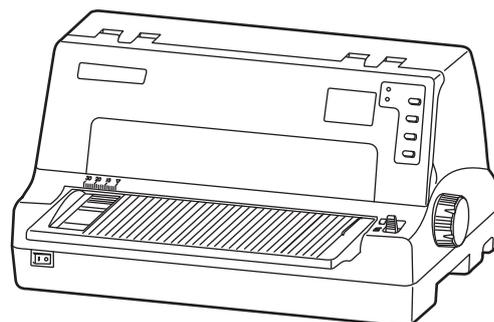




User's Manual

DP550

Dot Matrix Printer



Important Safety Instructions

1. Read all of these instructions carefully and thoroughly and save them for later reference.
2. Follow all warnings and instructions in the manual as well as marked on the product.
3. If the printer has been used just now, please not touch the print head for overheating.
4. Do not put your fingers under the tractor cover of the left and right tractors when installing the tractor paper.
5. Unplug this product from the power outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
6. Do not use this product near water.
7. Do not place this product on an unstable cart, stand or table. The product may fall, causing serious damage to you or the product.
8. Slots and openings on the cabinet and the back or bottom are provided for air ventilation. To ensure reliable operation of the product and to protect it from overheating, do not block or cover these openings. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should never be placed near or over a radiator or heater. This product should not be placed in a built-in installation or kiosk stand unless proper ventilation is provided.
9. This product should never be placed near or over a radiator or heat origin, and should avoid of direct sunshine.
10. Do not locate this product where the cord will be walked 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 damage.
11. Do not use in locations subject to high humidity or dust levels. Excessive humidity and dust may cause equipment damage or fire.
12. Never push objects of any kind into this product though cabinet slots as they may touch dangerous voltage dots or short out parts.
13. Don't remove the printer's out-cover and repair the printer. When needed, call or take it to the professional.
14. To ensure safety, please unplug this product prior to leaving it unused for an extended period. The wall outlet you plan to connect to should be nearby and unobstructed.
15. 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. Adjust only those controls that are covered by the operating instructions since importer adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - E. If the product has been dropped or the cabinet has been damaged.
 - F. If the product exhibits a distinct change in performance, indicating a need for service.

Note: The contents of this manual may be changed without prior notice.

*** All 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 Overview

1.1 Features

Thank you for purchasing this Jolimark printer.

This versatile, 24-pin, flatbed High-speed Bill printer is ideal for a wide range of bill printing requirements, includes national standards GB18030 big capacity Chinese character set, elaborated design in speed, copy capability and paper thickness applicability. Especially for value-added tax invoice, common invoice, various service trades invoice, narrow card printing and continuously bill printing.

Flatbed Paper-feed Mechanism

Flatbed paper-feed mechanism can avoid crease caused by tractor rolling. So that some document papers, such as multi-ply invoice, envelope, postcard and label and so on, can smoothly in and out without jam.

Automatic paper Load/Eject Function

Cut sheet may be fed from the front of the printer automatically. Finish printing, the paper may be automatically fed back to the front of the printer. Tractor paper is installed on the tractor. Press **LOAD/EJECT** key, paper may be fed to print position automatically. Finish printing, the paper may be fed to the front of the printer in order to tear conveniently.

Zero tear-off Function

This causes tractor paper to be automatically fed to the tear-off position at the edge of the window cover, for easy tear-off at the perforations after printing. This zero tear-off capability helps eliminate paper wastage.

Paper Eject Function

This function allows users pressing the facility function button on the control panel to eject the cut sheet or tractor paper from the printer.

High Resolution Graphics

A maximum resolution of 360 × 360 DPI enables the printer to produce fine, sharp graphics.

Emulation

The printer supports the OKI 5530SC and Epson ESC/P-K2 emulation as standard.

Large Capacity Data Buffer Area

132KB large capacity data buffer area can minimize the employing time of your computer, it allows your computer to release the printing buffer area to other work.

Contain Letter Character Font

This printer contains variously fonts of Roman, Sans Serif, Courier, Prestige, Script, OCR- A, OCR- B, Orator and so on which making printed document prettier.

Bar Code Function

The printer contains the following standard bar codes: EAN-13, EAN-8, Interleaved 2 of 5, Matrix 2 of 5, Industrial 2 of 5, Code 39, Code 128 B, Code 128 C, and NW 7.

User-Friendly Control Panel

Current print status and access to all printer functions is available via simple commands from the control panel. In addition, the control panel is used to access the menu system (Setup Menu System) with complete control over the printer's set-up functions.

Automatic Interface Switching

The DP550 includes a USB interface, a parallel interface, an Ethernet interface or a serial interface (According to the specific interface standards). The printer automatically detects the type of data transfer received from the host computer and switches to the respective interface type.

Compressing Printing

You can set compress print proportion through modifying the Menu System Setting of the printer. (Caution: High Speed mode and Super High Speed mode is invalidated while the printer in Compress printing mode.) In addition, you can set the compress printing through driver. (Only set the compress printing through driver can High Speed printing mode and Super High Speed printing mode are valid.) The compress proportion of these two setting methods is compress relationship.

Automatic Paper Edge Detection (Optional)

The printer can detect the edge of the paper which ensures the printing contents are all within the printable area.

Automatic Paper Skew Detection (Optional)

The printer can detect the lean of the paper. If it is over the set lean, the printer will eject the paper automatically so that you can ensure the printing quality.

Contain Break Pin Compensation Function

User can set the printer to print using the pin which is in good condition to compensate the break pin.

Pin Switch Printing Mode

User can set pins to switch while printing form transverse line in order to improve print head life.

Chapter 2 Preparation

2.1 Unpacking & Checking

Check the following items in the packing box, if any of these items are missing, please contact your dealer.

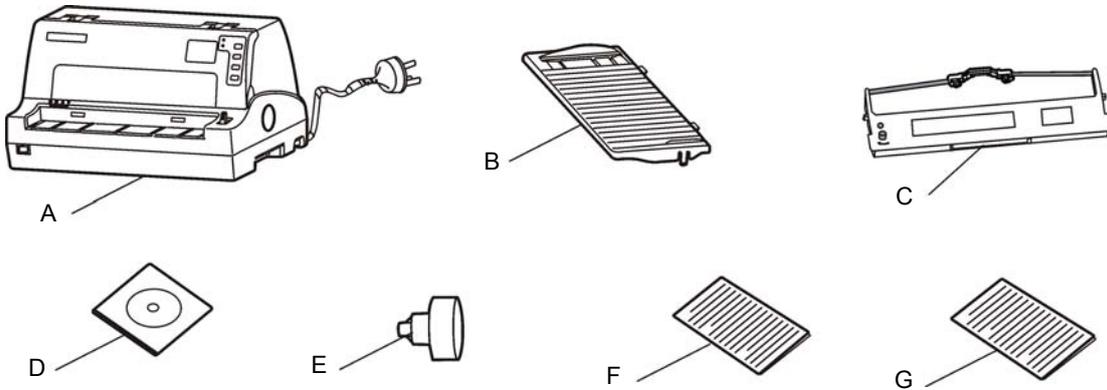


Figure 2-1 Items in the packing box

- A: Printer
- B: Front table
- C: Ribbon cartridge (JMR118)
- D: Driver CD (Including *user's manual* and driver)
- E: Paper feed knob
- F: Packing list
- G: Facility user's guide

Caution: The fittings please refer to the packing list. The packing style above is subject to change without notice.

2.2 Removing Protective Materials

1. Open the packing box, take out the printer, and then tear off the sealing tapes on both sides of the window.
2. Save all the original packing materials, so that it can be used when transporting the printer.

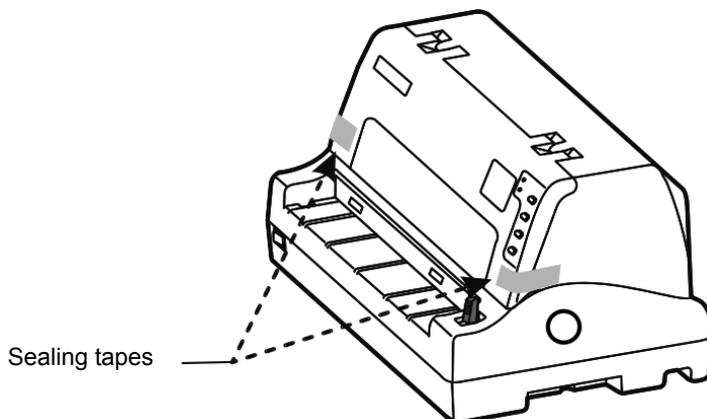


Figure 2-2 Removing the sealing tapes

2.3 Parts Identification

Figures 2-3 and 2-4 highlight the main parts of the printer.

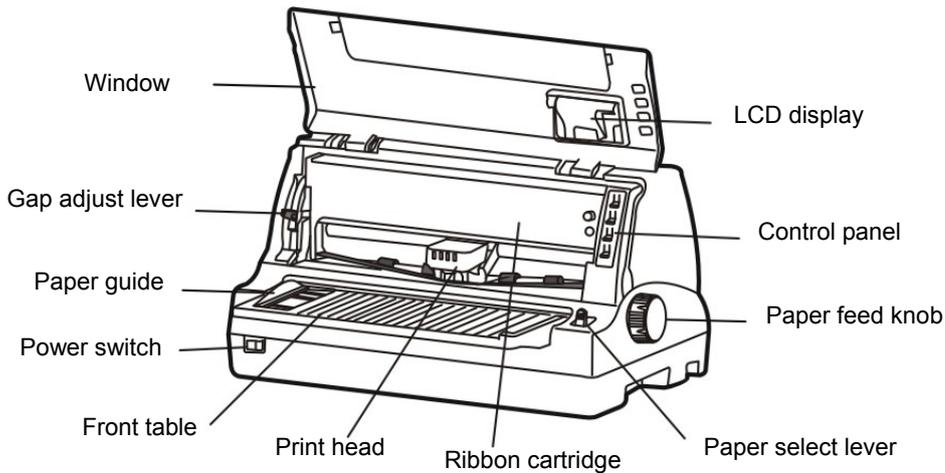


Figure 2-3 Main parts of printer (front view)

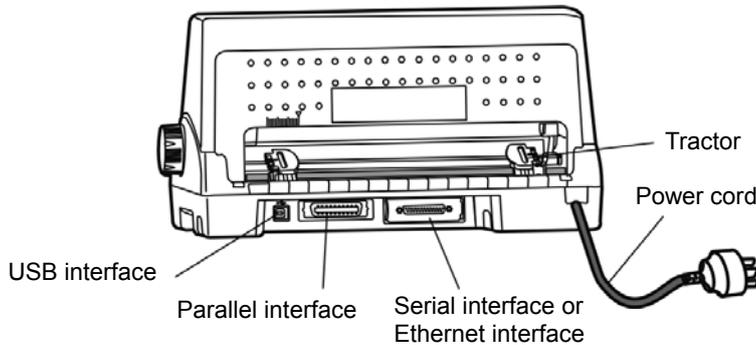


Figure 2-4 Main parts of printer (rear view)

★ According to specific interface standards

2.4 Installing the Printer

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

- This printer should be placed on a normal table, printer stand or desk. Be sure that the surface is level, to avoid an uneven load on the carriage as it operates.
- Do not place the printer where belong to the following conditions:
 - The place is overheating or humidity.
 - The place is shaking.
- Do not install the printer where it may be subjected to unsuitable conditions such as:
 - Where it is excessive dust.
 - Where it may be splattered with oil or metallic dust.
 - Where it may be exposed to direct sunlight.
 - Where it may be accidentally splashed with water.

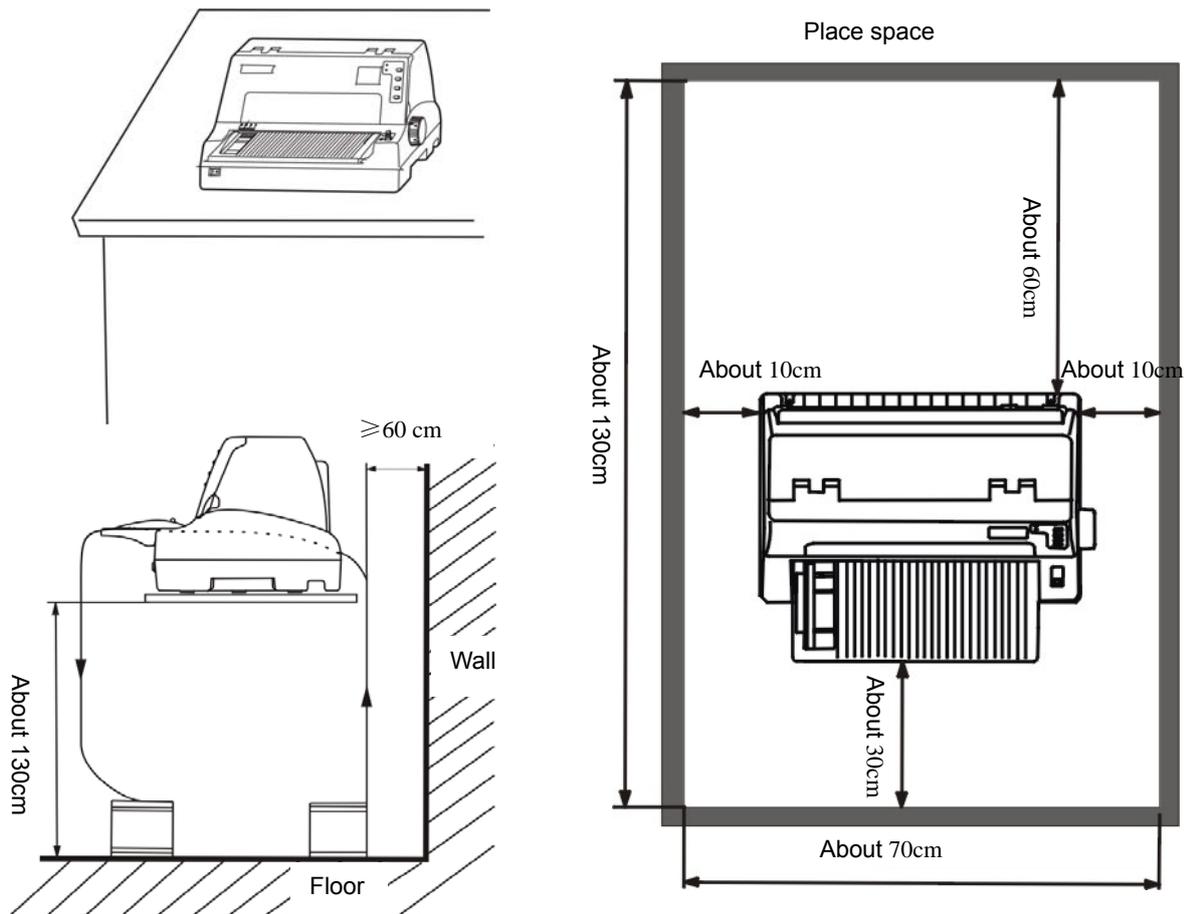


Figure 2-5 Placement of printer

2.5 Installing and Dismantling the Front Table

2.5.1 Install the Front Table

As the follow figure, insert the front table in the slot of the printer's foreside, and then put it horizontal to lock it.

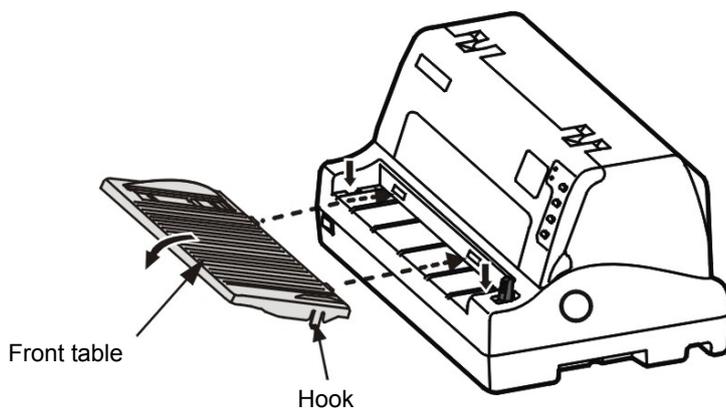


Figure 2-6 Installing the front table

2.5.2 Dismantle the Front Table

Hold both sides of the front table, and pull up the front table to disengage hooks from slots.

2.6 Installing the Paper Feed Knob

The openings of the Paper feed knob aim at the long pin, then insert. (As figure 2-7 shown)

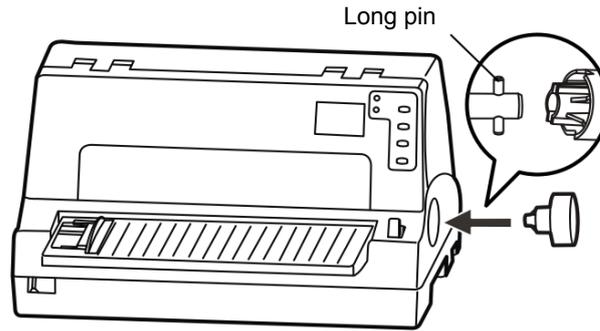


Figure 2-7 Installing the paper feed knob

2.7 Installing the Ribbon Cartridge

1. Make sure the printer is turned off.
2. Hold the concaves of the window to open the window. (As figure 2-8 shown)

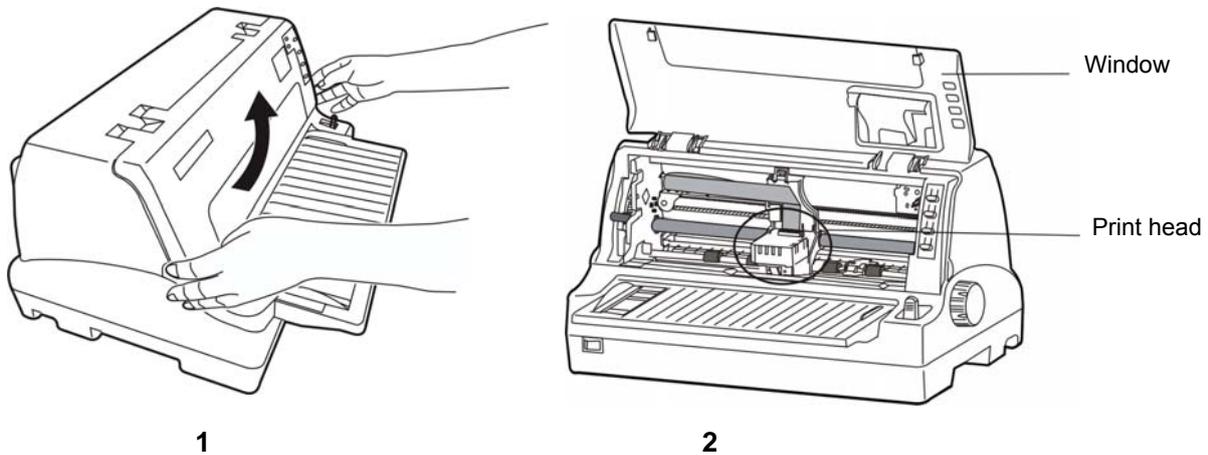


Figure 2-8 Opening the window

3. Pull the gap adjust lever to the highest position.
4. Slide the print head to the middle of the printer. (As figure 2-8 <2>shown)

Note: Never remove the print head when printer is on, or else the printer may get damaged. Besides, do not touch the print head at the time finishes using the printer for overheating.

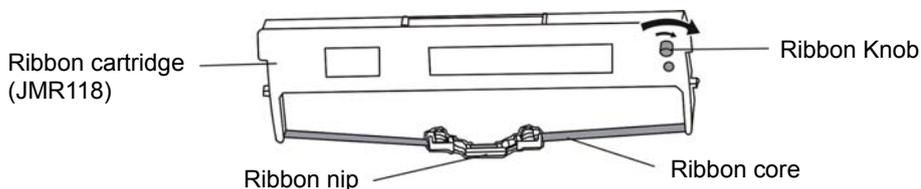


Figure 2-9 Ribbon cartridge

5. Turn the ribbon knob in the direction of the arrow to remove any slack from the ribbon so it is easier to install. (As figure 2-9 shown)
6. As figure 2-10 shown. Hold both sides of the ribbon cartridge, then press it down firmly to fit the hooks into the install grooves of the printer. Then aim the two round holes of the ribbon nip at the two guide poles of the carriage frame.

