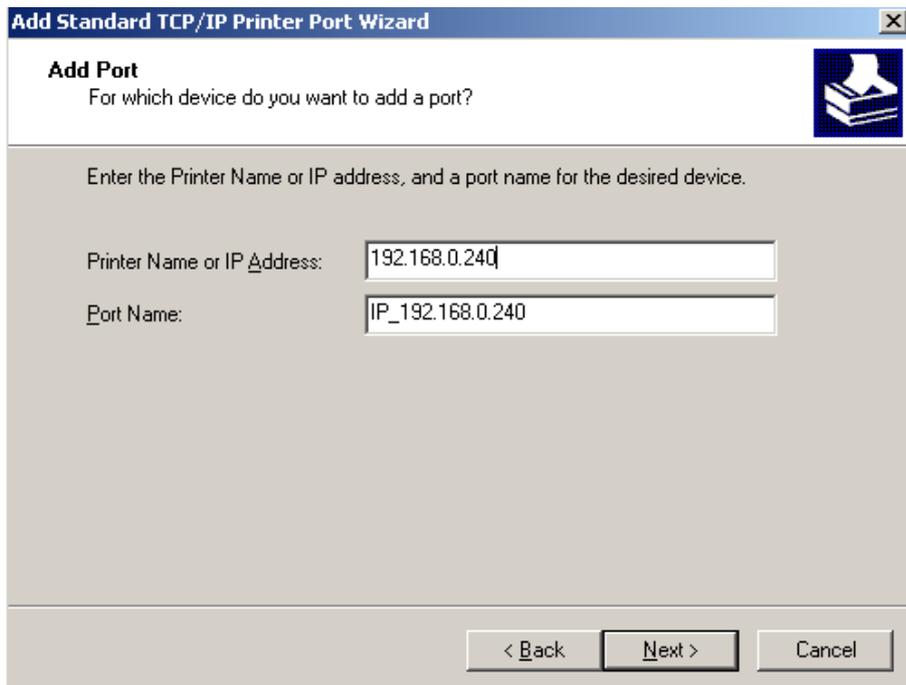
If the printer driver has been installed on the PC, adopt Upgrade-install way whose steps are shown in “Upgrade-install printer network driver” (Setting driver's network port).

1. Newly-install printer network driver

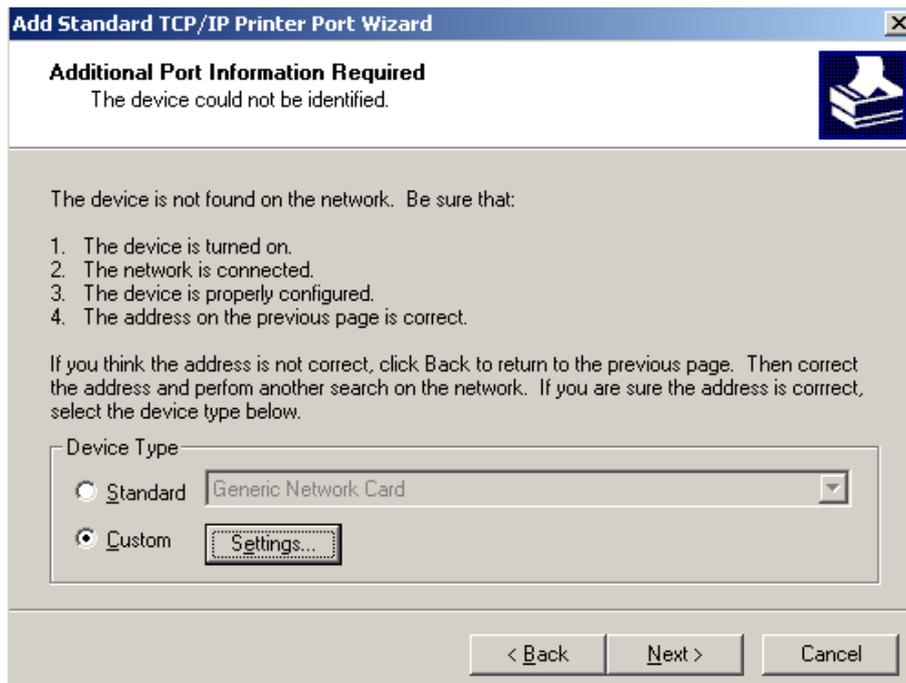
- 1) Click "Start" → "Settings" → "Select Printers".
- 2) Click "Add printer", then a window of "Add Printer Wizard" pops up, click "Next".
- 3) A window of "Add Printer Wizard" pops up, select "Local printer" in the "Local or Network Printer" window, and then click "Next".
- 4) A window of "Select the Printer port" pops up, select "Create a new port", and then select "Standard TCP/IP Port" in the port and click "Next".



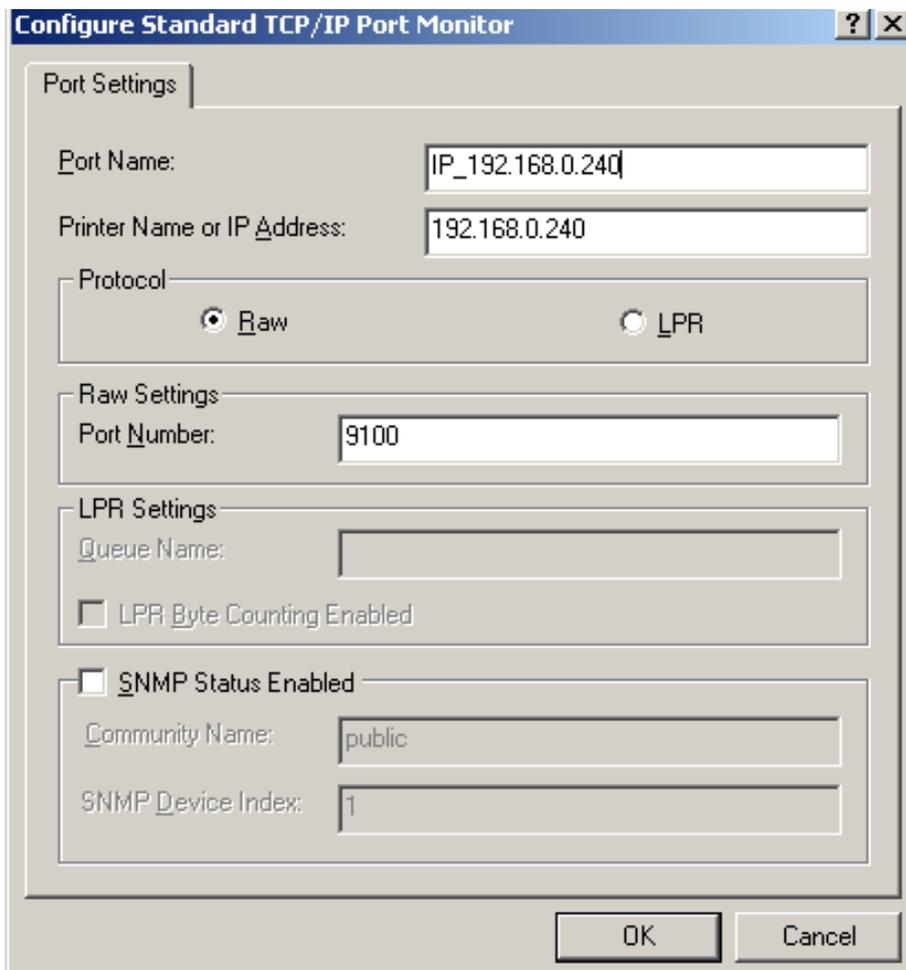
- 5) A window of "Add standard TCP/IP Printer Port Wizard" pops up, click "Next".
- 6) A window of "Add Port" pops up, enter the IP address reported by the "Setting printer's IP address" in the "Printer Name or IP Address" column. Take IP address "192.168.0.240" for example as the figure shown below. "Port Name" is created automatically after finishing filling in IP address. Click "Next".



- 7) A window of “Additional Port Information Required” pops up, select “Custom” in the “Device Type”, then click “Settings”.



- 8) A window of “Port Settings” pops up. Affirm that “Port Name” and “Printer Name or IP Address” are correct, “Protocol” is “RAW” and “Port Number” is “9100”, click “OK”.

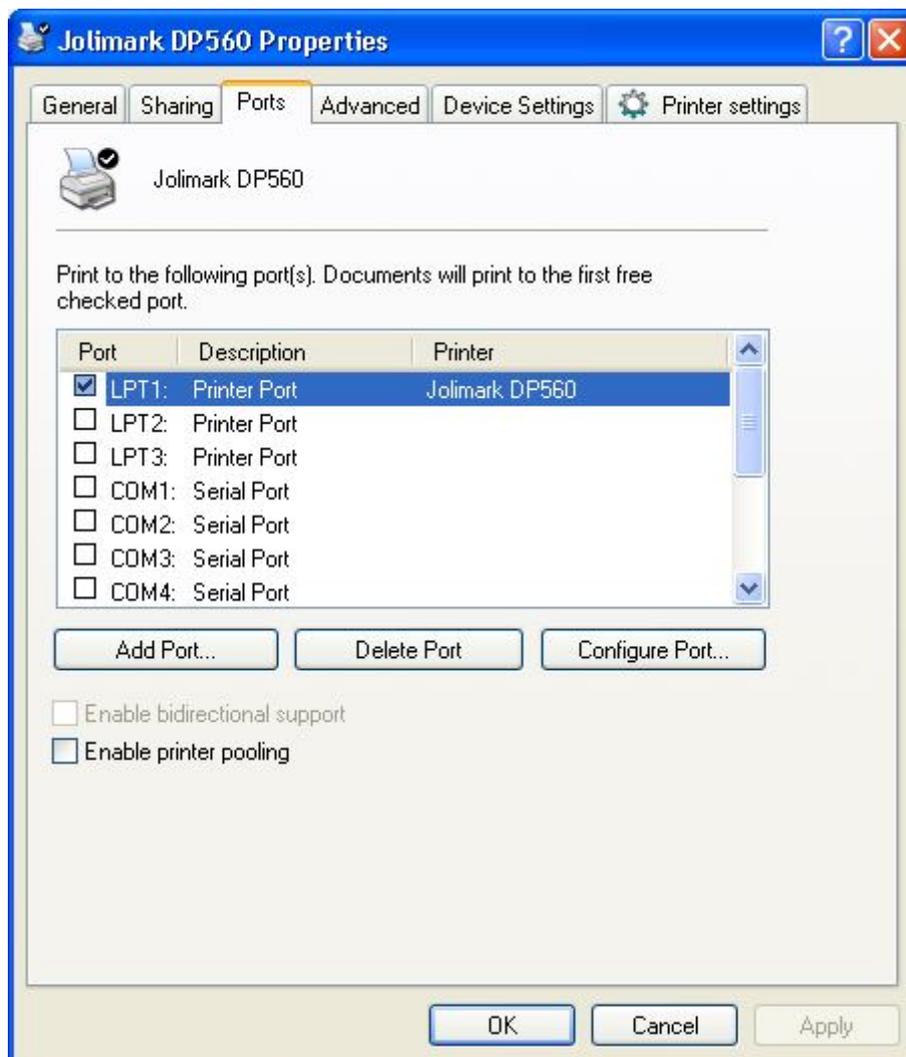


- 9) Return to "Additional Port Information Required", click "Next".
- 10) A window of "Completing the Add Standard TCP/IP Printer Port Wizard" pops up, click "Finish".
- 11) In the window of "Install Printer Software", click "Have Disk".
- 12) A window of "Install from Disk" pops up. Please according to the operating system environment, such as Windows 2000/XP/Vista/Win7 operating system you should select the path as follows: CD-ROM → "Drivers" → "WIN2000 (XP-Vista-Win7)", click "Open", then click "OK" to return to the window of "Install Printer Software", click "Next".
- 13) Follow the guide and click "Next" gradually till the installation is finished. At this time, printer network driver is installed completely.

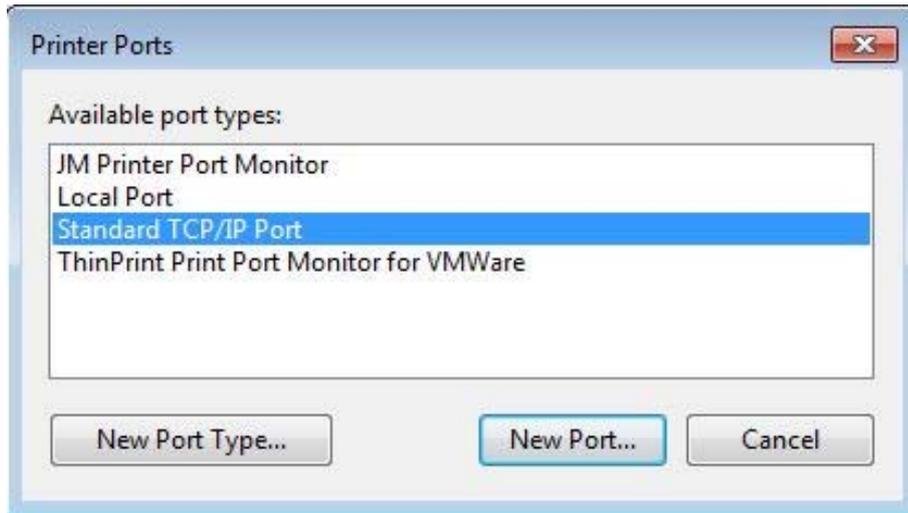
2. Upgrade-install printer network driver (setting driver's network port)

If PC has installed the printer's driver, set driver's network port to carry out network printing. The concrete steps are shown below:

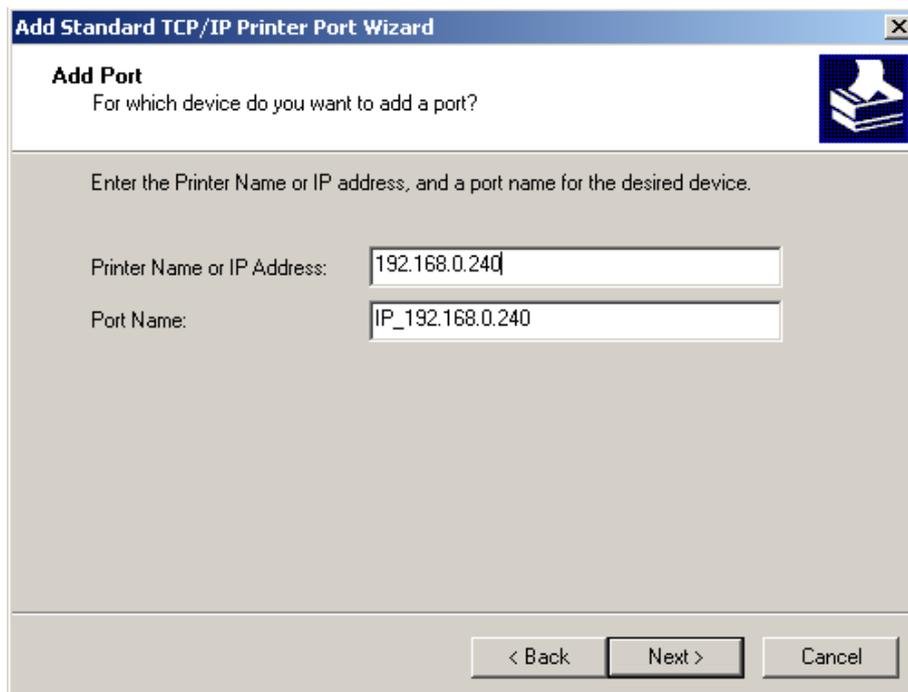
- 1) Click "Start" → "Settings" → "Select Printers".
- 2) Right click this printer driver, click "Properties" on the window popping up.
- 3) A window of "Properties" pops up; click "Ports" and "Add Port".



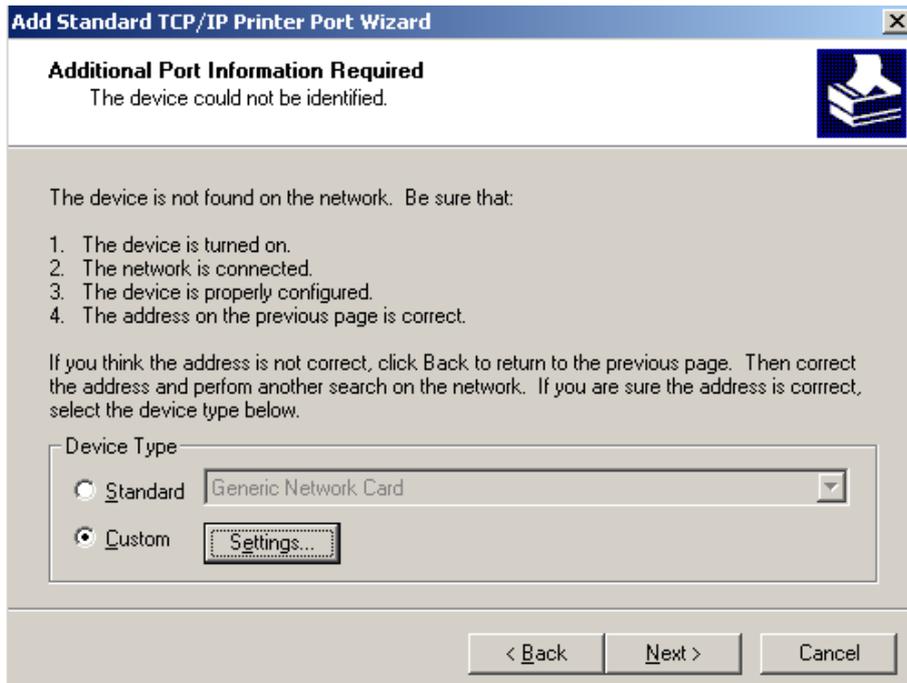
- 4) A window of "Printer Ports" pops up, select "Standard TCP/IP Port", click "New Port".



