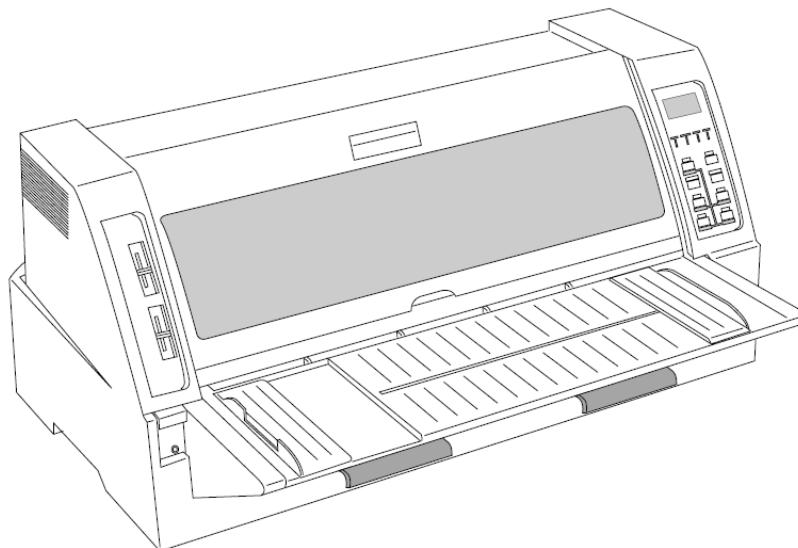




Accel-7450 Series

24-Pin Dot Matrix Printer

User's Guide



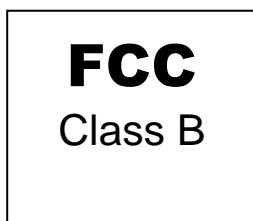
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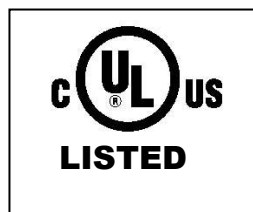
Regulatory Statement:



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.



Accel 7450T

16PU
NWGQ
E247562
120VAC ~ 60Hz ~ 2.3A

Accel 7450S

E321635
I.T.E.
120VAC ~ 60Hz ~ 2.3A

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Operational safety



CAUTION

- To avoid being burnt, do not touch the print head immediately after printing.
- Do not put your finger under the paper tractor cover while loading paper.
- To avoid injury, Do Not touch the paper tractor gears during operation.