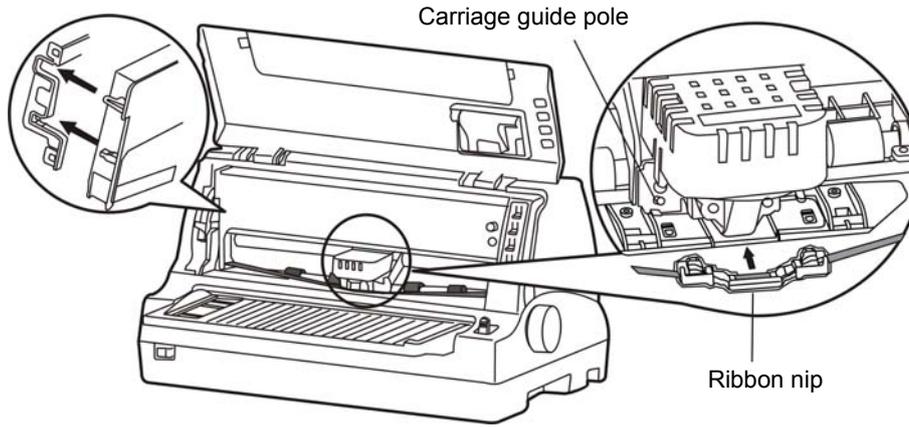


Figure 2-10 Installing the ribbon cartridge

7. Turn the ribbon knob in the direction of the arrow to remove any slack from the ribbon again, ensure that there is no crease in the ribbon core. (As figure 2-10 shown)
8. Slide the print head from side to side to make sure it moves smoothly.
9. Pull the gap adjust lever back to the original position and close the window.

Note: 1. When your print becomes faint, you need to replace the ribbon cartridge. Otherwise, the print quality will be affected and the print head may be damaged.

2. To remove the old ribbon cartridge, first make sure the power is turned off, move the print head to the center of the printer. Then hold the ribbon cartridge handles on both sides and lift it out of the printer forwards. Install a new one as the above steps.

3. Please use the Jolimark JMR118 ribbon cartridge, otherwise, our company will not guarantee to keep the printer in good repair when it is damaged by unauthorized ribbon cartridge.

2.8 Connecting to Your Computer

Your printer can be configured with a parallel interface, a USB interface, a serial interface or an Ethernet interface. (According to specific interface standards) Connect your computer to the printer with respective interface cable. (As figure 2-11, 2-12, 2-13 and 2-14 shown)

Note: Before connecting the parallel interface or the serial interface, please make sure the power of the printer is turned off. Must after tighten the cable you may turn on the power, or it will damage the printer.

2.8.1 Connecting to the USB Interface

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

Note: Don't impact the plug after connecting to the USB cable.

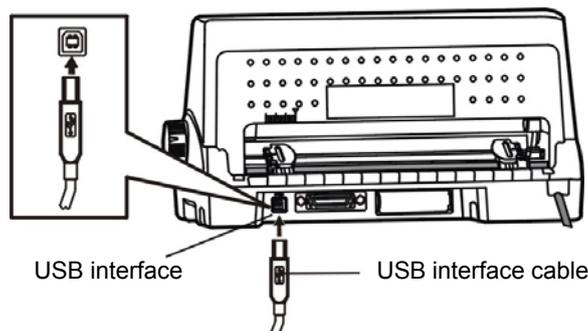


Figure 2-11 Connecting to the USB interface

2.8.2 Connecting to the Parallel Interface

1. Turn off both the computer and the printer. Plug the parallel interface cable connector securely into the printer's parallel interface. Squeeze the wire clips together until they lock in place on both sides of the connector.
2. Plug the other end of the cable into the computer's parallel interface; then tighten the screws on both sides of the connector.

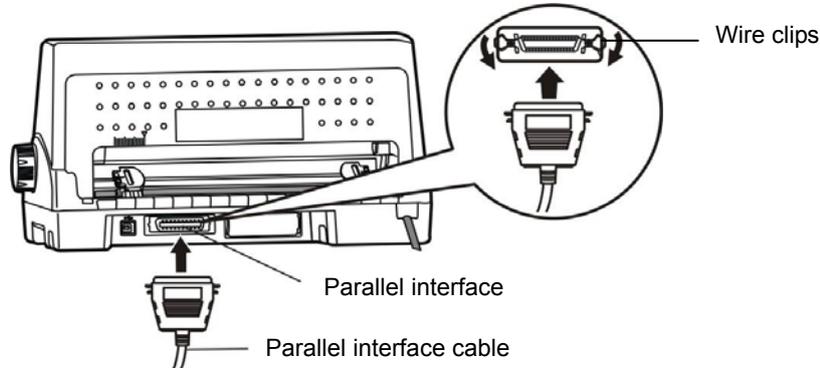


Figure 2-12 Connecting to the parallel interface

2.8.3 Connecting to the Serial Interface

1. Turn off both the computer and the printer. Plug the serial interface cable connector securely into the printer's serial interface. Then tighten the screws on both sides of the connector.
2. Plug the other end of the cable into the computer's serial interface; then tighten the screws on both sides of the connector.

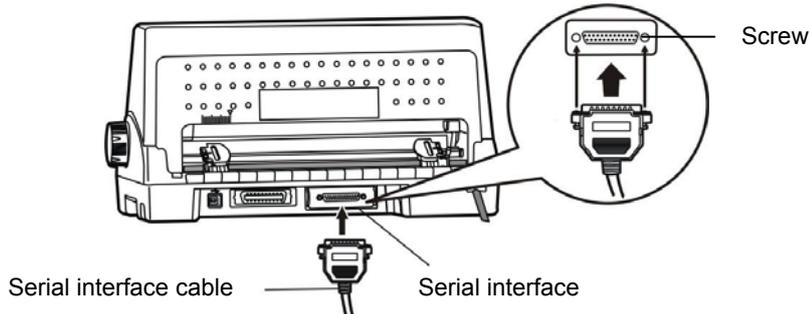


Figure 2-13 Connecting to the serial interface

2.8.4 Connecting to the Ethernet Interface

Plug the RJ-45 crystal plug of the Ethernet interface cable into the printer, and plug the other end into the LAN's entrance. (As figure 2-14 shown)

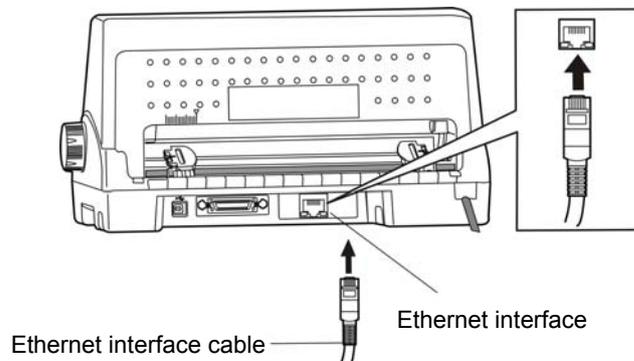


Figure 2-14 Connecting to Ethernet interface

Note: The details of network setting please refer to the *User's Manual*.

2.9 Connecting to the Power Source

1. Make sure the printer is turned off. (The pressed down side of the power switch with "O" marks denotes the printer is off.)
2. Make sure the voltage required by the printer matches that of your electrical outlet.
3. Plug the power cord into a properly grounded electrical outlet.

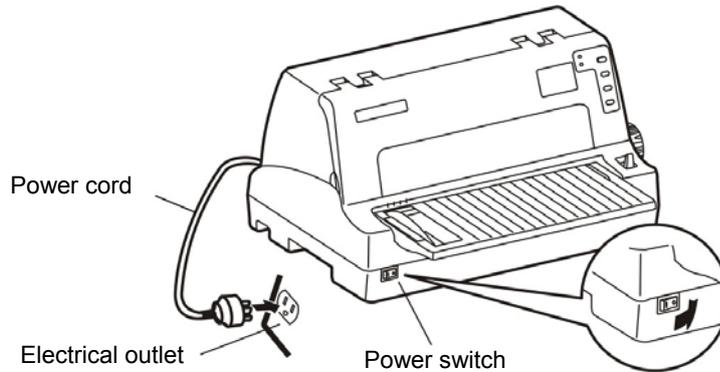


Figure 2-15 Connecting the power cord to the printer

- To turn the printer ON, press the I mark on the power switch.
- To turn the printer OFF, press the O mark on the power switch.

Caution: 1. If the rated voltage and your outlet voltage do not match, contact your dealer for assistance. Do not plug in the power cord.

2. Use the electrical outlet connecting the ground properly.

2.10 Installing Driver

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

Auto-installing way

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

Note: Auto-installing way just work in operating system of Windows2000 or above.

Hand-operated installing way

Note: The hand-operated installing ways of serial interface and parallel interface are the same.

The installing steps with parallel interface for Windows 2000/XP/Vista are as follows:

1. Click "Start" → "Settings", select "Printers".
2. Click "Add Printer", then it will pop up a window of "Add Printer Wizard", click "Next", then please read the select direct carefully, such as, select "Local printer" in the "Local or Network Printer" window, then click "next".
3. A window of "Select the Printer Port" pops up, select a usable port. Such as, select "LPT1: printer port", click "Next".
4. A window of "Manufacturers/Printers" pops up, click "Have Disk...", click "Next".
5. A window of "Install From Disk" pops up. Please according to the operating system environment, you should select the path as follow: CD-ROM → "Driver" → "WIN2000 (XP-Vista-Win7)", that you can find a file named: DP550.inf, click "Open", then click "OK", click "Next".
6. Follow the direct click "Next" gradually till the installation is finished.

The installing steps with parallel interface for Windows 7 are as follows:

1. Click "Start" → "Devices and Printers".
2. Click "Add a printer", then it will pop up a window of "Add Printer", click "Add a local printer", and then click "Next".
3. A window of "Choose a printer port" pops up, select "Use an existing port". Such as, select "LPT1: Printer Port", click "Next".
4. A window of "Manufacturers/Printers" pops up, click "Have Disk...", click "Next".
5. A window of "Install From Disk" pops up. Please according to the operating system environment, you should select the path as follow: CD-ROM→"Driver"→"WIN2000 (XP-Vista-Win7)", where you can find a file named: DP550.inf, click "Open", then click "OK" to return to the window of "Manufacturers/Printers", click "Next".
6. Follow the direct click "Next" gradually till the installation is finished.

The installing steps with USB interface for Windows 2000/XP/Vista/Win7 are as follows:

The following steps are used operating system of Windows XP as example. There are slight differences among different operating systems.

1. Use a USB interface cable to connect the printer with the computer, and then turn on the printer.
2. After the computer finds out new hardware and finishes searching, a window of "Add New Hardware Wizard" will pop up, click "Next".
3. A window of "Add New Hardware Wizard" –"Windows operation" pops up, choose "Not Search, I want to Choose the Setup Driver (D)", click "Next".
4. A window of "Manufacturers/Printers" pops up, click "Have Disk...", click "Next".
5. A window of "Install From Disk" pops up. Please according to the operating system environment, you should select the path as follow: CD-ROM→"Driver"→"WIN2000 (XP-Vista-Win7)", where you can find a file named: DP550.inf, click "Open", then click "OK" to return to the window of "Manufacturers/Printers", click "Next".
6. Follow the direct click "Next" gradually till the installation is finished.

The manual installing steps for Windows 98 are as follows:

(1) The installing steps with a parallel cable:

1. Click "Start" → "Settings" → "Printers".
2. Click "Add Printer", then a window of "Add Printer Wizard" will pop up, click "Next", then please read the select direct carefully, Such as, 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 follow: CD-ROM→"Driver"→"WIN98 (WINME)", where you can find a file named: DP550.inf, click "Open", then click "OK".
4. A window of "Install From Disk" pops up, click "OK", return to a window of "Add Printer", then click "Next".
5. A window of "Printer port" pops up, select "Available ports", Such as, select "LPT1: Printer Port", click "Next", and then show the printer's name. If the system is not installed by 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 an USB cable:

Note: 1. As the system of Windows 98/ME doesn't have integrated 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 as the

following steps.

USB driver installing steps:

1. Connect an USB cable and turn on the printer.
2. After the computer finds out new hardware and finishes searching, a window of "Add New Hardware Wizard" will pop up, click "Next".
3. A window of "Add New Hardware Wizard"—"Windows operation" pops up, choose "Search the best driver for the device (recommended)", click "Next".
4. A window of "Search for new drivers" pops up, check "Specify a location", click "Browse", select the path as follows: CD-ROM → "Driver" → "【WIN98 (WINME) \ USB driver】", then click "OK".
5. Return to a window of "Search for new drivers", 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 "USB print 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. Click "Add Printer", then a window of "Add Printer Wizard" will pop 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 follow: CD-ROM→"Driver"→"WIN98 (WINME)", where you can find a file named: DP550.inf "Open", and then click "OK".
4. A window of "Install From Disk" pops up, click "OK", return to a window of "Add Printer", then click "Next".
5. A window of "Printer port" pops up, select "Available ports", select "JMUSB", click "Next", and then show the printer's name. If the system is not installed by 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 Network Settings

Please use Jolimark network setting software NetFinder to set the IP address for Jolimark printers, which can be found in the CD or downloaded from www.jolimark.com.

Caution: The network printing function needs the operation system of Windows2000 or above.

2.11.1 Connecting Printer

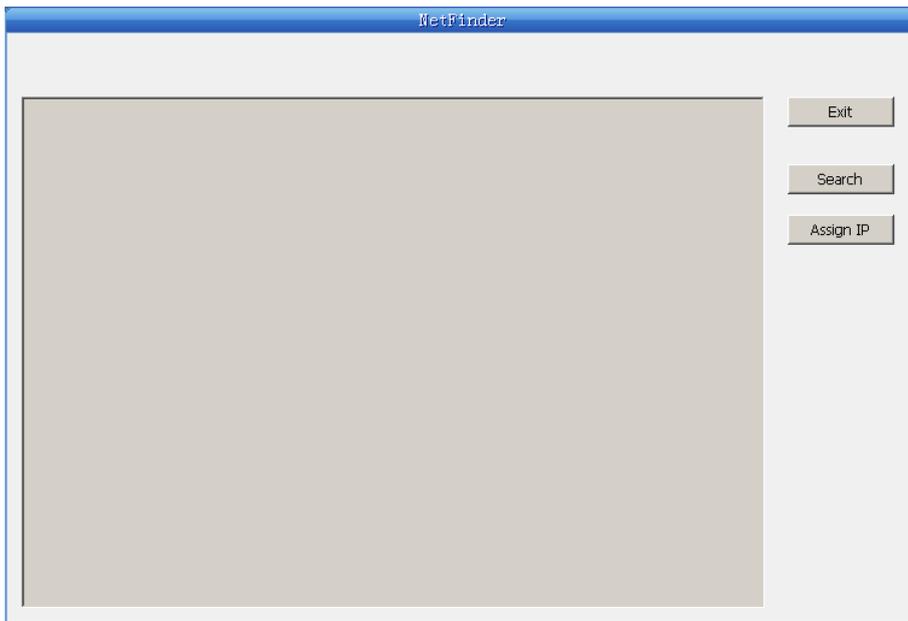
Power on the printer, connect with the Ethernet cable which has been connected to LAN, and look into the information of Ethernet LED indicator to ensure the printer has entered into the normal connection.

Yellow LED	Green LED	Description
ON	Blink	Normal
OFF	OFF	Not connect to network

2.11.2 Setting IP Address

1. Run NetFinder Software

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



Button description:

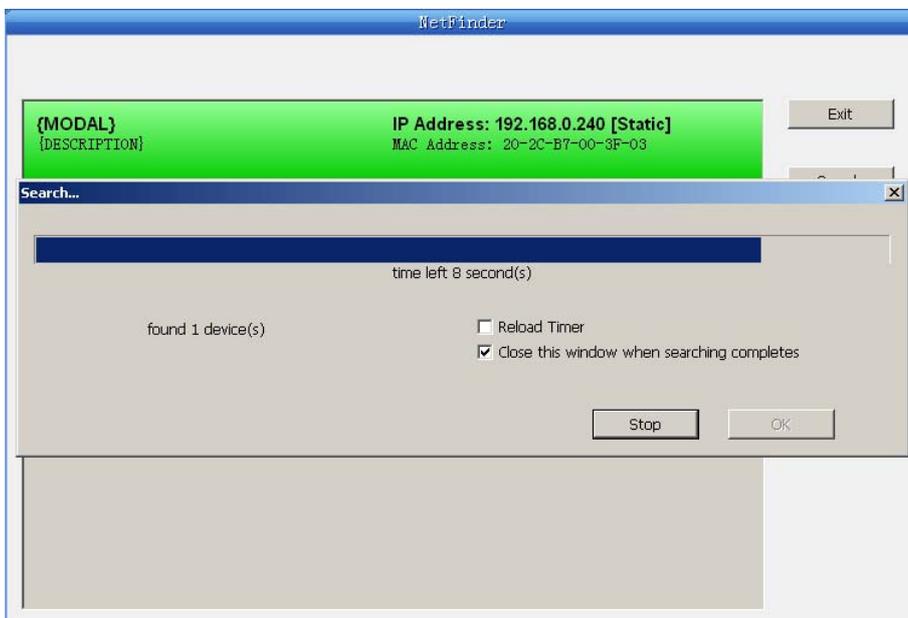
Exit — Exit from the software

Search — Search printers in the same LAN

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

2. Search printer

Click “Search” button in the main interface, the dialog box appearing will begin searching automatically and show appearance, 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. When going on searching, press “search” button again.

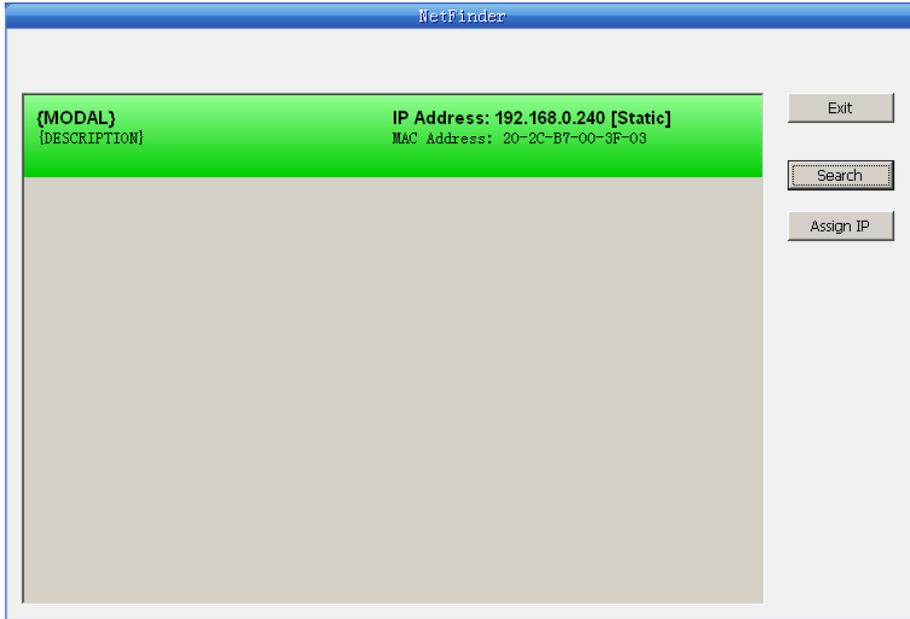


If the printer still can not be found out when the network connection is correct and in the same network, Please check whether the network fire wall on the PC open or not. If there is a fire wall, please close it temporarily. Open it again after finishing searching and setting a printer completely.

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 is the IP and MAC address. What's more, the assign mode (dynamic/static)

is noted behind the IP address.



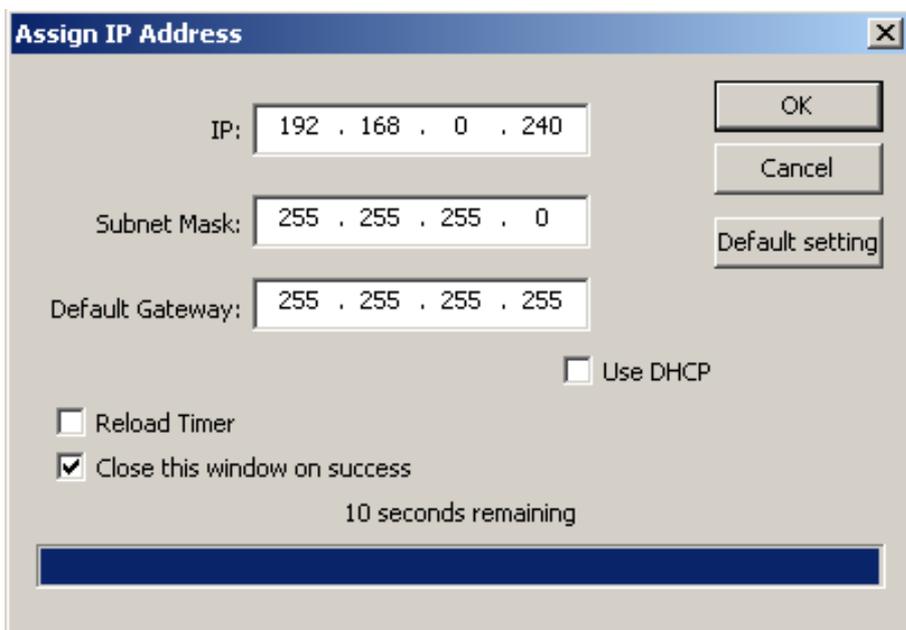
1) Correlative description for IP address settings

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 and printer is set to DHCP mode as well, 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 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 IP in used. 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 need 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. The printer takes response after "Close this window on success" is checked, and then this dialog is closed automatically. Select "Reload Timer" then the software will wait for the printer's response. Generally, printer will take response in a circle time if network connection is correct.