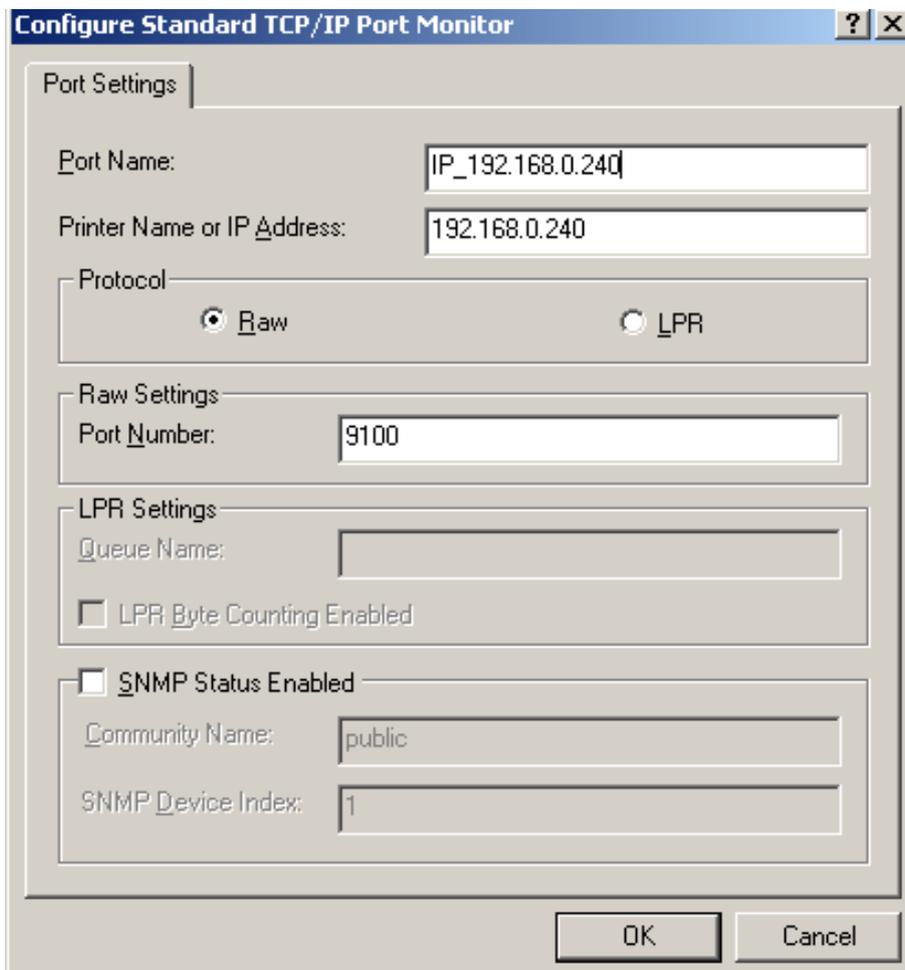
- 5) A window of “Add Standard TCP/IP Printer Port Wizard” pops up, click “Next”.
- 6) A window of “Add Port” pops up, import the IP address reported by the “Setting printer’s IP address” in the “Printer name or IP address” column. Take IP address “192.168.0.240” for example. “Port Name” is created automatically after finishing filling in IP address. Click “Next”.



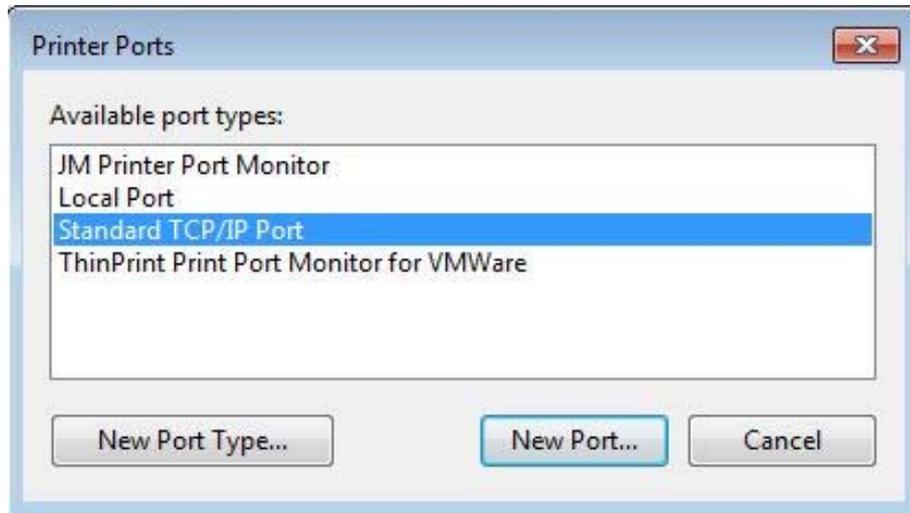
- 7) A window of “Additional Port Information Required” pops up, select “Custom” in the “Device Type”, then click “Settings”.



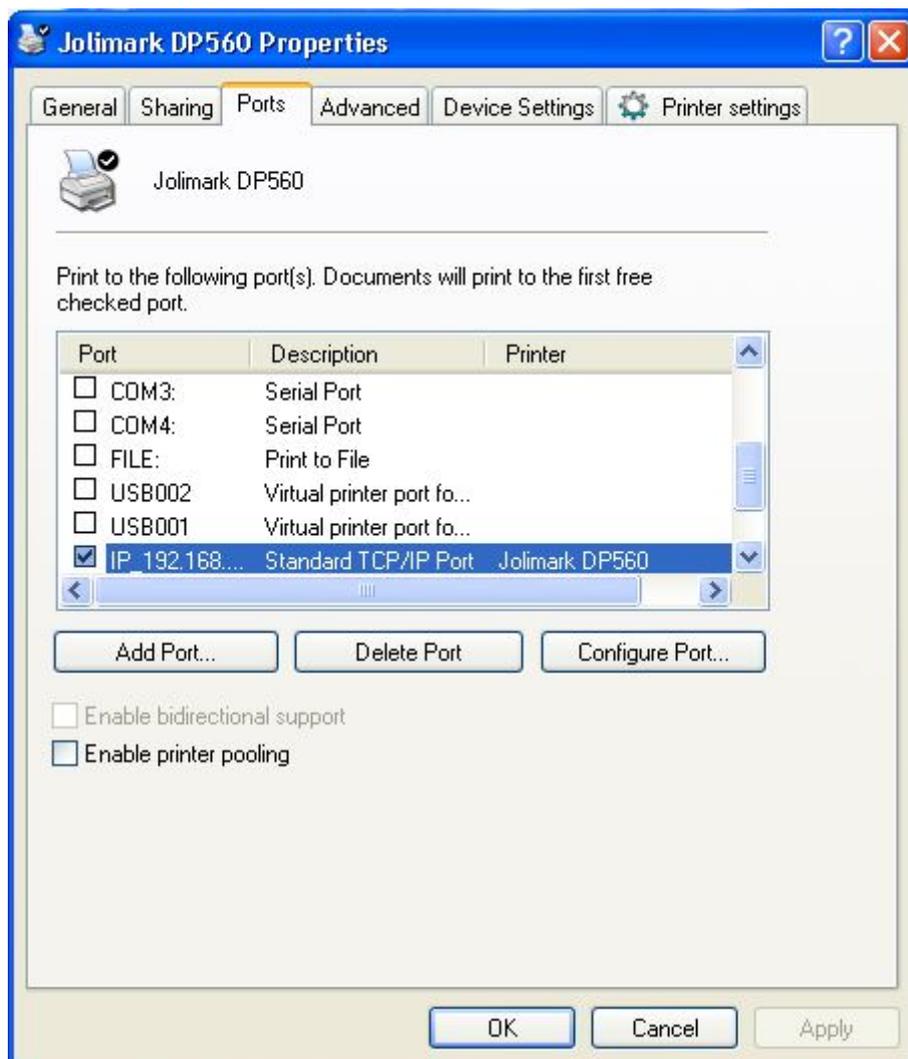
8) A window of “Port Settings” pops up. Affirm that “Port Name” and “Printer Name or IP Address” are correct, “Protocol” is “RAW” and “Port Number” is “9100”, click “OK”.



- 9) Return to “Additional Port Information Required”, click “Next”.
- 10) A window of “Completing the Add Standard TCP/IP Printer Port Wizard” pops up, click “Finish”.
- 11) Return to “Printer Ports”, click “Close”.



- 12) Return to “Properties”, make sure the network port is selected, click “Apply”, and then click “Close”. Thus, printer’s network port setting is finished.



Chapter 3 Paper Loading

3.1 Adjust the Gap Adjust Lever Position

■ Adjust the paper thickness

No matter which paper is used, user needs to set the gap adjust lever which is on the right side of the printer according to the paper thickness. The gap adjust lever can change the print head height so that it can fix to the paper thickness.

In order to make sure the good printing quality and prevent paper jam, please set the gap adjust lever to the suitable position according to the paper (as shown in Figure 3-1).

Table 3-1 Paper thickness setup

Lever Adjust	Bill Sheets	Passbook/Bill
7~8	7~8 Sheets	2.0mm Passbook
6	6 Sheets	Fit To Pages 1.5mm Passbook & 1~4 Sheets Bill
4~5	4~5 Sheets	
2~3	2~3 Sheets	The Passbook Ranges From Thin to Thick (Unit:mm)
1	1 Sheet	

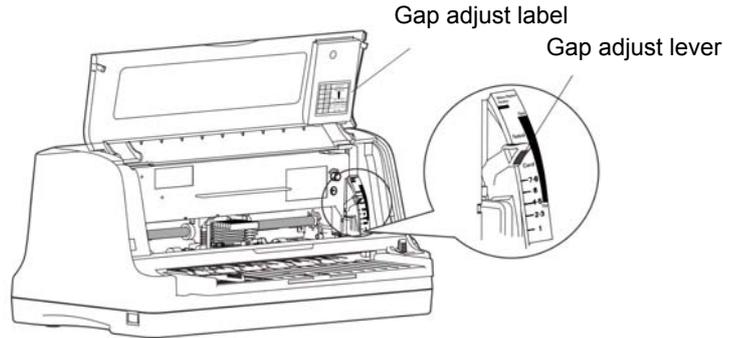


Figure 3-1 Adjust the gap adjust lever

■ Setting paper type

Refer to Table 3-1, and Figure 3-1 gap adjust label to select paper type.

First open the printer cover, according to the paper type, set the gap adjust lever. Then close the printer cover, set the paper type on the control panel, the detailed setting steps please refer to this chapter.

3.2 Passbook/Bill Function Mode

1. Pull the paper select lever to the bill position (as shown in Figure 3-2).

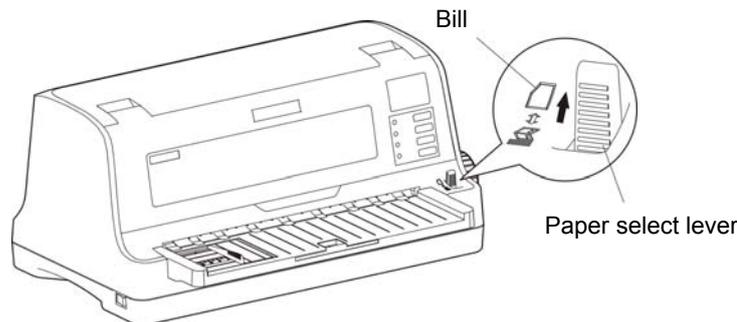


Figure 3-2 Set the paper feed position (bill)

2. Turn on the printer.
3. Set the LED panel menu PAPER SELECT as "Passbook", set the paper select lever as front feed paper (bill), please open the printer cover and pull the gap adjust lever to the corresponding position.
4. If user needs to print the passbook, adjust the paper guider to the "passbook zero position"; push the passbook gently to the printer, the printer will feed paper to the printing start position (each time after the printer is turned on and feeds the first paper, the printer will feed paper and

detect the page length). When it is ready, it can print.

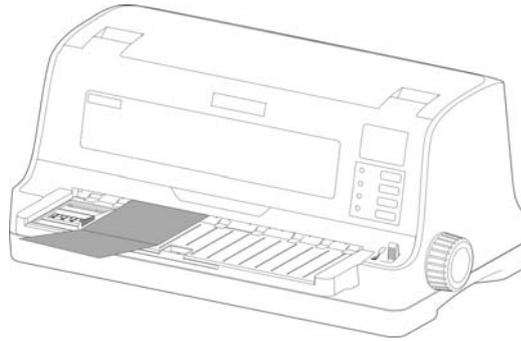


Figure 3-3 Install the passbook

5. If user needs to print the bill, adjust the paper guider to the proper position, push the 1-4 sheets bill to the printer along the paper guider, the printer will feed the bill to the printing start position, when the printer is ready, it will print.

Note: 1. Passbook/ bill function mode is for 1-4 sheets bill, if over 4 sheets, pls do not use this mode.

2. When the gap adjust lever is to the lever over 7-8 sheets, pls do not print 1-2 sheets bill.

3.3 Bill Function Mode

3.3.1 Set the bill printing mode

1. Pull the paper select lever to the bill position (as shown in Figure 3-2).
2. Set the LED panel menu PAPER SELECT as "Bill", please open the printer cover and pull the gap adjust lever to the corresponding position. Please adjust the copy capacity according to the corresponding paper thickness.
3. Adjust the paper guider to the proper position; push paper gently to the printer, the printer will feed paper to the printing start position. When it is ready, it can print.

Note: 1. When the gap adjust lever is in 1 or 2-3 position, the bill printing mode is treated as default.

2. When switching the paper type, please pull the paper select lever to the end, so as to make sure the lever is set as bill.

3.3.2 Install the Bill

1. Turn on the printer.
2. Make sure the paper select lever is set as bill printing mode.
3. Adjust the bill position according to the scale label on the paper supporting board.

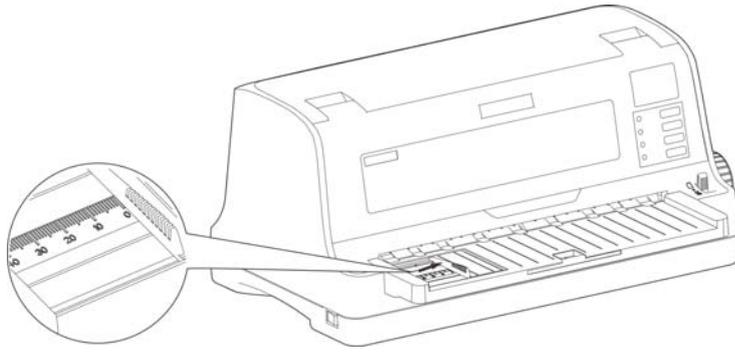


Figure 3-4 Adjust the proper position

4. Insert paper, as shown in Figure 3-5, the paper will be fed to the print position.

Note: If the Paper Loading menu item is set as Feed by key, the paper will not be fed to the printing position automatically, but user can feed paper to printing position by pressing LOAD/EJECT key, please refer to Chapter 4 Change Printer Settings about detailed operation of menu setting.

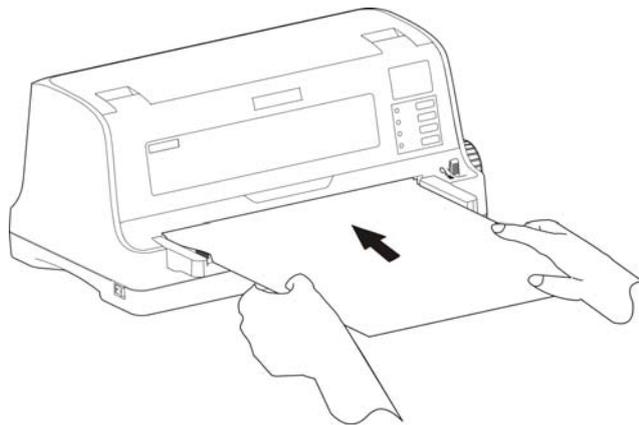


Figure 3-5 Install the bill

3.4 Continuous Paper Function Mode

When feeding paper under continuous paper mode, the printer tractor will feed continuous paper from back to front (as shown in Figure 3-6).

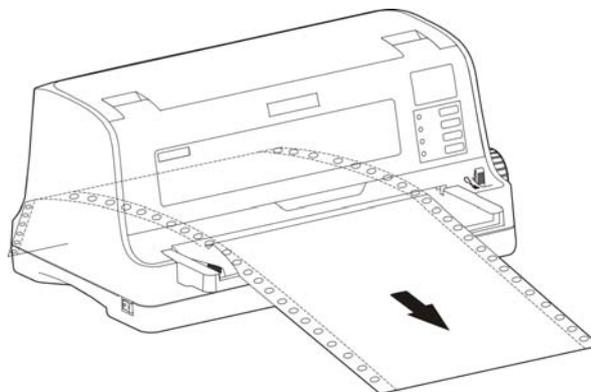


Figure 3-6 Paper feed direction of continuous paper

3.4.1 Set the Continuous Paper Printing Mode

1. Pull the paper select lever to the continuous paper position (as shown in Figure 3-7).
2. According to the paper pages, set the copy sheet (1-sheet, 4-sheet and 7-sheet) on the panel menu COPY item.

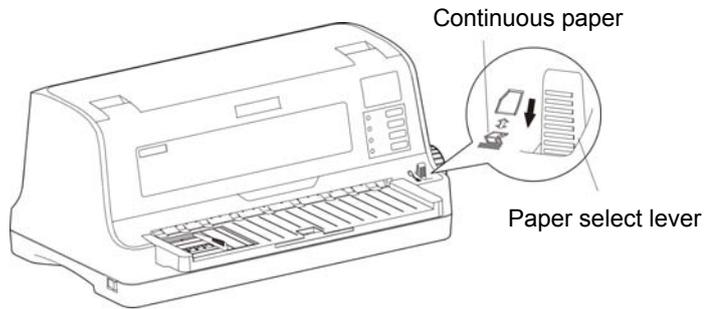


Figure 3-7 Set the paper feed position (continuous paper)

3.4.2 Install the Continuous Paper (Report, Single-ply and Multi-ply Continuous Paper)

1. Turn on the printer.
2. Make sure the paper select lever is set as continuous paper printing mode (as shown in Figure 3-7).

Note: When switching the paper type, please pull the paper select lever to the end, so as to make sure the lever is set as continuous paper.

3. Move the tractor left sprocket wheel to the proper position of left side. Press the sprocket wheel lock lever to lock the left sprocket wheel. Move the right sprocket wheel to the proper position, but do not lock its position (as shown in Figure 3-8).

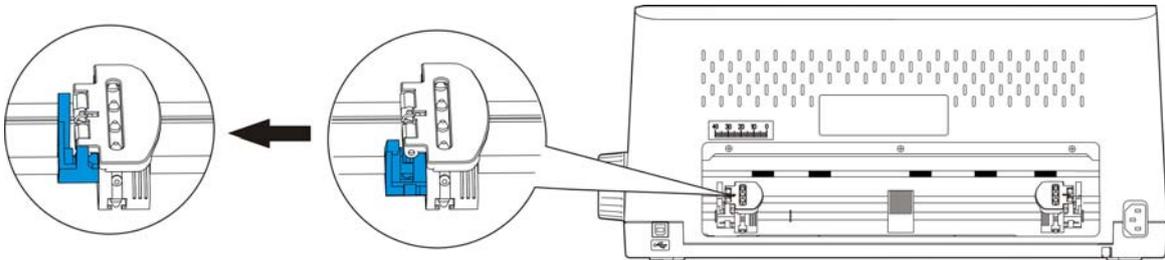


Figure 3-8 Open the left control lock

4. Open the sprocket wheel covers and install the paper on the sprocket pins (as shown in Figure 3-9).

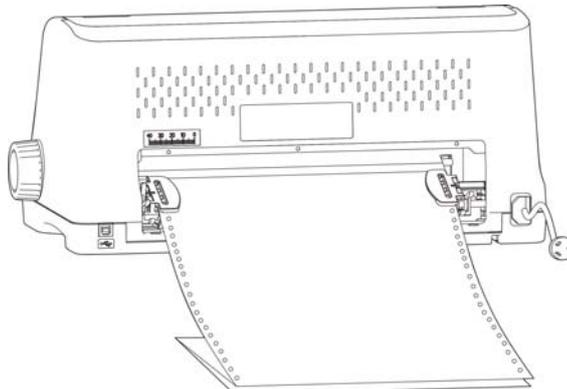


Figure 3-9 Install continuous paper to the tractor

Note: Please make the top of continuous paper aim at the edge of the tractor (as shown in Figure 3-10).