Cautions in setting up

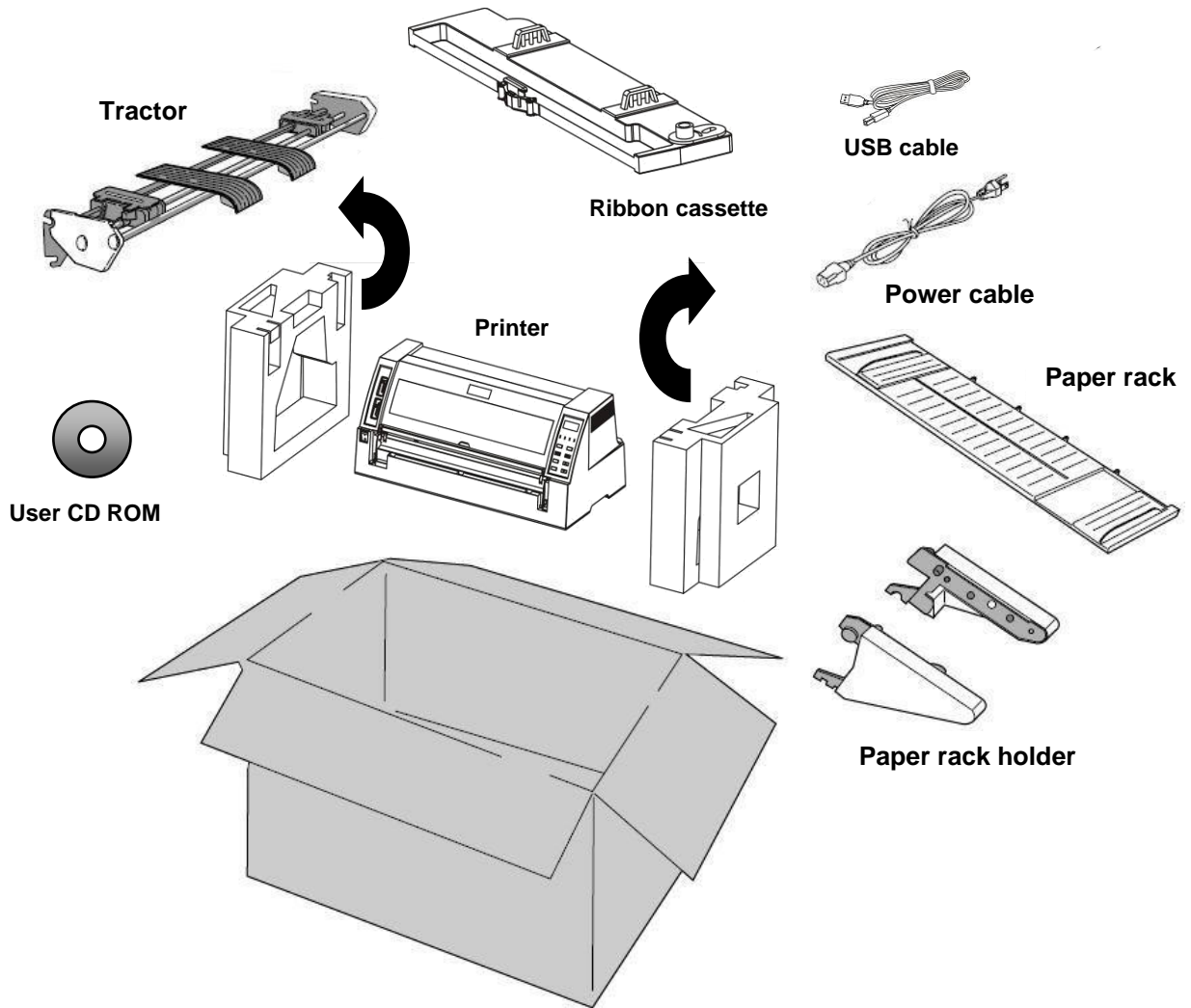


CAUTION

- Unpack the printer. Make sure that the printer and all accessories are included in the package and no parts are damaged.
- Place the printer on a rigid, horizontal base in a location that is free of vibration.
- Do not use the printer in a location exposed to direct sunlight or close to a heater or other heat generating equipment.
- Before connecting or disconnecting the interface cable, be sure to turn off the printer.
- Do not use the printer in a dusty location or any location subject to sudden changes in temperature and humidity.
- Do not connect the printer to a non-standard power source.
- Never try to print without a ribbon cassette installed and paper loaded.
- Rear Operating Clearance**
 - Fanfold Paper: 2" plus Paper Length
 - Manual Cut Sheets: Paper Length Minus 9"
- Take care not to twist the ribbon while installing the ribbon cassette.
- If the case or covers becomes dirty, clean it with a soft cloth moistened with a small quantity of neutral detergent diluted with water. Never use a hard cloth or volatile solvent such as alcohol, thinner, or benzene.
- Push the lock levers of both tractors to the LOCK positions firmly when loading fanfold paper.
- Do not turn off the printer during printing, as this may lead to a malfunction.

Installation

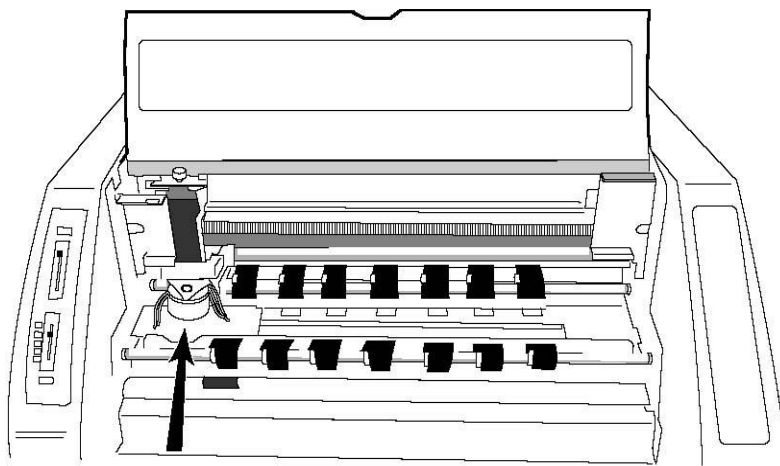
Unpacking the printer



The packing style is subject to change without notice.