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.

3) Report printer's IP address

Report 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)".

2.11.3 Installing Printer Network Driver

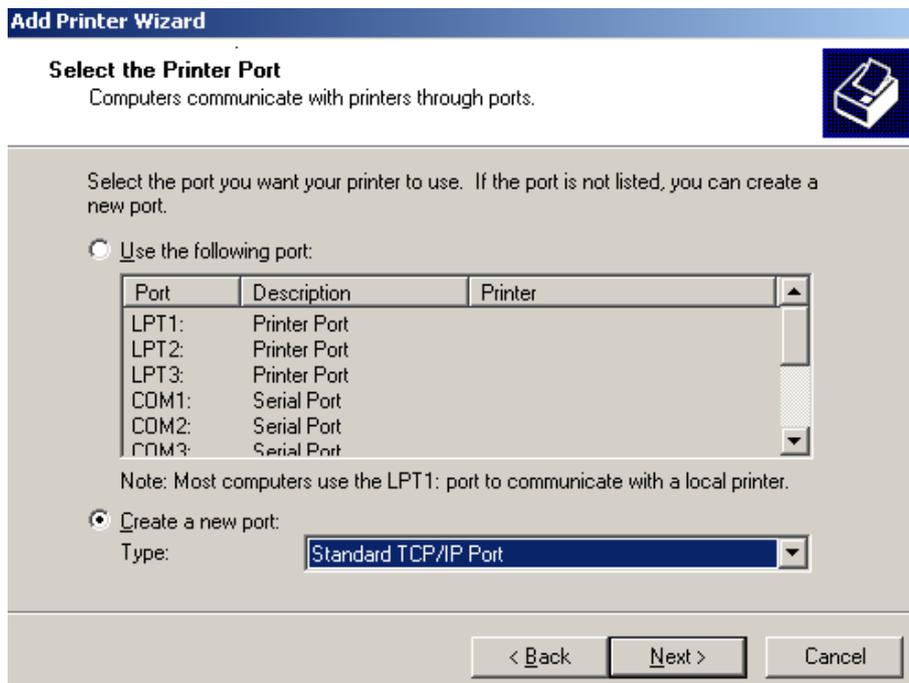
The ways of installing network driver are divided into Newly-install way and Upgrade-install way according to whether the PC installs the printer driver or not.

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".

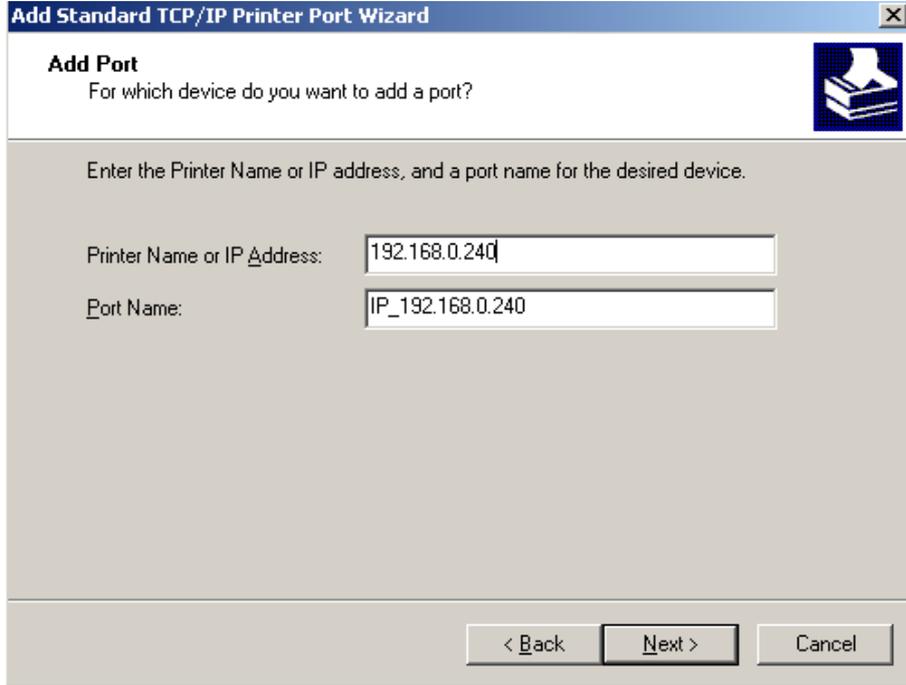
If the printer driver has been installed on the PC, adopt Upgrade-install way whose steps are shown in "Upgrade-install printer network driver".

1. Newly-install printer network driver

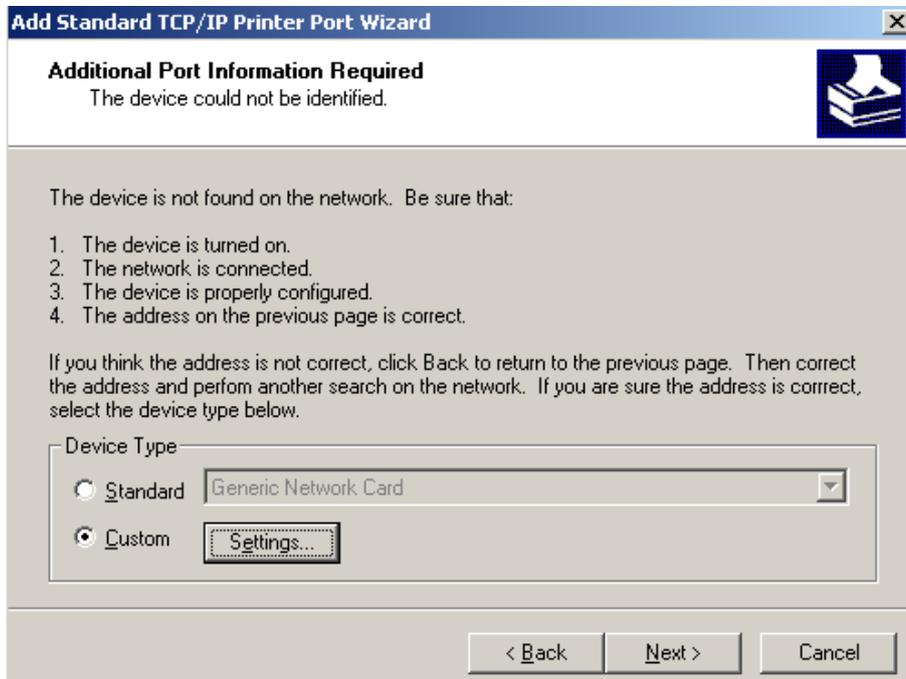
- 1) Click "Start" → "Settings", select "Printers".
- 2) Click "Add printer", then come out a window of "Add Printer Wizard", click "next".
- 3) Come out a window of "Add Printer Wizard", then please read the select direct carefully. Such as, select "Local or Network Printer", then click "next".
- 4) Come out a window of "Select the Printer port", select a port you want your printer to use. For example, select "Create a new port", select "Standard TCP/IP Port" in the port, click "next".



- 5) Come out a window of "Add standard TCP/IP Printer Port Wizard", click "Next".
- 6) Come out a window of "Add Port", 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. "Port Name" is created automatically after finishing filling in IP address.



- 7) Come out a window of "Additional Port Information Required", select "Custom" in the "Device Type", and then click "Settings".



- 8) Come out a window of "Port Settings". Affirm that "Port name" and "Printer name or IP address" are correct, "Protocol" is "RAW" and "Port Number" is "9100", click "OK".

Configure Standard TCP/IP Port Monitor

Port Settings

Port Name: IP_192.168.0.240

Printer Name or IP Address: 192.168.0.240

Protocol

Raw LPR

Raw Settings

Port Number: 9100

LPR Settings

Queue Name:

LPR Byte Counting Enabled

SNMP Status Enabled

Community Name: public

SNMP Device Index: 1

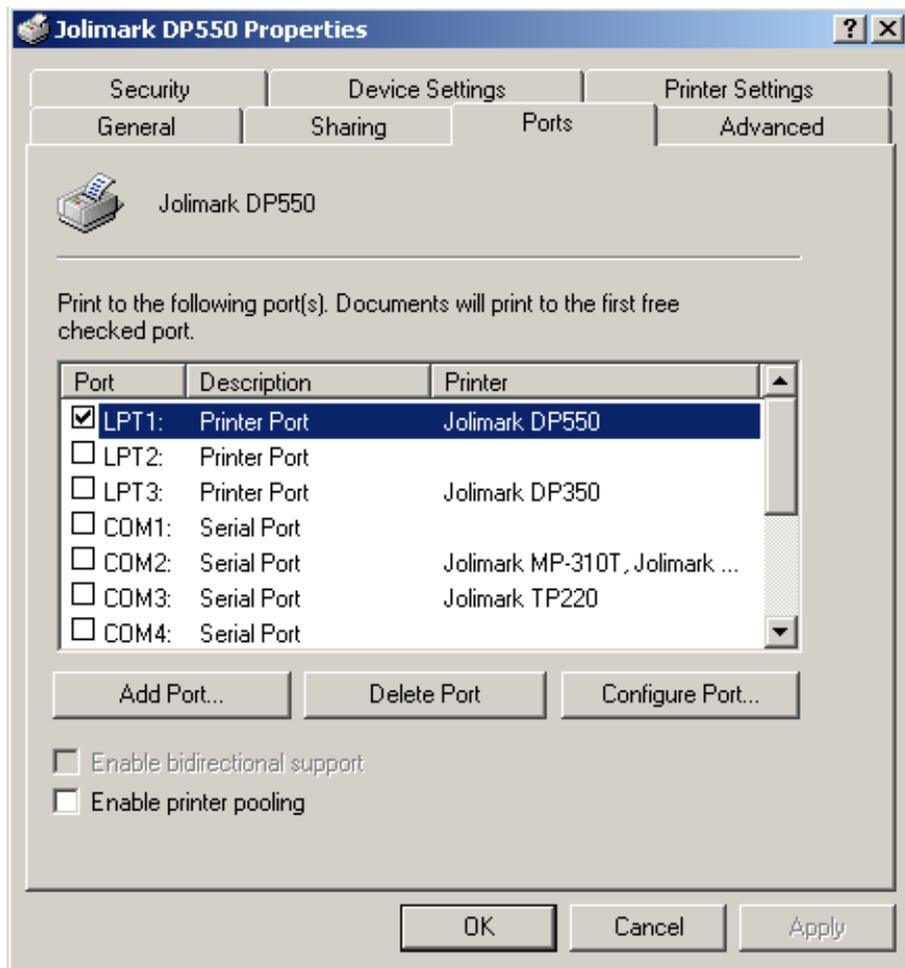
OK Cancel

- 9) Return to "Additional Port Information Required", click "Next".
- 10) Come out a window of "Completing the Add Standard TCP/IP Printer Port Wizard", click "Finish".
- 11) In the selection of "Manufacturers/Printers", click "Have Disk", and then click "Next".
- 12) Come out a window of "Install From Disk". Please according to the operating system environment, such as Windows XP operating system you should select the path as follows: CD-ROM-"Driver"-WIN2000(XP-Vista-Win7)", that you can find a file named: DP550.inf, click "open", then click "OK", then return to the window "install printer software", click "next".
- 13) Follow the direct click "next" gradually till the installation is finish. At this time, printer network driver is installed completely.

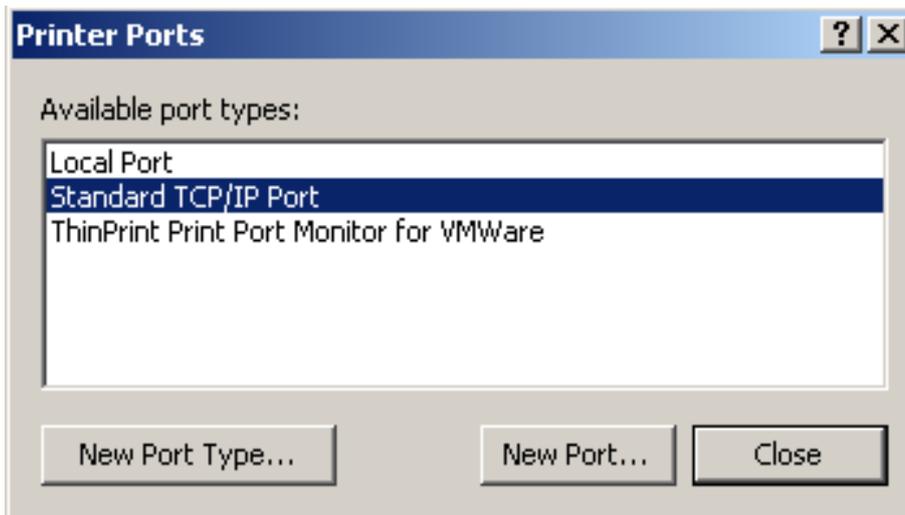
2. Upgrade-install printer network driver (setting driver's network port)

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 DP550 driver, click "Properties" on the window coming out.
- 3) Come out a window of "Properties", click "Ports" and "Add Ports".

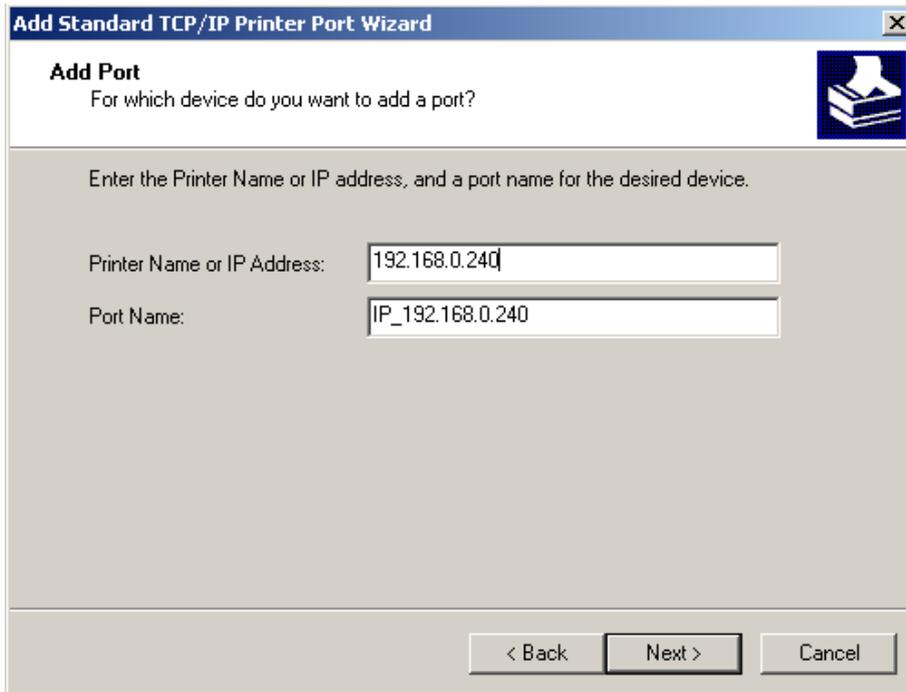


4) Come out a window of “Printer port”, select “Standard TCP/IP Port”, click “New port”.

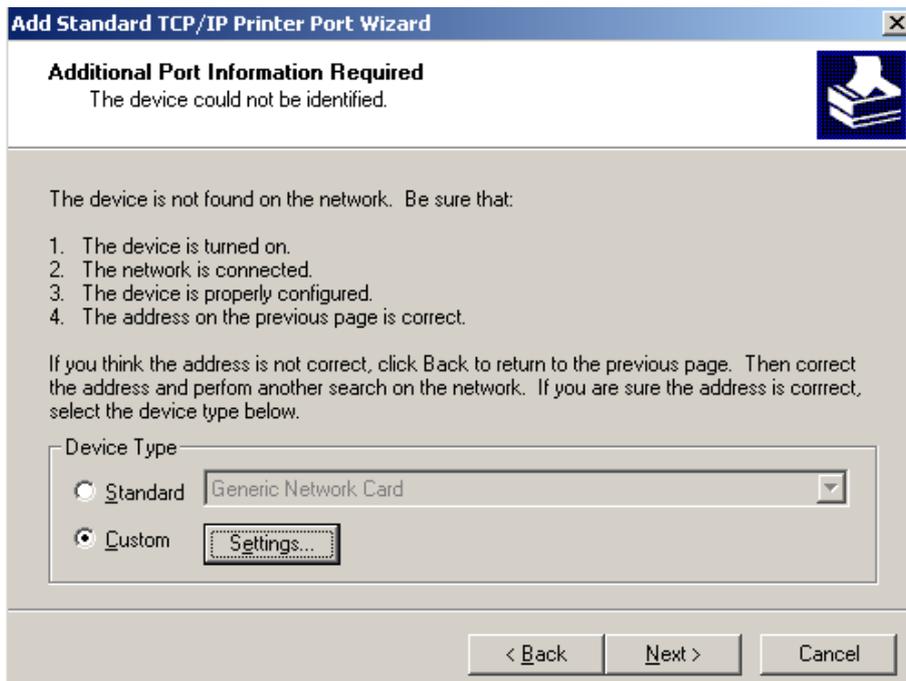


5) Come out a window of “Add Standard TCP/IP Printer Port Wizard”, click “Next”.

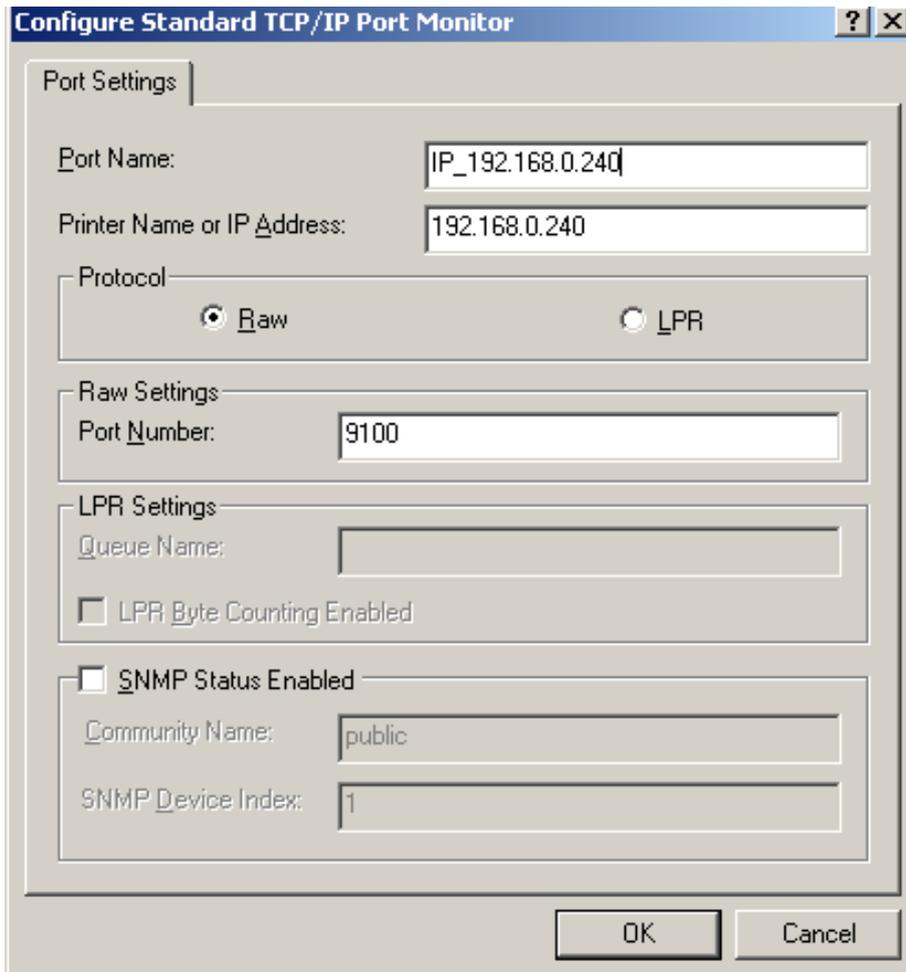
6) Come out a window of “Add a port”, import the IP address reported by the “Setting printer’s IP address” in the “Printer name or IP address” column. Take IP address “192.168.0.240” for example. “Port name” is created automatically after finishing filling in IP address. Click “Next”.



