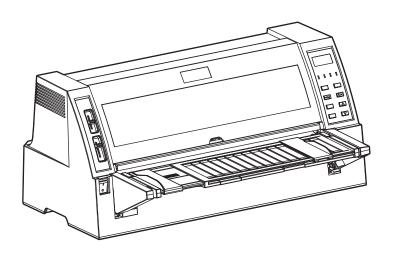
User's Manual ACCEL-7450



Declare

- * EPSON is a registered trademark of Seiko Epson Corporation.
- * ESC/P-K2 is a registered trademark of Seiko Epson Corporation.
- * OKI is a registered trademark of Oki Data Corporation.
- * OKI 5530SC is a registered trademark of Oki Data Corporation.
- * IBM is a registered trademark of International Business Machines Corporation.
- * IBM 2391 is a registered trademark of International Business Machines Corporation.
- * Windows is a registered trademark of Microsoft Corporation.

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 tractor when install the tractor paper.
- 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.

FCC NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -- Reorient or relocate the receiving antenna
- -- Increase the separation between the equipment and receiver.
- -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

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 Function Chracteristic

- Flatbed Paper-feed Mechanism
- Paper type and paper thickness are selectable: It can print with cut sheet and tractor paper (1~7 copies) of different thicknesses.
- Paper feed way is adjustable: Manual feeding way can be chose when using cut sheet to print; Tractor feeding way can be chose when using tractor paper to print.
- Automatic functions of paper thickness detection, paper skew detection, paper edge detection and paper out detection.
- The printer supports the EPSON, OKI and IBM emulation as standard.
- The printer can be configured with parallel interface, USB interface, Ethernet interface or serial interface.
- Contain 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, NW-7.

Chapter 2 Preparation

2.1 Unpacking & Checking

Check each item against the following packing list, if any of these items are missing, please contact your dealer.

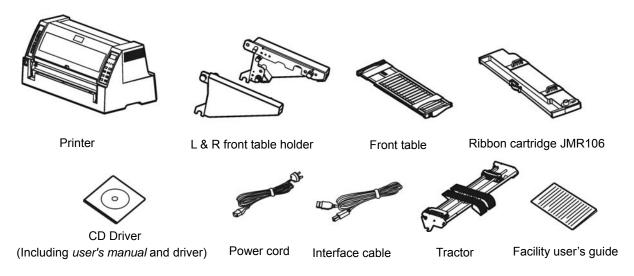


Figure 2-1 Packing list in the printer box

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

2.2 Dismantling Protective Materials

- 1. Open the packing box, lift up the printer, and remove the packing materials.
- 2. Save all the original packing materials, so that they can be used when transport the printer.

2.3 Parts Identification

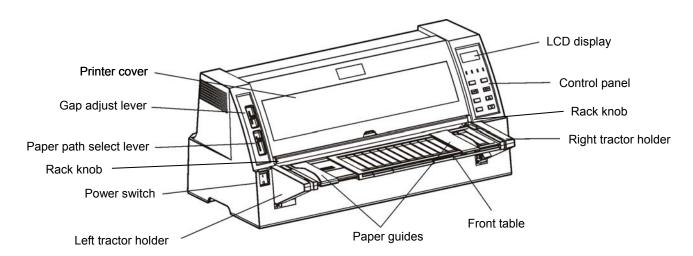


Figure 2-2 Main parts of printer (front view)

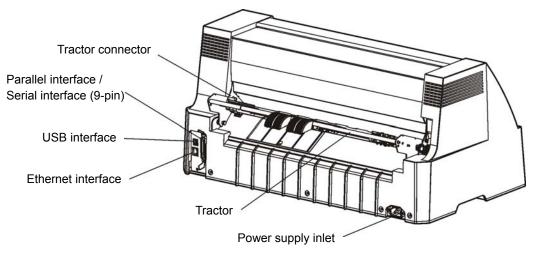


Figure 2-3 Main parts of printer (rear view)

★ According to specific interface standards

Note: This product supports the configuration way of parallel interface + serial interface

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 there 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.

2.5 Installing the Ribbon Cartridge

- 1. Make sure the printer is turned off.
- 2. Open the printer cover, move the print head to the left of the printer. (As shown in the following figure)

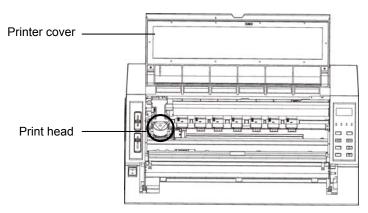


Figure 2-4 Move the print haed to the left

3. Turn the ribbon knob in the direction of the arrow to remove any slack from the ribbon so it is easier to install. (As shown below)

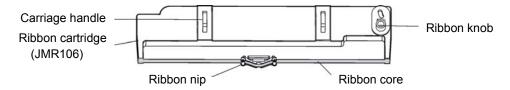


Figure 2-5 Ribbon cartridge

4. Hold the carriage handle and fit the ribbon cartridge into the ribbon cartridge position, then push it into place. (As shown below)

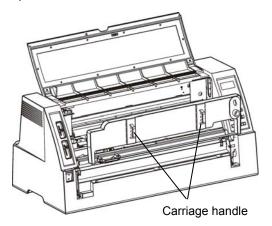


Figure 2-6 Installing the ribbon cartridge

5. Aim the two round holes on the ribbon nip at the two guide poles of the carriage, then press them into place. (As shown below)

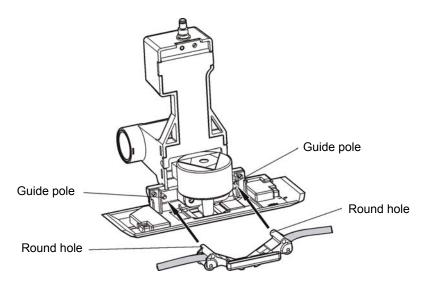


Figure 2-7 Install the ribbon nip to the carriage

- 6. 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.
- 7. After installing the ribbon cartridge (as shown below), please close the printer cover.

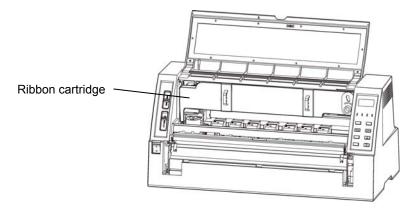


Figure 2-8 Install the ribbon cartridge

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 damage.

- 2. To remove the old ribbon cartridge, first make sure the power is turned off, move the print head to the left of the printer. Then pull out the ribbon nip, hold the ribbon cartridge handle on both sides and lift it out of the printer forwards. Install a new one as the above steps.
- 3. 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.
- 4. Please use the original JMR106 ribbon cartridge, our company will not guarantee to keep the printer in good repair, when it is damaged by unauthorized ribbon cartridge.

2.6 Installing and Dismantling the Right and Left Holders

2.6.1 Installing the right and left holders

When installing the holder, firstly, aim the down install groove of the holder at the corresponding positioning shaft on the printer, then rotate it upwards and make the upper install groove install into place. (As shown below)

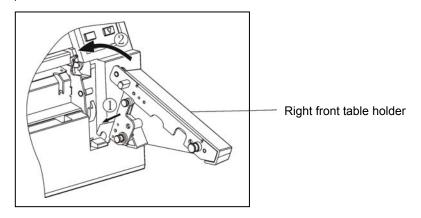


Figure 2-9 Install the right front table holder

2.6.2 Dismantling the right and left holders

When dismantling the holder, firstly, pull the draw knob upwards then press the holder downwards, the holder will be dismantled. (As shown below)

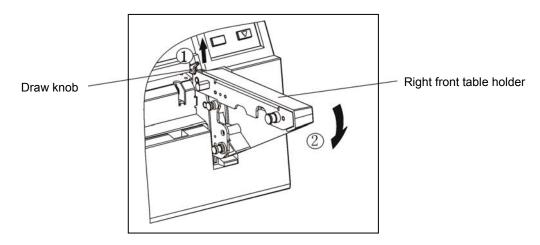


Figure 2-10 Dismantle the right front table holder

Note: Please operate refer to the sketch map of Dismantle the holder when you are dismantling the holders: Firstly, pull the draw knob upwards then press the holder downwards, the holder will be dismantled.

2.7 Installing and Dismantling the Front Table

2.7.1 Installing the front table

Firstly, hold the front of the front table vertically down, aim the right and left install grooves at the positioning shafts on the right and left holders, then press them down and fit them into place, at last, rotate the front table outwards and press it into place.

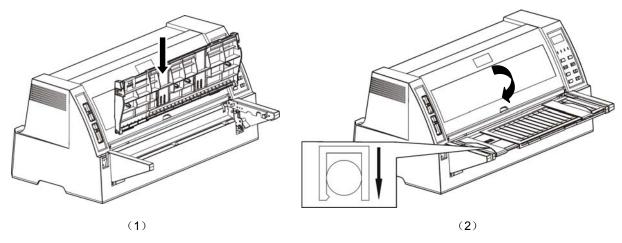


Figure 2-11 Install the front table

2.7.2 Dismantling the front table

Hold the right and left holders with your hands, pull it up with your thumbs on both sides of the front table, then rotate it upwards until it becomes vertically, at last lift it up.

2.8 Installing the Tractor

Note: If only use the cut sheet, you don't need to install the tractor.

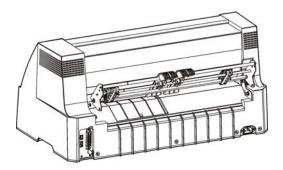


Figure 2-12 Start to install tractor

- 1. Insert the connect cable of the tractor into the connector on the printer.
- 2. Aim the install grooves on both sides of the tractor at the positioning shaft on right and left wallboards of the printer, then push them into place and low them backwards.

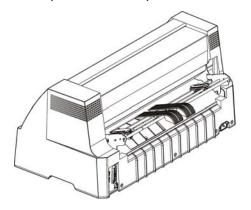


Figure 2-13 Install the tractor

2.9 Connecting to the Printer

Your printer can be configured with parallel interface, USB interface, serial interface or Ethernet interface, (according to the specific interface standards). Connect the printer to your computer as described below. As Figure 2-14, 2-15, 2-16 and 2-17 show.