Installing the ribbon cassette

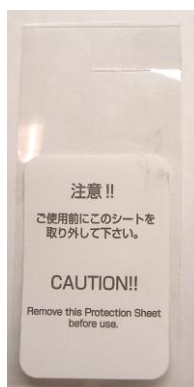
1. Make sure the power switch is OFF. Open the front cover. Move the print head to the left end position.



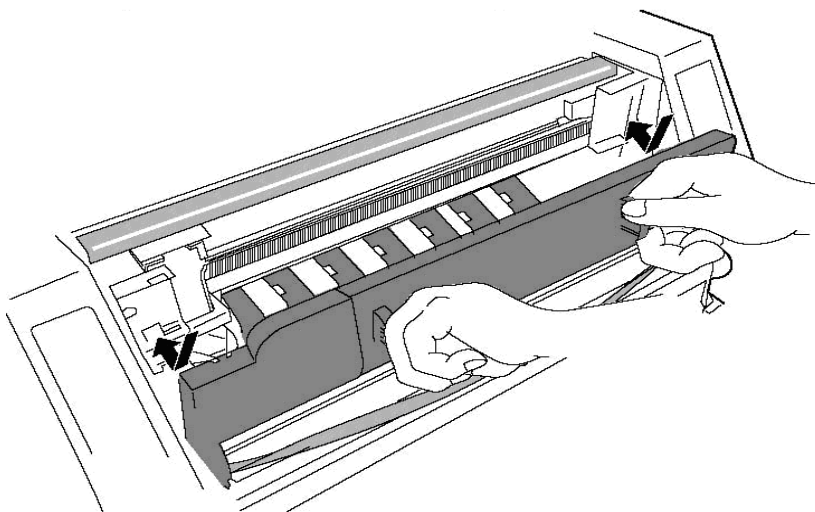
CAUTION

Do not touch the print head immediately after printing because it may be too hot.

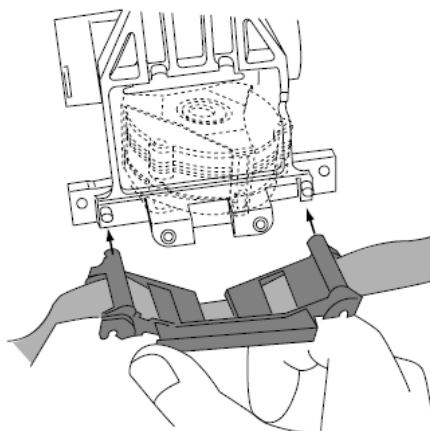
2. For a new printer, remove and discard the clear protective sheet from under the print head.