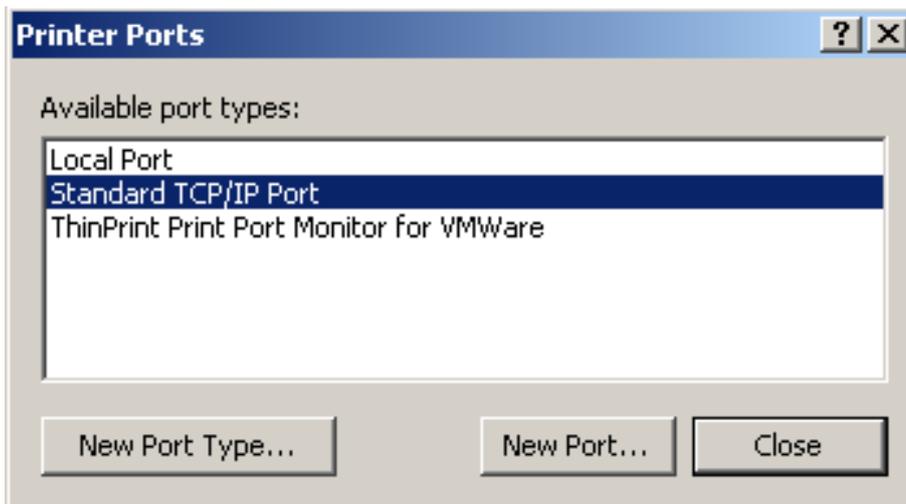
- 7) Come out a window of “Additional Port Information Required”, select “Custom” in the “Device Type”, then click “settings”.



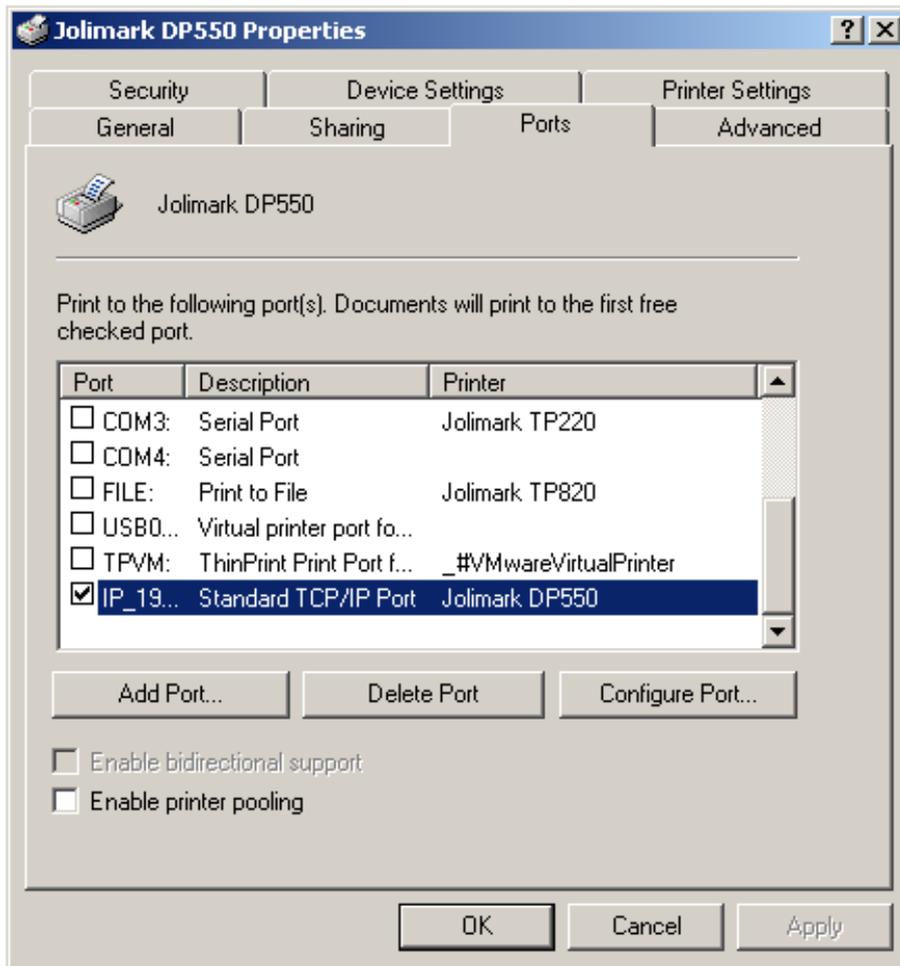
- 8) Come out a window of “Port Settings”. Affirm that “Port name” and “Printer name or IP address” are correct, “Protocol” is “RAW” and “Port Number” is “9100”, click “OK”.



- 9) Return to “Additional Port Information Required”, click “Next”.
- 10) Come out a window of “Completing the Add Standard TCP/IP Printer Port Wizard”, 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 Loading Paper

3.1 Adjust the Position of the Gap Adjust Lever

■ Adjust the paper-thickness

Regardless fixing cut sheet or tractor paper should adjust the gap adjust lever which on the left of the printer first. The gap adjust lever can heighten or lower the carriage to adapt the paper thickness.

To be sure have good printing quality and prevent the paper jam happening, you need to pull the lever to the respective position according to the paper thickness. (As figure 3-1shown)

Table 3-1paper thickness setting table

Position	Paper type	
-1~0	Preserve	
1	Single paper	
	2~3	Fanfold paper
2	4~5	
3	6~7	
1~6	Card / Envelope	

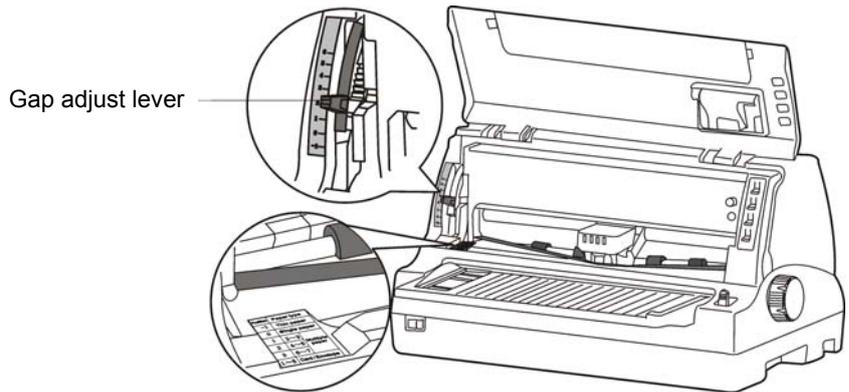


Figure 3-1 Adjust the gap adjust lever

3.2 Using Cut Sheet

■ Set the cut sheet mode

Turn the Paper select lever to the cut sheet position as shown in Figure 3-2.

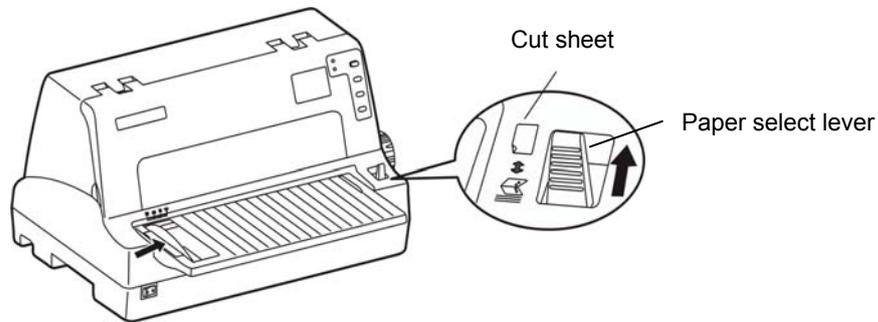


Figure 3-2 Adjust the Paper select lever

Note: When changing the type of the paper, please push the paper select lever to the end to insure the paper select lever in the cut sheet mode.

■ Installing cut sheet

- Turn on the printer.
- Insure the paper select lever in the cut sheet mode.
- Set the position of the paper based on the scale of the front table.

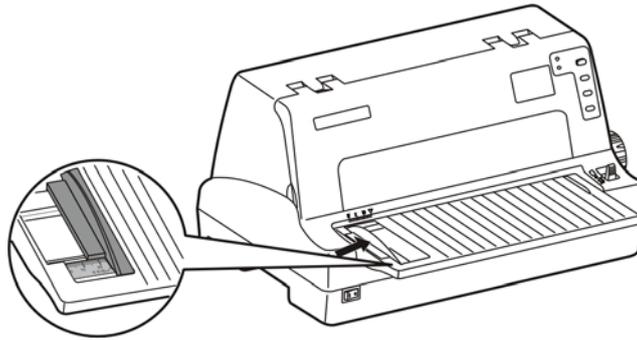


Figure 3-3 Adjust cut sheet

Note: 1. Insure the printing contents are all within printable area, or it may cause the print head to break pin.

2. When printing a card, please move the paper guide to “the card position”.

As shown in Figure3-4 to insert a paper, the paper will move to the print position automatically.

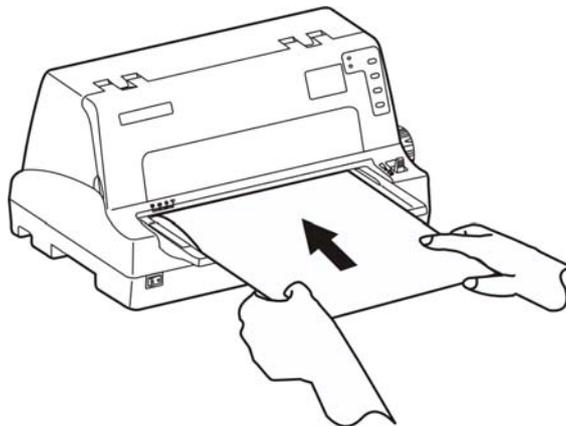


Figure 3-4 Installing cut sheet

Remark

If you have set the printer menu “Paper insert and wait” in the “press key to insert paper” mode, the paper will not move to the print position automatically. But now you can press the LOAD/EJECT key to move the paper to the print position. There is detailed description about “the change of the printer’s set” in the next chapter.

3.3 Using Tractor Paper

The tractor of the printer will feed the tractor paper from back to front as shown in Figure 3-5.

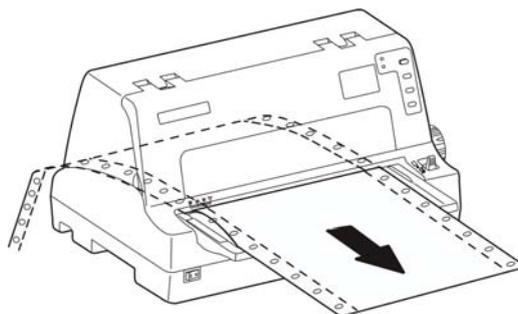


Figure 3-5 Move direction of the tractor paper

3.3.1 Installing Tractor Paper

1. Connect the printer and the electrical outlet with power cord.
2. Insure the paper select lever in the tractor paper mode as shown in Figure 3-6.

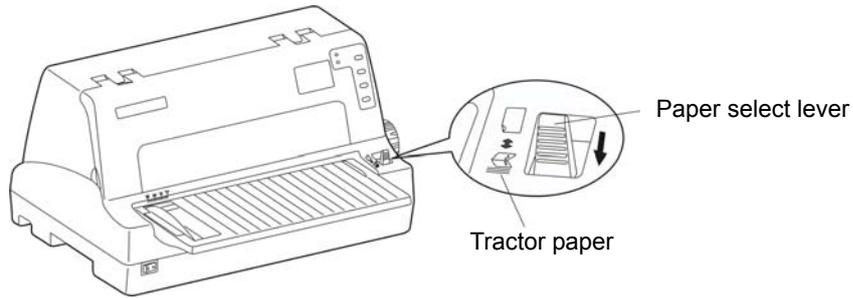


Figure 3-6 Adjust the Paper select lever (tractor paper)

Note: When changing the type of the paper, please move the paper select lever to the end to insure the paper select lever in the tractor paper mode.

3. Pull up the left sprocket lock lever, adjust the left tractor position, and then push down the left sprocket lock lever. Pull up the right sprocket lock lever, adjust the right tractor position, but do not lock it.

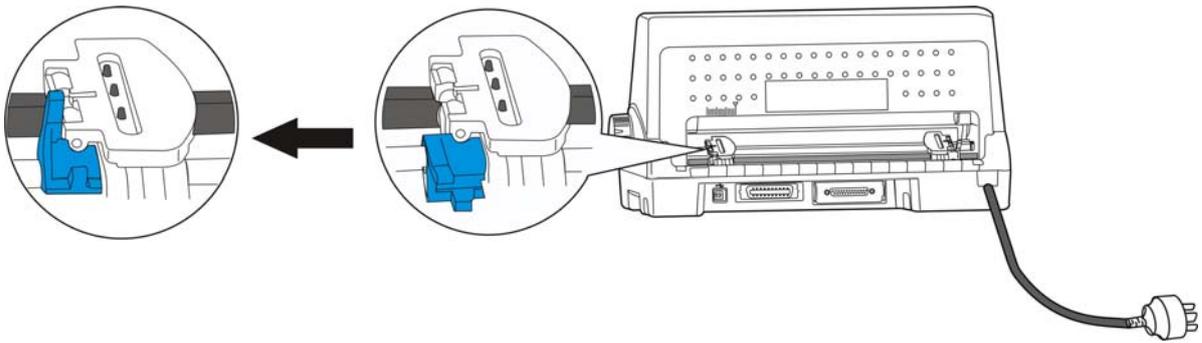


Figure 3-7 Pull up the sprocket lock lever

4. Open the right and left tractor sprocket covers and put tractor paper on the tractor as shown in Figure 3-8.

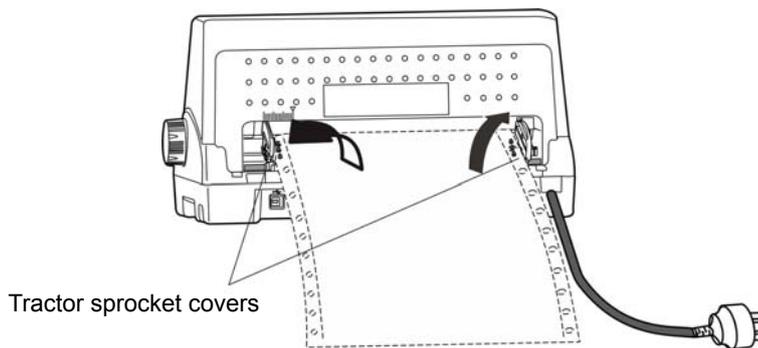


Figure 3-8 Install tractor paper on the tractor

Remark
Please align the tractor paper to the edge of tractor as shown in Figure 3-9.

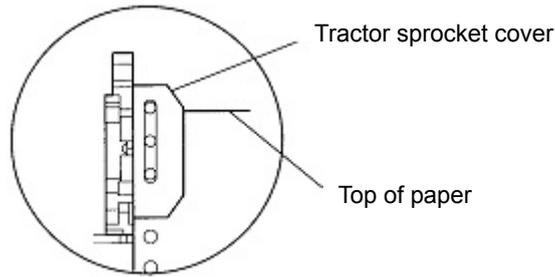


Figure 3-9 Install tractor paper on tractor

5. Close the right and left tractor sprocket covers, and then move the right tractor to make sure the tractor paper is smooth enough. Then push down the right tractor sprocket lock lever to lock the tractor as shown in Figure 3-10.

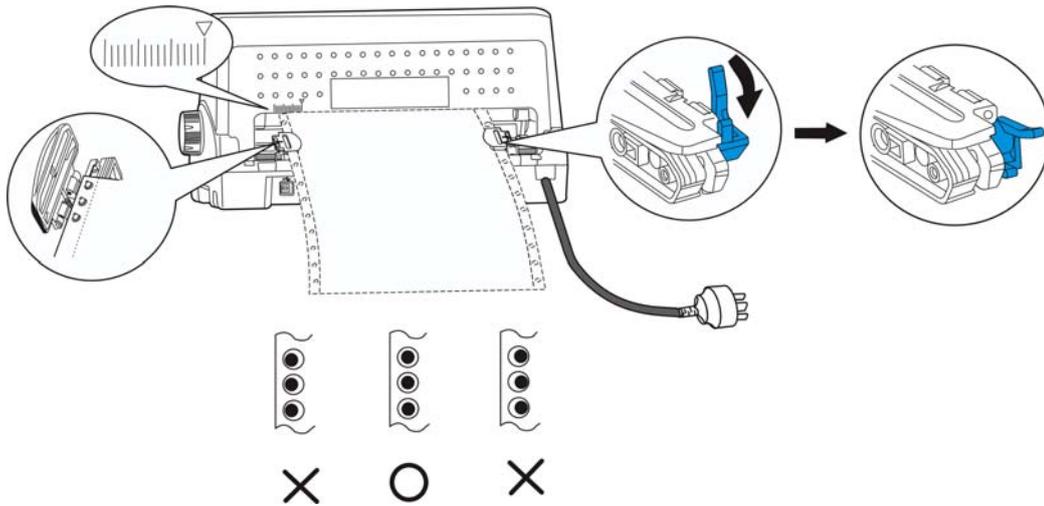


Figure 3-10 Adjust the position of the tractor paper

Note: Please don't let the tractor paper too tight or too lax.

6. Turn on the printer. The printer will feed the paper automatically after receives data. (You can also press **LOAD/EJECT** key to feed paper.)

3.3.2 Tearing Off Tractor Paper

The default setting of feeding paper to tear off position function has been opened.

After finish printing, the printer will feed the tractor paper to tear off position automatically. Paper can be torn off along the printer cover edge. (As Figure 3-11 shown) If the printer default setting has been changed which the function of feeding paper to tear off position has been closed, after finish printing, please press **TEAR** key to feed the paper to tear off position. Before tearing off tractor paper, if the margin doesn't aim at the printer cover edge, please adjust the tear off position. (Please refer to Tear-off Adjustment Mode on Chapter 4 Control Panel)

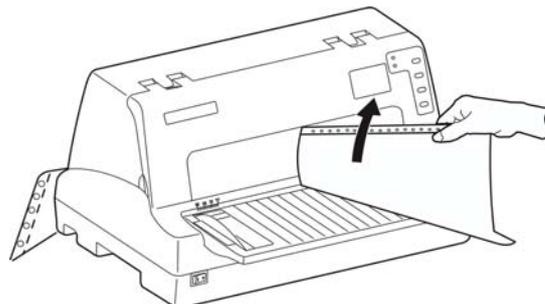


Figure 3-11 Tear tractor paper

Chapter 4 Control Panel

4.1 Control Panel Keys, Indicator lights and LCD

4.1.1 Control Panel

The control panel consists of four keys and two indicator lights as shown in Figure 4-1.

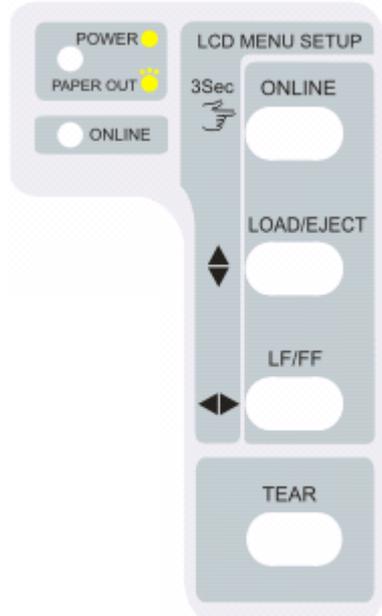


Figure 4-1 Control panel

4.1.2 Indicator light

LEDs	ON	Blink	OFF
Power/Paper out (Red)	Printer is turned on	Paper out and malfunction occurs	Printer is turned off
Online (Green)	Printer is online	—	Printer is offline

4.1.3 LCD

Character pitch	10	CPI
Speed	Normal	
Copy	3-Sheet	
Tear off	Auto	

4.2 Control Panel Operations

ONLINE	Pressing the ONLINE key, switch between ONLINE and OFFLINE modes.
LOAD/EJECT	In cut sheet mode, press this key when offline, the printer will eject the paper. In tractor paper mode, when paper in ready position, press this key offline, paper will be fed to the printing home position. When paper in, press this key offline, the paper will be fed to the ready position.

LF/FF	In offline mode, press LF/FF key to feed the paper line by line. Alternatively, hold LF/FF key down, the printer will eject the cut sheet or feed the tractor paper to tear off position.
TEAR	When the tear item is set to "manual", press TEAR key offline, the tractor paper will switch between the tear-off position and the printing home position.

Note: If paper out when using tractor paper, please press LOAD/EJECT key or LF/FF key to load paper after paper is installed again.

4.3 LCD Setup

1. Holding the **ONLINE** key for 3 seconds, the **Character pitch** of the LCD will blink with one beep, and the printer is in the LCD SETUP MODE.
2. Press the **LOAD/EJECT** key to select the item of the LCD circularly, and the current item of the LCD blinks.
3. Press the **LF/FF** key to select the submenu circularly, and the current submenu is shown.
4. After you have completed the LCD setup, press the **ONLINE** key to save and exit the LCD SETUP MODE with one beep.