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

2.9.1 Connecting to the Parallel Interface

- 1. Turn off both the computer and the printer. Plug the parallel 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. As shown in Figure 2-14.
- 2. Plug the other end of the cable into the computer's parallel interface; then tighten the screws on both sides of the connector, make sure it is tight to the interface.

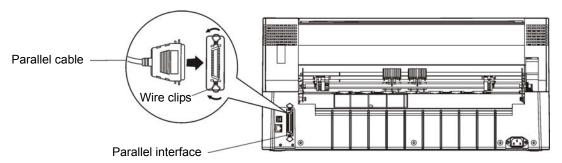


Figure 2-14 Connect to the parallel interface

2.9.2 Connecting to the USB Interface

- 1. Plug the USB cable A end (flat shape) into the computer's USB interface. As shown in Figure 2-13.
- 2. Plug the USB cable B end (square shape) into the printer's USB interface.

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

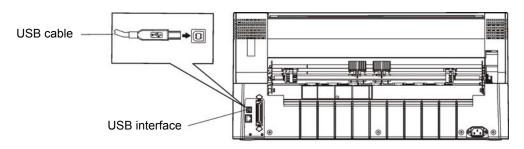


Figure 2-15 Connect to the USB interface

2.9.3 Connecting to the Ethernet Interface

Plug the RJ-45 crystal plug of the Ethernet cable into the printer, and plug the other plug into the LAN. As shown in Figure 2-16.

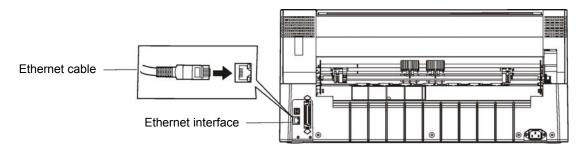


Figure 2-16 Connect to Ethernet interface

Note: The details of Ethernet interface printer's net setting please refer to the User's Manual.

2.9.4 Connecting to the Serial Interface

- 1. Turn off both the computer and the printer. Plug the serial cable connector securely into the printer's serial interface. Then tighten the screws on both sides of the connector. As shown in Figure 2-17 or Figure 2-18.
- 2. Plug the other end of the cable into the computer's serial interface; then tighten the screws on both sides of the connector, and make sure it is tight to the interface.

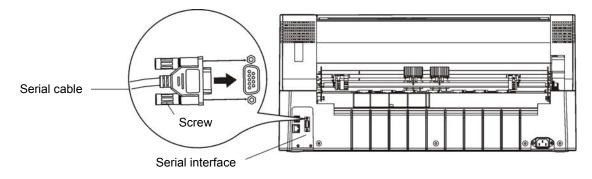


Figure 2-17 Connect to the serial interface (9-pin)

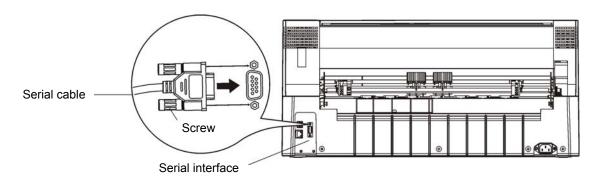


Figure 2-18 Connect to the serial interface (25 -pin)

2.10 Connecting to the Power Source

- 1. As shown in Figure 2-19. 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. If the power cord is attached to the printer, connect it to the AC inlet on the printer.
- 4. Plug the power cord into a properly grounded electrical outlet.

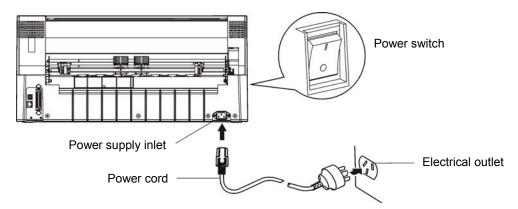


Figure 2-19 Connect the power cord to the printer

- To turn the printer ON, press the I mark at the side of the power switch.
- To turn the printer OFF, press the **O** mark at the side of the power switch.

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

2. Use the electrical outlet connecting the ground properly.

Note: After turn off the printer, you should wait more than 3 seconds before you restart the printer. Or it may lead to initialization error.

2.11 Installing Driver

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

2.11.1 Auto-install way

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

Note: The auto-install way just runs in the operation system of Windows 2000 or above.

2.11.2 Hand-operated install way

The installing steps for Windows 2000/XP/Vista are as follows

- 1. Click "Start" → "Settings", select "Printers".
- Click "Add Printer", then it will show 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. Come out a window of "Select the Printer Port", select a usable port. Such as, select "LPT1: printer port", click "Next".
- 4. Come out a window of "Manufacturers/Printers", click "Have Disk..." ".
- 5. 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 follow: CD-ROM-"Driver"-" WIN2000 (XP-Vista-Win7)", that you can find a file named: 7450.inf, click "Open", then click "OK", click "Next".
- 6. Follow the direct click "Next" gradually till the installation is finished.

The installing steps for Windows 7 are as follows:

- 1. Click "Start" → "Devices and Printers".
- 2. Click "Add a printer", then it will show a window of "Add Printer", click "Add a local printer", and then click "Next".
- 3. Come out a window of "Choose a printer port", select "Use an existing port", Such as, select "LPT1: Printer Port", click "Next".
- 4. Come out a window of "Manufacturers/Printers", click "Have Disk...".
- 5. Come out a window of "Install From Disk". Please according to the operating system environment, such as Windows 7 operating system you should select the path as follow: CD-ROM-"Driver"-"WIN2000 (XP-Vista-Win7)", where you can find a file named: 7450.inf, click "Open", then click "OK" to return to the window of "Manufacturers/Printers", click "Next".

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

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

- 1. Connect an USB cable and turn on the printer.
- 2. After the computer find out new hardware and finish searching, come out a window of "Found New Hardware Wizard", choose "Install from a list or specific location (Advanced), click "Next".
- 3. Come out a window of "Add New Hardware Wizard" -"Windows operation", choose "Don't search, I will choose the driver to install", click "Next".
- 4. Come out a window of "Hardware Type", select "Printer", click "Next". Come out a window of "Manufacturers/Printers", click "Have Disk...".
- 5. Come out a window of "Install From Disk". 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: 7450.inf, click "Open", then click "OK" to return to the window of "Add printer wizard". click "Next".
- 6. Follow the direct click "Next" gradually till the installation is finished.

The installing steps for Windows 98 are as follows:

- (1) The installing steps with a parallel cable or a serial cable:
 - 1. Click "Start" \rightarrow "Settings" \rightarrow "Printers".
- 2. Click "Add Printer", then it will show 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. Come out a window of "Click the manufacturer and model of your printer", click "Have Disk...", please click "Browse", select the path as follow: CD-ROM-"Driver"-"WIN98 (WINME)", where you can find a file named: 7450.inf, click "Open", then click "OK".
- 4. Come out a window of "Install From Disk", click "OK", return to a window of "Add Printer", then click "Next".
- 5. Come out a window of "Printer port", 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". Come out a window of "Printer test page completed!", 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 find out new hardware and finish searching, come out a window of "Add New Hardware Wizard", click "Next".
- 3. Come out a window of "Add New Hardware Wizard"-"Windows operation", choose "Search the best driver for the device (recommended)", click "Next".
- 4. Come out a window of "Search for new drivers", 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"; Come out a window of "Windows driver file search for the device", click "Next".
- 6. After the system finishing installing the file automatically, come out a window of "USB print supported, 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 it will show a window of "Add Printer Wizard", click "Next".
- 3. Come out a window of "Click the manufacturer and model of your printer", click "Have Disk...", please click "Browse", select the path as follow: CD-ROM-"Driver"-"WIN98 (WINME) ", where you can find a file named: 7450.inf "Open", and then click "OK".
- 4. Come out a window of "Install From Disk", click "OK", return to a window of "Add Printer", then click "Next".
- 5. Come out a window of "Printer port", 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". Come out a window of "Printer test page completed!", click "Yes".
- 6. The printer driver process is installed successfully.

2.12 Network Settings

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

2.12.1 Connecting Printer

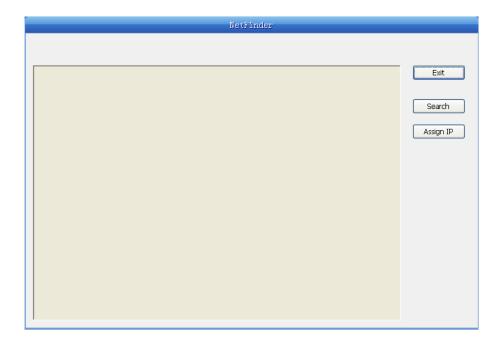
Power on the printer, connect with the Ethernet cable which has been connected to LAN, and look into the information of Ethernet LED indicator to ensure the printer has entered into the normal connection.

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

2.12.2 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:

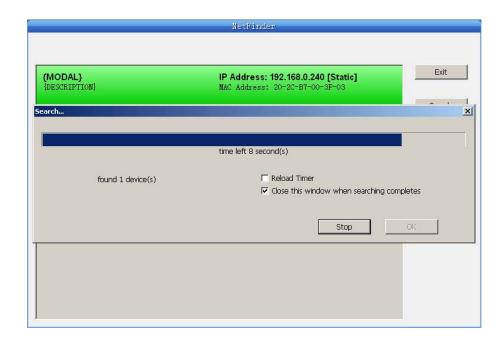
Exit—Exit from the software

Search—Search printers in the same LAN

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

2. Search printer

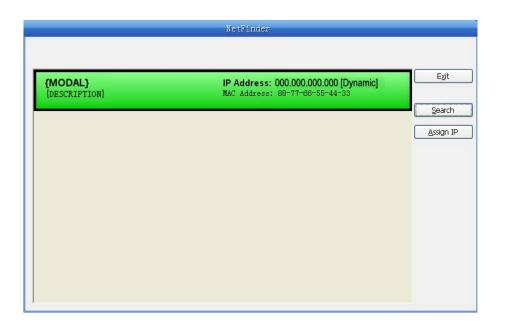
Click "Search" button in the main interface, the dialog box appearing will begin searching automatically and show appearance, listing a printer in the main interface if found. The time is counting down in the progress bar (10s in total) and the search will finish as soon as the time is over. When going 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.