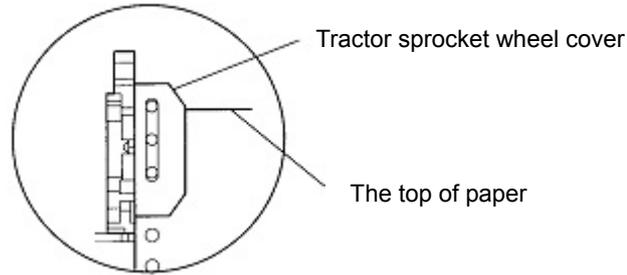


Figure 3-10 Install continuous paper to the tractor sprocket pins

5. Close the sprocket wheel covers, and move the right sprocket wheel to even up the paper, press the sprocket wheel lock lever to lock it (as shown in Figure 3-11).

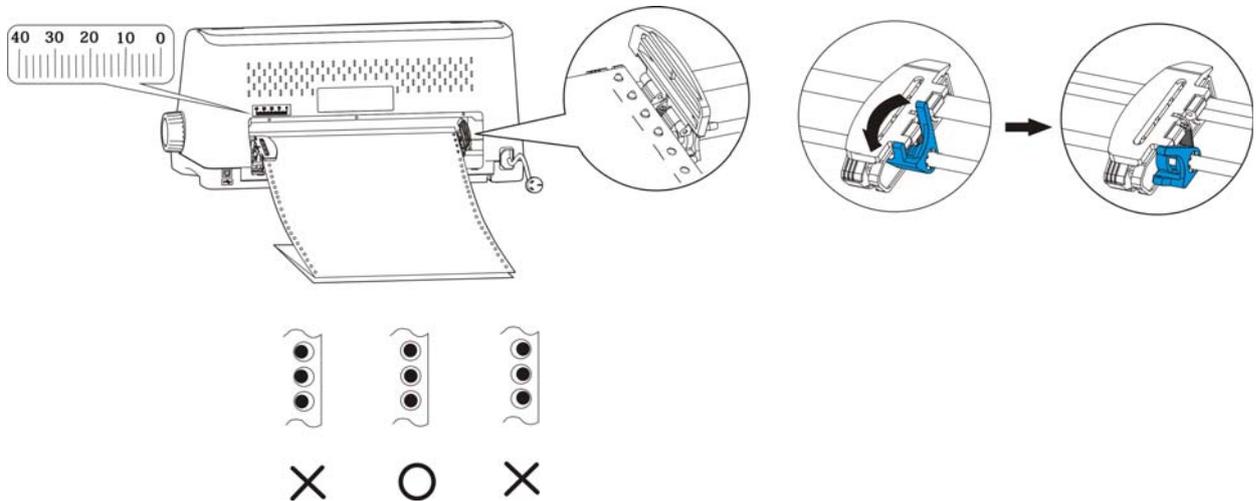


Figure 3-11 Adjust the position of continuous paper

Note: Do not make the continuous paper too tight or too loosen.

6. Turn on the printer. After the printer receives the data, it will feed paper before printing (or pressing the **LOAD/EJECT** key to feed paper).

3.4.3 Tear continuous paper

1. The function of feed paper to tear position is turned on in default setting. After finishing printing, the printer will feed page slot to tear position. At this time, tear the paper along the printer front cover edge (as shown in Figure 3-12). Before tearing paper, if the page slot of the paper is not aimed at the printer front cover edge, please adjust the tear position (Please refer to "Adjust the Tear Position" in chapter 4).
2. When user does not need to open the function of feed paper to tear position, turn off the function by using menu operation or Online-aptitude Parameter Settings.
3. When the function of feed paper to tear position is turned off, after finishing printing, press Tear key, the printer will feed paper page slot to tear position, and tear paper manually.

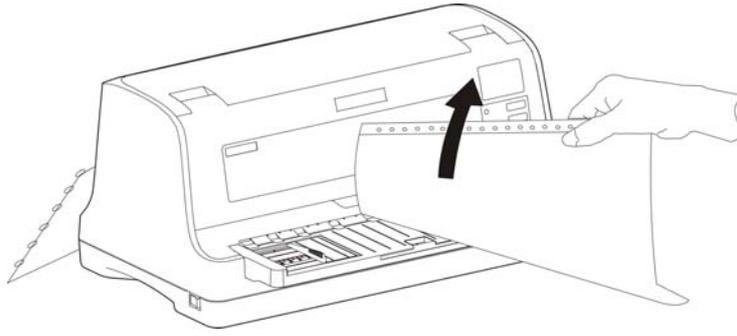


Figure 3-12 Tear continuous paper

Chapter 4 Operation Instruction

4.1 Button and LED Light on the Control Panel

4.1.1 Control Panel

There are four LEDs and four buttons on the control panel. (As Figure 4-1 shown)

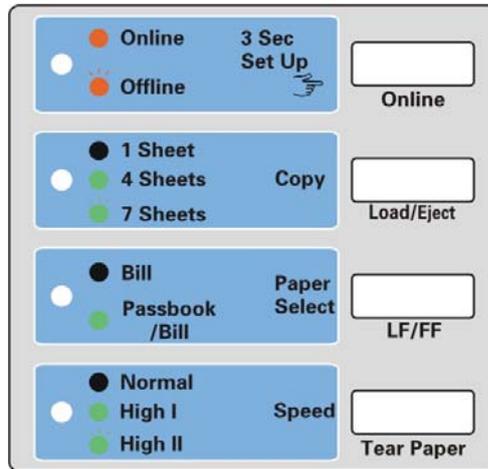


Figure 4-1 Control Panel

4.1.2 LED

LED light	Off	On	Blink
ONLINE (Red)	The Printer is offline	The Printer is online	Paper out or malfunction occurs
COPY (Green)	One-sheet	Four-sheet	Seven-sheet
PAPER SELECT (Green)	Bill	Passbook/Bill	—
SPEED (Green)	Normal	High speed I	High speed II

4.2 Basic Operation of the Control Panel

Online	Press this key to switch between online and offline. Long press this key about 3 seconds, printer beeps once, and enters into control panel menu COPY, PAPER SELECT and SPEED setup.
Load/Eject	For cut sheet, press this key in offline mode, paper will be ejected. For continuous paper, when paper is in the installation position, press this key in offline mode, paper will be fed to printing home position; when there is paper, press this key in offline mode, paper will be ejected to the installation position. When in the LED menu settings, press this key to switch among one-sheet, four-sheet and seven-sheet of COPY item.
LF/FF	In the offline mode, press this key, printer will feed one line; hold on pressing this key, if using continuous paper, paper will be fed to next page and fed to tear position, if using cut sheet, paper will be ejected. In LED menu setting, press this key to switch between Bill and Passbook/Bill of PAPER SELECT item.
TEAR PAPER	In the offline mode, press the this key, paper will be fed to the tear off position. Press the this key again, the paper will be ejected to the printing home position. In LED menu setting, press this key to switch among normal, high speed I and II of SPEED item.

Note: When using continuous paper to print, if there is paper out, please press LOAD/EJECT or LF/FF key to feed paper after loading paper.

4.3 LED Menu Setup

1. Long press **ONLINE** key about 3 seconds, the printer beeps once, enters into three LED menu setup mode: COPY, PAPER SELECT and SPEED.
2. Each press on **LOAD/EJECT** key can switch among one-sheet, four-sheet and seven-sheet. Each press on the **LF/FF** key can switch between bill and Passbook/Bill. Each press on the **TEAR** key can switch among normal, high and super high speed.
3. After setting, press **ONLINE** key, printer beeps once, save the setting and exit the LED menu setup.

4.4 Adjust the TOF Position and Black Mark Position

TOF means the distance between the top of form and the first printing line. The first line of printing is zero position, the printing direction is positive value and the opposite is negative value.

Black mark position is the distance between the black mark and left or right margin when the left or right black mark is turned on.

Note: The left and right sensors are on the both sides of the print head, which are in the black boxes of the carriage paper guide piece's sides.

Adjust method:

Load paper correctly, press **LOAD/EJECT** key to feed paper to the printing position, when the printer is in online mode, press **LF/FF** for 3 seconds, the printer's **Online** LED and **Power** LED blinks alternately, which means the printer is in TOF Adjustment mode.

When the black mark (left or right black mark) is turned on, the current adjustment is black mark position status, enter into step A.

When the black mark is turned off, the current adjustment is start printing position status, enter into step B.

- A.** Press **LF/FF** about 3 seconds to move the print head, so that the left or right sensor of the print head can aim at the paper black mark position.

“**LOAD/EJECT**” Press one time, move 1/20 inch, max. is 80/20 inch from the border.

“**LF/FF**” Press one time, move 1/20 inch, min. is 0/20 inch from the border.

After adjustment, press **ONLINE** button, the **Online** LED and **Power** LED blink twice at the same time and the printer makes 2 beeps. At this time, the printer saves the new setting and enters into TOP adjustment mode (step B), if press **Online** key again, it will exit the whole setting.

- B.** Press **LF/FF** key about 3 seconds to change the start printing position (the maximum movable value is based on the factory setting zero position):

“**LOAD/EJECT**” Press one time, go forward 1/60 inch, max. is 60/60 inch.

“**LF/FF**” Press one time, go backward 1/60 inch, min. is 0/60 inch.

After adjustment, press **ONLINE** button, the **Online** LED and **Power** LED blink twice at the same time and the printer makes 2 beeps. The **Online** LED is on. At this time, the printer saves the new setting and exits TOP adjustment mode

Note: When the start printing position (black mark position) is adjusted to the maximum, press LOAD/EJECT key, the printer will not adjust the position.

When the start printing position (black mark position) is adjusted to the minimum, press LF/FF key, the printer will not adjust the position.

Note: if user just exits the mode without saving, please turn off the printer.

4.5 Adjust the Tear Position

It is mainly used for adjust the distance between the paper slot and the printer front cover paper-cut edge, so that user can tear the paper more easily.

Method:

Install the continuous paper correctly, press **TEAR** key to tear position, when the printer is in online mode, press **LOAD/EJECT** and **LF/FF** for 3 seconds, the printer's **Online** LED and **Power** LED blinks alternately, which means the printer is in Tear Position Adjustment mode.

After entering into the tear position adjustment mode, press **LF/FF** and **LOAD/EJECT** keys to change the tear position (the maximum movable value is based on the factory setting zero position):

"**LOAD/EJECT**" Press one time, go forward 1/60 inch, max. is 15/60 inch.

"**LF/FF**" Press one time, go backward 1/60 inch, min. is 0/60 inch.

After adjustment, press **ONLINE** button, the **Online** LED and **Power** LED blink twice at the same time and the printer makes 2 beeps. The **Power** LED is on. At this time, the printer saves the new setting and exits the adjustment mode

Note: When the tear position is adjusted to the maximum, press LOAD/EJECT key, the printer will not adjust the position.

When the tear position is adjusted to the minimum, press LF/FF key, the printer will not adjust the position.

Note: if user just exits the mode without saving, please turn off the printer.

4.6 Change the Current Setting of Printer

DP560 printer settings includes LED menu settings, command system menu settings and online parameter settings.

4.6.1 LED Menu Setup

When in offline mode, press **ONLINE** button about 3 seconds, printer enters into LED menu setup.

In LCD menu setup mode, press **LOAD/EJECT** button to switch the setting item (such as bill, speed or copy mode), the selected setting item will blinks, press **LF/FF** button to select the content of the setting item (such as normal, high speed or super high speed), the selected content will blinks, after changing the settings, press **ONLINE** button to exit the LED menu setup.

4.6.2 Command System Menu Setup

The printer default settings are set for normal users. If need to know about the current settings, please follow the below steps to print the default settings report.

1. Turn off the printer.
2. If use continous paper, install the paper on the tractor correctly.
3. Press **LOAD/EJECT** and **LF/FF** buttons, turn on the printer, the printer feeds paper, and print the current settings (as shown in Figure 4-2).

Note: 1. The shadow one is the current setting value. If the LANGUAGE is set as ENGLISH, then the report will be printed by English mode.

2. When you select compress printing in the setup menu, high speed printing is invalid.

Current Setting Report

Jolimark DP560

VX.X XXX XXXX/XX/XX

SN: XXXXXXXXXXXX

MAC:XX-XX-XX-XX-XX-XX DHCP:YES IP:10.0.0.1 Subnet:255.255.255.0 gateway:255.255.255.255

SYSTEM SETUP

LANGUAGE **ENGLISH** CHINESE
 EMULATION **EPSON** OKI
 CHAR.MODE **ASCII** China

CHARACTER

FONT **ROMAN** SANS SER COURIER PRESTIGE SCRIPT OCR-B OCR-A ORATOR
 ENG PITCH **10 CPI** 12 CPI 15 CPI PROPORTIONAL
 CHI PITCH **6.7 CPI** 7.5 CPI
 SLASH ZERO **OFF** ON
 INTL CHAR SET **U.S.A.** FRANCE GERMANY U. K. DENMARK1 SWEDEN ITALY SPAIN 1
 JAPAN NORWAY DENMARK2 SPAIN 2 LATIN AM KOREA LEGAL HOLLAND
 TURKEY
 CHAR SET ITALICS **GRAPHICS**

PAGE LAYOUT

PAPER TYPE **BILL** CARD
 LINE SPACING **6 LPI** 8 LPI
 FORM LENGTH 3 INCH 11/3 INCH 3.5 INCH 4 INCH 5 INCH 5.5 INCH 6 INCH 7 INCH
 11 INCH **A4** 12 INCH 14 INCH
 FORM LOCK **OFF** ON
 PAGE SKIP **OFF** ON
 COMPRESS PRT **OFF** AUTO 75% 66% 50%
 LEFT MARGIN **0/10 INCH** 1/10 INCH 2/10 INCH 3/10 INCH 4/10 INCH 5/10 INCH
 BLACK MARK **OFF** LEFT MARK RIGHT MARK

PRINT SETUP

PRINT DIR **BI-DIR** UNI-DIR **AUTO**
 QUALITY **NORMAL** LETTER
 EX HIGH SPD **OFF** ON
 QUIET MODE **OFF** ON
 AUTO LF **OFF** ON
 TEAR OFF **OFF** **ON**
 LOADING PUSH KEY 0.5 SEC. **1.0 SEC.** 2.0 SEC.
 EJECT **FRONT** REAR
 PIN SWITCH **OFF** ON
 MARGIN DETECT **OFF** **ON**
 SKEW DETECT **OFF** 001 002 003 004 005 006 007

SERIAL I/F

BAUD RATE 19200 BPS **9600 BPS** 4800 BPS 2400 BPS 1200 BPS
 PARITY **NONE** ODD EVEN
 DATA BIT **8 BIT** 7 BIT
 STOP BIT **1 BIT** 2 BIT
 PROTOCOL XON/XOFF **DTR**

PIN TEST

24 _____ 23 _____ 22 _____ 21 _____ 20 _____ 19 _____ 18 _____ 17 _____
 16 _____ 15 _____ 14 _____ 13 _____ 12 _____ 11 _____ 10 _____ 09 _____
 08 _____ 07 _____ 06 _____ 05 _____ 04 _____ 03 _____ 02 _____ 01 _____

Figure 4-2 Printing current setting report

- Note:** 1. The shadow one is the current setting value.
 2. Print out the menu according to the selected interface.

■ **Enter into Menu Setup mode**

1. The printer is in online mode.
2. Holding the **LOAD/EJECT** key down for 3 seconds.
 - The **Power** indicator and **Online** indicator blink twice simultaneously which indicates that the printer enters the menu setup mode.
 - The title and main menu are printed out firstly (as the following figure shown), the default settings are underlined. Print head stays under the current default item.

Jolimark DP560 SETUP MENU SYSTEM

Use the **LOAD/EJECT** key to point the print head to the desired setting.

Use the **LF/FF** key to confirm the current setting

Use the **ONLINE** key to go back the previous menu (Press and hold the **ONLINE** key to go back the main menu).

Press and hold the **TEAR** key to save settings and exit.

Current settings are UNDERLINE New settings will be **FILLED**.

MAIN MENU SYSTEM SETUP CHARACTER PAGE LAYOUT PRINT SETUP SERIAL I/F PIN TEST

Figure 4-3 Menu setup mode

3. Using the following keys to modify the menu setting:

LOAD/EJECT Select the menu option or menu setting value.

LF/FF Enter into submenu or confirm menu setting value.

Note: Newly setting option would be shown in **FILLED**.

ONLINE Return to upper menu (Hold on pressing **ONLINE** key would return to main menu directly).

TEAR Save and exit the menu setup mode.

4. Giving up the settings just modified, just turn off the printer directly. If you need to save the newly setting, long press **TEAR** key to save and exit the menu setup mode.
5. Turn off and restart the printer, newly settings are in operation.