4.4 The LCD Setup Descriptions

Item	Submenu	Descriptions
Character pitch	10 CPI, 12 CPI, 15 CPI	Set the English character pitch.
Speed	Normal, High, Super High	Set the print speed mode. "Normal" is normal speed. "High" is high speed. "Super High" is super high speed.
Copy	1-Sheet, 3-Sheet, 5-Sheet, 7-Sheet,	Set the copy mode. "X Sheet" Symbolize the impact force. "1-Sheet" is the normal impact force. "7-Sheet" is the best impact force, and each row will print twice.
Tear off	Auto, Manual	Set the tear mode. "Auto" When printing is completed, the paper will be fed to tear off position automatically. "Manual" You should press the TEAR key to feed the paper to tear off position.

4.5 Top of Form Adjustment Mode and Black Mark Mode

The top of form setting determines the margin between the top of paper and the first printed line (the top margin). The printed first line is zero position. The printing advance direction is positive value, while the reverse direction is negative value.

The black mark position is the distance of the black mark to the right or left edge when left black mark or right black mark is selected under menu setting.

Caution: The print head right or left sensor is in each side of the print head, in the black box on both sides of the carriage slider.

Adjust method:

Install paper correctly, press **LOAD/EJECT** to feed paper to printing position. In **ONLINE** mode, press **LOAD/EJECT** key and **LF/FF** key for about 3 seconds to enter the black mark adjustment mode. The **ONLINE** and **COPY LEDs** will blink alternating.

When the black mark is set to be open (left black mark or right black mark) in the menu setting, the current adjustment is to adjust the position of the black mark and enter step A.

When the black mark is set to be closed in the menu setting, the current adjustment is to adjust the top of form position and enter step B directly.

A. Press **LF/FF** key down for about 3 seconds, moves the print head left and right, and make the print head left sensor or right sensor aim at the paper black mark position.

LOAD/EJECT: Increase the black mark position by 1/20 inch each time. You can increase the margin to a maximum of +80 increments (+80/20 inch) from the default setting.

LF/FF: Decrease the black mark by 1/20 inch each time. You can decrease the margin to a maximum of 0 (0/20 inch) from the default setting.

To save your new setting and enter the top of form adjustment mode, press **ONLINE** key. The **COPY LED** and **ONLINE LED** blink simultaneously twice with two beeps, and then enter to step B. Press **ONLINE** key again, to exit the adjustment.

B. Hold down **LF/FF** key about 3 seconds to alter the top of form setting (The maximum removable dimension of the top of form position is achieved bases on the factory setting zero position.):

LOAD/EJECT: Increase the top of form by 1/60 inch each time. You can increase the margin to a maximum of +60 increments (+60/60 inch) from the default setting.

LF/FF: Decrease the top of form by 1/60 inch each time. You can decrease the margin to a maximum of 0 (0/60 inch) from the default setting.

To exit and save your new setting, press **ONLINE** key. The **COPY LED** and **ONLINE LED** blink simultaneously twice with two beeps, and then the **ONLINE LED** will be on.

Caution: When the top of form position (black mark position) is maximal, press LOAD/EJECT key, the printer will not increase.

When the top of form position (black mark position) is minimal, press LF/FF key, the printer will not decrease.

Note: To exit without saving, just turn the printer OFF.

4.6 Tear-off Adjustment Mode

There is a tear-off bar at the edge of the window cover. When you have finished printing, you can advance the tractor paper to the tear-off bar by the tear-off function to easily tear off the perforated sheets. The tear off setting determines the distance between the perforation of tractor paper and the tear-off bar.

Install tractor paper correctly, press **TEAR** key to feed paper to tear off position. With the printer online, press both **LOAD/EJECT** and **LF/FF** keys for about 3 seconds to get the printer enter into the tear-off adjustment mode. When the printer enters this mode, the **ONLINE LED** and the **POWER LED** blink alternately.

Use the **LOAD/EJECT** and **LF/FF** keys to alter the tear-off setting (The maximum removable dimension value of the tear off position is achieved bases on the factory setting zero position.):

LOAD/EJECT: Press the **LOAD/EJECT** key to adjust the distance in 1/60 inch increments. You can maximum increase to +15/60 inch.

LF/FF: Press the **LF/FF** key to adjust the distance in 1/60 inch decrements. You can maximum decrease to 0/60 inch.

To exit and save your new setting, press **ONLINE** key. The **POWER LED** and the **ONLINE LED** blink simultaneously for twice with two beeps, then the **POWER LED** turns on. Your new tear-off setting value is saved.

Caution: When the tear off position is maximal, press LOAD/EJECT key, the printer will not increase.

When the tear off position is minimal, press LF/FF key, the printer will not decrease.

Note: To exit without saving, just turn off the printer.

4.7 Changing the Printing Settings

DP550 printers divide printer settings into three sections: LCD setup mode, Setup Menu System and Online-aptitude Parameter Settings.

4.7.1 Using LCD Setup Mode

Press **ONLINE** key for about 3 seconds to enter LCD setup mode.

In LCD setup mode, press **LOAD/EJECT** key to switch among the setting items, such as Character pitch, Speed, Copy and so on, the selected item blinks. Press **LF/FF** key to select the contents of the items, such as Normal, High speed, Super high speed and so on, the selected content is shown. Press **ONLINE** key to save and exit the LCD setup mode after setting the menu.

4.7.2 Using Setup Menu System

Print out the current settings as following steps:

1. Turn off the printer.
2. If you use tractor paper, please install the paper correctly. (The minimal width of tractor paper is 240 mm.)
3. Press down **LOAD/EJECT** key and **LF/FF** key simultaneously and turn on the printer. The printer will feed the paper automatically and print out a default setting report or the current default settings. (As Figure 4-2 shown)

Caution: 1.The options whose color is printed contrarily are the current settings. If the initialization of "Language" has changed to "English", saving the setting and operating the upper steps again, and it will print the current settings in English. The way of changing the settings is in the next section.

2. When choose compress printing mode in the menu settings system, HIGH SPEED/SUPER HIGH SPEED print mode will not be valid.

Current Setting

Jolimark DP550 VX.X XXX XXXX/XX/XX **SN: XXXXXXXXXXXXXXXXXXXX**
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 SE **U.S.A.** FRANCE GERMANY U.K. DENMARK1 SWEDENI TALY SPAIN 1
 JAPAN NORWAY DENMARK2 SPAIN 2 LATIN AM KOREA LEGAL HOLLAND
 TURKEY

GHAR. SET ITALICS **GRAPHICS**

PAGE LAYOUT

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
 LETTER **A4** 12 INCH 14 INCH
 FORM LOCK **OFF** ON
 PAGE SKIP **OFF** ON
 COMPRESS PRI **OFF** 75% 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-DIR**
 HIGH-DENSITY **OFF** ON
 QUIET MODE **OFF** ON
 AUTO LF **OFF** ON
 LOADING PUSH KEY 0.5 SEC. **1.0 SEC.** 2.0 SEC.
 EJECT **FRONT** REAR
 PIN ROTATE **OFF** ON
 MARGIN DETECT **OFF** ON
 SKEW DETECT **OFF** 001 002 003 004 005 006 007

SERIAL 1/F

BAUD RATE 19200 BPS **9600 BPS** 4800 BPS 2400 BPS 1200 BPS
 PARITY **NCNE** ODD EVEN
 DATA BIT **8 BIT** 7 BIT
 STOP BIT **1 BIT** 2 BIT
 PROTOCOL XON/XOFF **DTR**

HEAD PIN

PIN 1 _____ **LIVE** BROKEN
 PIN 2 _____ **LIVE** BROKEN
 PIN 3 _____ **LIVE** BROKEN
 PIN 4 _____ **LIVE** BROKEN
 PIN 5 _____ **LIVE** BROKEN
 PIN 6 _____ **LIVE** BROKEN
 PIN 7 _____ **LIVE** BROKEN
 PIN 8 _____ **LIVE** BROKEN
 PIN 9 _____ **LIVE** BROKEN
 PIN 10 _____ **LIVE** BROKEN
 PIN 11 _____ **LIVE** BROKEN

PIN 12	————	LIVE	BROKEN
PIN 13	————	LIVE	BROKEN
PIN 14	————	LIVE	BROKEN
PIN 15	————	LIVE	BROKEN
PIN 16	————	LIVE	BROKEN
PIN 17	————	LIVE	BROKEN
PIN 18	————	LIVE	BROKEN
PIN 19	————	LIVE	BROKEN
PIN 20	————	LIVE	BROKEN
PIN 21	————	LIVE	BROKEN
PIN 22	————	LIVE	BROKEN
PIN 23	————	LIVE	BROKEN
PIN 24	————	LIVE	BROKEN

Figure 4-2 Current setting report

- Caution:**
1. The options whose color is printed contrarily are the current settings.
 2. Only after installed the option part of auto edge-detect, the items of edge-detect function and black mark detect function will be printed out.
 3. If the printer doesn't install Ethernet, the relative Ethernet information, such as MAC, IP and so on, will not be printed out in the self-testing and setting report.

■ **Enter the setup menu system mode**

1. Make sure the printer is in online mode.
2. Holding the **LOAD/EJECT** key for 3 seconds,
 - The **Power LED** and **Online LED** will blink twice simultaneously which indicates that the printer enters the setup menu system.
 - The title and main menu are printed out firstly (as Figure 4-3 shown), the default settings are underlined. Print head stays under the current default item.

Jolimark DP550 Current Setting

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 UNDERLINED. New settings will be **FILLED**.

MAIN MENU STYLE SETUP CHARACTER PAGE LAYOUT PRINT SETUP SERIAL I/F HEAD PIN
 MAC: XX-XX-XX-XX-XX-XX DHCP:YES IP: 10.0.0.1 Subnet: 255. 255. 255.0 gateway: 255.255.255.255

To activate the newly stored settings, please turn on the power again.

Figure 4-3 Enter Setup menu system

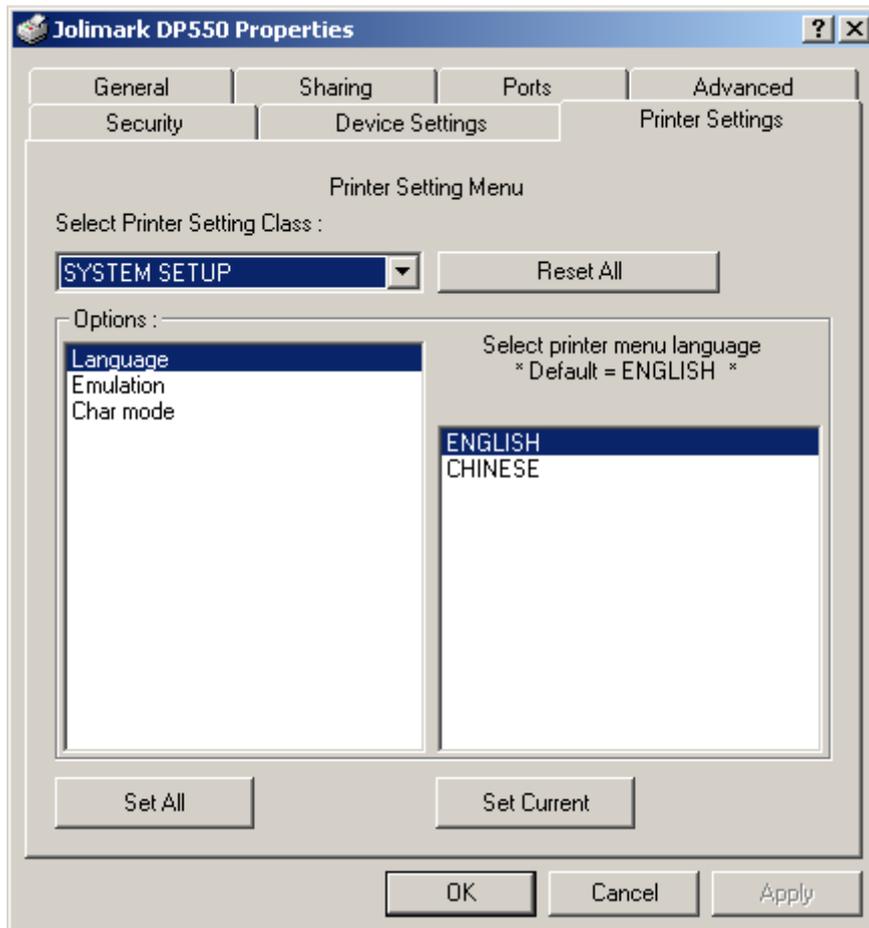
3. Using the following keys to modify the menu setting:
 - LOAD/EJECT** Select the menu item or menu setting value.
 - LF/FF** Enter into submenu or confirm menu setting value.
Note: Newly setting option will be shown in **FILLED**.
 - ONLINE** Return to upper menu (Hold on pressing **ONLINE** key will return to main menu directly.)
 - TEAR** Save and exit the setup menu system.
4. To give up the settings just modified, just turn off the printer directly. If you need to save the newly setting, hold on pressing **TEAR** key to save and exit the menu setting mode.
5. Turn off and restart the printer, newly settings are in operation.

4.7.3 Online-aptitude Parameter Settings

DP550 supports the function of online-aptitude parameter settings, which can be set in the PC with the driver installed in.

The detailed setting steps are shown as follows:

1. Make sure that the host and the printer are connected with a cable and both the host and the printer are turned on, the printer should be online as well.
2. Click “Start” → “Settings” → “Printers”.
3. Right click “Jolimark DP550” in the “Printers”, select “Properties”.
4. Click “Printer Settings” in the property page.



5. The setting way is corresponding with that of printer menu system. In the “Printer Settings” layout, select the first class menu in the combobox of “Select Printer Setting Class”, select the second class menu in the “Options” and set the item in the current parameters list.
6. Click the button “Reset All” to reset all the parameters to be the driver’s default, but not change the printer’s settings.
7. When setting the parameters: you can click “Set Item” to save the current settings after setting each item, or you can also click “Set All Items” after setting all parameters. After clicking “Set All Item” or “Set Item”, the parameter’s instruction will be sent to the printer.
8. The printer’s parameter settings are changed at once after receiving the instruction and the printer does not need to restart.
9. After finishing settings, click “OK”, exit the “Properties” window.

4.8 Description of Options

Options	Description
SYSTEM SETUP	
LANGUAGE	Choose the set language in menu, menu content will print according to the setting of the language mode.
EMULATION	Select the printer emulation of EPSON, ESC/P-K2 or OKI 5530SC
CHAR. MODE	Select the ASCII or Chinese character mode.
CHARACTER	
FONT	Set the font for the printer to use in the absence of any font control instructions from your software.
ENG PITCH	Set the pitch to determine the horizontal spacing of the printed ASCII.
CHI PITCH	Set the pitch to determine the horizontal spacing of the printed Chinese.
SLASH ZERO	Select or cancel the printing of a slash (/) through zero to distinguish it from the letter O.
INTL CHAR SE	Select interior character set (only with EPSON compatible). (USA, France, Germany, Britain, Denmark I, Sweden, Italy, Spain I, Japan, Norway, Denmark II, Spain II, Latin America, Korea, LEGAL, Holland, Turkey)
CHAR. SET	Select character set into Italic Character Set or Graphic Character Set.
PAGE LAYOUT	
LINE SPACING	Set the vertical spacing of the printed characters. You can set it to either 6 LPI (the default setting) or 8 LPI.
FORM LENGTH	Set the length of your printer paper, for both cut sheets and tractor paper.
FORM LOCK	Select (ON) or cancel (OFF) the function of form length lock.
PAGE SKIP	Select (ON) or cancel (OFF, the default) a bottom margin of one inch.
COMPRESS PRT	Cancel (OFF) or select (ON) 75% compressed print mode or 50% compressed print mode. High speed and super high speed are invalid when this function is on.
LEFT MARGIN	Setting distance from the first print character to the left paper edge, unit is 1/10 inch.
BLACK MARK	Whether or not choose the black mark detection.
PRINT SETUP	
PRINT DIR	Print direction mode contains unidirectional, bidirectional and automatic mode. When default option is automatic mode, character print direction is "bidirectional", graphic print direction is "unidirectional", and the print direction command is valid. If choosing "unidirectional" or "bidirectional" mode, the character print direction and graphic print direction is forced to be "unidirectional" or "bidirectional", print direction instruction is invalid.
HIGH DENSITY	Select (ON) or cancel (OFF) the high quality printing.
QUIET MODE	Select (ON) or cancel (OFF) the printer into quiet mode.
AUTO LF	Select (ON) or cancel (OFF) the automatic advance of the paper by one line after every carriage return command.
LOADING	Choose (0.5sec, 1.0sec or 2.0sec) or choose LOAD/EJECT key to feed paper. When the insert wait time set to 0.5sec, 1.0sec or 2.0sec, after the respective time if the paper feed sensor detects there is paper, the printer will feed the paper automatically.
EJECT	In the front feed mode, select the eject direction of cut sheet.
PIN SWITCH	Select (ON) or cancel (OFF) pins switch mode. The printer auto switches different pin to print table Line.
MARGIN DETECT	Select (ON) or cancel (OFF) the margin detect function.

SKEW DETECT	Skew detect divides into 8 levels from 001-007 and OFF. Skew detect value (right and left top of form vertical error value) is from 1.2mm to 4.8mm, each level is 0.6mm discrepancy.
SERIAL I/F	
BAUD RATE	Set the printer serial transport speed.
PARITY	Set the printer serial interface parity checking type.
DATA BIT	Set the printer serial data bits.
STOP BIT	Set the printer serial transmission stop bits.
PROTOCOL	Set the printer serial interface as software control (XON/XOFF) or hardware control (DTR).
HEAD PIN	Select broken-pin mode. The default setting is every root and printed needle is live. When the printer is printing, if user finds out broken-pin, please select broken-pin mode, then the printer can automatic compensate broken-pin position.

Table 2 Description of options

4.9 Restoring Default Settings (Without Alignment and the Gap of Print head)

To restore to the default settings:

1. Make sure that the printer is **ONLINE**.
2. Press and hold down the **ONLINE** and **TEAR** keys on the control panel for 3 seconds.

The LEDs of the **POWER** and **ONLINE** on the control panel blink 3 times respectively at the same time and the printer makes two beeps to confirm that the printer's default settings have been restored.

3. Loosen the keys and switch the printer off and on again.
4. After these steps, the printer's default settings in operation.

Caution: After restore all the factory default settings. The network setting parameters resume default value at the same time.

4.10 Using the Self -Test Functions

4.10.1 H pattern Printing Test

One page printing of H pattern is performed by turning power on, while pressing the **ONLINE** and **LF/FF** keys. The printer will exit this printing test automatically and can receive print command to print.

Press **ONLINE** key can stop printing, restart the printer to exit H self-test mode.

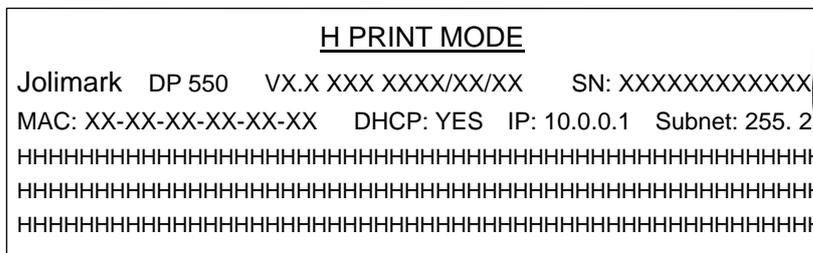


Figure 4-4 The former of the maintenance print

4.10.2 Pin Test

Transverse lines will be printed by turning power on, while pressing the **TEAR** key, then judge whether each pin is broken or not.

4.10.3 ASCII Printing Test

One page printing of ASCII slide pattern is performed by turning power on, while pressing the **ONLINE** key. The printer will exit this printing test and can receive print command to print.

Continuous printings of ASCII slide pattern is performed by turning power on, while pressing the **ONLINE** and **LOAD/EJECT** keys. Press **ONLINE** key to stop printing, or restart the printer to exit this mode.

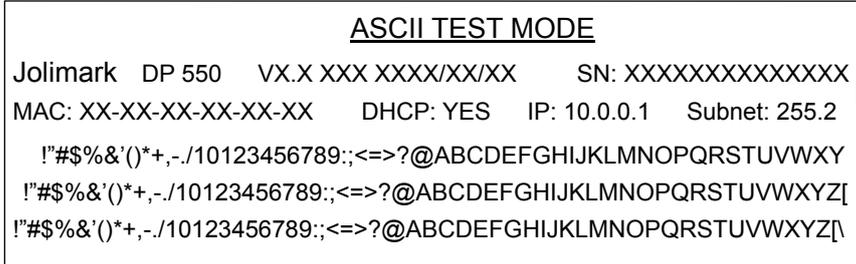


Figure 4-5 The former of English self-test

4.10.4 Chinese Self-text

One page printing of Chinese self-test pattern is performed by turning power on, while pressing the **LF/FF** key. Press **ONLINE** key to stop printing, or restart the printer to exit this mode.