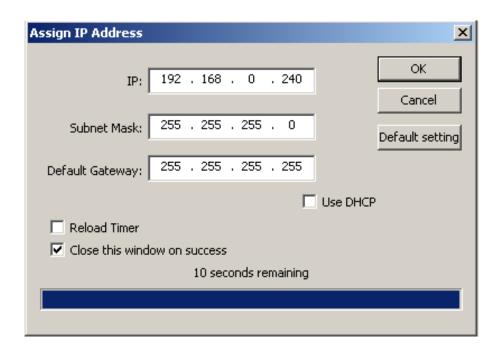
1) Correlative description for IP address settings

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)".

2.12.3 Installing Printer Network Driver

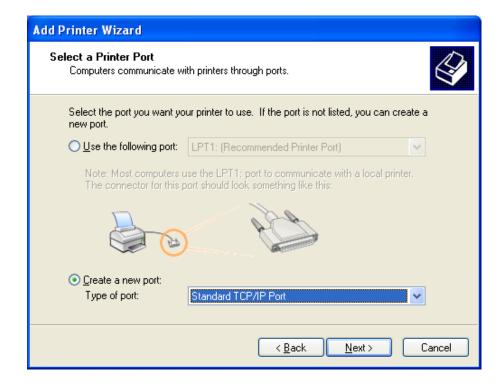
The ways of installing network driver are divided into Newly-install way and Upgrade-install way according to whether the PC installs the printer driver or not.

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".

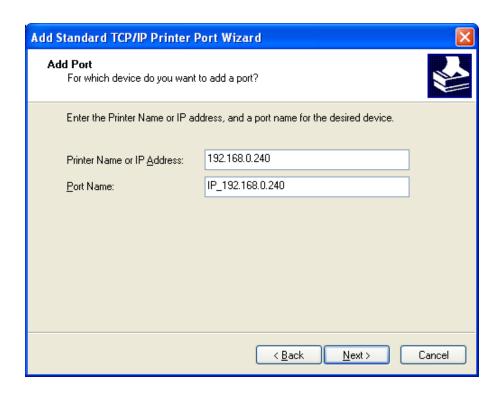
If the printer driver has been installed on the PC, adopt Upgrade-install way whose steps are shown in "Upgrade-install printer network driver".

1. Newly-install printer network driver

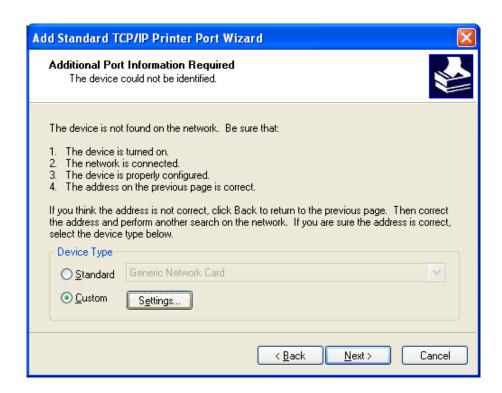
- 1) Click "Start" → "Settings", select "Printers".
- 2) Click "Add printer", then come out a window of "Add Printer Wizard", click "next".
- 3) Come out a window of "Add Printer Wizard", then please read the select direct carefully. Such as, select "local or Network Printer", then click "next".
- 4) 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".



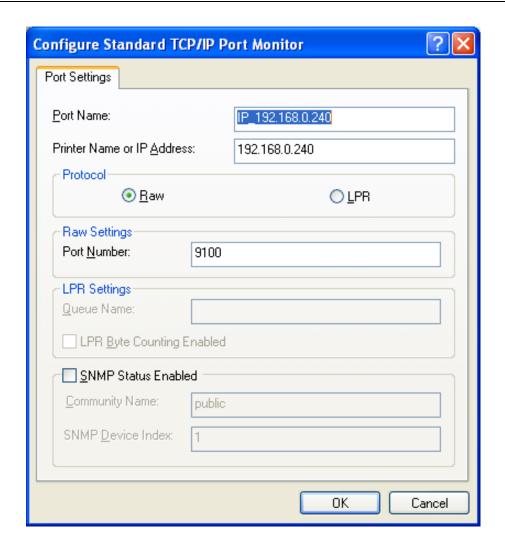
- 5) Come out a window of "Add standard TCP/IP Printer Port Wizard", click "Next".
- 6) Come out a window of "Add Port", enter the IP address reported by the "Setting printer's IP address" in the "Printer Name or IP Address" column. Take IP address "192.168.0.240" for example. "Port Name" is created 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".

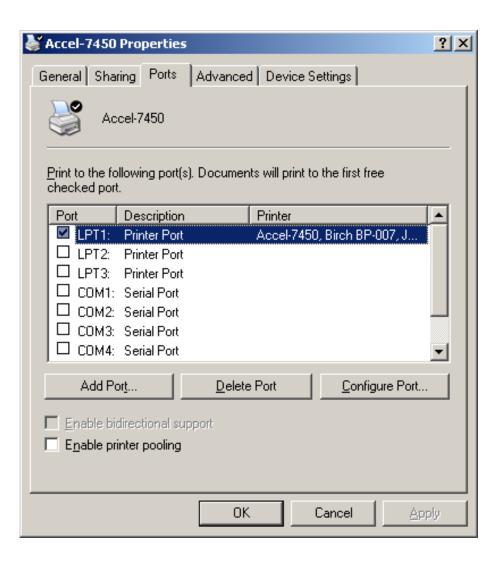


- 9) Return to "Additional Port Information Required", click "Next".
- 10) Come out a window of "Completing the Add Standard TCP/IP Printer Port Wizard", click "Finish".
- 11) In the selection of "Manufacturers/Printers", click "Have Disk", and then click "Next".
- 12) Come out a window of "Install From 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: 7450.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.

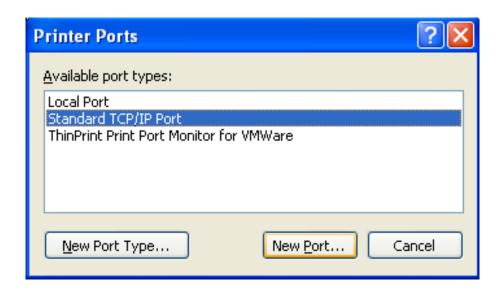
2. Upgrade-install printer network driver (setting driver's network port)

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 ACCEL-7450 Printer driver, click "Properties" on the window coming out.
- 3) Come out a window of "Properties", click "Ports" and "Add Ports".

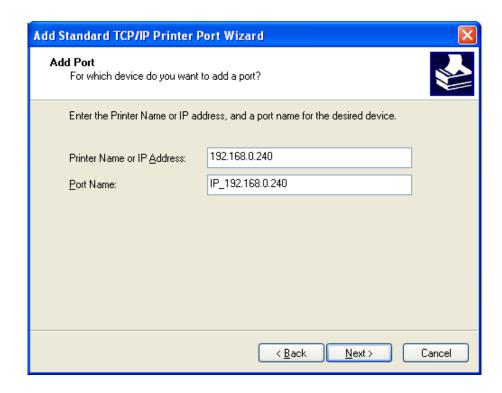


4) Come out a window of "Printer port", select "Standard TCP/IP Port", click "New port".

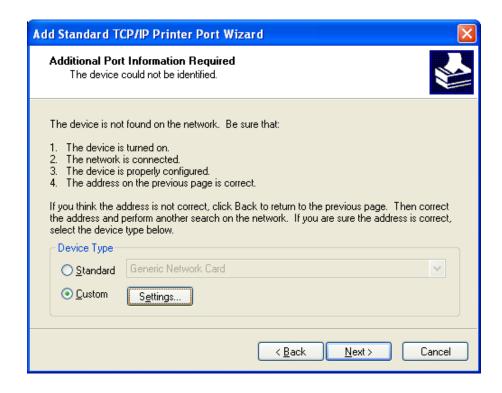


- 5) Come out a window of "Add Standard TCP/IP Printer Port Wizard", click "Next".
- 6) Come out a window of "Add a port", import the IP address reported by the "Setting printer's IP address" in the "Printer name or IP address" column. Take IP address "192.168.0.240" for example.

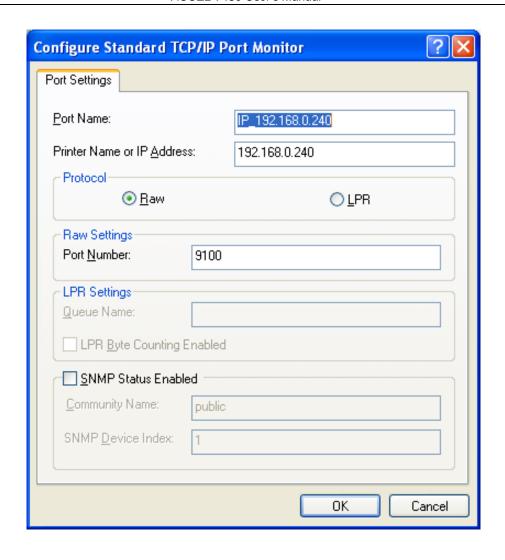
"Port name" is created automatically after finishing filling in IP address. Click "Next".



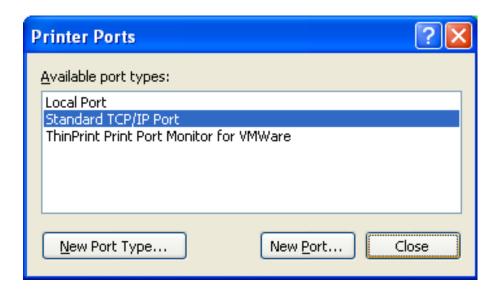
7) Come out a window of "Additional Port Information Required", select "Custom" in the "Device Type", then click "settings".