3. Remove the *Red shipping lock* located at the center of the ribbon cassette. Attach the cassette, as shown below.

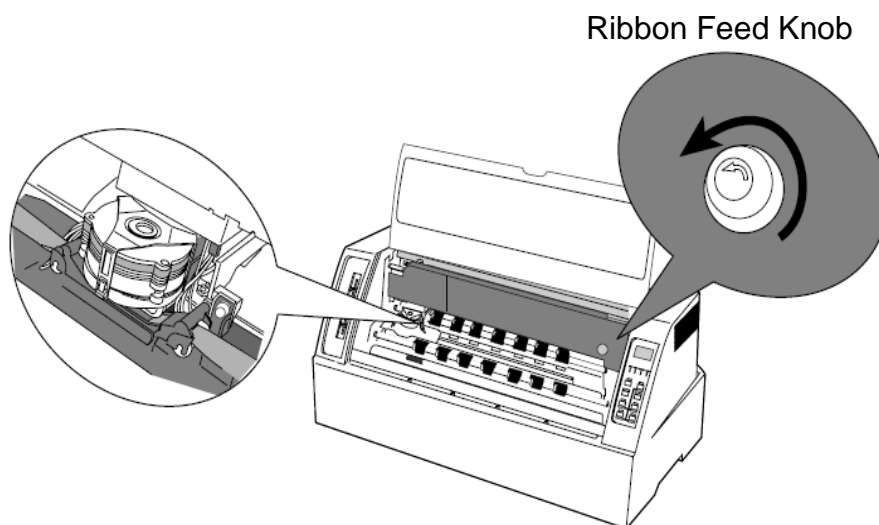


4. Fit the holes in the ribbon attachment to the right and left projections on the print head.



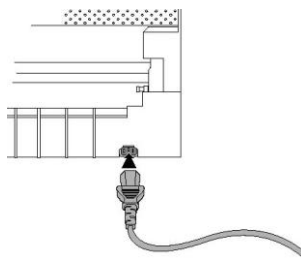
- Make sure that the ribbon is located properly under the edge of the print head.

- Turn the ribbon feed knob counterclockwise to remove any slack in the ribbon.



Connecting the printer to the power source

- Make sure that the power switch is set to off. Connect the printer with the supplied power cord to an AC outlet.

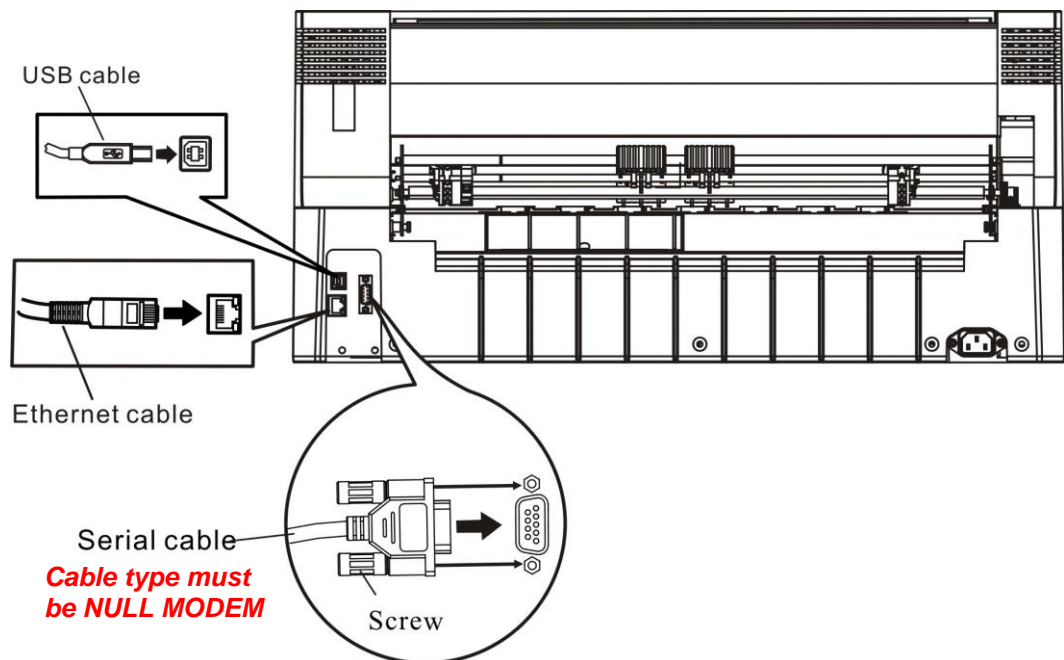



Connect the AC power plug to an AC outlet of the voltage designated on the rating label located on the back of the printer.

Connecting the printer to the PC

Note: The Accel 7450 printer can use a USB, Ethernet or Serial cable to connect to the PC.