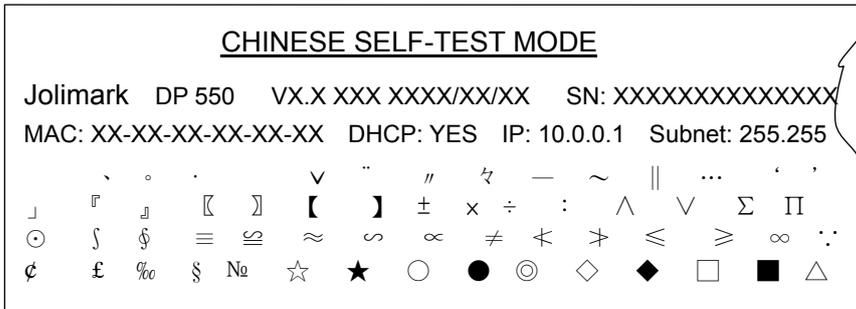


Figure 4-6 The former of Chinese self-test

4.10.5 Hex Dump Mode

Turning power on while pressing the **LOAD/EJECT** key causes the printer to enter Hex Dump mode. In this mode, printer will print out the data with hex format. Press **ONLINE** key to stop printing, or restart the printer to exit this mode.

The results of the hex dump printing will be shown as follows.

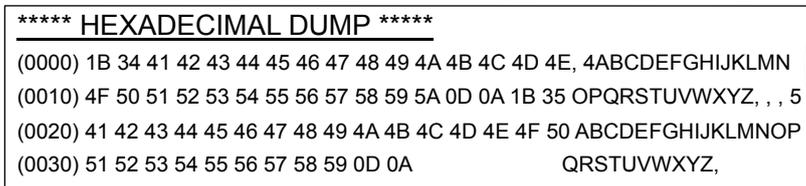


Figure 4-7 The hexadecimal dump printing

4.10.6 Alignment Adjust Mode

After long time printing, some printers will appear printing place moving, it causes that printing is not align with each other between lines during bidirectional printing. So it needs to adjust the alignment to improve print quality.

Alignment adjustment steps are as follows:

1. Printing alignment adjustment

Load paper

Turn on the printer while press **LOAD/EJECT** + **TEAR**, enter default parameter adjustment mode.

When the **ONLINE LED** on, long press the **LOAD/EJECT** key + **TEAR** key, printer will print out alignment state in current speed.

Press **LOAD/EJECT** key to align up.

Press **LF/FF** key to align down.

Press **ONLINE** key to print out selected result.

Long press **TEAR** key to save and exit.

2. Restart the printer then exit the alignment adjust mode

Note: Alignment adjustment will affect the print quality, please think carefully before adjusting and you should obey the specification strictly when adjustment.

Appendix A

A.1 Printer Maintenance

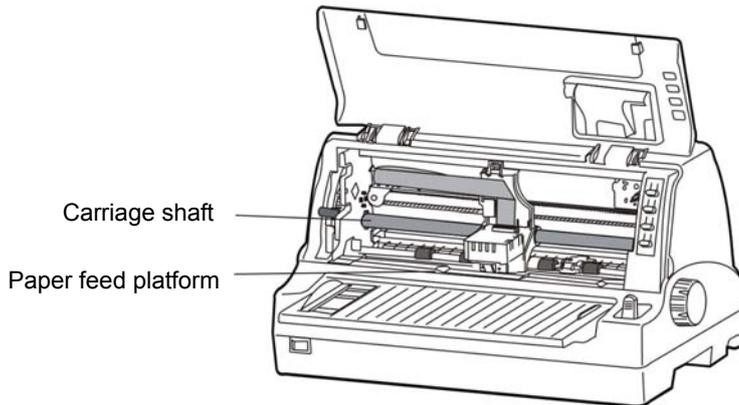


Figure A-1 Cleaning printer

Cleaning periodically and the cleaning tool

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

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

Clean the carriage shaft

There is a layer of oil covered on 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 lube (NYE180 lube of NYE Company is recommended), move print head back and forth to make lube scattered.

Clean the paper feed platform

Please wipe off wasted paper and cleaning dirt and dust.

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

2. Being used under dust circumstance, the carriage shaft may stack much dust and affect the print quality.
3. If you have just finished using the printer, let the print head cool for a few minutes before you touch it.
4. Please use a soft cloth for cleaning, do not use combustible solvent.

A.2 Problems and Solutions

Head overheating

Phenomenon: The **POWER LED** is on and the **ONLINE LED** blinks, print head traverse automatically but nothing is printed.

Cause: The print head is overheated.

Solutions: Wait patiently. Printer will automatically resume printing when print head temperature decreases.

Paper select lever error

Phenomenon: The **POWER** and the **ONLINE LEDs** blink alternately slowly.

Cause: The select lever is changed after loading paper.

Solutions: Return the select lever to the correct position.

Home position sensor error

Phenomenon: The **POWER** and the **ONLINE LEDs** blink alternately quickly.

Cause: The home position detects error.

Solutions: Turn off the power and turn it on again.

Paper out or paper jam

Phenomenon: The **POWER LED** blinks and the **ONLINE LED** turns off.

Cause: The printer is out of paper or jamming.

Solutions: Load paper or remove the jammed paper.

Appendix B Specification

B.1 General

Item	Description					
Type	24-Pin Flatbed Dot Matrix Impact Printer					
Print direction	Bidirectional logic seeking					
Number of columns	80 columns (10 CPI)/203.2 mm					
Print speed	ASCII			Chinese		
	Speed	10 CPI	12 CPI	Speed	6.7 CPI	7.5 CPI
	Super high speed	400 CPS	480 CPS	Super high speed	200 CPS	225 CPS
	High speed	300 CPS	360 CPS	High speed	133 CPS	150 CPS
	Normal speed	150 CPS	180 CPS	Normal speed	100 CPS	112 CPS
Print head	Diameter of wire: 0.22 mm					
	Life: 500 million dots/wire					
Resolution	360 x 360 DPI (Max.)					
Character set	ASCII: 17 international character sets (U.S.A, FRANCE, GERMANY, U.K, DENMARK1, SWEDEN, ITALY, SPAIN1, JAPAN, NORWAY, DENMARK2, SPAIN2, LATIN AM, KOREA, LEGAL, HOLLAND, TURKEY)					
	Chinese: GB 18030					
Code Page	28 types: U.S.A, MULTI, PORTUGAL, CANADA, NORWAY, EAST EURO, CYRILLIC, RUSSIAN, HUNGARY, KAMENICKY, TURKEY, ICELAND, BULGARIA, MAZOVIA, GRK 437, GRK 851, GRK8859-7, GRK 1253, ARAB NLS, ARAB EXT, WIN LAT1, WIN LAT2, ISL LTN1, ISO LTN2, TUR8859-9, ISO LTN9, KBL, LATIN 7					
Fonts set	ASCII: Draft, Roman, Sans Serif, Courier, Prestige, Script, OCR-A, OCR-B, Orator					
	Chinese: GB 18030 song ti					
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, NW-7					
Character pitch	ASCII: 10 CPI, 12 CPI, 15 CPI, proportional					
	Chinese: 6.7 CPI, 7.5 CPI					
Line space	1/6 inch, 1/8 inch, programmable in 1/360 inch increments					
Paper feed speed (Max.)	Normal mode: 152.4 mm per second / 6 inches per second (continuous feed) One line per 45 millisecond (1/6 inch)					
	Copy mode: 101.6 mm per second / 4 inches per second (continuous feed) One line per 65 millisecond (1/6 inch)					
Emulation	EPSON ESC/P-K2, OKI 5530SC					
Interface	USB interface: USB 2.0 Full-Speed Parallel interface: Centronics (IEEE1284 NIBBLE) Serial interface: RS-232C Ethernet interface: 10/100Base-T Ethernet Interface * Only one serial interface or Ethernet interface is supplied, you can choose either according to your requirement. (According to specific interface standards)					
Input Buffer	132 KB					
Ribbon	Model: JMR118					
	Life: 10 million characters (draft mode)					
Noise	<55 dB (A) (ISO7779 standard)					
Control Panel	4 keys, 2 indicator lights and a LCD display					
Paper feed type	Cut sheet: Load/eject from front, Load from front and eject from rear					
	Tractor paper: Load from rear and eject from front					
Thickness adjust	Adjust through gap adjust lever.					
Paper specification	Cut sheet, card, postcard		Width: 65 ~ 260 mm			

	Tractor paper	Length: 55 ~ 536 mm
		Weight: 45 ~ 250 g/m ²
		Width: 76 ~ 260 mm
		Weight (Single-ply paper): 52 ~ 128 g/m ²
		Multi-ply paper (Every page): 40 ~ 58 g/m ²
Max paper thickness	0.8 mm	
Copy	Original + 6 copies "1 + 2" print mode: Original + 1 ~ 3 copies (0.065mm/page) (print once) "1 + 4" print mode: Original + 3 ~ 5 copies (0.065mm/page) (print once) "1 + 6" print mode: Original + 5 ~ 6 copies (0.065mm/page) (print twice)	
Automatic function	OPTIONAL: Automatic paper edge detection, Black mark detection, Paper Skew detection	
Compress set	Support graph and character printing	
Especial functions	Pin Break Compensation, Pin Switch, Automatic Emulation Match, Online Parameter Setting, Chinese LCD display	
Physical dimensions	378 (width) × 322 (depth) × 209 (height) mm	
Weight	Approx. 6.4 Kg	
Environmental conditions	Operating environment	Temperature: 5 ~ 40°C
		Humidity: 40%RH ~ 90%RH (No condensation)
	Storage environment	Temperature: -40 ~ 55°C
		Humidity: ≤93%RH (40°, No condensation)
Power requirements	Rated voltage range: 198 ~ 242 V	
	Rated frequency range: 50 ~ 60 Hz	
Power	① Working power: 68W; ② Largest power: 210W; ③ Standby power: 3.5W. Caution: Only when the product is unconnected with outer power supply, it can achieve zero energy consumption status.	
Reliability	MTBF≥20,000 hours (IEC 605.7standard)	
Wireless disturbance	Grade B	

B.2 Paper Specifications

Cut sheet, card, post card	
Width	65 ~ 260 mm
Length	55 ~ 536 mm
Total Thickness	≤ 0.8 mm
Weight	45 ~ 250 g/m ²
Type	Normal paper, Multi-ply paper, Card, Post card
Tractor paper	
Width	76 ~ 260 mm
Length	≥ 115 mm
Total Thickness	≤ 0.8 mm
Weight	Single-ply paper: 52 ~ 128 g/m ²
	Multi-ply paper (each sheet): 40 ~ 58 g/m ²
Type	Normal paper, Multi-ply paper
Label	
Width × Length	Minimum 50 × 25 mm
Total Thickness	≤ 0.8 mm
Weight	64 g/m ²

Note: Please refer to Appendix B5 for details.

B.3 Printable Area

- Note:** 1. For assurance of the print quality, please insure print contents are all within printable area.
 2. If print contents outrun the printable area, it may cause print head to break needle.

B.3.1 Cut Sheet, Card, Post Card

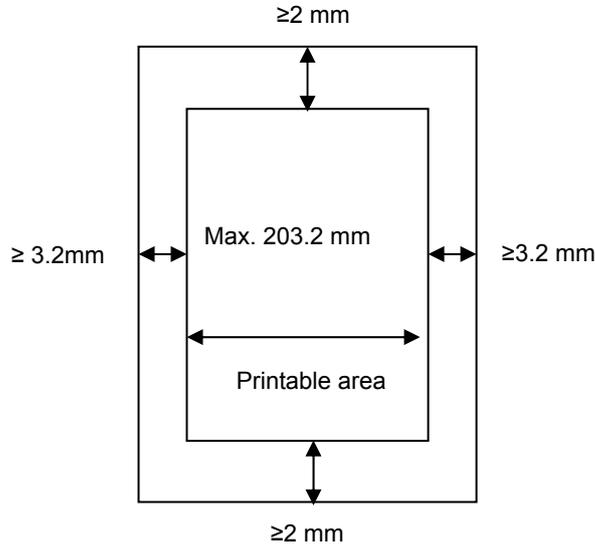


Figure B-1 The printable area of cut sheet, card and post card

B.3.2 Tractor Paper

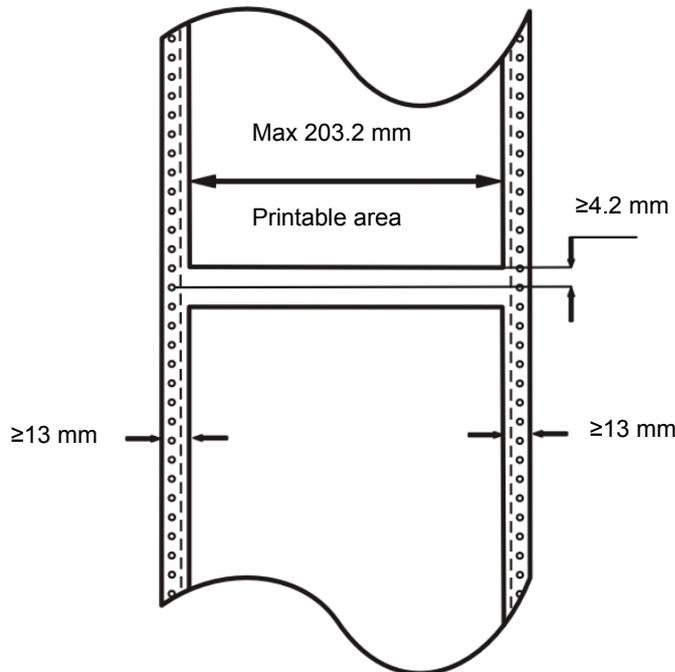


Figure B-2 The printable area of tractor paper

B.4 Interface Specification

This DP550 printer can be configured with 2.0 Full-Speed USB interface, Centronics (IEEE1284 NIBBLE) parallel interface, RS-232 serial interface or 10/100Base-T Ethernet interface. You can connect the printer to computer according to your requirement.

B.4.1 USB Interface

USB interface is USB 2.0 Full-Speed. USB interface connector is USB-B type connector. (As Figure B-3 shown)

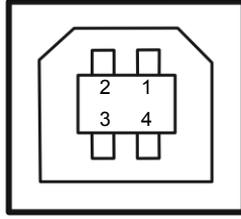


Figure B-3 USB-B type connector

NO.	Name	Color
1	VBUS	RED
2	D-	WHITE
3	D+	GREEN
4	GND	BLACK

B.4.2 Parallel Interface

Standard Centronics (IEEE1284 NIBBLE) parallel interface connector is DB-36 pin type connector. Its pin numbers are as Figure B-4 shown.

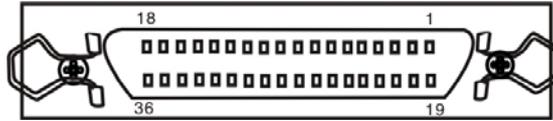


Figure B-4 Parallel interface connector pin number

The parallel interface has the following characteristics:

- Data format:** 8-bit
- Synchronization:** /STROBE pulse
- Handshaking:** BUSY and /ACKNLG signals
- Signal level:** TTL compatible

Connector Pin Assignments

Signal Pin No.	Return Line Pin No.	Signal Name	Signal Direction
1	19	/STROBE	Printer ← Host
2 ~ 9	20 ~ 27	DATA	Printer ← Host
10	28	/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

B.4.3 Serial Interface

RS-232 serial interface's working way is set by the toggle switch on the main board. Interface connector is DB-25 hole type connector. Its connector pin numbers are as the following figure shown:

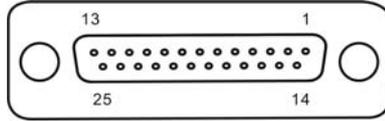


Figure B-5 Serial interface connector pin number

The connection figure of printer and computer

The connection figure of printer and computer is as B-6 shown:

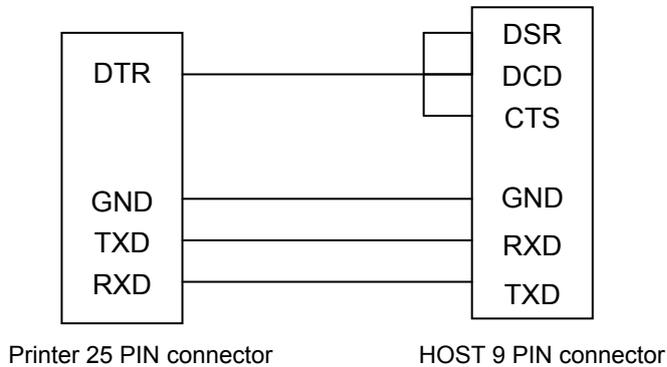


Figure B-6 The connection of printer and HOST

Pin Description

RS-232 serial pin description is shown as table B-5:

Table B-5 RS-232 serial pin description

Pin	Signal Name	Direction
1	FG Frame Ground	
2	TXD Transmit Data	OUT
3	RXD Receive Data	IN
4	RTS Request to Send	OUT
5	CTS Clear to send	IN
6	DSR Data set ready	IN
7	GND Ground	
8	DCD Data carrier Detect	IN
.....		
20	DTR Data terminal ready	OUT
.....		

Signal description:

The actual use pin signal of the printer:

Output signal: RXD and DSR

Input signal: TXD and DTR

Signal description:

RXD: The printer receives data.

DTR: High level denotes the printer is READY to receive data from the HOST; contrarily, Low level denotes the printer is BUSY, and it is forbid receiving data from the HOST.

TXD: The printer transmits data.

Data bit format:

Data bit is fixed 8 bits, Stop bit is fixed 1 bit.

Baud Rate:

Serial communication baud rate can be set through menu setting:

1200 bps, 2400 bps, 4800bps, 9600bps, 19200 bps

Interface Protocol

The DTR from printer controls the data stream between printer and HOST. When DTR is high level, it means the printer is READY, it can receive the data from HOST. DTR is high level in the following conditions:

- The printer is online
- The data buffer area of the printer is larger than limited value.
- The printer has no malfunction

When the DTR is low level, it means the printer is BUSY, it can not receive the data from HOST. DTR is low level in the following conditions:

- The printer is offline
- The data buffer area of the printer is smaller than limited value
- The printer has malfunction

X-ON/X-OFF Protocol

Send the X-ON (11H) code to the HOST from the printer through TXD, which indicates the printer is FREE and can receive data from HOST. In the situation of the printer buffer area is larger than limited value, the following two conditions can make the printer send X-ON code.

- The printer becomes FREE from BUSY
- The printer becomes ONLINE from OFFLINE

Send the X-OFF (13H) code to the HOST from the printer through TXD, which indicates the printer is BUSY and can not receive data from HOST. In the following five conditions, printer sends X-OFF code to printer:

- The printer becomes BUSY from FREE
- The printer becomes OFFLINE from ONLINE
- The printer buffer area is smaller than limited value
- The printer has malfunction
- The printer is paper out

Serial Specification

Serial data consists of original bit (1 bit) + data bit (8 bits) + check bit (1 bit) + stop bit (1 bit). (As Figure B-7 shown)

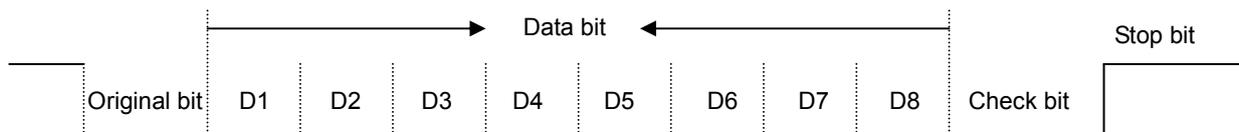


Figure B-7 Serial data format

B.4.4 Ethernet Interface

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

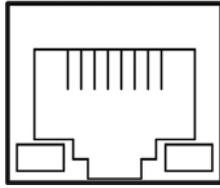


Figure B-8 Ethernet interface

B.5 Paper Specification and Printable Area

B.5.1 The Notice Relates to Paper

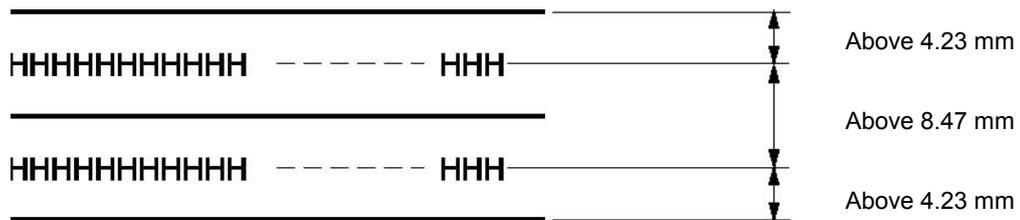
Using the following paper will cause unstable paper feeding, paper jam or paper crease, even leads to break pin. So it can not be used.