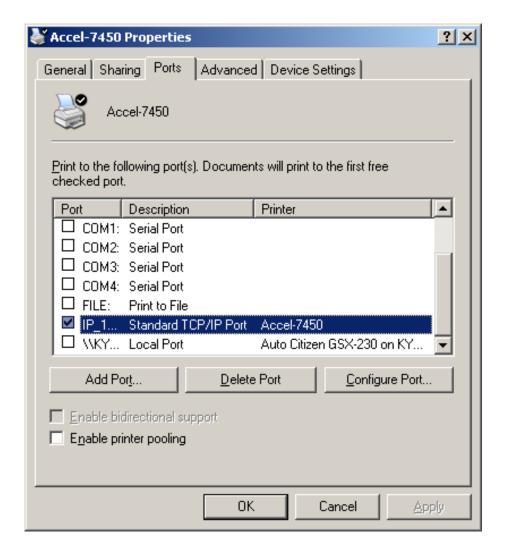
8) Come out a window of "Port Settings". Affirm that "Port name" and "Printer name or IP address" are correct, "Protocol" is "RAW" and "Port Number" is "9100", click "OK".



- 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.

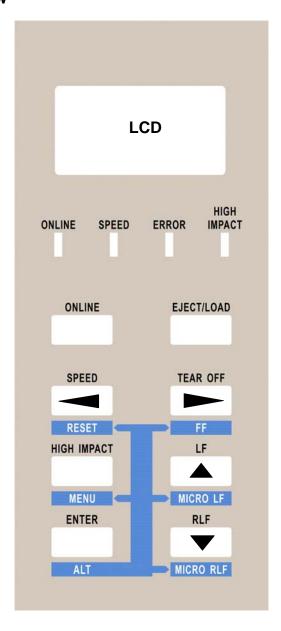


Chapter 3 Control Panel

3.1 Control Panel

The liquid crystal display (LCD) on the control panel displays the processing conditions of the printer and the setting of the functions. The keys on the control panel provide various functions.

3.1.1 Control Panel View



3.1.2 Function Keys

No.	Function key	Function descriptiom		
1	ONLINE ONLINE	Press ONLINE key to switch between ONLINE mode and OFFLINE mode.		
2	RESET ENTER SPEED + RESET	Press the ALT+RESET key, then "INITIALIZING" is displayed on the LCD, and then the printer restarts and initializes which will clean the printing buffer. (Each time 64K) Note: Both Online and Offline are OK.		

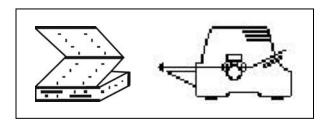
	SPEED SPEED	1. In OFFLINE mode, press SPEED key once can display the current speed on the LCD, press this key one more time will change the speed in turn, lossen the key to choose the shown print speed. As
3	RESET	shown below. LQ NORMAL HIGH 2 HIGH 1 2. In the Menu Setup Mode, press SPEED to exit the submenu.
	HIGH IMPACT	Press HIGH IMPACT key, current copy state will be shown on the
4	HIGH IMPACT MENU	LCD, press this key once more can change the copy state in turn lossen the key to choose the shown print consistence, as shown below: ON OFF
		2. In the Menu Setup Mode , press HIGH IMPACT key to exit the setting.
5	MENU HIGH IMPACT ENTER HENU ALT	Press ALT and HIGH IMPACT keys at the same time to enter Menu Setup Mode. Note: Both Online and Offline are OK.
6	ENTER ENTER ALT	In the Menu Setup Mode, press ENTER key to confirm and save the settings.
7	ALT ENTER ALT	The following functions are executed by pressing the corresponding key while you press the ALT key. $ALT + LF \rightarrow MICRO \ LF$ $ALT + RLF \rightarrow MICRO \ RLF$ $ALT + HIGH \ IMPACT \rightarrow MENU \ SETUP$ $ALT + SPEED \rightarrow RESET \ (Initialize \ the \ printer, \ clean \ the \ printing \ buffer.$ $Note: \ It \ should \ be \ long \ pressed.)$ $ALT + TEAR \ OFF \rightarrow FF$
8	EJECT/LOAD EJECT/LOAD	 In tractor paper mode, if there is no paper in the printing home position, press this EJECT/LOAD key to feed paper; If there is paper in the printing home position, press this key can eject the paper to parking position. In manual paper feed mode, if there is no paper in the printing home position, EJECT/LOAD key is invalid; If there is paper in the printing home position, press this key can eject the paper.
9	TEAR OFF TEAR OFF FF	 When the paper is in the printing home position, press TEAR OFF key, the printer will feed paper to tear off position automatically (Only for tractor paper), press this key once more, the printer will feed the paper back to the printing home position. In the Menu Setup Mode, press TEAR OFF key to enter submenu.

10	LF LF MICRO LF	 According to the LF pitch of the menu setting, press LF key once will feed paper in forward direction according to the LF pitch. Hold on pressing this key can continuously feed paper in forward direction according to the LF pitch. In the Menu Setup Mode, press LF key to the former page in the menu.
11	MICRO LF ENTER LF ALT MICRO LF	Press these keys can feed the paper in forward direction at a pitch of 1/90 inch. Hold on pressing these keys can feed the paper continuously in forward direction at the pitch of 1/90 inch.
12	RLF RLF MICRO RLF	 According to the LF pitch of the menu setting, press RLF key once will feed paper in reverse direction according to the LF pitch. Hold on pressing this key can continuously feed paper in reverse direction according to the LF pitch. In the Menu Setup Mode, press RLF key to the next page in the menu.
13	MICRO RLF ENTER RLF + W ALT MICRO RLF	Press these keys can feed the paper in reverse direction at a pitch of 1/90 inch. Hold on pressing these keys can feed the paper continuously in reverse direction at the pitch of 1/90 inch.

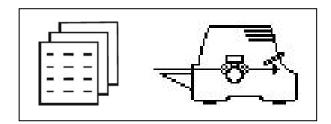
3.1.3 LCD

In standby state, the LCD display shows the current paper feed way and the selected setting mode.

·Tractor fedding mode (For tractor paper)



·Manual feeding mode (For cut sheet)



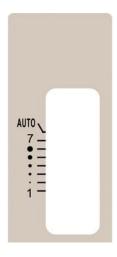
3.1.4 Paper Select Lever

- 1. Select the paper feed way by setting the paper select lever.
- 2. Before change the paper feed way, please eject the paper in the printer (press **EJECT/LOAD** key to eject the paper).

	Position	Paper feeding way		
Manual		***		
Tractor				

3.1.5 Gap adjust lever

This lever is for adjusting the gap between the print head and the paper.



- 1. When the lever is in AUTO position, the printer will measure the paper thickness before printing and then automatically adjust the gap between the print head and the paper.
- 2. If the lever is in the fixed gap between graduations 1-7, the gap between the print head and the paper is fixed.
- 3. Best position can be selected manually to meet the paper thickness as follows.

Graduation 1 is for cut sheet.

Guraduation 7 is for 7-sheet fanfold paper.

3.1.6 Indicator Lights

Indicator light	State Description			
ONLINE (Green)	ON: Printer is in ONLINE mode.			
	OFF: Printer is in OFFLINE mode.			
	BLINK: Printer cover is open or the print head overheating.			
SPEED (Green)	ON: High Density printing mode			
	OFF: Normal speed printing mode			
	BLINK: High (High 1)speed printing mode			
	FAST BLINK: Super high (High 2) speed printing mode			

ON: Printer is paper out or malfunction occurs.	
OFF: No error is detected.	
BLINK: Functional error has occurred	
ON: In copy printing mode.	
OFF: In normal printing mode.	

3.1.7 Shortcut Key Function

Function	Key			
Resume default setting (Initialization 1)	HIGH IMPACT + LF+POWER			
Chinese self-test	LF + ONLINE + POWER			
ASCII self-test	LF + POWER			
H-Dump	SPEED + POWER			
Print out the current menu setting	SPEED + HIGH IMPACT + POWER			
Character H printing mode	① TEAR OFF + POWER			
	Note: Print out one page by manual or tractor.			
	② EJECT/LOAD + TEAR OFF + POWER			
	Note: Continuously print out test paper by manual or tractor.			
Pin testing	HIGH IMPACT+POWER			
Adjusting the printing home	In Online mode, long press ENTER + ONLINE keys.			
position	LF key: Advance			
	RLF key: Backwards			
	ENTER key: Confirm and save			
	HIGH IMPACT key: Give up the setting, just press this key to exit and the printer will restart.			
Adjust the tear off position (For	In Online mode, long press ENTER + TEAR OFF keys.			
tractor paper state)	LF key: Advance			
	RLF key: Backwards			
	ENTER key: Confirm and save			
	HIGH IMPACT key: Give up the setting, just press this key to			
	exit and the printer will restart.			

3.2 How to Use the Functional Setup

Function setup mode is only for this kind of printer. The setup modes enable various printer functions to be set up with the function keys on the operation panel. This section provides the outline of the setup modes and the details of the setup functions.

3.2.1 Menu setup functional key

1) Enter the Menu Setup Mode

ENTER HIGH IMPACT

Press + Keys to enter the Menu Setup Mode.

ALT MENU

2) Mainmenu select key

These keys usually use as changing the shown manu list but not the function setting. In Menu Setup Mode, press or keys can skim over the mainmenu (long press can quickly skim over it).

3) Submain select key (item select key)

Press key to enter submain, press or key can skim over the submain (long press can quickly skim over it).

Before pressing **ENTER** key, you just adjust the shown content not the functional setting.

4) Enter key ENTER
ALT

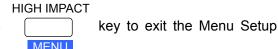
To select the shown menu item, please press **ENTER** key. After press the **ENTER** key, the select item is confirmed and sign with "X" in the back.

5) Exit the submain

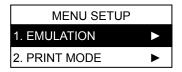
Press key to exit the submain and return to the mainmenu.

6) Exit the Menu Setup Mode

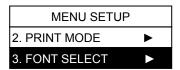
In the mainmenu or submenu setting mode, press Mode.



3.2.2 Setting examples



2) Press ▼ or ▲ key to select the menu item (as shown below).