4.6.3 Online-aptitude Parameter Settings

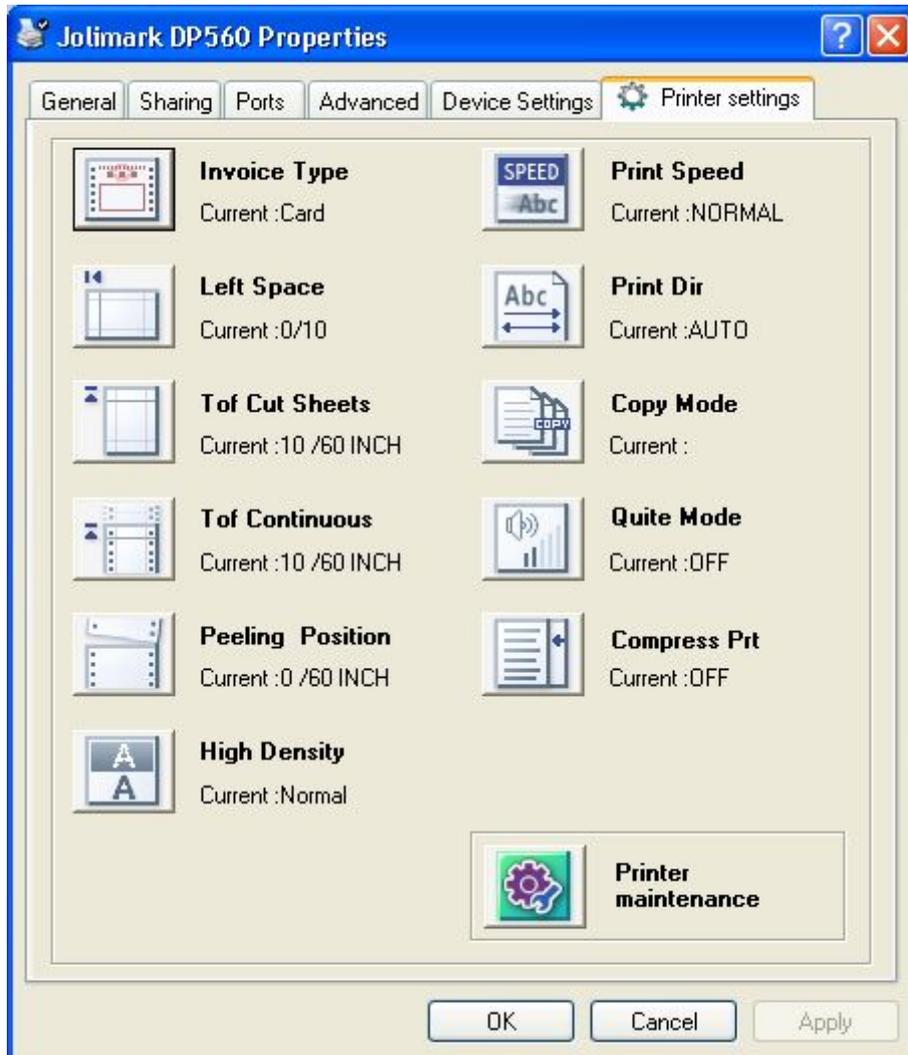
This printer supports the function of online-aptitude parameter settings, which can be set in the PC with the driver installed in.

The concrete setting steps are shown as follows:

1. Make sure that the computer and the printer are connected with USB cable and both the computer and the printer are turned on, the printer should be in normal working condition as well.
2. Under the operation system of WIN 2000/WIN XP/VISTA/WIN 7, Click “Start” → “Settings” → “Printers”.

Under the operation system of Windows 8, click “Desktop” in the main panel firstly, and then double click and enter into the window of “Control panel”, click “Hardware and Sound” to find “Devices and printers”, at last, open the window of “Devices and printers”.

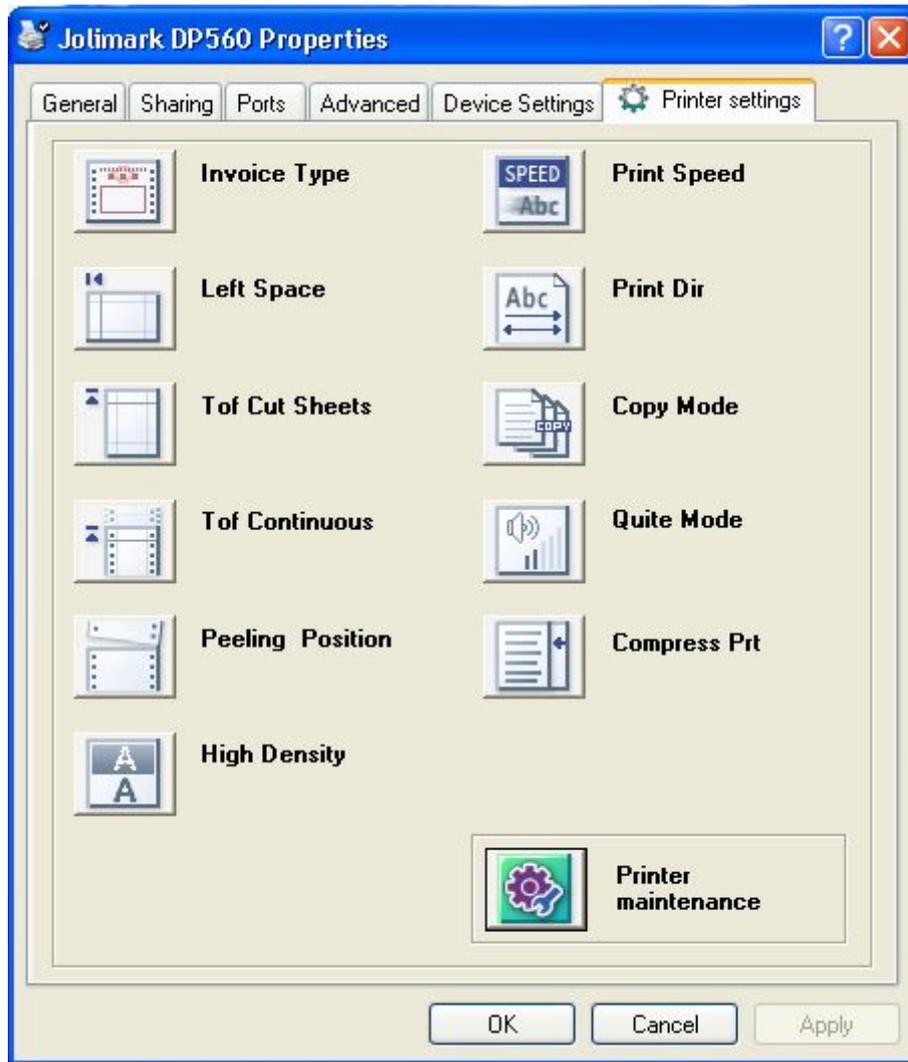
3. Right click this printer driver, select "Properties".
4. Click "Printer settings" in the property page.
5. Printer settings are classified into three levels: the first level is the normal items, the second level is maintenance items and the third level is non-driver settings. Items shown in Printer Settings are normal items; Click Printer maintenance button in "Printer settings", the items which in the popped out window of "Printer maintenance" are the maintenance items; Click Non-driver print setup button in "Printer maintenance", the items which in the popped out window of "Non-driver print setup" are the non-driver settings.



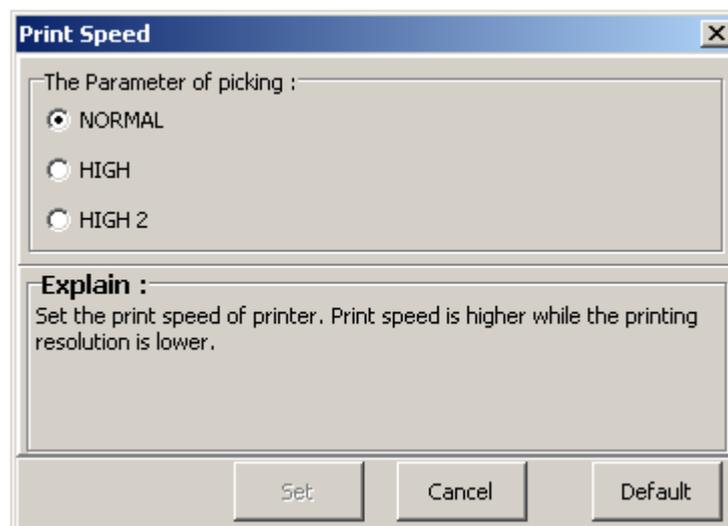




6. The left side of each items is the parameter icon, the top right is the item name and the bottom right is the current setting. The current settings of the printer will be loaded automatically when opening each parameters settings window. If the printer doesn't online or use the wrong port, the current settings will be blank, therefore, please set the printer in ONLINE mode or set the correct printing port.



7. When setting the parameter, please click the parameter icon firstly to open the parameter setting window. In the parameter setting window, there are parameter options, item explanation and control buttons. After selecting the corresponding parameter, click "Set", the printer will change the setting at the moment it receives the change command. Click "Cancel" to return to the upper window. Click "Default" can show the default setting of this item.



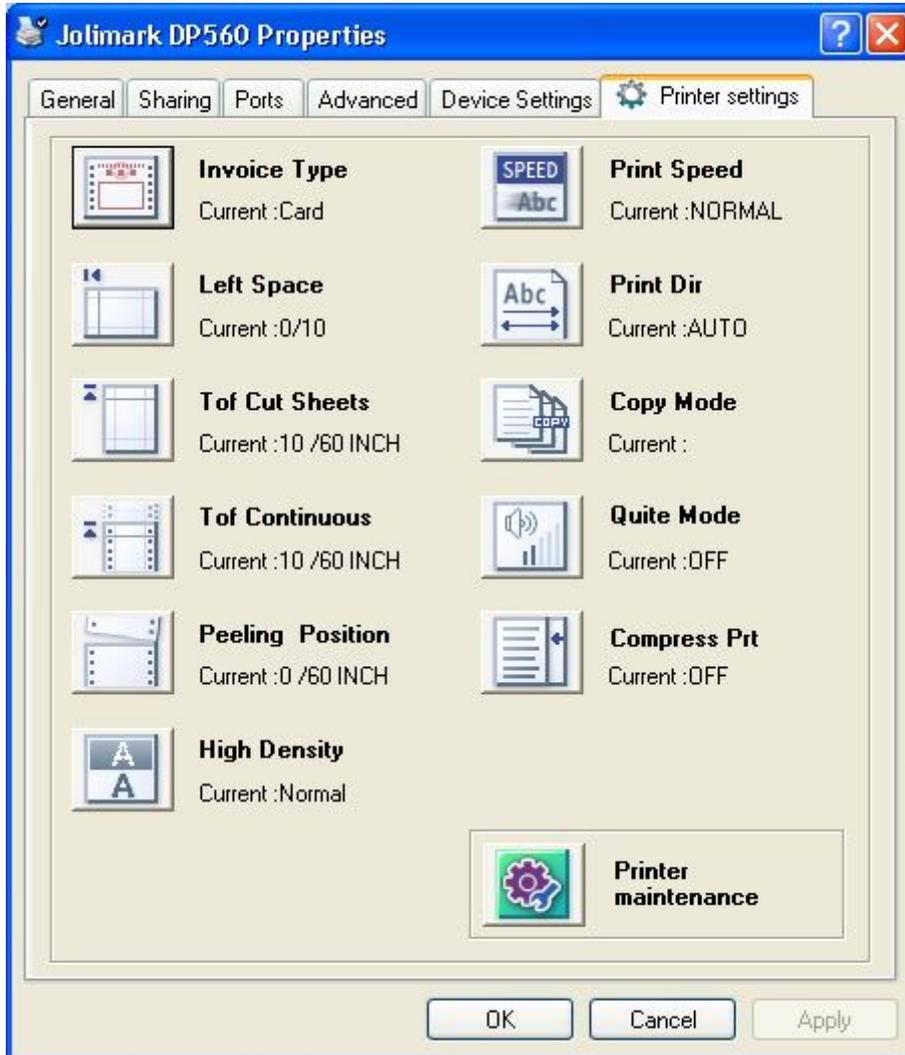
8. If you need to change multi-items, please refer the upper steps to modify them one by one.

9. After finishing setting, click “OK” to exit the Properties window.

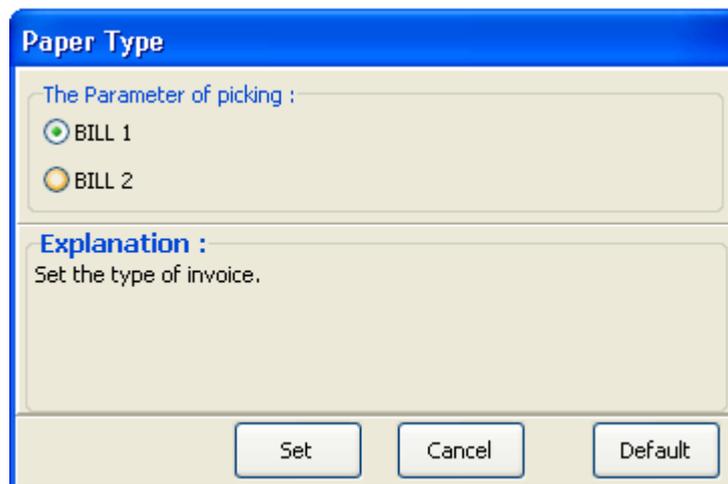
Sample of the online parameter setting:

The paper type includes bill and card, each option can set the parameters, for example, user can define the common used bill printing format, so that user can quickly switch different bill to print.

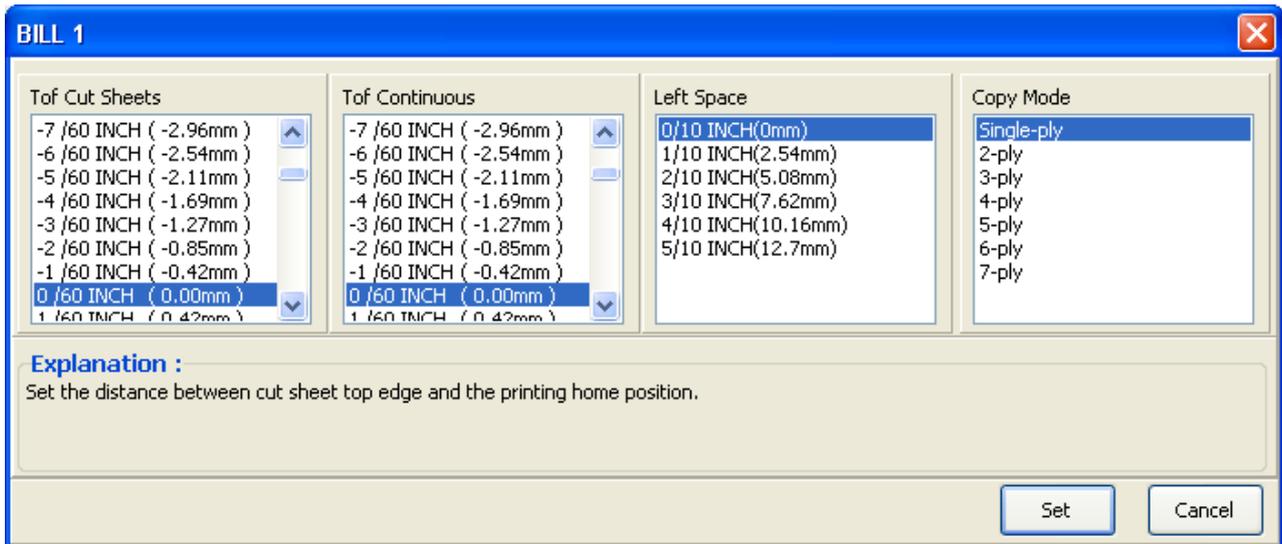
1. Click the “Paper type” in the window of printer settings.



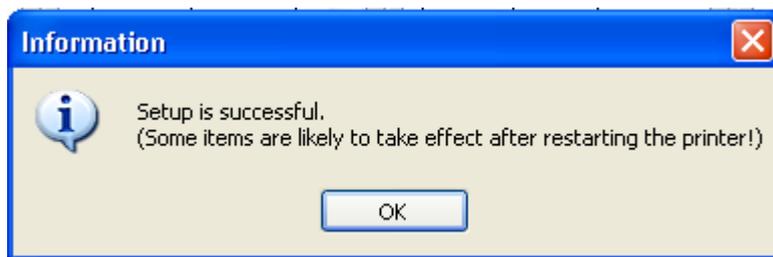
2. Select the parameter option in the popping window, click “Set”.



3. The parameter setting interface pops up, set the parameters.



4. Click “Set”, the interface of setting successfully pops up; click “OK” to return to previous interface and click “Cancel” until the Printer settings window is closed.



4.7 Explaining Menu Terms

Terms	Description
LANGUAGE	Specify the printer menu language as English or Chinese.
EMULATION	Select printer's control commands.
CHAR. MODE	Select ASCII or Chinese character mode to print when printer receives character printing task.
FONT	Specify a kind of ASCII fonts to print when printer receives character printing task. If the print data is with font instruction, printer gives priority to print data instruction. (Only valid when ASCII is selected in CHARACTER MODE)
ENG PITCH	Select the ASCII character spacing in characters per inch (cpi).
CHI PITCH	Select the Chinese character spacing in characters per inch (cpi).
SLASH ZERO	After selecting this function on, number 0 is with a slash(/), to distinguish it from the letter O.
INTL CHAR SET	Specify the printer internal character set according to different using circumstances of international characters.
CHARACTER SET	Specify character set as Italic Character or Graphic Character.
PAPER TYPE	Select the paper type.
LINE SPACING	Specify the line spacing in lines per inch (lpi). If the print data with vertical pitch instruction, printer would give priority to print data instruction.
FORM LENGTH	Specify the page length of the form, for both cut sheet and continuous paper. Printer feeds to next page according to the specified page length. If the print data

	with page length instruction, printer would give priority to print data instruction.
FORM LOCK	After selecting this function on, printer would lock the page length setting. Printer feeds to next page according to the current setting parameter and would not be affected by the page length instruction of the print data.
PAGE SKIP	After selecting this function on, printer would leave one inch (25.4mm) margin at the perforation of the tractor paper automatically. If the print data with page margin instruction, printer would give priority to print data instruction.
COMPRESS PRINT	After selecting this function on, printer would print out transverse compressed content according to the specified percentage in normal speed. When auto-compress mode is selected, printer would detect paper width automatically and choose the proper percentage to print.
LEFT MARGIN	Specify the distance between paper left edge and printing start position. (Only valid when MARGIN DETECT function is on.)
BLACK MARK	When the function is turned on, use black mark detect command to conduct precise vertical positioning printing. (the bill or paper must be with black mark on the printed side)
PRINT DIR	Select the printing direction of the print head: unidirectional, bidirectional or selected via software.
QUALITY	Select the printing quality as normal or LQ, when setting to LQ, printer will print in the highest printing quality. <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p>Note: Letter Quality is only valid when the printing speed is normal.</p> </div>
EX HIGH SPEED	After the function is turned on, when printing Chinese character and the print speed is super high speed, the Ex high speed will be used, whose print speed is faster than super high speed.
QUIET MODE	Disable or enable the low noise function, when this function is on, print speed would be reduced.
AUTO LF	After selecting this function on, printer would feed the paper one line automatically after receiving every carriage return instruction.
TEAR OFF	Select the function of feeding the paper to tear off position ON or OFF in tractor paper mode. After selecting this function on, if the printer receives FF command for a period of time, but receives no printing data, printer would feed the page bottom to tear off position automatically.
LOADING	Specify the wait time between cut sheet is put into the paper guide and it is fed into the printer. Select the specified time or feed paper by LOAD/EJECT key in offline mode.
EJECT	Specify paper eject direction when loading paper from front.
PIN SWITCH	After selecting this function on, printer would switch different pins to print Chinese tabs automatically.
M DETECT	After the function is turned on, the printer will detect the paper border after feeding paper, and print according to the set left margin.
SKEW DETECT	Set the skew value. After selecting this function on, if the tilt angle of paper feeding is over the setting value, the printer will eject paper.
BAUD RATE	Specify the printer serial data transfer rate.
PARITY	Specify the parity bit for serial data transfer.
DATA BIT	Specify the serial data bits.
STOP BIT	Specify the serial data transfer stop bit.
PROTOCOL	Select the control way of protocol of serial data transfer as software control (XON/XOFF) or hardware control (DTR).
PIN STATE	The printer will print out the pin transverse lines to show whether the print head has broken pin.