- Too thin or too thick, or the thickness of which are uneven. (The paper which doesn't measure up paper specification)
- Too small or too large. (The paper which doesn't measure up paper specification)
- Paper being cut out or has hole.
- Paper with metal such as pins.
- Paper with paste outside, or which is uneven or flake off.
- Rough paper
- Tractor paper has crease besides the transverse pucker line
- Paper corner breaks or creased.
- Postcard or envelope sticks with stamp or seal.

B.5.2 Nested Table Used Paper

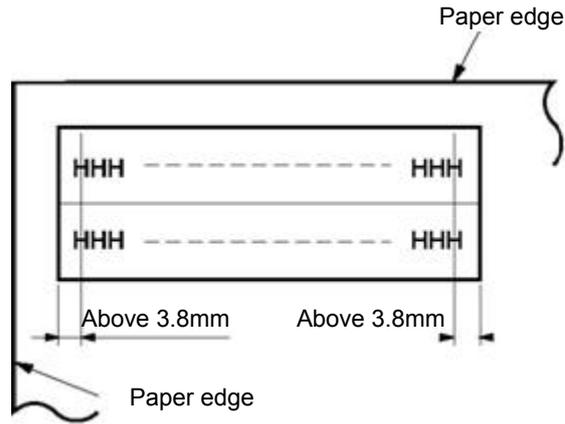
When printing using paper with beeline or table, please avoid printing to the area near maximal printable area.

◆ Transverse line



- Please set the character line spacing above 8.47 mm (1/3inch).
- Please leave the space between centre of character and the top & bottom lines at least 4.23 mm.

◆ Ordinate



- Please leave the space between centre of the character and the ordinate at least 3.8 mm.

B.5.3 Useable Paper Types and Guarantee Area

Useable papers are shown in the following table:

Paper type	Guarantee grade	Other conditions
Tractor paper	●	
Tractor paper with binding holes	▲	
Tractor paper with clipped corner	▲	
Cut sheet	●	
Cut sheet with binding holes	▲	
Cut sheet with line holes	▲	
Post card	●	
Card	▲	
Envelope	●	
Label (Tractor paper)	▲	
Label (Cut sheet)	▲	
OHP paper	×	
Delivery order form	▲	
Deposit book	×	
Manuscript voucher	×	

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.

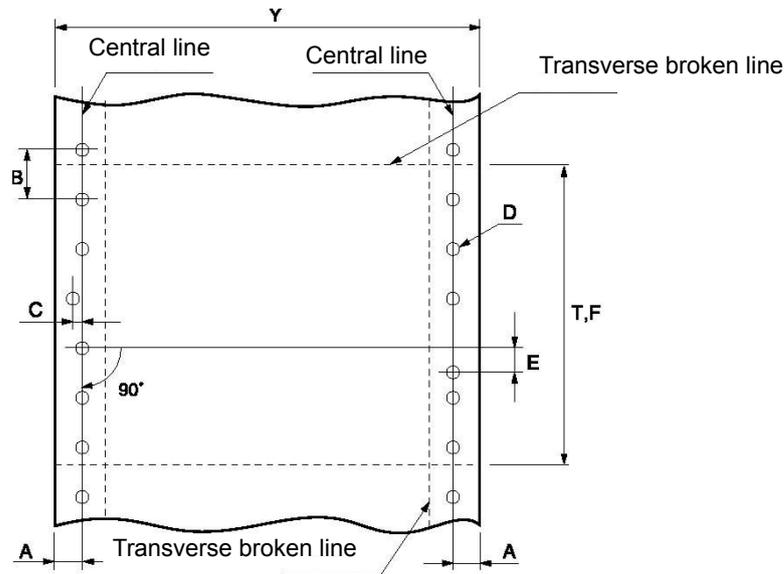
● : Guarantee

▲: Can use in some conditions, not guarantee.

× : Forbid to use.

B.5.4 Tractor Paper (Continuous Bill)

Tractor paper means the paper with gear holes and creases.



◆ The position and size of gear hole

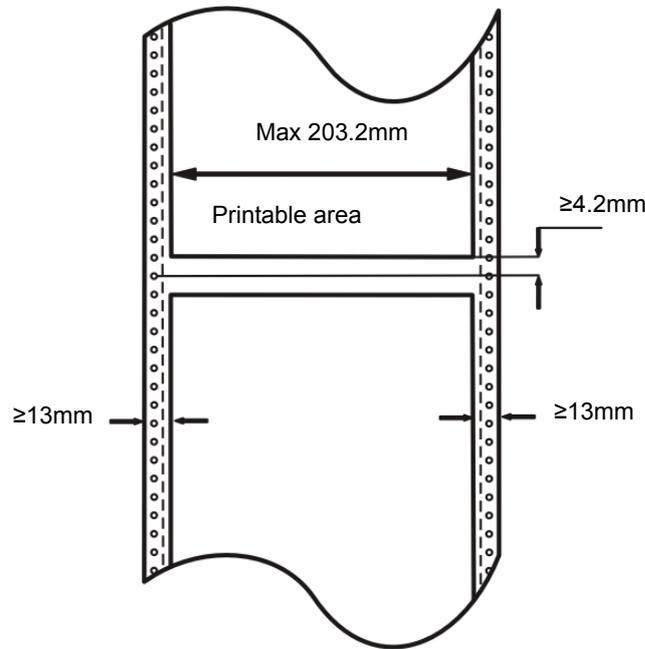
The positions and sizes of gear hole are shown below. The central line here refers to the line between the middle of any two holes away the feed direction about 254 mm.

Item	Mark	Size (mm)	Function
Distance between central line of gear hole and sideline	A	6.35 ± 0.7	Make 6.35 mm as standard.
Diameter of gear hole	D	4.0 ± 0.1	The minimal diameter of gear hole is D, the maximal diameter is below 4.5 mm.
Distance between gear hole centers	B	12.70 ± 0.05	Distance between nearby gear hole centers.
Accumulative error of distance between gear hole centers	-	Below ± 0.3	The distance between any two holes is not over 254 mm
Warp of gear hole center	C	Below 0.1	Warp value of gear hole relative to central line
Central warp of right and left gear holes	E	Below 0.15	The warp value of the beeline which perpendiculars to central line through any gear hole in the left and the center of corresponding gear 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.

Caution: Pay attention to the cut off part rise or paper hitch by printer frame when two ends of the paper and cross parts with line cut parts.

◆ Size of paper and printable area

Tractor paper (Single-ply paper and multi-ply paper)	
Width	76 ~ 260 mm
Length	≥ 115 mm
Total thickness	≤ 0.8 mm
Weight	Cut sheet: $52 \sim 128$ g/m ²
	Fanfold paper (each sheet): $40 \sim 58$ g/m ²



◆ About paper quality

Useable qualities of papers are as shown below.

Type	Paper quality
Single-ply paper	White high-quality paper
Fanfold paper	Pressure sensitive paper, inner fanfold paper and mixed paper*

* Mixed paper refers to the paper added with carbon paper.

◆ Weight of each sheet and maximal autotype pages

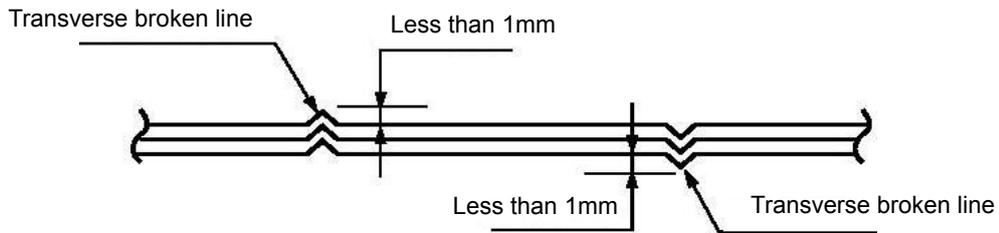
The weight of each sheet and maximal autotype pages are shown below:

Type	Paper quality	Weight of each sheet (*1)	Maximal autotype pages	Total thickness
Single-ply paper	High-quality paper	45~110kg (52~128g/m ²)	—	—
Fanfold paper (tractor has been fixed)	Pressure sensitive paper	Use 34kg (40g/m ²) as standard	7 pages (original+6 pages)	Less than 0.8mm
	Inner fanfold paper		3 pages (original+2 pages)	
	Mixed paper(*2)			

Caution: 1. Weight of each sheet refers to acreage of 788 * 1091mm, using kg to show the weight of 1000 pages.
2. The thickness of carbon paper which used in mixed paper should less than 0.03 mm.

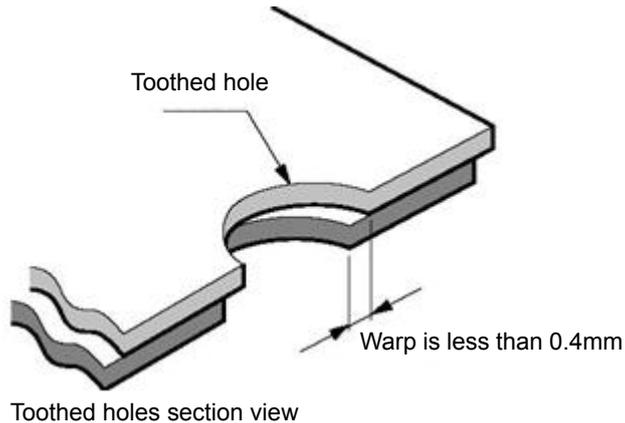
◆ The protuberance of transverse line

When the fanfold transverse line sticks up, it may cause print quality decrease, unstable paper feed or paper jam etc. Especially when the fanfold with many pages, it will deeply affect the stable of paper feed. Please ensure the protuberance height 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 fanfold papers superposition) is less than 0.4mm.



◆ Clipped corner

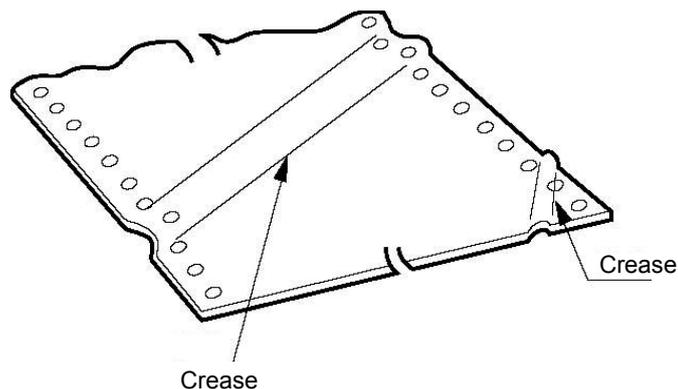
Caution: Do not use the paper with clipped corner which in not include in the guarantee list. It can not guarantee device's capability after using it.

When you have to use the paper with clipped corner, please do enough tests to ensure it will not bring error. Pay attention to the following points when using paper with clipped corner.

- Make sure there is no wastepaper in the printer.
- In order to avoid paper peeled around the clipped corner, please sever the part connects vertical and transverse line holes. Or it may cause paper falls off or hitched by the printer frame.

◆ Crease

The paper should not have creases, especially for new paper. The first and last pages are easy to have creases, so please not to use them. In addition, it will lead to the chaos of paper feeding precision.

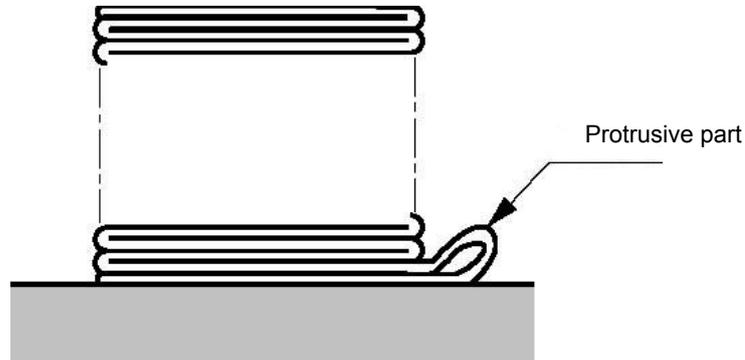


- ◆ The crease, crimp, puckered and upturning of the paper top and bottom.

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 puckered part

Please pucker the paper base on the transverse line holes. It will affect paper feed while the puckered part sticks up as the following figure shown, please not use it.

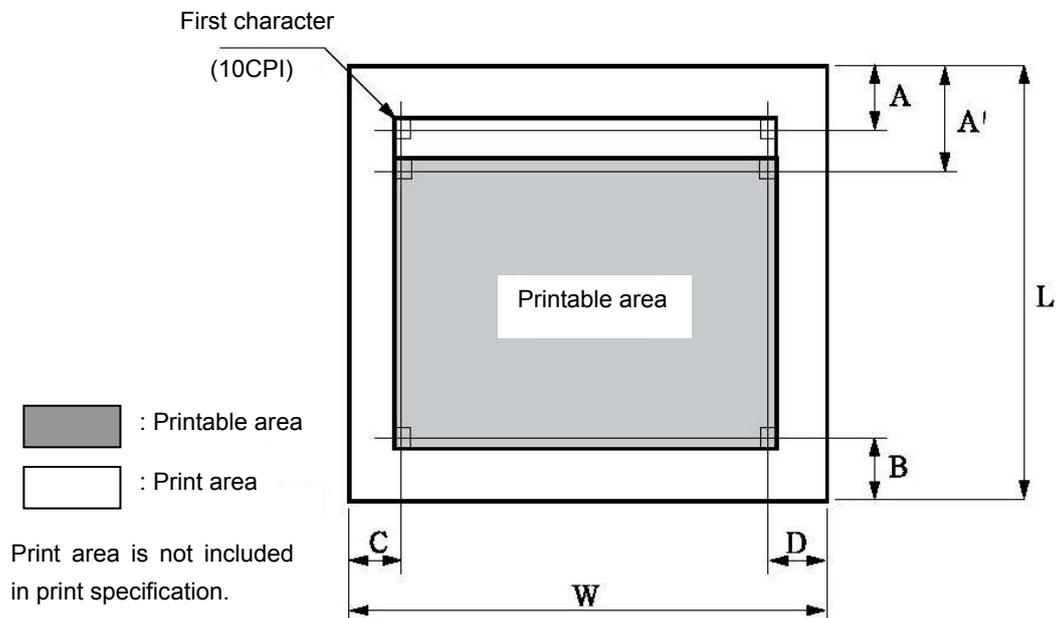


B.5.5 Cut Sheet

- ◆ Paper specification and printable area

- Cut sheet

Paper size uses A4 as standard.



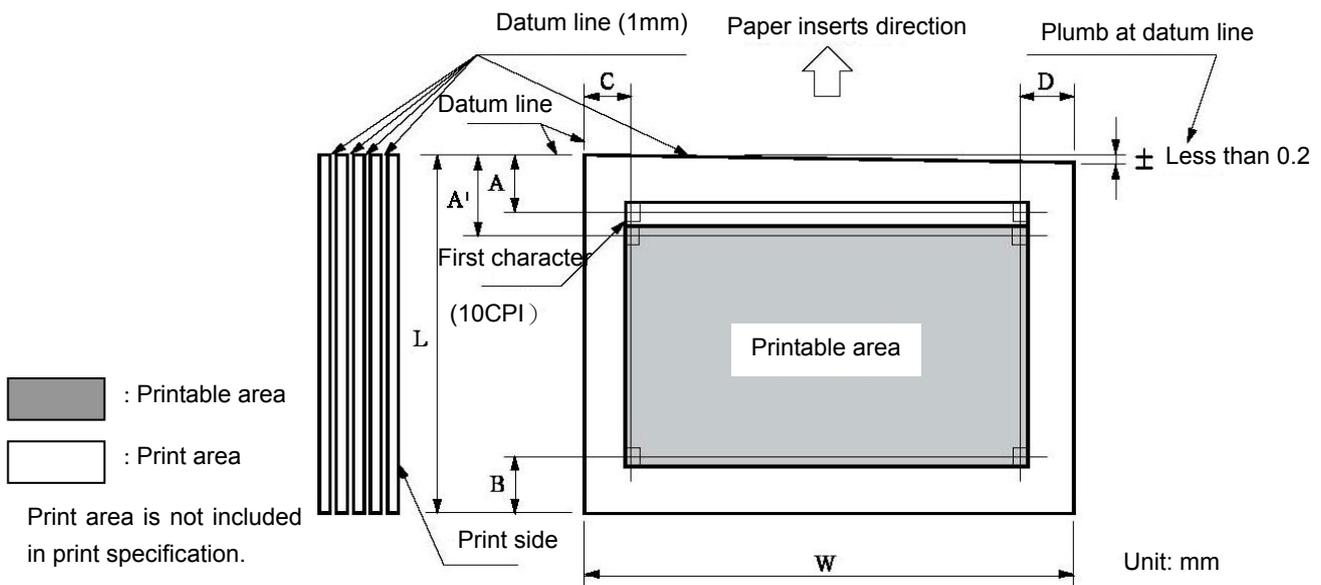
Mark	Name	Specification value
W	Paper width	65 ~ 260 mm
L	Paper length	≥ 55 mm (Note 1)
A	Home position	Change ≥2mm according to setup menu, set base on the unit of 1/60 inch.
A'	Top printing unguaranteed area	2mm
B	Bottom printing unguaranteed area	2mm
C	Left printing unguaranteed area	3.2mm

D	Right printing unguaranteed area	3.2mm, but stop at the 80 th characters when in C value range.
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Caution: 1. Paper less than 45kg (52kg/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 out of the printable area, or it may cause print head break pins and affect print head life.

○ Fanfold paper

Paper size uses B5, B4, and A4 as standard.



Mark	Name	Specification value
W	Paper width	65 ~ 260 mm (2.56~11 inch)
L	Paper length	≥ 55 mm (Note 1)
A	Home position	Change ≥2mm according to setup menu, set base on the unit of 1/60 inch.
A'	Top printing unguaranteed area	2 mm
B	Bottom printing unguaranteed area	2 mm
C	Left printing unguaranteed area	3.2 mm
D	Right printing unguaranteed area	3.2 mm, but stop at the 80 th characters when in C value range.

Caution: 1. Please use paper with no crease or bend.
 2. Please sizing the top at the paper feed direction.
 3. Paper with binding holes please refer to the binding hole specification.

◆ About paper quality

Use the following papers

Type	Paper quality
Single-ply paper	White high-quality paper
Fanfold paper	Pressure sensitive paper, inner fanfold paper

◆ The weight of each page of paper and the maximal autotype pages

The weight of each page of paper and the maximal autotype pages are shown below.

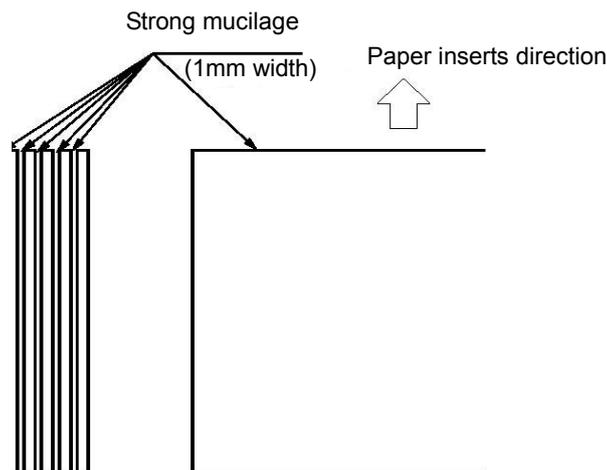
Type	Paper quality	Each page of paper (*1)	Maximal autotype pages	Paper total thickness
Single-ply paper	Good quality paper	45~180kg (52~208g/m ²)	—	—
Fanfold paper	Pressure sensitive paper and inner fanfold paper	Use 34kg (40g/m ²) as standard	7 pages (original+6 pages)	Less than 0.8mm

Caution: Weight of each sheet refers to acreage of 788 * 1091mm, using kg to show the weight of 1000 pages.

◆ About fanfold assembly

○ Fixation method

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



○ Assembly

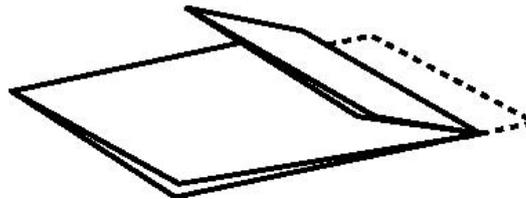
Mount (the bottom paper) can use other thicker paper or same thickness paper. Besides, it also can use the paper weight out of the range in the following table, but the paper feed precision is worse, so it can not being included in the guarantee list.