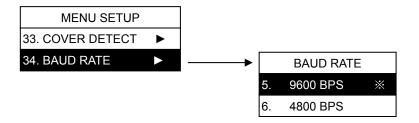
ACCEL-7450 Printer now totally contains 38 menu items (mainmenu):

01	EMULATION	02	PRINT MODE	03	FONT SELECT	04	COMPRESS PRN
05	CHR PITCH	06	CHN PITCH	07	LF PITCH	08	TOF ADJUST
09	PAGE LGTH TR	10	PAGE LGTH MN	11	PAGE WDTH R	12	PAGE WDTH L
13	TOP MRG	14	BOTTOM MRG	15	LEFT MRG	16	TEXT DIR
17	GRAPH DIR	18	ZERO STYLE	19	CHR TABLE E	20	CHR TABLE I
21	INTL FONT	22	CODE PAGE	23	AGM IBM	24	SKEW DETECT
25	JAM DETECT	26	MANUAL EJECT	27	LANGUAGE	28	QUIET MODE
29	CR SETTING	30	LF SETTING	31	TEAR OFF	32	LOAD PAPER

33	COVER DETECT	34	BAUD RATE	35	PARITY BIT	36	DATA LENGTH
37	STOP BIT	38	PROTOCOL				

3) Press (key to enter into submemu.

Such as, select BAUD RATE, press key to enter BAUD RATE and the particular items are shown (as shown below):



The right side of the figure shows the items belong to BAUD RATE, item with "%" sign is the current setting.

4) Press \blacksquare or \blacksquare key can select in the submenu.

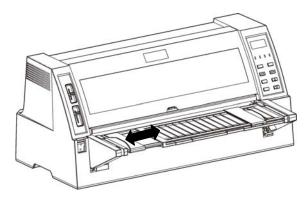
Such as, If need to change the baud rate to "9600 BPS", press ▼ or ▲ key to select the item of "9600 BPS", and then press ENTER key to save the setting. The newly select item will mark with "※" in the back.

5) Press HIGH IMPACT key to exit the MENU SETUP MODE.

Chapter 4 Printer Setting

4.1 Setting up the Manual Mode

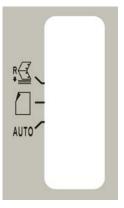
1. Adjust the positions of the right and left paper guides.



Caution: Check whether need to adjust the right paper guide when using wider paper.

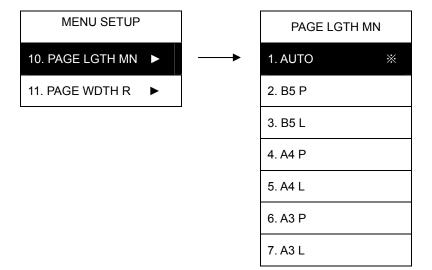
2. Pull the paper select lever to the position of "





3. Set the paper length.

Menu setup mode



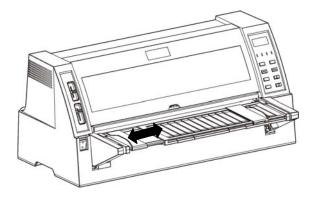
4. After connect the printer with the computer, and then print out the test page.

Caution: As the paper sensor is near to the left of the paper in position, so the paper should be fed in along the left side (the "0" position of ruler) could it be detected.

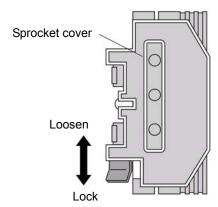
If the paper is skew when feeding paper, the paper skew sensor detects it and puts it right automatically (The Paper skew function in the Menu should be on).

4.2 Setting up the Tractor Mode

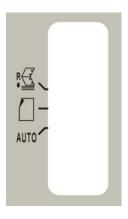
1. Firstly, please ensure the tractor has been installed at the back of the printer, and then adjust the right and left paper guides on the front table to the proper positions.



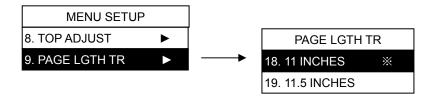
2. Adjust the positions of the tractor right and left sprockets to fulfill the requirement of the paper width. Please lock the tractor after adjustment.



- 3. Open the sprocket cover, aim the tractor paper holes at the sprockets and install it correctly, and then close the sprocket cover.
- 4. Pull the paper select lever to the position of " R "



5. Setting page length.



6. Connect the printer and the computer and then print out test page.

Chapter 5 Menu Function Description

This section is mainly introducing the item functions in the Menu Setup Mode.

5.1 Emulation

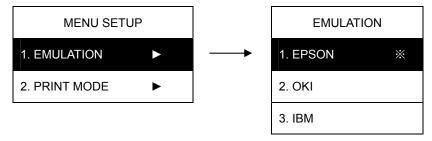
This printer contains three emulations, use the corresponding Driver after selection.

Compatible with EPSON ESC/P-K2

Compatible with OKI 5530SC

Compatible with IBM 2391

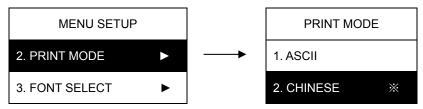
Setting process:



5.2 Print Mode

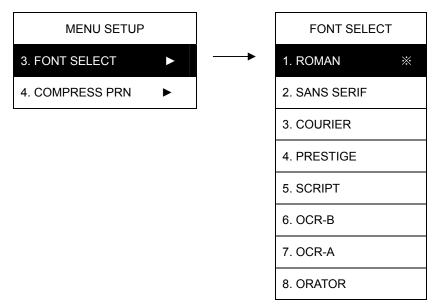
Select ASCII or Chinese printing mode.

Setting process:



5.3 Font Select

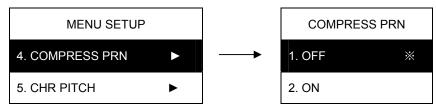
Set the English printing font, there are eight fonts are provided: Roman, Sans Serif, Courier, Prestige, Script, OCR-B, OCR-A, Orator.



5.4 Compress Printing

Select the transverse 75% compress printing function on or off. When the function is on, normal speed, high 1 speed and high 2 speed setting is invalid.

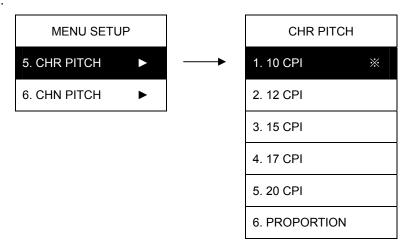
Setting process:



5.5 Characters Pitch

Select the ASCII characters horizontal pitch.

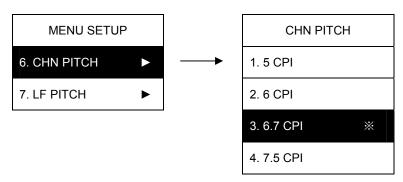
Setting process:



5.6 Chinese Pitch

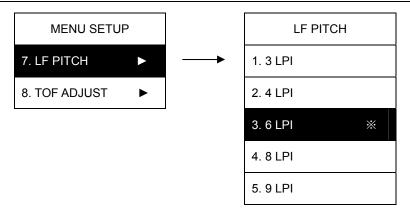
Select the Chinese character horizontal pitch.

Setting process:



5.7 Line Feed Pitch

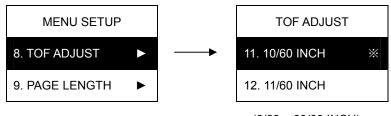
Set the printing characters' line feed pitch which can be 1/3 inch, 1/4 inch, 1/6 inch (initialized value), 1/8 inch or 1/9 inch.



5.8 Top of Form Adjustment

The top of form function is used to set the printing home position. When feeding paper, the printer detects the top edge of the paper and determines the printing home position according to the top of form value.

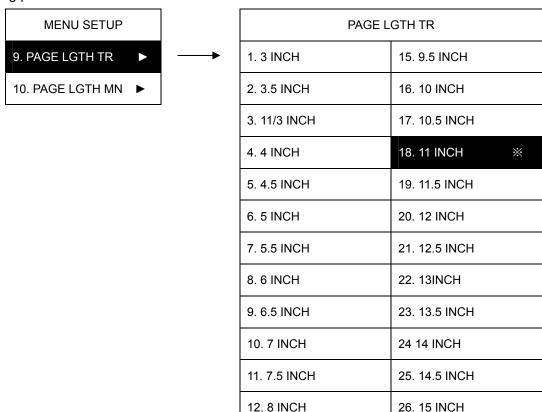
Setting process:



(0/60 ~ 63/60 INCH) Default is 10/60 INCH

5.9 Page Length Tractor

Set the page length on tractor mode.

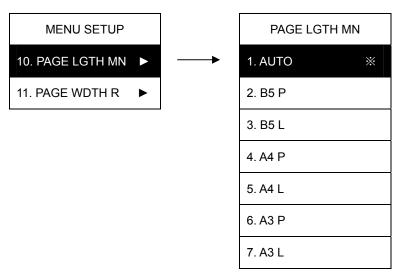


13. 8.5 INCH	27. 15.5 INCH
14. 9 INCH	28. 16 INCH

5.10 Page Length Manual

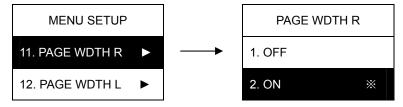
Set the page length on manual mode.

Setting process:



5.11 Page Width Detect Right

This function is the set the detection of the paper right edge ON or OFF. (Manual Feeding Mode) Setting process:

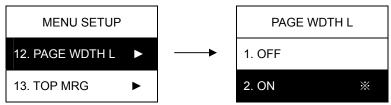


Caution: If this function is OFF, the printer does not detect the right edge of the paper and print one line with 136 characters automatically. Also it may lead to the print contents go beyond the printable are.

If this function is ON, the printer detects the right edge of the paper and prints the characters which go beyond the edge in the next line automatically.

5.12 Page Width Detect Left

This function is the set the detection of the paper left edge ON or OFF. (Manual Feeding Mode) Setting process:



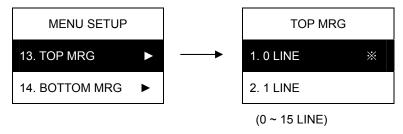
Caution: If this function is OFF, the printer does not detect the left edge of the paper, and it prints from the "0" mark on the ruler.

If thif function is ON, the printer detects the left edge of the paper.

5.13 Top Margin

Set the printing start position (use "line feed pitch" as unit).