■ Alignment Adjust Mode

After a long time using, some printers' printing position may move a little bit, so that the two lines printout may not be aligned in BID printing. At this time, printer alignment needs adjusting so as to improve the printing quality.

Adjustment method:

1. Print the alignment adjustment

Install the paper.

Press **LOAD/EJECT + TEAR** keys and turn on the printer at the same time, the printer enters into the factory parameters adjustment mode.

When the **ONLINE** LED is on, long press **LOAD/EJECT + TEAR** keys, printer prints the alignment state of the current print speed.

LOAD/EJECT button: Press to move the odd line to the right (original parameter values increase)

LF/FF button: Press to move the odd line to the left (original parameter values decrease)

Online button: Save the current setting to EEPROM and then print out the current alignment adjust result.

TEAR button: Enter into the next alignment adjustment.

2. Turn off the printer to exit this mode.

Note: Alignment adjustment will affect print quality. You must think it over before adjusting and must operate it strictly according to the instruction.

Appendix A Maintenance and Troubleshooting

A.1 Cleaning the Printer

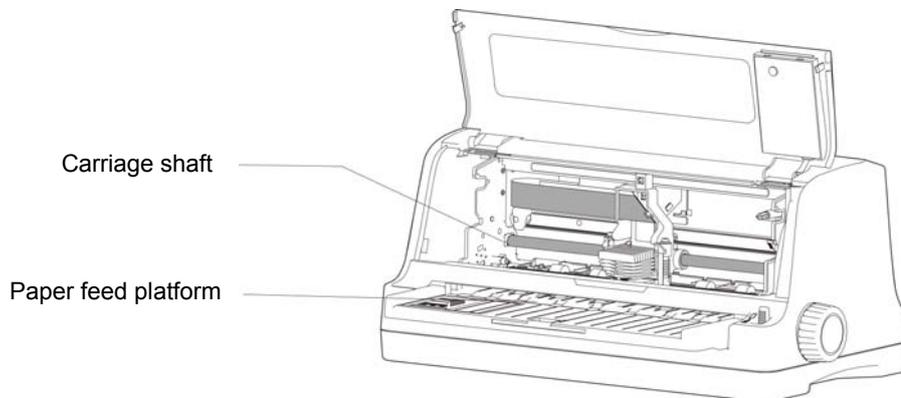


Figure A-1 Cleaning the printer

■ Cleaning periodically and the cleaning tool

Periodical cleaning: every three months or every 300 working hours once.

Cleaning tool: dry cloth (please use soft cloth to clean metal parts.)

■ Cleaning the paper feed platform

Wipe off the wasted paper and clean the dirt and dust.

■ Cleaning the carriage shaft

There is a layer of oil covering the carriage shaft, which guarantees the carriage runs smoothly. But the oil is easy to absorb dust, please clean the dust with soft cloth first, and then add proper amount of lube (NYE180 lube of NYE Company is recommended), move print head back and forth to make lube scattered evenly.

Note: 1. Turn off printer and pull out the power cable before cleaning.

2. Being used under dust circumstance, the carriage shaft may stack much dust and affect the print quality, therefore, please shorten the cleaning period.

3. Print head and the surrounding part may be high temperature after using. Please avoid cleaning it at the moment.

4. Don't use hard cloth or combustible solvent to clean the printer.

A.2 Problems and Solutions

When the printer has error, the **ONLINE** LED will blink quickly, the common errors are:

A. Print Head overheated protection: After long time printing, the printer will stop printing from one-way printing.

Solution: Please wait. The print head will continue to work automatically after cooling.

B. Paper select lever error: Paper is in the print position after the printer is turned on, but the select lever is in the error position.

Solution: Move the select lever to the correct position.

C. Home position sensor error: There is error reporting during printing, and the printing stops.

Solution: Press the ONLINE key or turn off the printer and restart it. The printer will get right again.

D. Paper out or paper jam: There is paper out or paper jam in the printer.

Solution: Load paper or remove the jammed paper.

A.3 Contact the Technical Service Centre

If malfunction occurs and you cannot solve the problem through the operation shown in A.2, the components of the printer are damaged during using or you need to buy some consumables, please contact the authorized technical service centre.

Appendix B Specifications

B.1 General Specifications

Item	Description		
Printing method	24 Pins dot matrix impact		
Printing direction	Bidirectional logic seeking		
Printing width	82 column (10cpi/208.3mm)		
Printing speed	ASCII		
	Speed	10 CPI	12 CPI
	Normal speed	150 CPS	180 CPS
	High speed	300 CPS	360 CPS
	Super high speed	420 CPS	504 CPS
Print head	Diameter of wire: 0.20 mm		
Resolution	360 x 360 dpi (Max.)		
Character set	ASCII: 15 international character sets		
Code Page	28 kinds		
Fonts	Draft		
	7 kinds of the LQ fonts: (Roman, Sans Serif, Courier, Prestige, Script, OCR-A, OCR-B)		
Bar code	EAN-13, EAN-8, Interleaved 2 of 5, Matrix 2 of 5, Industrial 2 of 5, Code 39, Code 128 B, Code 128 C, Codabar		
Character pitch	ASCII: 10 CPI, 12 CPI, 15 CPI, proportional		
Line space	1/6 inch, 1/8 inch, or programmable in 1/360 inch increments		
Paper feeding speed (Max.)	5.0 inch/s (feeding continuously)		
	44ms feeding one line (1/6 inch)		
Emulation	EPSON ESC/PK2, OKI 5530SC		
Interface	<p>This printer can be equipped with the following interface types:</p> <p>USB interface: 2.0 Full-Speed</p> <p>Parallel interface: Centronics (IEEE1284 NIBBLE)</p> <p>Ethernet interface (10/100Base-T)</p> <p>Bluetooth</p> <p>Wi-Fi (802.11b/g/n)</p> <div style="border: 1px solid black; border-radius: 10px; padding: 10px; margin-top: 10px;"> <p>Note: 1. Only one of the data interfaces (Ethernet, Bluetooth and Wi-Fi) is supplied when leaving the factory.</p> <p>2. Please take the specific interface as standard.</p> </div>		
Input Buffer	256 KB		
Ribbon	Model: JMR 139		
	Life: 10 million characters (draft mode)		
Noise	< 55 dB (A) (ISO7779 standard)		
Control panel	4 buttons and 4 LED lights		
Paper feed type	Cut sheet: Load and eject from front, load from front and eject from rear		
	Continuous paper: Load from rear and eject from front		

Paper specification	Continuous paper	Width: 60 ~ 272 mm
	Cut sheet	Width: 55 ~ 297 mm
		Length: 67 ~ 536 mm
	Lay open thickness of transverse certificate	Lay open thickness of transverse passbook / certificate: 1.8 mm
Lay open size of transverse certificate	Length: 75 ~ 300 mm	
	Width: 90 ~ 297 mm	
Max. paper thickness	2.0 mm	
Copy	Copy: 1 + 6P 3-sheet: Original + 1 ~ 3 copies (0.065 mm/ page) --1 time printing 5-sheet: Original + 3 ~ 5 copies (0.065 mm/ page) --1 time printing 7-sheet: Original + 5 ~ 6 copies (0.065 mm/ page) --2 times printing	
Compress printing	Support graphics and character compression printing, compression ratios are 50%, 66%, 75%, auto compress printing. (110-column content can be printed by 82-column machine with the transverse compression), select this function in the menu.	
Aptitude application	Paper edge detection, skew detection, black mark detection, paper thickness auto-adaption, Full slot paper feeding	
Special function	Pin Break Compensation, Pin Rotation Replacement, Automatic Emulation Match, Online Parameter Setting	
Physical dimensions	422 (Width) ×239 (Length) ×200 (Height) mm	
Weight	About 4.9kg	
Environmental conditions	Working environment: 5 ~ 40℃	
	Working humidity: 25 ~ 80%RH (No condensation)	
	Storage environment: -40 ~ 55℃	
Power supply	Input voltage: 220 V (AC)	
	Frequency: 50Hz	
Power consumption	① Operating: 110 W; ② Standby: Approximately 3.4 W <div style="border: 1px solid black; padding: 5px; text-align: center;"> Note: Only when the product is unconnected with outer power supply, can it achieve zero energy consumption state. </div>	

Note: All the technical instructions in this user's manual are the laboratorial measurements which achieved under national standard store and work environment (room temperature), the measuring paper accords with the specification in this user's manual.

B.2 Interface Specifications

This printer is equipped with USB interface, parallel interface, Ethernet interface, Bluetooth or Wi-Fi.

B.2.1 USB Interface

USB Interface is 2.0 Full-Speed. The USB interface connector is USB-B type (as shown by Figure B-1):

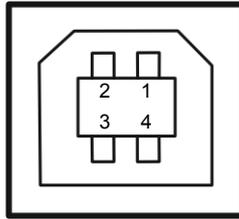


Figure B-1 USB-B type connector

Sequence number	Signal name	Color
1	VBUS	Red
2	D-	White
3	D+	Green
4	GND	Black

B.2.2 Parallel Interface

This is the standard Centronics (IEEE1284 NIBBLE) parallel interface, the interface connector is DB-36 type, the pins are shown as Figure B-2:

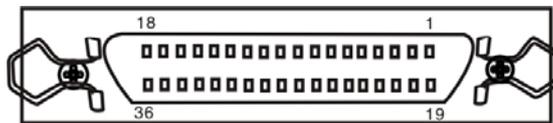


Figure B-2 Parallel interface

The parallel interface has the following characteristics:

Data format: 8-bit

Synchronization: /STROBE pulse

Handshaking: BUSY and /ACKNLG signals

Signal level: TTL compatible

Definition of pins

Table 1 Pin definition of parallel interface connector

Signal Pin No.	Return Data Pin No.	Signal Name	Signal Direction
1	19	$\overline{\text{STROBE}}$	Printer ← Host
2 ~ 9	20 ~ 27	DATA	Printer ← Host
10	28	$\overline{\text{ACK}}$	Printer → Host
11	29	BUSY	Printer → Host
12	30	PE	Printer → Host
13	—	SELECT	Printer → Host

14	—	AUTO FEED	Printer ← Host
15	—	NC	NC
16	—	SIGNAL GND	Printer ↔ Host
17	—	CHASSIS GND	Printer ↔ Host
18	—	+5V	Printer → Host
31	—	PRIME	Printer ← Host
32	—	ERROR	Printer → Host
33	—	SIGNAL GND	Printer ↔ Host
34	—	NC	Printer → Host
35	—	PULLED UP 5V	Printer → Host
36	—	SELECTIN	Printer ← Host

B.2.3 Ethernet Interface

10/100Base-T Ethernet interface, it can connect to 10/100M Ethernet.

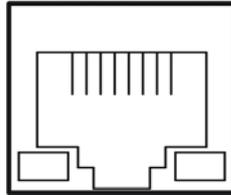


Figure B-3 Ethernet Interface

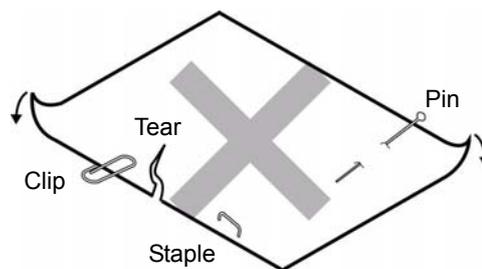
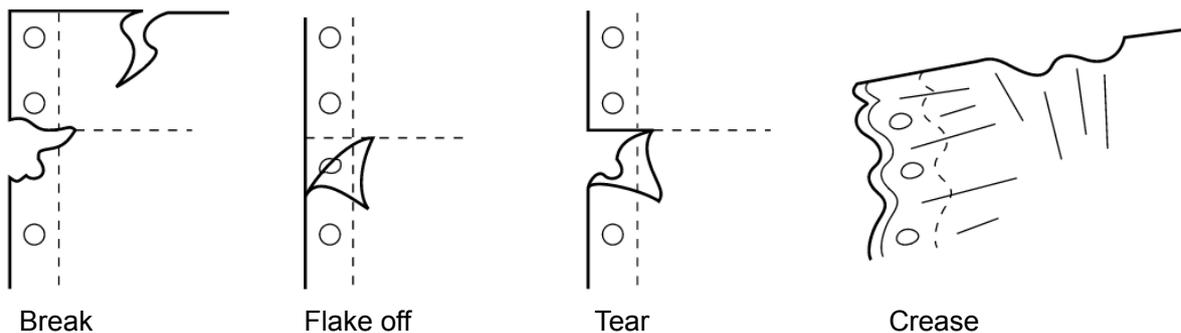
Appendix C Paper Specification

C.1 Paper Specification and Printable Area

C.1.1 The Notice Relating to Paper

Using the following paper will cause unstable paper feeding, paper jam or paper crease, even leads to break pin. So please do not use them.

- Too thin or too thick, or the thickness of paper is uneven. (The paper which doesn't accord with paper specification)
- Too small or too large. (The paper which doesn't accord with paper specification)
- Paper is being cut irregularly or has hole.
- Paper with metal such as pins, clips and staples.
- Paper with paste outside, or which is uneven or flaked off.
- Rough paper
- Continuous paper has crease besides the cross-perforation.
- Paper corner breaks or is creased.
- Postcard or envelope with stamp or seal.



1. The storage of the paper should be in the temperature between 10°C to 30°C and the relative humidity between 30% to 70%.
2. When there is difference between operating environment and storage environment, please put the sealed paper in the operating environment a period of time. Use it after the paper adapts to the operating environment.

C.1.2 Useable Paper Types and Guarantee Area

The guarantee paper types are shown in the following table:

Paper type	Guarantee grade	Other conditions
Cut sheet	●	
Continuous paper	●	
Post card	●	
Card	▲	
Envelope	▲	
Delivery order form	▲	
Passbook	▲	
Label	×	
Recycled paper	●	

Caution: “Guarantee” here means the specifications which accord with print specification, noise specification and paper feed performance, etc.

The meanings of symbol in Guarantee grade column are shown as follows:

- : Guarantee
- ▲ : Can use in some conditions, not guarantee.
- × : Forbid using.

Caution: 1. To guarantee the print quality, please ensure the contents are all within printable area.

2. If the print contents are out of the printable area, it may cause the print head to break pins.

C.1.3 Cut Sheet

The detailed specification of cut sheet is shown in the following table.

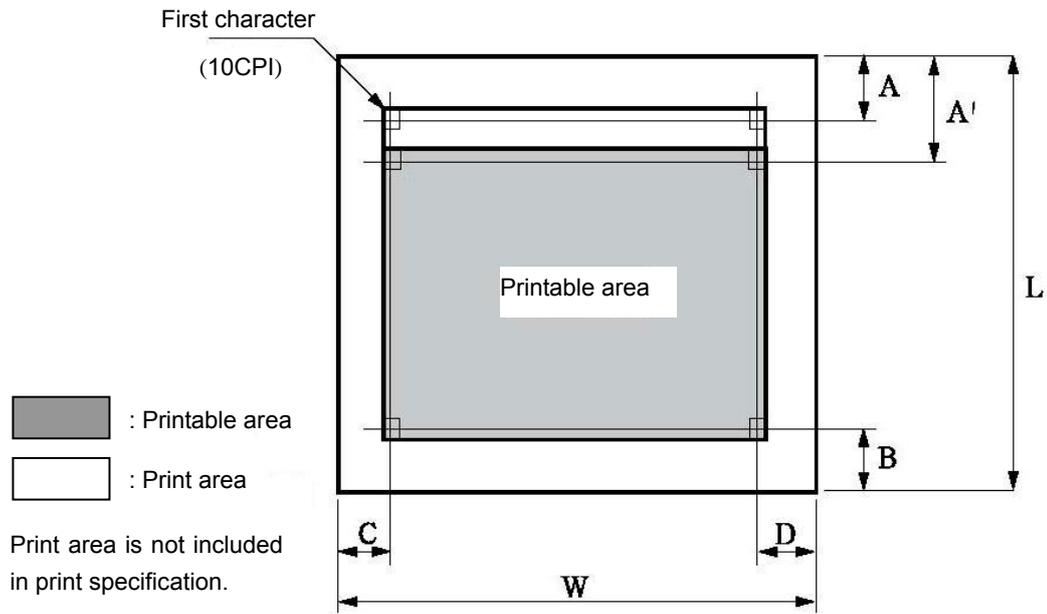
Paper	Single-ply paper	White paper, Copy paper
	Multi-ply paper	NCR paper
Copy capability (Max.)	7 copies (Original + 6 copies), paper weight is based on 40g/m ² standard.	
Weight	Single-ply paper : 45 ~ 250 g/m ²	
	Multi-ply paper (each sheet): 40 ~ 64 g/m ²	
Note: See details in the multi-ply paper (NCR paper) requirement table.		
Total thickness	Single-ply paper	≤0.8 mm (Note 1)
	Multi-ply paper	≤0.45 mm (Note 2)

Note: 1. This thickness is added by several single-ply papers, and it is only achieved when just printing on the upper paper. (No need to copy)

2. Refer to the requirement of the multi-ply paper (NCR paper), the mount paper can be thicker than other plies, but we can't guarantee the printing effect as it is influenced by paper difference.