◆ Related stipulates of puckering, bend and crimp

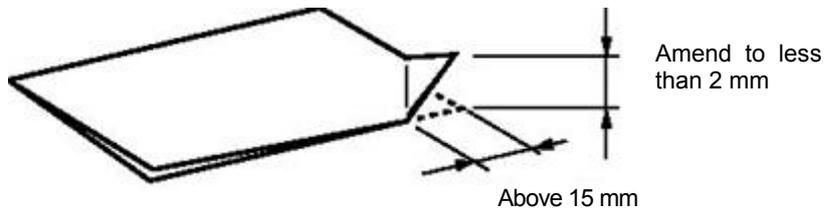
Papers are easy become puckering, bend or crimp after disposal, transit, pile by people and different conditions of storing. These will affect paper feeding. So please use them after correcting according to following stipulates. Please not use the paper which is not up to the specifications, or it may affect paper feed badly. Our company will not guarantee the device and its capability after using the incorrect paper.

○ Pucker (Cut sheet, tractor paper)

- Do not use the papers which pucker whole page.
(Because even after amended, paper intensity have been changed)
- Corner amend should be less than 2 mm.



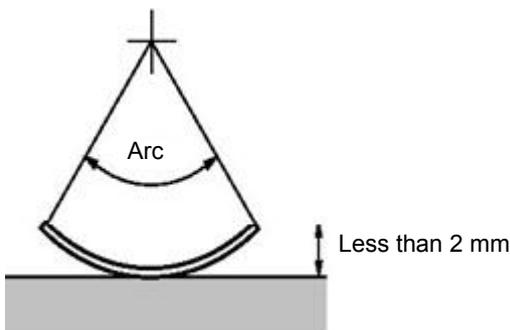
Do not use the papers which pucker whole page.



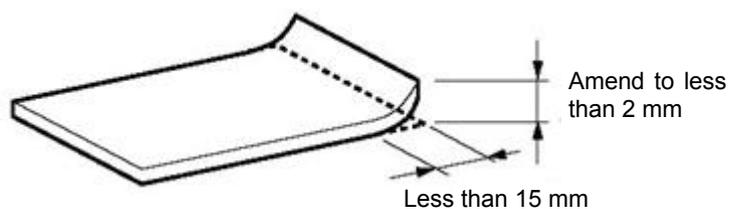
Corner puckering

○ Bend and crimp (cut sheet, tractor paper)

- The paper can be used when the bend of the whole page less than 2 mm.
- The bend starts from the bend point is within 15mm but above 2 mm, paper can not be used.



Bend of whole page



Bend

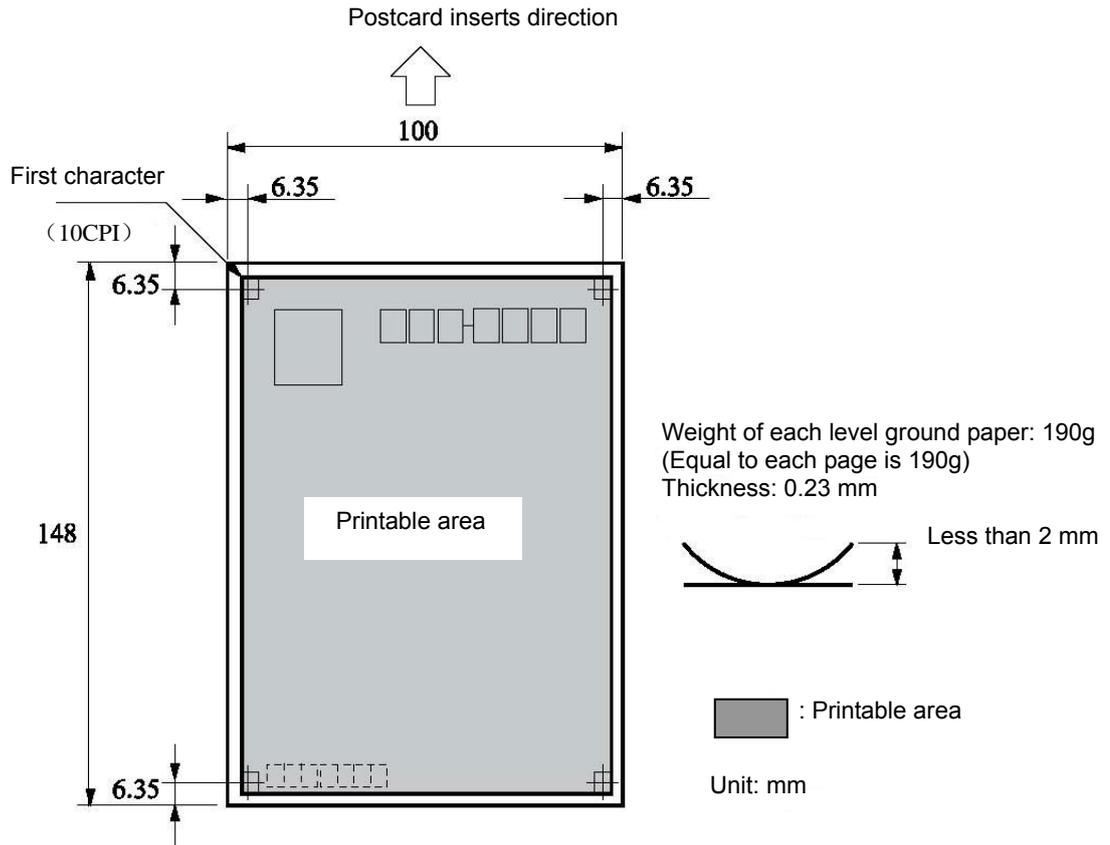
B.5.6 Post Card

- ◆ Paper size and printable area

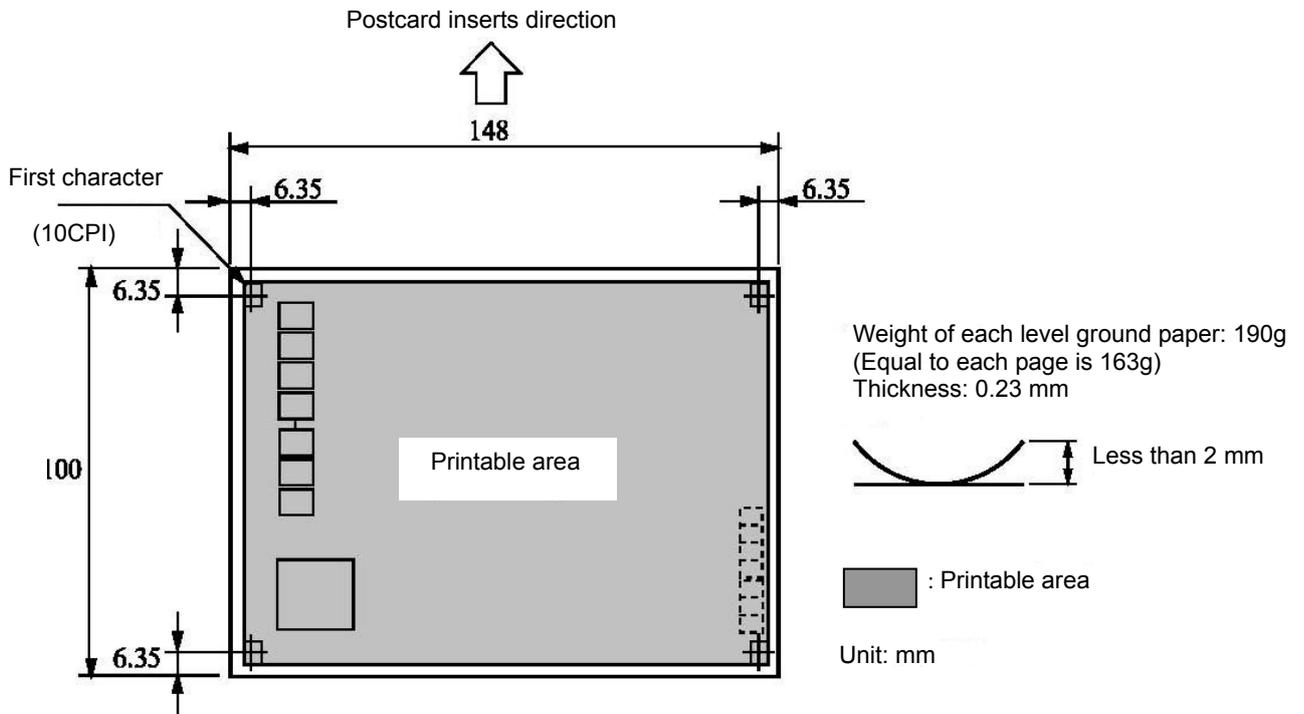
Caution:

- Printing forbid area uses cut sheet as standard.
- Please use no crease or crimp postcard.
- The return postcard can not have crease

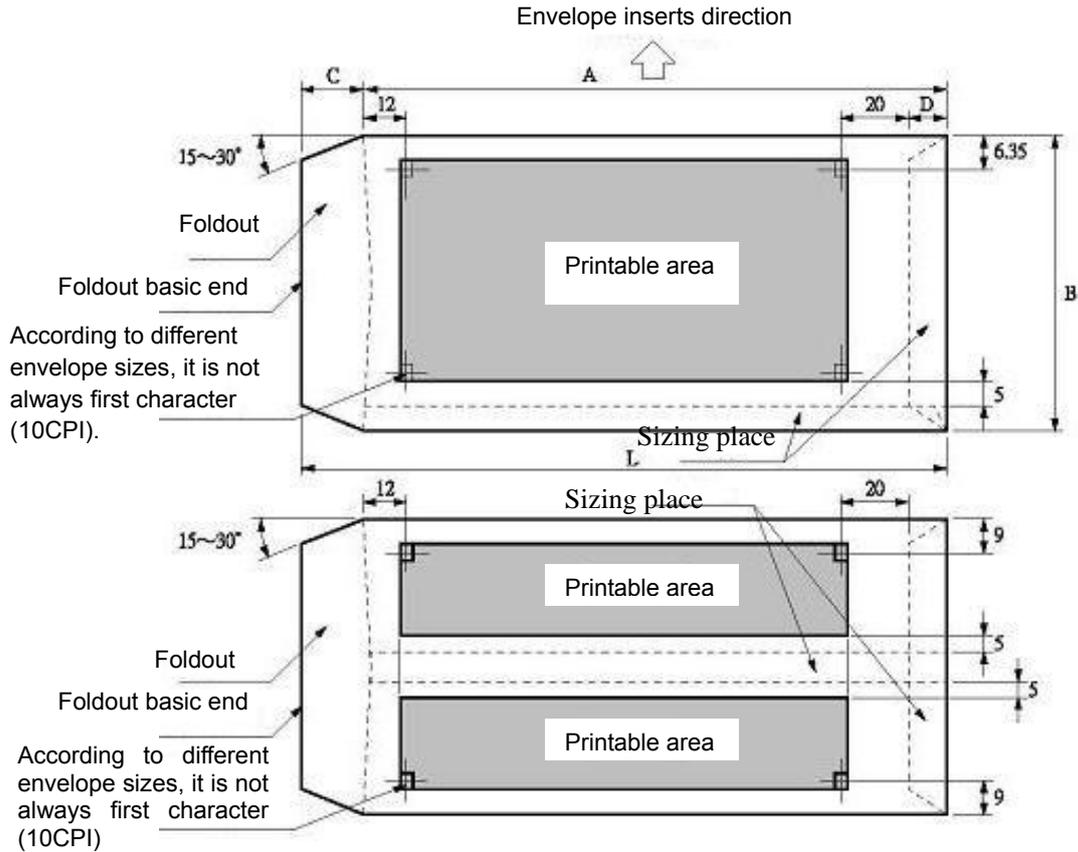
- Normal postcard inserts vertically



- Normal postcard inserts transversely



B.5.7 Envelope



Size Model	A	B	C	D	E
No.4 long canister	205	90	15 ~ 20	8 ~ 20	220 ~ 225

Caution: • Envelope refers to single layer envelope.

- Please set the Paper thickness to Auto or “1+6” model. (You can use the envelope which maximal thickness is 0.8mm.) (See details in Paper thickness adjustment)
- Please use the envelope with foldout basic end.
- Please use the envelope which both front and back are unprinted white (reflectivity is 60%)
- When the top and bottom are sizing, do not print at that area within 5mm in that surface or around.
- When the difference of broken line sunken place and envelope edges is more than 12mm, please print at the right side of broken line.
- Do not use following envelopes
 - The envelopes with holes or those right and left paste to the middle.
 - The envelopes which foldouts pucker together.
 - The envelopes which foldouts have been sizing.
 - Double layer envelopes.
- If you print near envelope sizing place, even though it is included in printable area, the printing still can be polluted cause by sizing place situation (especially when the edges pucker or stick up).

B.5.8 Label

Caution: Please not use label because it is not included in guarantee list. Problems come out when using label, our company will not guarantee the device and capability.

When you have to use label to print, please having enough tests to ensure there is no problem before using it.

Cover a layer of paperboard on the single layer tractor paper, then stick the paper with label (surface base paper), this is label. With the temperature change of label and paperboard, the shrinkage margin may reduce. Therefore, the paper should stick the whole page uniformly and the glutinosity and wear should be good.

◆ Size

According to the size of tractor paper

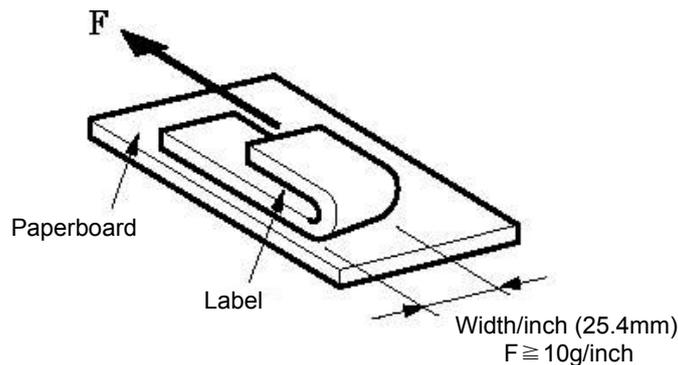
Label size is more than 50mm in transverse direction and more than 25mm in vertical direction.

◆ Paper quality

• Label	Paper quality	Good quality
	Weight of each page paper	55 kg
	Thickness	Less than 0.1 mm
• Paperboard	Paper quality	Released paper
	Thickness	0.06 ~ 0.08 mm

◆ Agglutinant

The viscosity of glue should accord with the peel strength above 10g/inch. Furthermore, when the paper is crimped 180° as a 27 mm diameter cylinder, the label should tight enough and will not peel from the paperboard.



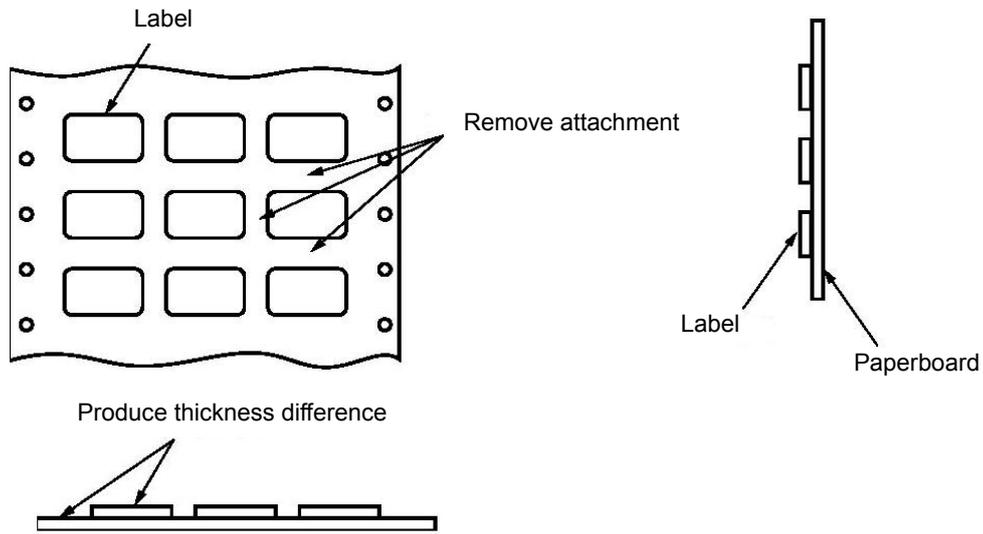
This viscosity is a approximately standard, please use the paper which labels on it will not peel when printing or paper feeding.

◆ About remove label attachment

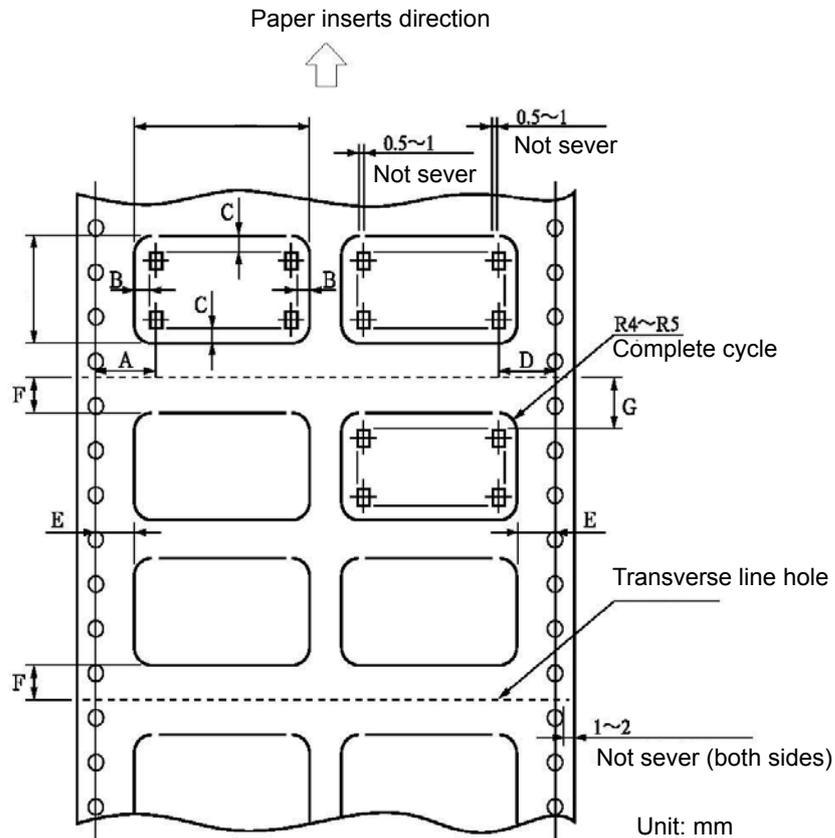
Please not remove label attachment.

(Tearing off labels, please not remove the area out of label (attachment))

See the following Figure, the removal of attachment will lead to thickness margin of label. So do not use it.



- ◆ Please make the label become round corner (R4 ~ R5 mm).
- ◆ Clipping
 - Clipping just bring into effect on label (surface base paper)
 - Clip the label corresponding to the paperboard transverse line, remain a 1-2 mm part in both ends not to clip.
 - Remain a 0.5-1mm part around the right and left corner on the upper part of label.
- ◆ Please not make the agglutinant come out of the surface.
- ◆ Do not use the label which texture is cloth.
- ◆ Label of tractor paper



Size is base on tractor paper size.

A: More than 12.7 mm (1/2 inch)

B: More than 2.54 mm

C: More than 2 mm

D: More than 12.7 mm (1/2 inch)

E: More than 6.35 mm (1/4 inch)

F: More than 6.35 mm (1/4 inch) (more than 12.7 mm as standard)

G: More than 8.46 mm (1/3inch) (The guarantee range of line feed precision is more than 25.4 mm)

Caution:

- **Should use good quality label and paperboard.**
- **Use the label which is not easy to peel from the paperboard. Besides, use the paper which labels are not easy to peel when printing and paper feeding.**
- **The paperboard of label should be soft.**
- **The total thickness of label and paperboard should less than 0.2 mm. But both the thicknesses of label and paperboard should less than 0.1 mm.**
- **Please not remove the label attachment.**
- **Please use the no corner side as the paper inserts direction.**
- **Clipping**
 - **Clipping just bring into effect on label (surface base paper)**
 - **Clip the label corresponding to the paperboard transverse line, remain a 1-2 mm part in both ends not to clip.**
 - **Remain a 0.5-1 mm part around the right and left corner on the upper part of label.**

B.5.9 Delivery Order Form

The paper size and printable area are depending on the specifications of tractor paper and cut sheet paper. The delivery bill here refers to the fanfold of 5p ~13p and the bill of 0.3 ~ 0.78 mm. Besides, due to affect by paper thickness and inner sheet quality (thickness etc.), the copy capacity and printing precision are not included in the guarantee range. In addition, please not use the bill which is odds in thickness to avoid printing polluted or printing slant.

B.5.10 Reborn Paper

- Due to the reborn papers are easily produce paper powder, please reduce the cleaning periods.
- Due to the reborn papers are easily affected by humidity, please do not use them where humidity is high.

Jolimark