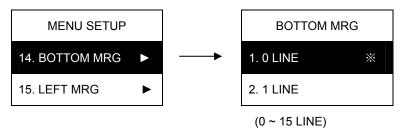
Setting process:



5.14 Bottom Margin

Set the distance between the bottom of the paper printable area and the printing home position of the next page (use "line feed pitch" as unit).

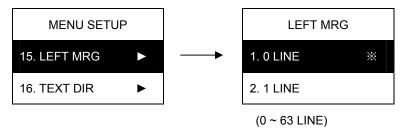
Setting process:



5.15 Left Margin

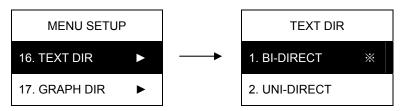
This function is to set the non-printable are in the left side, that is to say the margin from the left paper edge to the leftmost of the printable area.

Setting process:



5.16 Text Direction

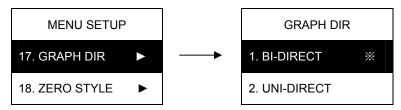
Set the text direction in character printing mode.



5.17 Graph Direction

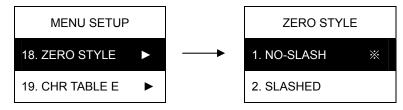
Set the printing direction in graph printing mode.

Setting process:



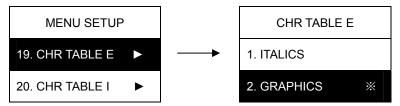
5.18 Zero Style

Select or cancel the printing of a slash (/) through zero to distinguish them from the letter O. Setting process:



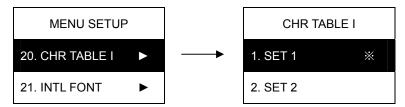
5.19 Character Table EPSON

Set the common used character table when using EPSON emulation, italics and graphics are optional. Setting process:



5.20 Character Table IBM

Set the common used character table when using IBM emulation, set 1 and set 2 are optional. Setting process:



5.21 International Font

Select interior character (only with EPSON compatible). (U.S.A., France, Germany, U.K., Britain, Denmark1, Sweden, Italy, Spain1, Japan, Norway, Denmark 2, Spain2, Latin Am, Korea, LEGAL, Netherland, Turkey)



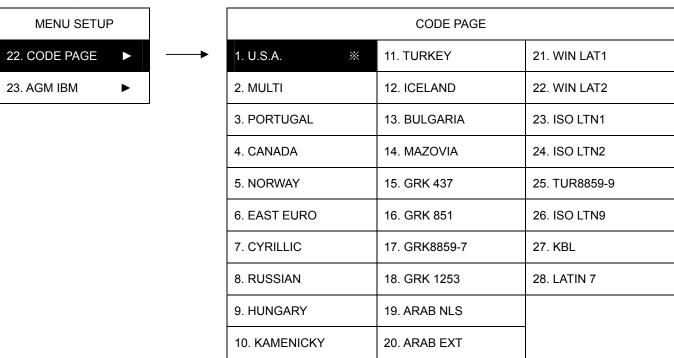
22. CODE PAGE ►

2. FRANCE	11. DENMARK 2
3. GERMANY	12. SPAIN 2
4. U.K.	13. LATIN AM
5. DEMARK 1	14. KOREA
6. SWEDEN	15. LEGAL
7. ITALY	16. NETHERLAND
8. SPAIN 1	17. TURKEY
9. JAPAN	

5.22 Code Page

Select the code page (totally 28 items).

Setting process:

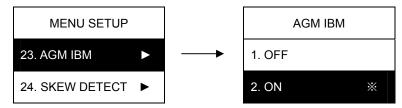


5.23 AGM Mode

When printing high-density graph in IBM emulation, some of its command are similar to the EPSON emulation's. The relative commands are as follow:

	AGM: OFF	AGM: ON
ESC 3 n	Select n/216 inch line space	Select n/180 inch line space
ESC J n	Select n/216 inch line space	Select n/180 inch line space
ESC A n	Select n/72 inch line space	Select n/60 inch line space
ESC * m n1 n2	Not support	May select different graph modes

Setting process:

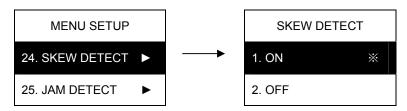


5.24 Paper Skew Detection

Set the Paper Skew Detection off or on which detects if the paper is skew.

If this function is turned on, the printer will put the skew paper right automatically.

Setting process:

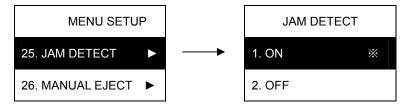


5.25 Jam Detection

This function is to set the paper jam detect function ON or OFF.

If this function is ON, the printer will stop printing when paper jam, and the LCD display will shows "Paper Jam".

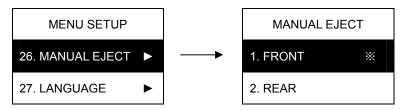
Setting process:



5.26 Manual Eject the Paper

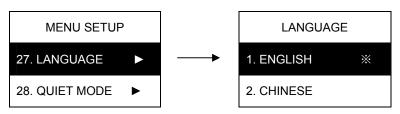
Set the paper eject from front or rear when in the manual paper feed mode.

Setting process:



5.27 Language

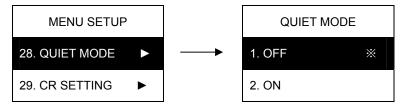
Set the current menu language.



5.28 Quiet Mode

Set the quiet mode on or off.

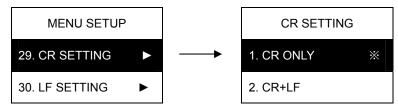
Setting process:



5.29 Carriage Return Setting

Set whether the printer line feed automatically when receives CR command.

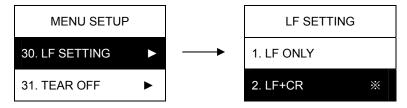
Setting process:



5.30 Line Feed Setting

Set whether the printer automatically carriage return when receives LF command.

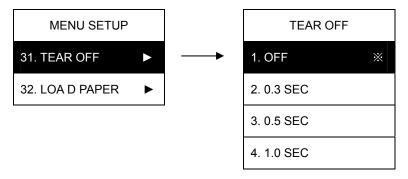
Setting process:



5.31 Tear off Function

When the buffer area has no data, also the printer does not receive new data within the set time, the printer will feed the paper to tear off position automatically.

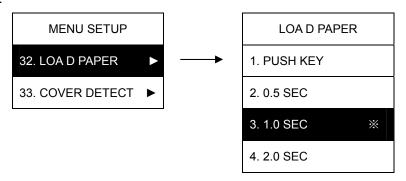
After the printer receives new data, it will automatically feed paper to the printing home position of the next page.



5.32 Load Paper

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 corresponding time the paper feed sensor detects there is paper, the printer will feed the paper automatically. If "PUSH KEY" is selected, press **LOAD/EJECT** key to load paper.

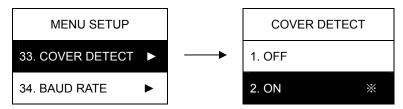
Setting process:



5.33 Cover Detection

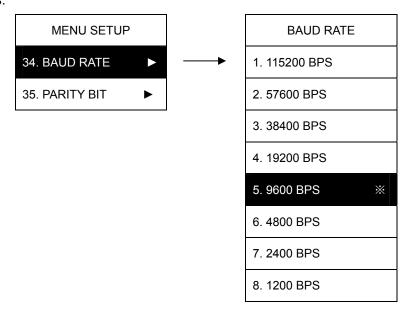
Select the function of cover-open detection ON or OFF.

Setting process:



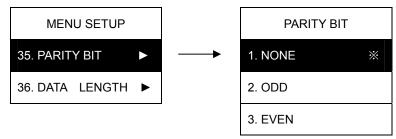
5.34 Baud Rate

Select the serial interface data transport speed.



5.35 Parity Bit

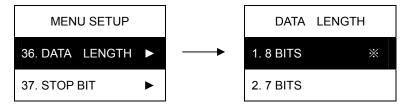
Set the printer serial interface parity checking type. It includes NONE, ODD and EVEN. Setting process:



5.36 Data Length

Select the serial interface data length.

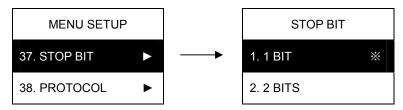
Setting process:



5.37 Stop Bit

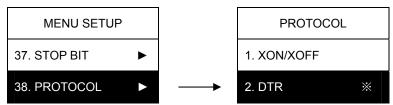
Select the serial interface data transport stop bit.

Setting process:



5.38 Protocol

Set the printer's serial interface as software control (XON/XOFF) or hardware control (DTR). Setting process:

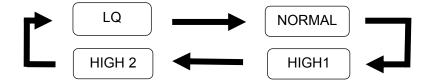


Chapter 6 Troubleshooting

6.1 How to Solve the Problem

1. Printing speed is slow.

Press **SPEED** key and select Speed Mode.



LQ speed is slowest while the print quality is best; HIGH 2 (Super high speed) is fastest while the print quality is worst. The printing speed and the print quality are related in inverse ratio.

2. Printing is light.

Check the condition of ribbon cartridge.

—— If the surface of fabric becomes whitish, replace the cartridge with a new one.

The gap adjust lever may be in the unproper position.

—— The gap adjust lever may be in the uncorrect position. Please adjust the gap adjust lever.

When using multiple sheet paper.

— Select copy printing mode: press **HIGH IMPACT** key on the control panel, select the copy item is on.

3. Paper jam.

The gap adjust lever may be in unproper position.

—— The gap adjust lever may be in the uncorrect position. Please adjust the gap adjust lever.

Tractor paper mode

— Check whether there is paper or dust on the paper jam senso which is on the tractor. If there is, please clean it out.

4. Paper skew occurs thought paper is right install when loading.

Check if there is any black dirty thing on the paper.

—— Turn the Paper Skew function off in the Menu Setup Mode.

5. The paper feed sensor can not detect the unproper position of the paper or the printing home position.

The paper feed sensor or the paper edge detector is not set properly.