◆ Cut Sheet Dimension and Printable area

- Single-ply paper



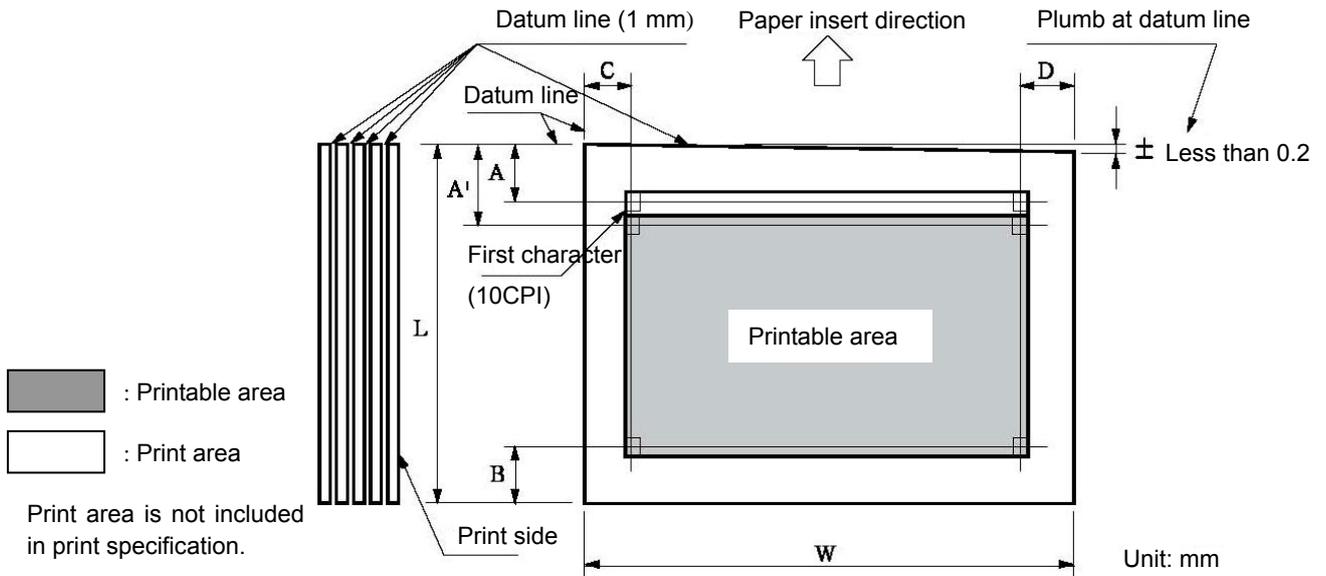
Mark	Name	Specification value
W	Paper width	55 ~ 297 mm
L	Paper length	67 ~ 536 mm (Note 1)
A	Home position (top margin)	≥2 mm
A'	Top printing unguaranteed area (top margin)	≥2 mm
B	Bottom printing unguaranteed area (bottom margin)	≥2 mm
C	Left printing unguaranteed area (left margin)	≥3 mm
D	Right printing unguaranteed area (right margin)	≥3 mm

Caution: 1. Paper less than 52 g/m² is worse in rigidity, so it is not in the guarantee list.

2. Please use the paper with no crease or bend.

3. Do not print beyond the printable area, or it may damage the print head and affect print head life.

○ Multi-ply paper (NCR paper)



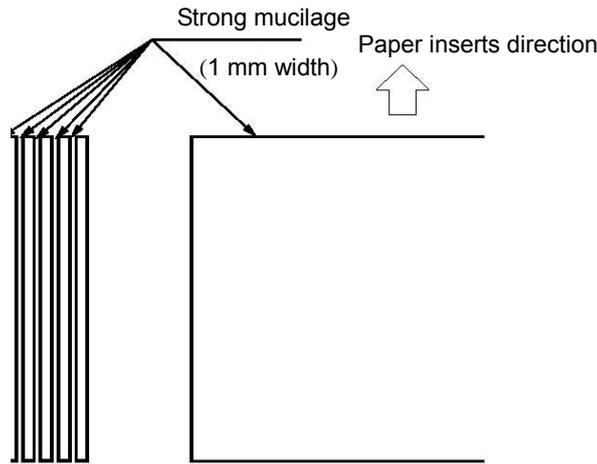
Mark	Name	Specification value
W	Paper width	55 ~ 297 mm
L	Paper length	67 ~ 536 mm (Note 1)
A	Home position (top margin)	≥2 mm
A'	Top printing unguaranteed area (top margin)	≥2 mm
B	Bottom printing unguaranteed area (bottom margin)	≥2 mm
C	Left printing unguaranteed area (left margin)	≥3 mm
D	Right printing unguaranteed area (right margin)	≥3 mm

Caution: 1. Please use paper with no crease or bend.
2. Please sizing the top at the paper feed direction.
3. Do not use the paper with binding holes.

◆ The fixing requirements of multi-ply paper (NCR paper)

○ Fixing method:

- The fixation method of fanfold paper is to sizing on the 1 mm line which in the front of paper inserts direction.
- Sizing with strong mucilage and press it tightly to avoid cocking.
- Please do not make the glue come out of paper edge.
- Sizing place can not have obvious creases or burr



◆ The combination requirements of multi-ply paper (NCR paper)

We recommend using the perfect paper or which the quality is above. The low quality NCR paper will affect the copy effect and the printing life.

The papers which accord with the specification are shown as follows.

Pages	2 plies	3 plies	4 plies	5 plies	6 plies	7 plies
Page 1	40~64 g/m ²	40~50 g/m ²	40 g/m ²	40 g/m ²	40 g/m ²	40 g/m ²
Page 2	40~80 g/m ²	40~50 g/m ²	40 g/m ²	40 g/m ²	40 g/m ²	40 g/m ²
Page 3	----	40~80 g/m ²	40 g/m ²	40 g/m ²	40 g/m ²	40 g/m ²
Page 4	----	----	40~80 g/m ²	40 g/m ²	40 g/m ²	40 g/m ²
Page 5	----	----	----	40~80 g/m ²	40 g/m ²	40 g/m ²
Page 6	----	----	----	----	40~80 g/m ²	40 g/m ²
Page 7	----	----	----	----	----	40 g/m ²

◆ Binding hole, Clipped corner

It is not support the paper which is with binding holes and clipped corners.

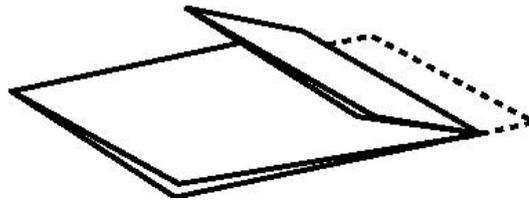
Caution: 1. Do not use the paper with clipped corner or binding hole which is not include in the guarantee list.
2. It can not guarantee device's capability after using it.

◆ The relative regulations of fold, bend and curliness

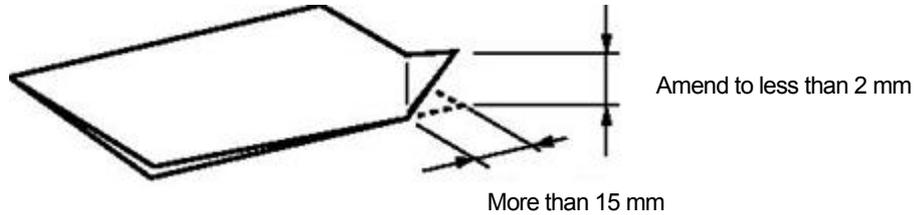
Through manually disposal, transport and deposit and according to different storage conditions, paper would easily become fold, bend or curliness. Using these papers would affect paper feeding. Thus, please use them after amending according to the following regulations. The papers which do not accord with the specifications would affect paper feeding seriously, please do not use them.

○ Fold (cut sheet, continuous paper)

- The paper that the whole page has folded can not be used.
(As the paper strength has been changed even though after amending.)
- Please amend the fold of the corner to less than 2 mm.



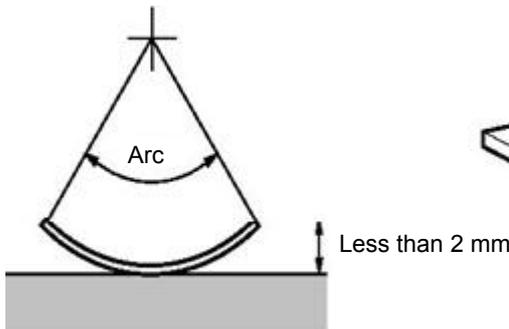
The paper that the whole page has folded can not be used.



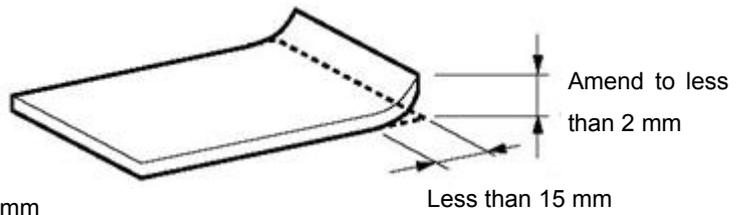
The fold of corner

o Bend and curliness (cut sheet, continuous paper)

- The paper can be used when the curliness of the whole page is less than 2 mm.
- The bend length starting from the bend point should be within 15mm. But when the bend height is over 2 mm, paper can not be used.



Whole page curliness



Bend

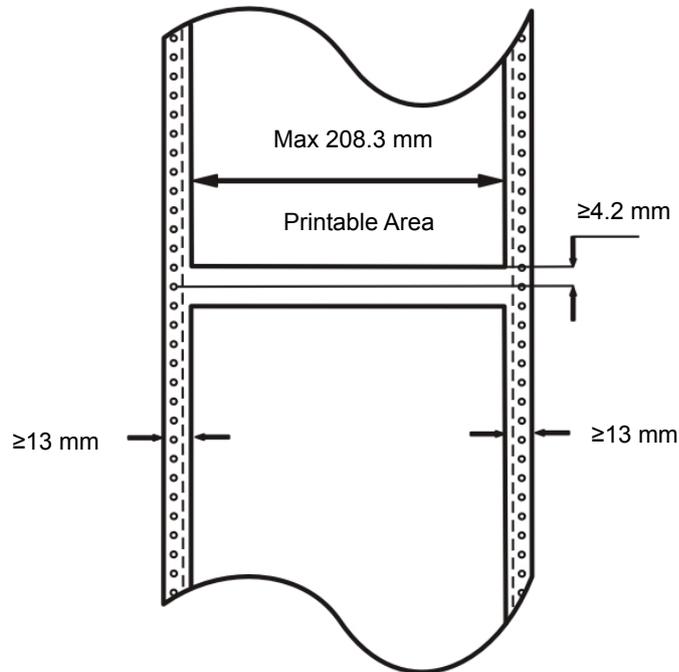
C.1.4 Continuous Paper

Continuous paper is the continuous paper which has tractor holes and the transverse perforations lines.

Refer to the following table for the requirement of continuous paper.

Paper	Single-ply paper	White paper
	Multi-ply paper	NCR paper
Width	60 ~ 272 mm	
Length	≥60 mm	
Copy capability (Max.)	7 copies (Original + 6 copies), paper weight is based on 40g/ m ² standard.	
Weight	Single-ply paper: 52 ~ 128 g/m ²	
	Multi-ply paper (each sheet): 40 ~ 64 g/m ²	
	<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Note: See details in the multi-ply paper (NCR paper) requirement table. </div>	
Total thickness	Single-ply paper	≤0.8 mm (Note 1)
	Multi-ply paper	≤0.45 mm (Note 2)

- Note:** 1. This thickness is added by several single-ply papers, and it is only achieved when just printing on the upper paper. (No need to copy)
2. Refer to the requirement of the multi-ply paper (NCR paper), the mount paper can be thicker than other plies, but we can't guarantee the printing effect as it is influenced by paper difference.

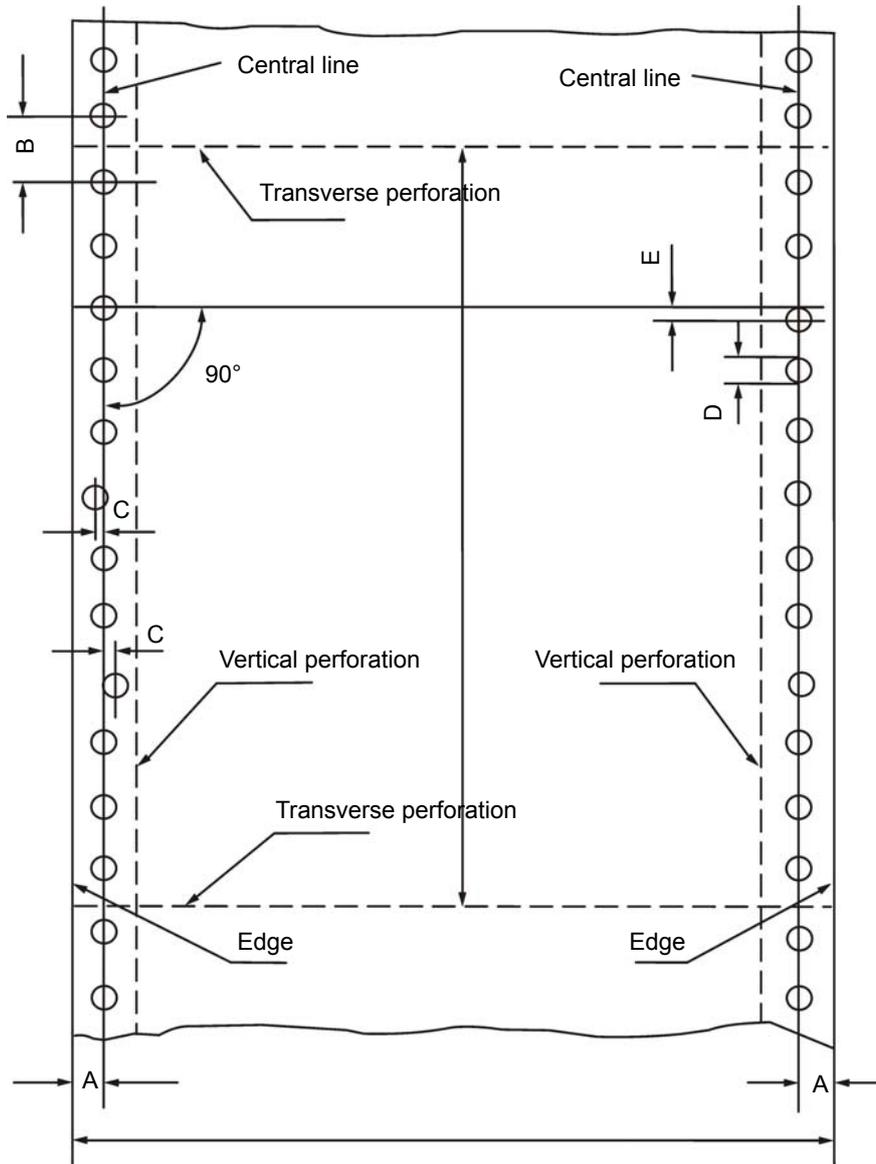


◆ The position and size of tractor hole

The tractor hole of continuous paper should accord with the specification.

The positions and sizes of tractor hole are shown below. The central line here refers to the line between any two tractor hole centers whose distance is 254 mm in either side of the paper.

Figure of continuous paper specification and tractor hole



Item	Mark	Size (mm)	Function
Position of Central line	A	6.0 ± 0.7	The distance from central line to the nearer edge. The standard distance is 6.35mm.
Diameter of tractor hole	D	4.0 ± 0.1	It is the tractor hole with tooth-like edge, its minimal diameter is the D value and its maximal diameter is 4.5mm. When using the multi-ply paper with tractor holes, it is allowed that the diameter of the tractor hole is bigger than 4.1mm.
Distance between tractor hole centers	B	12.70 ± 0.05	Distance between nearby tractor hole centers in the same side.
Accumulative error of distance between tractor hole centers	-	Below ± 0.3	The accumulative error along the central line of any two tractor holes which are 254mm apart.
Warp of tractor hole center	C	Below 0.1	The maximal warp of the tractor hole center in the same side.
Warp of right and left	E	Below 0.15	The warp value of the beeline which perpendiculars to

tractor holes			central line through any tractor hole in the left and the center of corresponding tractor hole in the right.
Lean of right and left central line	–	Below 0.15	The distance to other end when the parallel moved right and left central lines superposes with one end.

◆ Requirement of transverse perforation

The transverse perforation should not across the tractor hole, but it should at the center of two adjacent tractor holes. The wrap should not over 0.1mm.

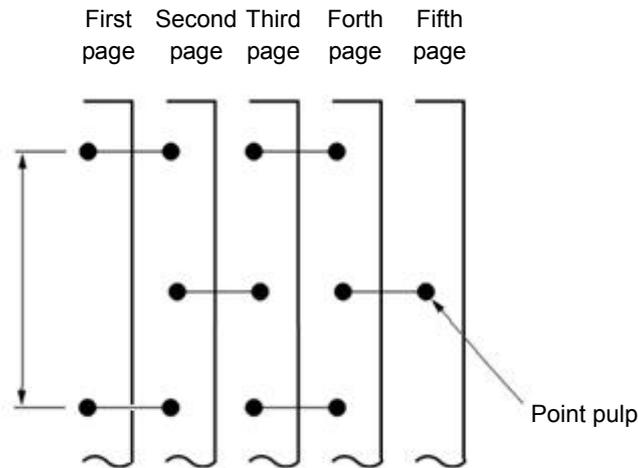
The edge of the transverse perforation should be straight, it should not be broken, and the crease should superpose with the transverse perforation.

◆ Requirement of Multi-ply paper

This printer supports the multi-ply paper whose fixed method is point pulp, line pulp or paper binding. It is strictly prohibited to use the multi-ply paper which is fixed through metal staple.

○ Point Pulp

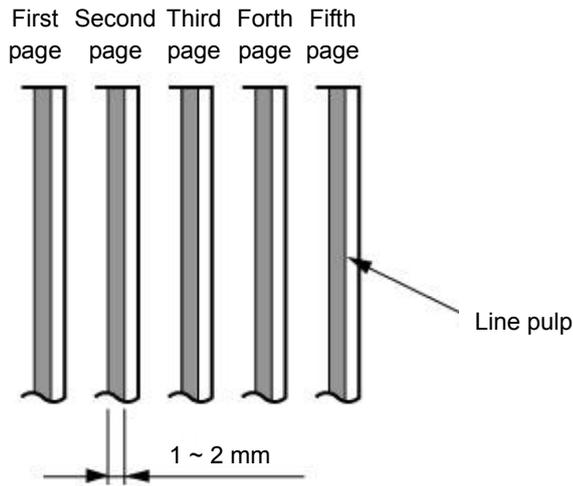
- Point pulp should be in both ends, it is not allow pointing pulp only in one end.
- The point pulp position should be the same. And the size is $\Phi 3\sim\Phi 5\text{mm}$.
- The position of point pulp should be pressed down tightly to avoid warping.
- There should not be any obvious crease on the point pulp position.
- Each page of the point pulp paper is interleaving. (Interleaving between each ply)
- The position of point pulp is shown as below.



○ Line Pulp

- The line pulp position should be the same. And the width is 1 ~ 2mm.
- The position of line pulp should be pressed down tightly to avoid warping.
- Line pulp fixing should not use the paper which is obviously creased.
- Please don't bare the pulp at the edge of paper.