—— Please contact your dealer for assistance.

6. The printer can not detect paper out.

The printer continuous printing even thought paper out, it may be caused by the unproper set of other menu items.

—— In the Menu Setup Mode, modify the paper size, paper length then save the setting.

7. The printed vertical or transverse line has clearance.

— Modify the corresponding print direction in Menu Setup Mode.

—— Adjust the printer's alignment (see detailed in Appendix A2).

8. Print the wrong characters.

The communicate transportation of the printer may be incorrect.

—— Check if the connection of the cable is correct or damaged.

Check if the control system of the computer and the data code are consistent with the printer setting.

—— In the Menu Setup Mode, set the correct emulation according to the requirement.

The printing driver may be incorrect.

— Please reinstall the printer driver correctly.

9. The printed result is not aligned.

The top of form margin and the bottom margin are not the same.

—— In the Menu Setup Mode, modify the parameter of the TOF ADJUST.

The left margin is not consistent with the right margin.

- —— Adjust the paper guide position of the tractor.
- —— In the Menu Setup Mode, modify the left and right margins' parameters.

The tractor paper appears unaligned printing from the second page.

—— Aper length setting may be incorrect, modify PAGE LGTH TR in Menu Setup Mode. Reset the paper length and make sure the paper length setting in the computer too.

10. Restore all the settings in the Menu Setup Mode to the factory default settings.

EEPROM Initialization 1 —— Restore the settings to the factory default settings.

[Procedure]:

Press the **HIGH IMPACT** and **LF** keys and turn on the printer.

The LCD displays as follow, it back to normal display state after initialization.

EEPROM INITIAL 1

6.2 How to Solve the Error Message

Error Message	Function Description
	The print head is being cooled to prevent it from overheating. The ONLINE light blinks.
HEAD PROTECTION	The print head has become too hot during high-density printing. When this message is displayed, the printing speed is reduced (from bidirectional printing to unidirectional printing) or printing stops (the print head move transversely but print nothing). When the print head temperature drops, the printer restarts printing.
PAPER OUT RELOAD PAPER	Install tractor paper on the tractor and press the LOAD/EJECT key. Put a cut sheet on the front table and load it into the printer.
HOME SENSOR	The printer detects the home sensor error automatically. 1. Remove the paper and restart the printer.
ERROR	If the malfunction can not be solved, please contact your dealer for assistance.

FRONT COVER IS OPEN

Power on the printer, open the front cover, the LCD display will display this information, then the printer will enter into stop state which the **ONLINE** key blinks at the same time.

Please close the front cover and the printer will recover to normal state.

Chapter 7 Printer Specification

7.1 General

Item			Description									
Туре	24-Pin Dot Matrix Im	pact Printer	•									
Print direction	Bidirectional logic se	eking										
Number of columns	136 columns (10 CP	I)/ 345.44 mm										
	,	ÁS	CII	Chi	nese							
	speed	10 CPI	15 CPI	6.7 CPI	7.5 CPI							
	High 2	400 CPS	600 CPS	266 CPS	300 CPS							
Print speed	High 1	300 CPS	450 CPS	200 CPS	225 CPS							
	Normal speed	200 CPS	300 CPS	133 CPS	150 CPS							
	High density	150 CPS	225 CPS	100 CPS	113 CPS							
B : 41	Diameter of wire: 0.2	22 mm			I.							
Print head	Life: 500 million dots	/wire										
Resolution	360×360DPI (Max.)											
	ASCII: 17 internation	al character sets (J.S.A., France, Ger	manv. Britain. Denr	nark 1. Sweden.							
		-	enmark 2, Spain 2, L	-								
Character set	Turkey)	oupan, Norway, De	51111ank 2, Opani 2, E	aum min, moroa, EE	CONE, Notificialia,							
	Chinese: GB 18030											
		Poman Sans Sprif	Courier Prestige 9	Script OCR B OCE	P-A Orator)							
Fonts set ASCII: Eight kinds (Roman, Sans Serif, Courier, Prestige, Script, OCR-B, OCR-A Chinese: GB 18030 Song 9 Bar codes: EAN-13, EAN-8, Interleaved 2 of 5, Matrix 2 of 5, Industrial 2 of 5, Industr												
		<u> </u>	and 2 of 5. Matrix 2	of 5. Industrial 2 of	5 Codo 30 Codo							
Bar code		Code 128 C, NW-7		oi o, industrial 2 oi	5, Code 39, Code							
	ASCII: 10 CPI, 12 C	•		<u> </u>								
Character pitch			20 CF1, proportiona	<u> </u>								
Line ange	Chinese: 5CPI, 6CPI, 6.7CPI, 7.5CPI 1/3 inch, 1/4 inch, 1/6 inch, 1/8 inch, 1/9 inch, and n/360 inch											
Line space	1/3 inch, 1/4 inch, 1/6 inch, 1/8 inch, 1/9 inch and n/360 inch											
Paper feed speed (Max.)	152.4 mm per second / 6 inches per second (continuous feed) EPSON ESC/P-K2, OKI5530SC, IBM 2391											
Emulation			391									
	USB interface: USB 2.0 Full-Speed											
Interface	Parallel interface: Centronics (IEEE1284 NIBBLE Mode)											
Interface	Serial interface: RS-232C (DB 9-PIN or DB 25-PIN)											
	Ethernet interface:10/100 Base-T Ethernet Interface											
Input Buffer	* According to specific interface standards 64KB											
input buller	Model: JMR106											
Ribbon	Life: 20 million chara	store (draft mode)										
Noise	+	, ,										
Noise Control Danel	` ' '	<58 dB (A) (ISO7779 standard) 8 Keys + 4 indicator lights + Chinese LCD display.										
Control Panel		-		m roor								
Paper feed type	Manual: Load/eject f			om rear								
Thickness adjust	Tractor paper: load f	•		on or adjust through	h gan adjust lavar							
Thickness adjust	Automatically detect	s the paper thickne	ss and adjust the ga	ap, or adjust throug	n gap aujust iever.							
	Tractor paper	2 mm										
	Width: 127 ~ 406 mm											
	Thickness: $0.08 \sim 0.12 \text{ mm}$ Weight: $60 \sim 105 \text{ g/m}^2$											
	Tractor fanfold pape	•										
	Width: 127 \sim 40											
		וווווו										
	Ply: ≤7 Thickness: 0.12 ∼ 0.52 mm											
	Thickness: $0.12 \sim 0.52 \text{ mm}$ Weight: $40 \text{ g/m}^2 (1+6)$											
	Cut sheet	. 0,										
Paper specification	Width: 127 \sim 430) mm										
. Specification	Length: 127 \sim 43											
	Thickness: 0.08											
	Weight: $60 \sim 10$											
	Cut sheet fanfold pa											
	_											
	Width: 127 ~ 430 mm											

	Length: 127 \sim 430 mm							
	Ply: ≤7							
	Thickness: 0.12 \sim 0.52 mm							
	Weight: 40 g/m ² (1+6)							
	Card							
	Width: 127 \sim 430 mm							
	Length: 127 \sim 430 mm							
	Thickness: 0.08 \sim 2 mm							
Max printing thickness	2.0 mm							
	Original + 6 copies							
Сору	Standard mode: Original +4 copies							
	Copy mode: Original + 6 copies							
Automatic function	Automatic thickness detection, Automatic skew detection, Paper edge detection							
Especial functions	Chinese LCD display							
Physical dimensions	635 mm (width) × 335 mm (depth) × 294 mm (height) (no front table)							
Filysical difficusions	635 mm (width) × 465 mm (depth) × 294 mm (height) (with front table)							
Weight	Approx. 22 Kg							
	Operating environment: Temperature: 5 \sim 40 $^{\circ}\mathrm{C}$							
Environmental conditions	Humidity: 40%RH \sim 90%RH (No condensation)							
Environmental conditions	Storage environment: Temperature: -40 \sim 55 $^\circ\!\!\!\!\!^\circ$							
	Humidity: ≤93%RH (40°, No condensation)							
Davisa as an insurante	Rated voltage range: 110 / 220 V							
Power requirements	Rated frequency range: 50 / 60 Hz							
	①working power: 110 W; ②Largest power: 260 W; ③Stanby: 14 W.							
Power	Caution: Only when the product is unconnected with outer power supply, it can achieve zero							
	energy consumption state.							
Reliability	MTBF≥20,000 hours (IEC 605.7standard)							
Safety marks	GB 4943							
Wireless disturbance	Grade B							

7.2 Interface Specification

This ACCEL-7450 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 (according to specific interface standards). You can connect the printer to computer according to your requirement.

7.2.1 Parallel Interface

Standard Centronics (IEEE1284 NIBBLE) parallel interface connector is DB-36 pin type connector. Its pin numbers are as Figure 7-1 shown.

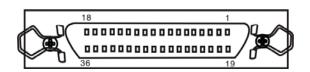


Figure 7-1 Parallel interface connector pin number

Sequence and signal level

Sequence Diagram as 7-2

Signal level

Input High level: 2 \sim 5 V Low level: 0 \sim 0.8 V Output High level: 2.4 \sim 5 V Low level: 0 \sim 0.4 V

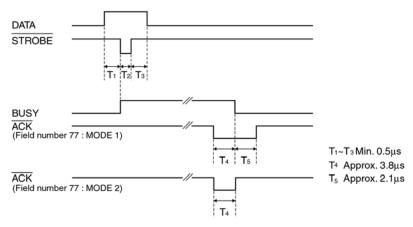


Figure 7-2 Sequence diagram

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	
36	_	SELECTIN	Printer ← Host	

7.2.2 USB Interface

USB 2.0 Full-Speed

The following table provides the standardized contact terminating assignments by number and electrical value for Series "A" and Series "B" connectors.

Contact Number	Signal Name	Colour
1	VBUS	Red
2	D-	White
3	D+	Green
4	GND	Black

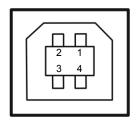


Figure 7-3 USB-B Type connector

7.2.3 Ethernet Interface

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

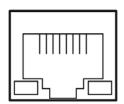


Figure 7-4 Ethernet Interface

7.2.4 Serial Interface

ACCEL-7450 printer serial interface can be compatible with RS-232C, and supports RTS/CTS and X-ON/X-OFF handshaking. Its interface connectors are DB-9 type connector and DB-25 type connector.

7.2.4.1 Serial interface (DB-9)

DB-9 serial interface connector's pin number is shown as Figure 7-5:

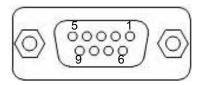


Figure 7-5 DB-9 Serial interface connector pin number

Connector Pin Assignments:

PIN	SIGNAL	SIGNAL	EXPLANATION
	NAME	HEAD	
2	RXD	HOST	The printer receives data from HOST.
3	TXD	PRINTER	The printer send X-ON/X-OFF and data to the HOST.
7	RTS	PRINTER	When the signal is MARK, it denotes the printer is BUSY and can not receive data. When the signal is SPACE, it denotes the printer is READY and can receive data.
8	CTS	HOST	When the signal is MARK, it denotes the printer is BUSY and can not receive data. When the signal is SPACE, it denotes the printer is READY and can receive data.
5	GND	_	Ground
4	DTR	PRINTER	Data Terminal Ready

Table 7-5 Connector Pin Assignments

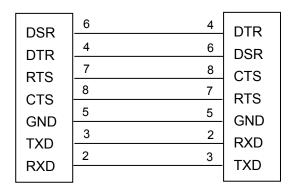
Note: Signal logic lever is EIA lever.

Connect with the serial interface, the baud rate and data frame has been set to 9600 bps, 8 data bits, no check and 1 bit stop bit.

ACCEL-7450 printer's serial interface can be connected with RS-232C interface. Refer to Figure 7-6

when connect to the computer.

Serial interface connect relations are as follow:



Printer 9 PIN connector

HOST 9 PIN connector

Figure 7-6 The connection of printer and HOST

7.2.4.2 Serial interface (DB-25)

DB-25 serial interface connector's pin number is shown as Figure 7-7:

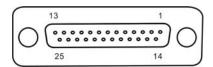


Figure 7-7 DB-25 serial interface connector pin number

Data input/output mode: 7-bit or 8-bit serial interface

Data input code: ASCII, JIS 7-bit or 8-bit, International character code, CG, Dot matrix graphic code

based on graphic symbol code (8-bit)

Data buffer: 64K bytes most Signal level: RS-232C: ±12V

Data transit speed (baud rate) RS-232C: 1200bps, 2400bps, 4800bps, 9600bps, 19200bps

Data transmission protocol RS-232C: READY/BUSY (DTR) or X-ON/X-OFF

Synchronous system: Original bit: 1 bit Stop bit: 1~2 bit

Character length: 7~8 bits

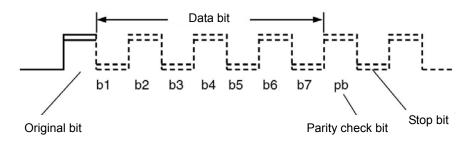


Figure 7-8 Serial data format

Connector Pin Assignments

RS-232C default settings

PIN	ABBREVIATION	NAME	DIRECTION	RDY/BSY	X-ON/X-OFF
1	FG	Frame Ground		0	0
2	SD	Transmitted Data	OUT	X	0
3	RD	Received Data	IN	0	0

4	RTS	Request to Send	OUT	*	*
7	SG	Signal Ground		0	0
20	DTR	Data Terminal Ready	OUT	0	0

O: USE X: NOT USE *: HIGH LEVEL

Signal description:

Prescription of signal level on RS-232C

1=Low (Mark): $-25 \sim -3 \text{ V}$

0=High (Space): +3 ~ +25V

RDY/BSY protocol (RS-232C)

PIN 1 FG (Frame Ground — connect to the printer rack

Connect to the circuit frame ground

PIN 3 RD (Received Data)

Receive serial data from the computer through this pin. This pin is low level when it receives no data.

PIN 7 SG (Signal Ground)

Connect to the signal ground

PIN 20 DTR (Data Terminal Ready)

This pin is high level when the printer is ready to receive data. It is low level when not ready to receive data.

X-ON/X-OFF Protocol (RS-232C)

PIN 1 FG (Frame Ground---connect to the printer rack)

Connect to the circuit frame ground.

PIN 2 SD (Transmitted Data)

Send serial data to the printer through this pin. This pin is low level when it receives no data.

PIN 3 RD (Received Data)

Receive serial data from the printer through this pin. This pin is low level when it receives no data.

PIN 4 RTS (Request to Send)

Send Request to send signal from the printer. This pin is high level when the printer is turned on

PIN 7 SG (Signal Ground)

Connect to the signal ground.

PIN 20 DTR (Data Terminal Ready)

Output the signal from the printer. This pin is high level when the printer is turned on.

7.3 Printable Area

- Caution: 1. To guarantee the print quality, please ensure the contents are all within printable area.
 - 2. If the print contents are out of the printable area, it may cause the print head to break pins.

Cut Sheet Printable Area:

Decide by the TOF ADJUST and TOP MRG in the Menu Setup Mode

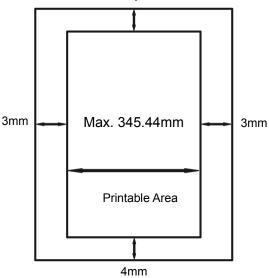


Figure 7-9 The printable area of cut sheet

Tractor Paper Printable Area:

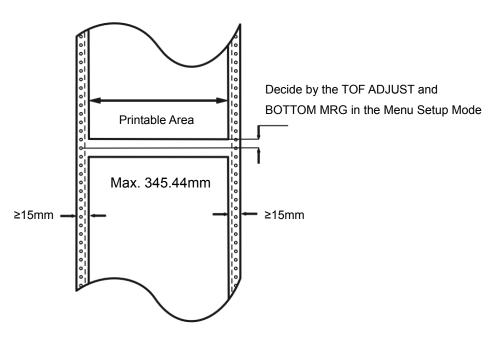


Figure 7-10 The printable area of tractor paper

7.4 Cautions of Printing

- The paper which inserted should not be collapsed, tore or carry any staple, clip or pin and so on. (As shown in 7-11) Or else, it will damage the printer seriously.
- Do not use the print paper which edges fall into disrepair.
- In manual paper feed mode, do not use the single ply tractor paper or the single ply fanfold paper. Because the hole on the tractor paper edge and the impress on the copy paper edge will cause printing jam. (As shown in 7-12)

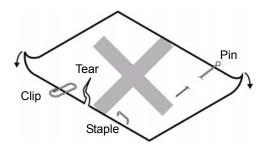
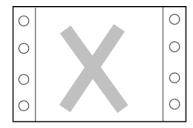


Figure 7-11



Single ply tractor paper



Single ply fanfold paper

Figure 7-12

Appendix A Self-test and Adjustment

A.1 Self-test Function

ACCEL-7450 printer supplies several print-test functions which make you run the self-test of the printer in different states.

A.1.1 Chinese Self-test

After install the paper (tractor paper: 136 lines, manual paper feed: A4 paper), then use the following way to run the self-test.

- Turn on the printer, firstly, press ALT+SPEED keys to initialize the printer, during the initialization, press LF+ONLINE keys.
- Turn off the printer, press down LF+ONLINE keys and turn on the printer.

The printer will print out the signals and Chinese characters as following shows:

A.1.2 ASCII Test Mode

After install the paper (tractor paper: 136 lines, manual paper feed: A4 paper), then use the following way to run the ASCII self-test.

- Turn on the printer, firstly, press ALT+SPEED keys to initialize the printer, during the initialization, press LF key.
- Turn off the printer, press down LF key and turn on the printer.

The printer will contimuously print out ASCII characters.

A.1.3 Maintenance Printing Test (H pattern)

One page printing of H pattern is performed by turning power on, while pressing the **TEAR OFF** key. After printing the printer will exit this test automatically. So you can send the printing command to the printer to print.

Continuous printing of H pattern is performed by turning power on, while pressing the **LOAD/EJECT** key and **TEAR OFF** key.

Pressing the **ONLINE** key can stop printing, and turn off the printer to exit H pattern mode.

H PRINT MODE

Version: ACCEL-7450 VX.X XXX XXXX-XX-XX

A.1.4 Hex Dump Mode

Hex Dump mode can analyse if there is any malfunction in the interfaces of the printer and the computer.

- Turn on the printer, firstly, press ALT+SPEED keys to initialize the printer, during the initialization, press SPEED key to enter Hex Dump printing.
- Turn off the printer, press down **SPEED** key and turn on the printer.

The printer will printer out the data from the computer in Hex Dump mode.

**** F	IEX <i>A</i>	DEC	CIMA	L DI	UMP	***	**									
(0000)	1B	40	A9	A6	29	29	A9	A6	2A	2A	A9	A6	2B	2B	A9	A6
(0010)	2C	2C	A9	A6	2D	2D	A9	A6	2E	2E	A9	A6	2F	2F	A9	A6
(0020)	30	30	A9	A6	31	31	A9	A6	32	32	A9	A6	33	33	A9	A6
(0030)	34	34	A9	A6	35	35	A9	A6	36	36	A9	A6	37	37	A9	A6

Caution: Load the paper along the left side (the "0" mark on the ruler).

A.1.5 Pin test

Power off the printer, press down **ENTER** key and turn on the printer, then the printer will print out a line for you to check whether there is pin broken.

A.2 Adjust Function

A.2.1 Alignment Adjust Mode

Enter the alignment adjust mode to improve the print quality when the printer is used for a long time.

Enter method: In ONLINE mode, long press "ENTER".

LOAD/EJECT: Select to adjust the next DPI alignment.

SPEED: Each press this key, the odd line will move left with one step (Value decreased)

TEAR OFF: Each press this key, the odd line will move right with one step (Value increased)

ENTER: Save and print.

HIGH IMPACT: Press this key to exit the adjust mode, and then the printer will run the initialization.

Note: There are totally 7 adjustments modes (MODE 0~6).

Note: Alignment adjust mode will affect the printing quality, think over before adjust it and strict to the instructions while adjusting.