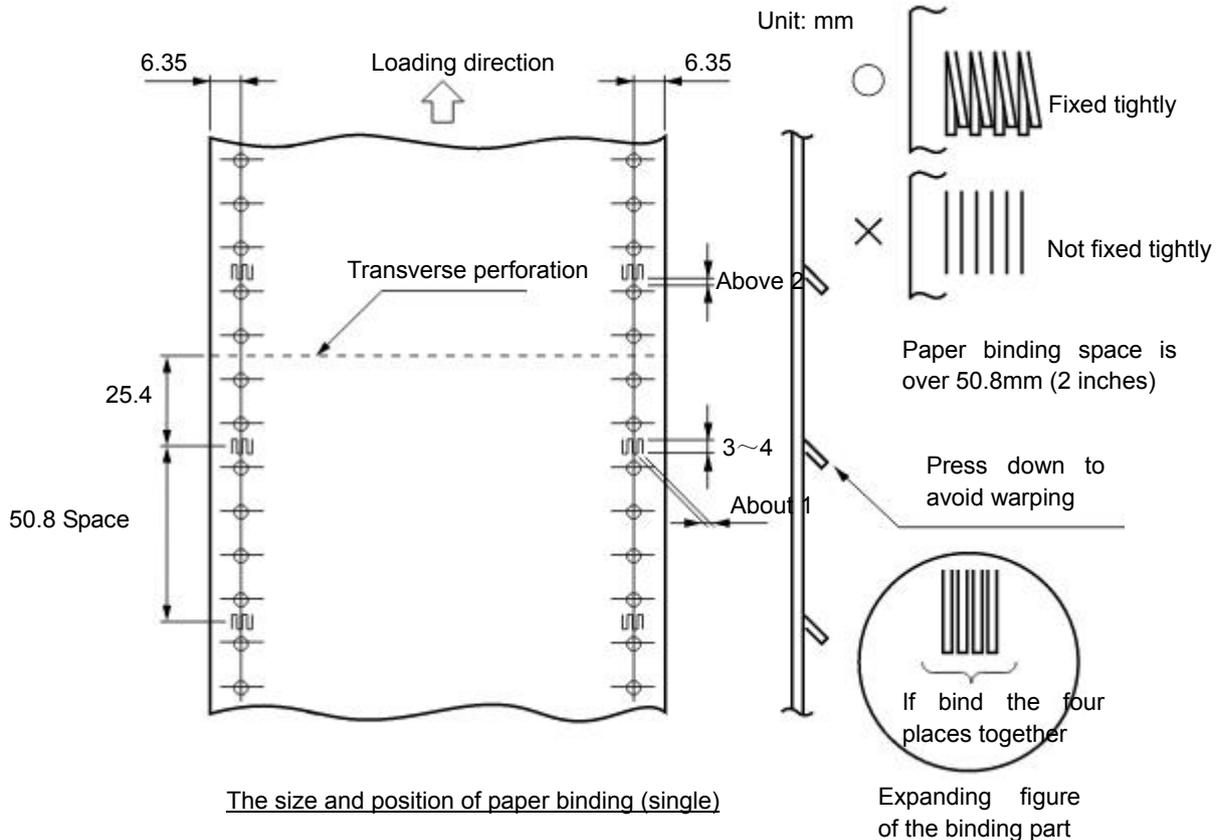
Note: If the place with pulp is hard, the paper will not be fed precisely.

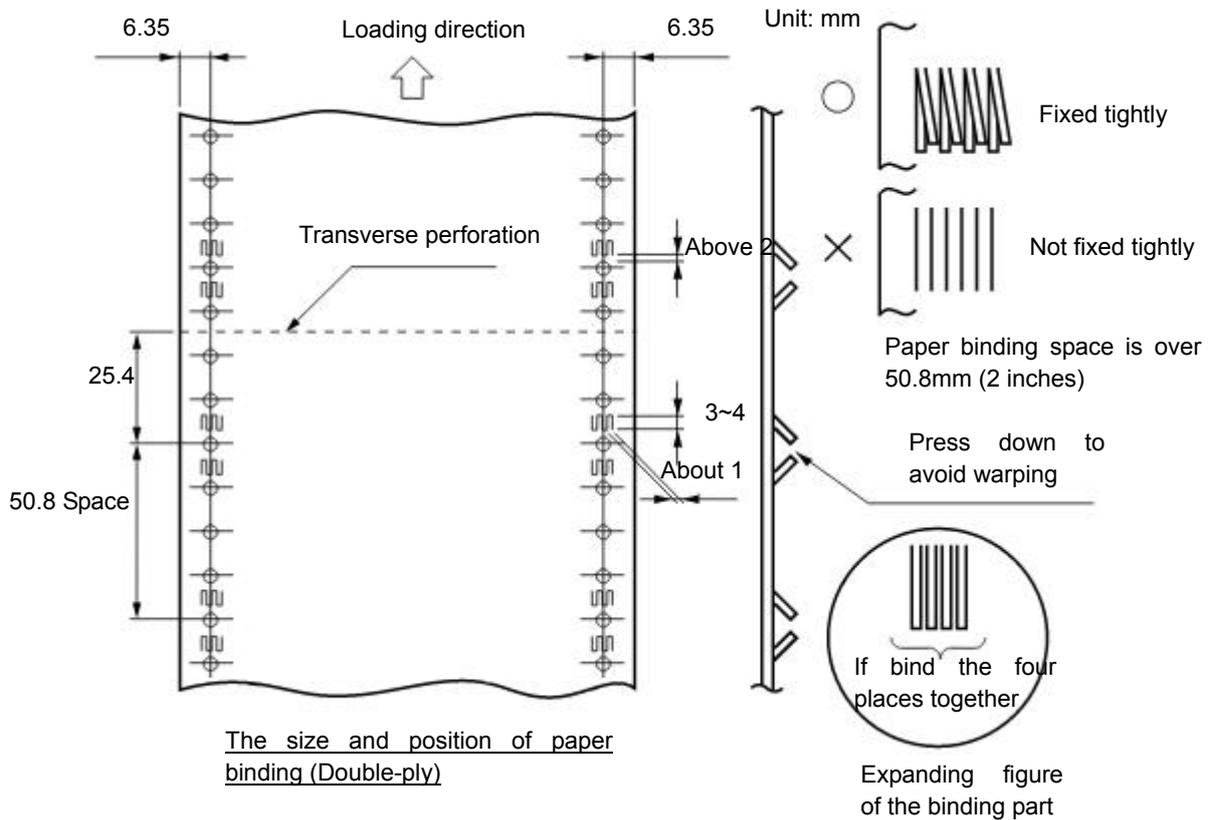


○ Paper Binding

- Paper binding should be in both ends, it is not allow paper binding only in one end.
- Paper binding should be in the paper side and the surface should be even.
- Please operate double-ply paper binding along the paper feeding direction.
- Make sure paper binding part is fixed tightly and does not wrap.
- Please press it down tightly after paper binding to avoid warping.

Note: Use the paper which is not accordance with the paper binding requirement and the specification shown below, paper feeding precision may be affected and the printing performance can not be guaranteed.





◆ Requirement of Multi-ply paper (NCR paper)

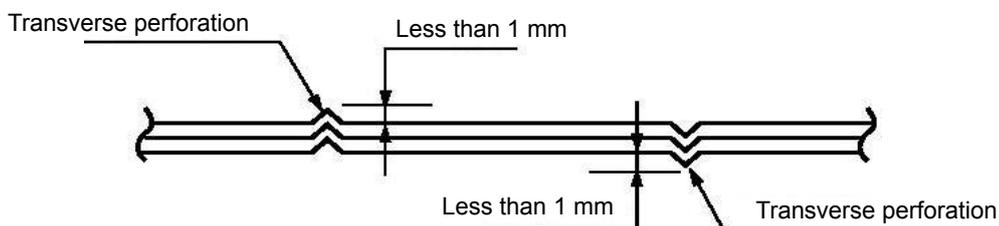
It is recommended to use the multi-ply paper which is first class or above. Low class NCR paper would affect the copy effect and printer life.

Specification of NCR multi-ply paper is shown below:

Pages	2-ply	3-ply	4-ply	5-ply	6-ply	7-ply
Page 1	40~64 g/m ²	40~50 g/m ²	40 g/m ²	40 g/m ²	40 g/m ²	40 g/m ²
Page 2	40~80 g/m ²	40~50 g/m ²	40 g/m ²	40 g/m ²	40 g/m ²	40 g/m ²
Page 3	----	40~80 g/m ²	40 g/m ²	40 g/m ²	40 g/m ²	40 g/m ²
Page 4	----	----	40~80 g/m ²	40 g/m ²	40 g/m ²	40 g/m ²
Page 5	----	----	----	40~80 g/m ²	40 g/m ²	40 g/m ²
Page 6	----	----	----	----	40~80 g/m ²	40 g/m ²
Page 7	----	----	----	----	----	40 g/m ²

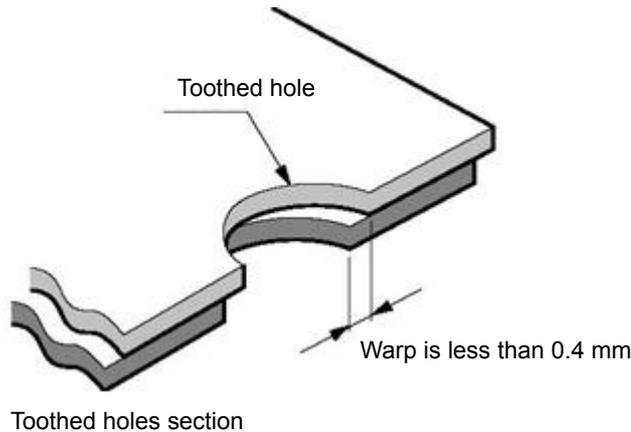
◆ The protuberance of transverse perforation

When the fanfold transverse perforation sticks up, it may cause print quality decrease, unstable paper feed or paper jam etc. Especially when the multi-ply paper is with many pages, it will deeply affect the stability of paper feed. Please ensure the protuberance height is less than 1 mm.



◆ Warp between toothed holes of each ply

Please use the paper which toothed holes warp between each ply (causes by the warp of multi-ply papers superposition) is less than 0.4 mm.



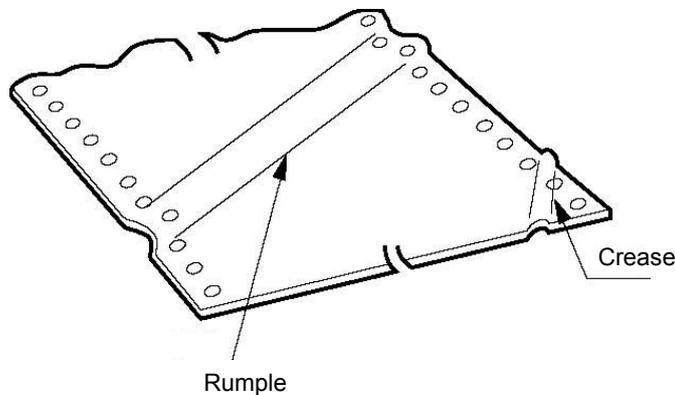
◆ Binding hole, Clipped corner

It is not support the paper which is with binding holes and clipped corners.

Caution: 1. Do not use the paper with clipped corner or binding hole which is not include in the guarantee list.
2. It can not guarantee device's capability after using it.

◆ Rurple, crease

The paper should not have creases or rumples, especially for new paper. The first and last pages are easy to have creases or rumples, so please do not use them.

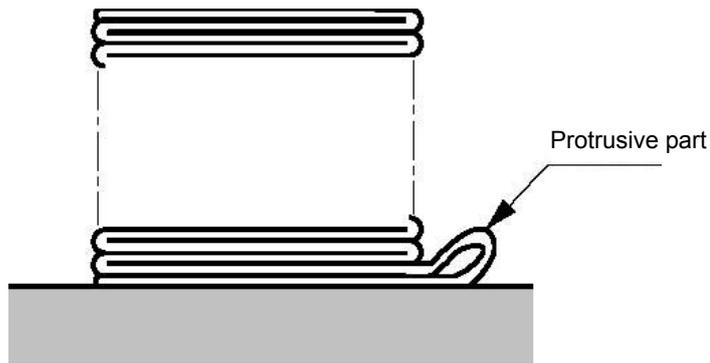


◆ The crease, crimp, fold and upturning of the paper top and bottom

Please do not use the paper which is crease, puckered, crimp and upturning in the top and bottom. Or it may cause cheap printing quality or paper jam. Especially for the new paper, if it is crease from the first few pages, please do not use it.

◆ Paper folding part

Please fold the paper based on the transverse perforation. It will affect paper feeding while the folding part sticks up as the following figure shown, please do not use it.



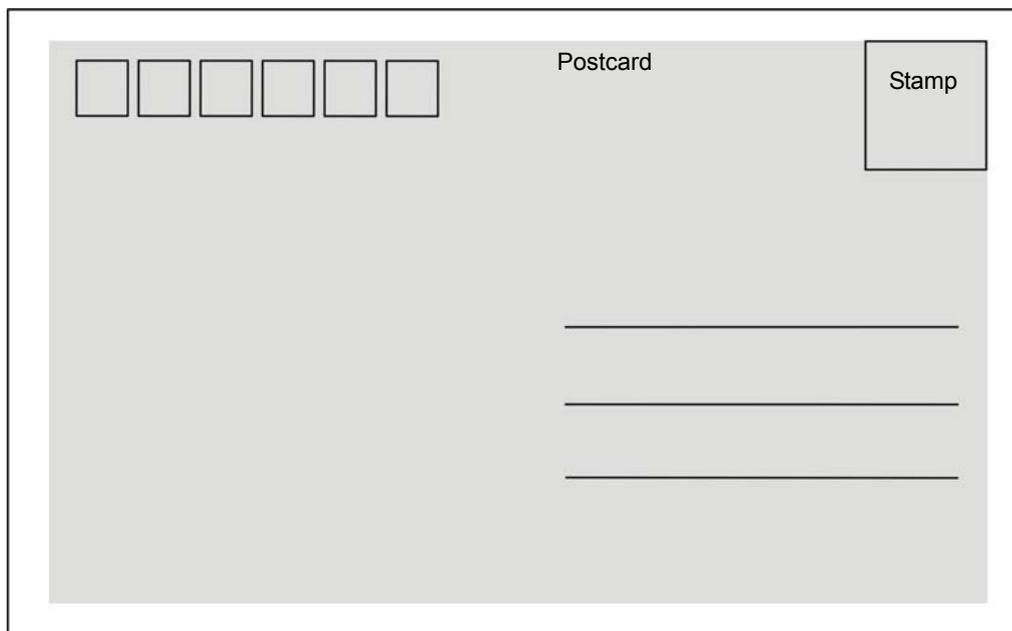
C.1.5 Postcard

The printer supports the postcards whose specifications are shown below.

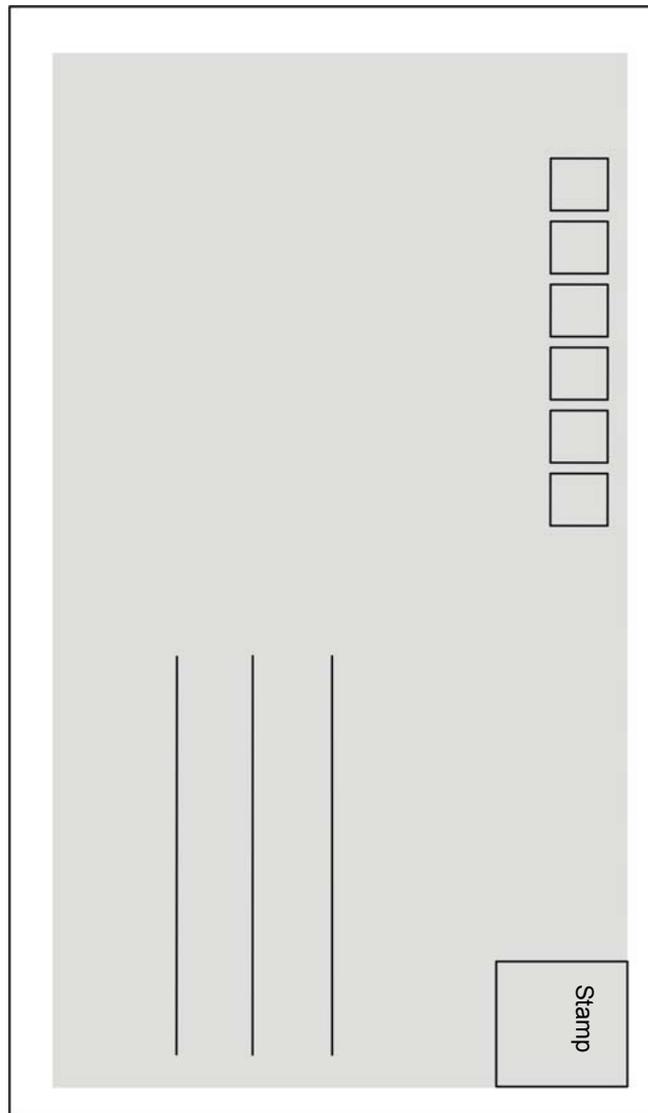
◆ Print size and the printable area

Size	No.	Length (mm)	Width (mm)
	1	165	102
	2	148	100
	3	125	78
Material	Ivory board or Coated paper which is B grade or above		
Weight	200 ~ 250 g/m ²		
Camber	≤2 mm		
Non-guarantee Area	Top	2 mm	
	Bottom	2 mm	
	Left	3.2 mm	
	Right	3.2 mm	

Postcard print direction and printable area (transverse)



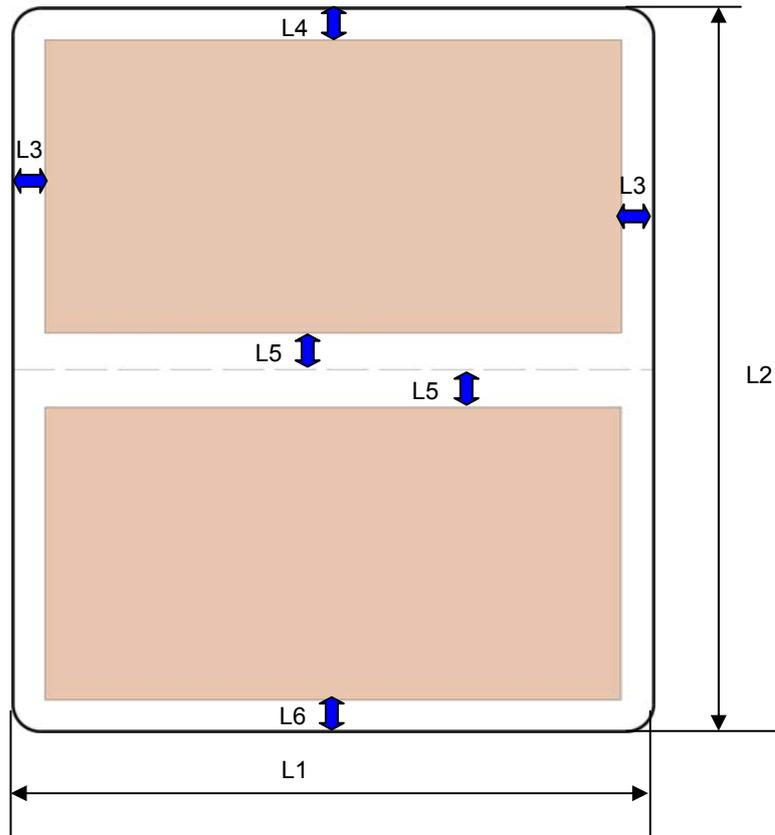
Postcard print direction and printable area (vertical)



C.1.6 Passbook/Certificate

- The cover and inner of passbook should not be creased, twisted or broken.
- The passbook cover should have the same thickness.
- Open the passbook; fold it along the binding line to make it flat before printing.
- The binding line in the back of the passbook should not stick up over 0.5mm, or it may cause printing faint.

Horizontal passbook printable area



Size		Min.	Max.
L1	Passbook width	90 mm	297 mm
L2	Passbook length	75 mm	300 mm
L3	Left and right margins	3 mm	/
L4	Top margin	3 mm	/
L5	Centre binding margin	8 mm	/
L6	Bottom margin	6 mm	/
Paper weight		90 g/m ²	100 g/m ²
Paper thickness	Passbook thickness	/	2.0mm
	Lay open thickness difference	/	0.7 mm
	One page passbook or ledger card	0.18 mm	0.28 mm
	Passbook cover	0.4 mm	0.8 mm

C.1.7 Envelope

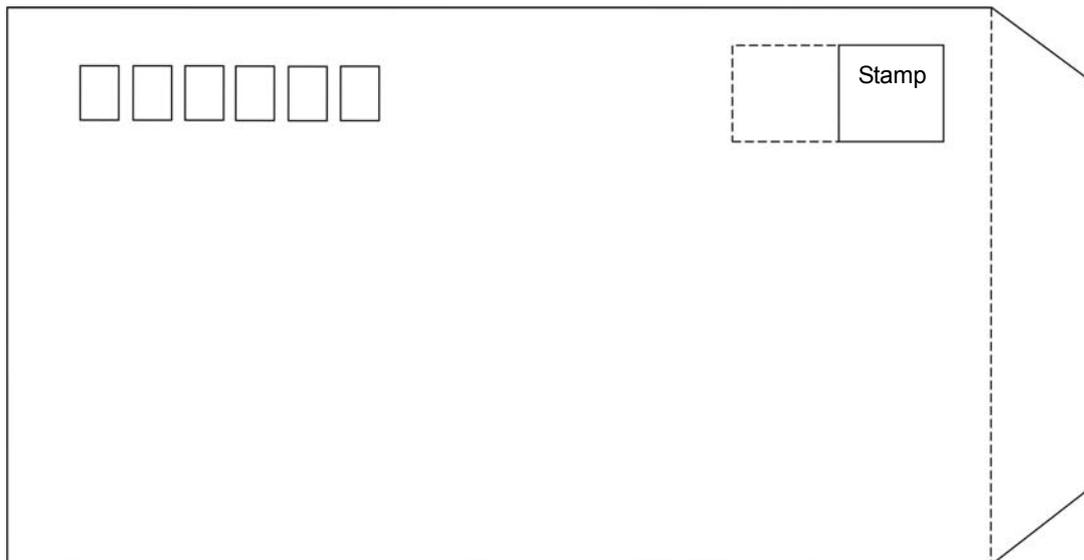
Envelope specification should accord with the following table. In this specification, some envelopes are beyond the support range because of shape, size and so on.

- ◆ Print Size and Printable Area

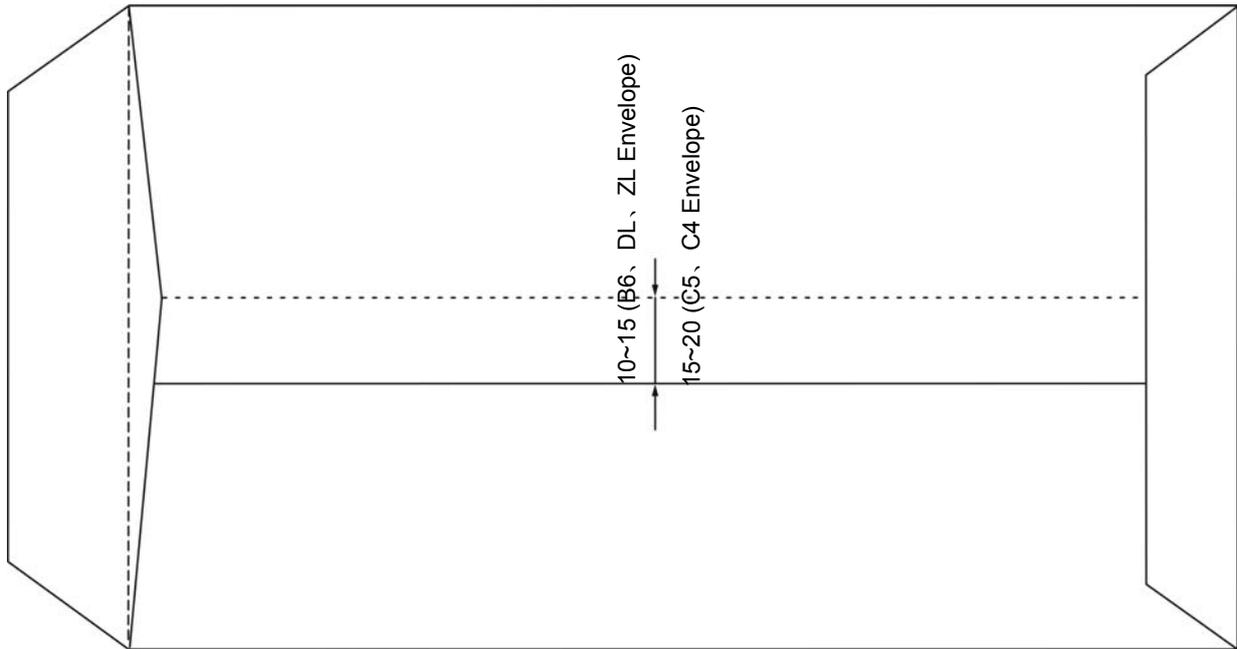
Envelope type	Code name	Length (mm)	Width (mm)	Support
Sample 1 Envelope	B6	176	125	Yes
	DL	220	110	Yes
	ZL	230	120	Yes
	C5	229	162	Yes (Note 1)
	C4	324	229	No
Sample 2 Envelope	C6	162	114	Yes (Note 2)
	DL	220	110	Yes
	C5	229	162	Yes
	C4	324	229	No
Material	Envelope which is Grade B or above			
Weight	80 ~ 120 g/m ²			
Non-guarantee Area	Top		6.25 mm	
	Bottom		6.25 mm	
	Left		6.25 mm	
	Right		12 mm (Note 3)	
	From pulp position		5 mm	

- Note: 1. Envelope should not with solid edge (the folding part in both sides and the bottom).**
- 2. Sample 2 Envelope need to be printed vertically.**
- 3. Right margin doesn't include seal lip, and the distance from printing content to the bottom sunken line is not less than 5mm.**

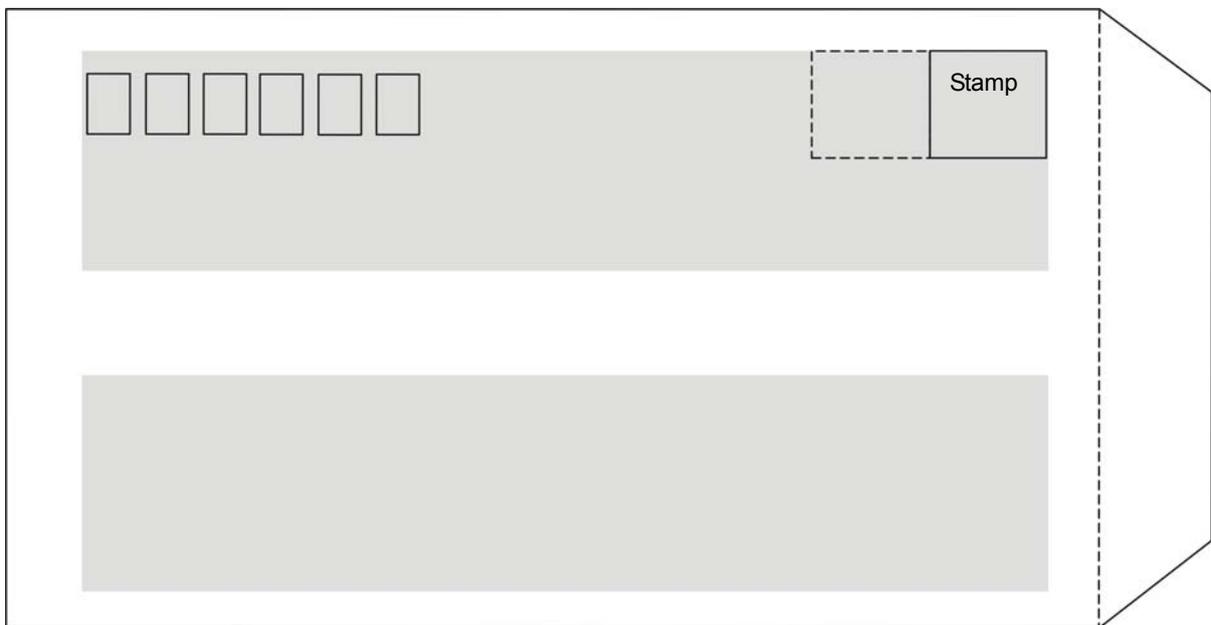
Sample 1 Envelope (Front view)



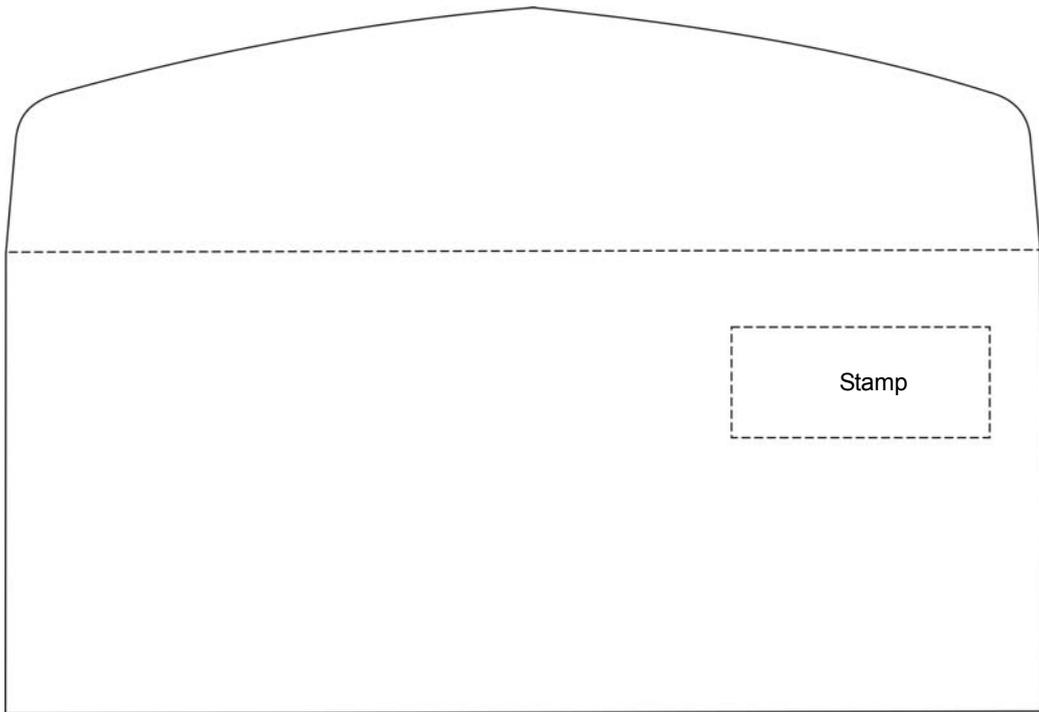
Sample 1 Envelope (Rear view)



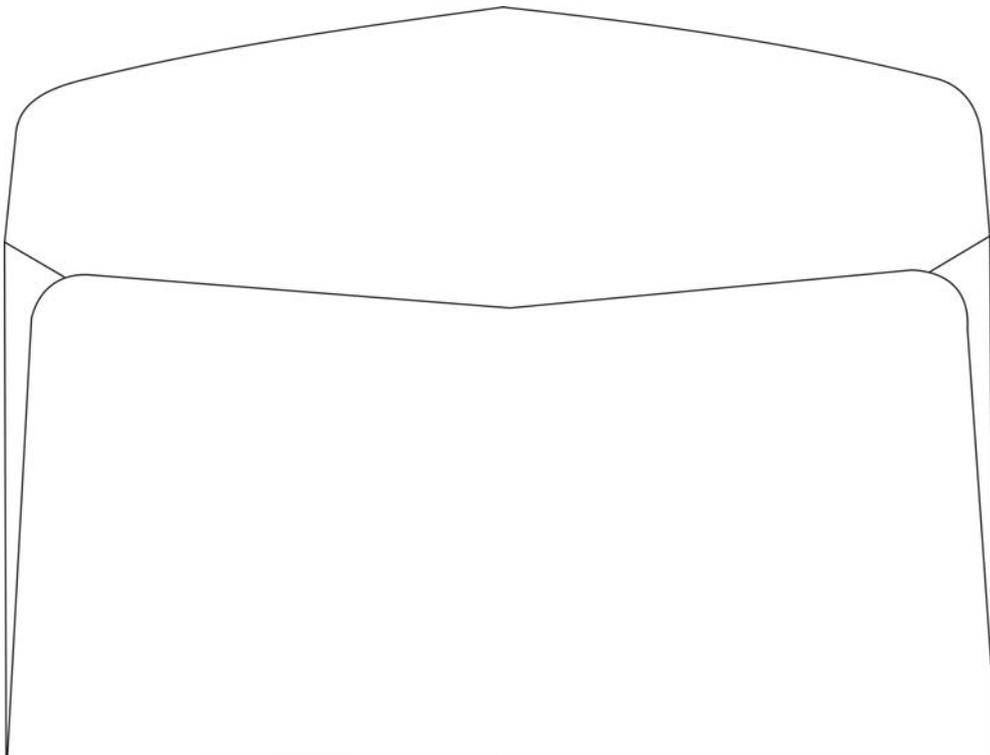
Sample 1 Envelope print direction and printable area



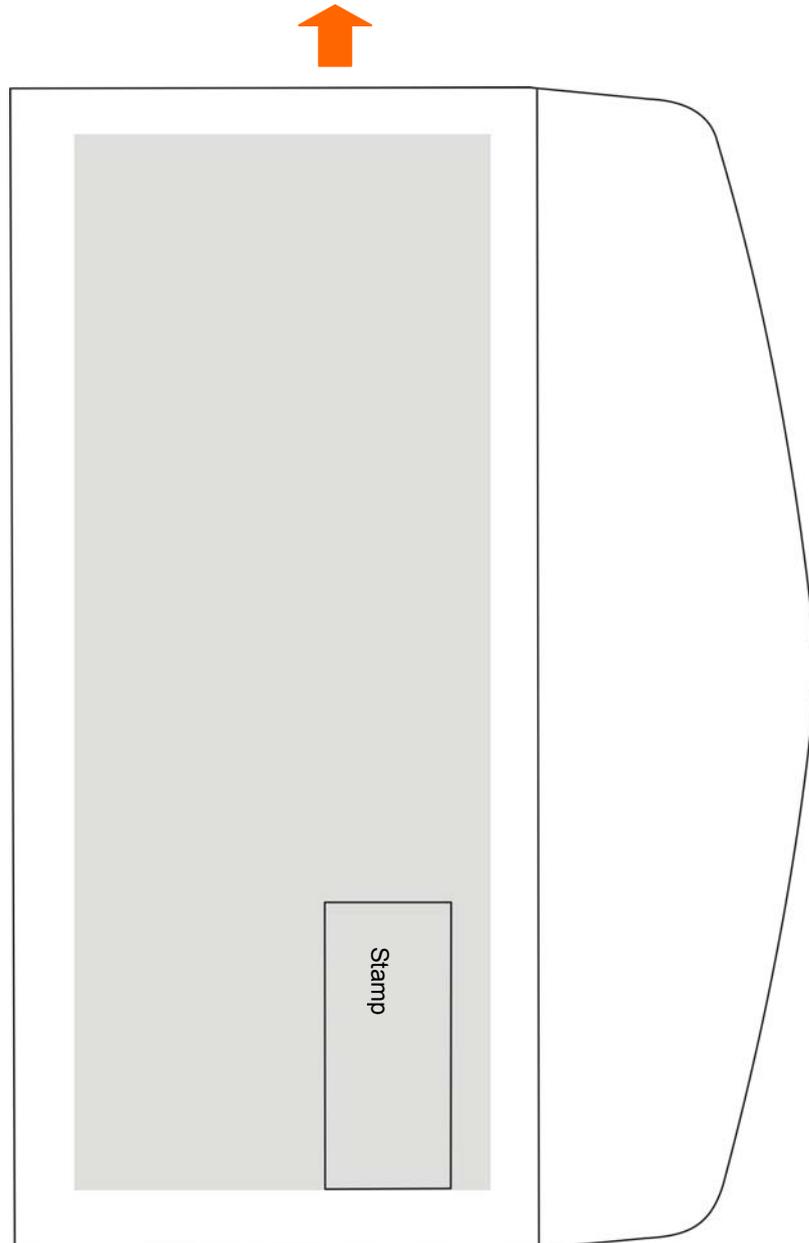
Sample 2 Envelope (Front view)



Sample 2 Envelope (Rear view)



Sample 2 Envelope print direction and printable area



Note: • Envelope refers to single layer envelope. Printer doesn't support double layer envelope and the envelope should not be with solid edge.

- When the envelope pulp at the top or bottom, please don't print at that area with 5mm.
- The sunken place in the bottom of the envelope belongs to the non-printable area. Please ensure the distance from the bottom sunken line to the printing area is not less than 5mm.
- Do not use following envelopes:
 - Envelopes which is with contents in it.
 - Envelopes with holes and which both sides are coherent in the middle.
 - Envelopes which seal lip parts are folded.
 - Envelopes which seal lip parts are pulped.
- If you print near the pulped area, even though it belongs to the printable area, it may also cause paper dirt because of the pulp (especially when the edge is folded or stuck up).

C.1.8 Delivery Note

Delivery notes here refers to the multi-ply papers (2-ply ~ 7-ply). Its paper size and printable area base on the specifications of continuous paper and cut sheet. Moreover, the copy capability and printing precision are not guaranteed because they are affected by paper thickness and inner paper quality (such as, thickness). In addition, do not use the paper which is not even to avoid paper dirt or printing slant.

C.1.9 Passbook

This printer supports passbook printing.

C.1.10 Label

It does not guarantee the printing of labels.

**Note: 1. Label is not include in the guarantee list, please don't use it.
2. Problem occurs when using labels, we will not guarantee the device and performance.**

C.1.11 Recycled Paper

In order to save resource, improve the using rate of resource, we recommend using the recycled paper. The specification of recycled paper should satisfy the using standard requirement.

Jolimark