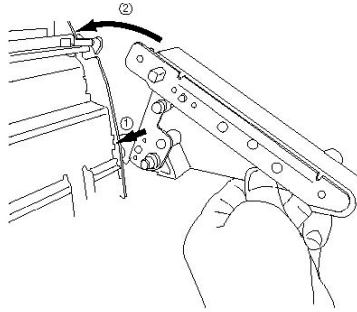
1. Install desired interface connection.
Make sure that the power switch is turned to off.
Connect the signal cable(s) to the printer and the computer.



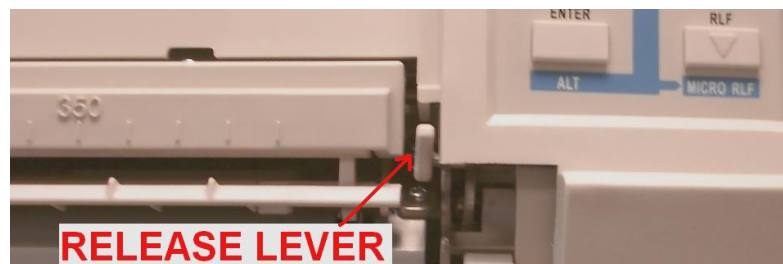
 The factory default interface is set to AUTO and will automatically receive transmitted data on any of the above ports.

Installing the Front Paper Rack

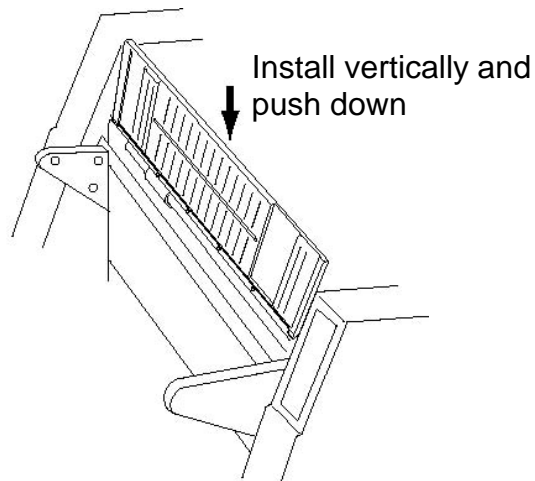
1. Insert each (left/right) paper rack arm slot down onto the bottom printer pin and rotate up until it clicks into place.



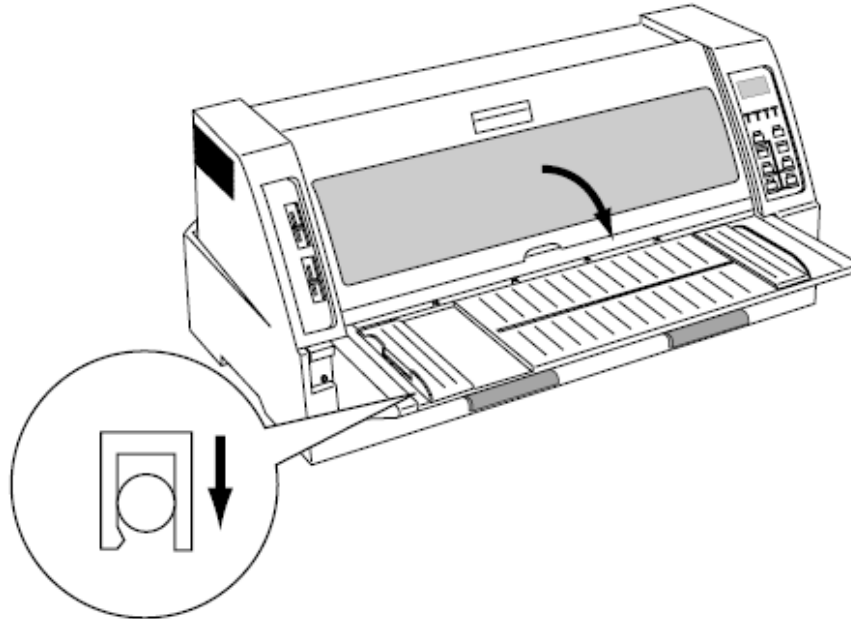
To remove the paper rack, first push up on both the left and right release levers (right lever pictured below), rotate the holder all the way down then lift.



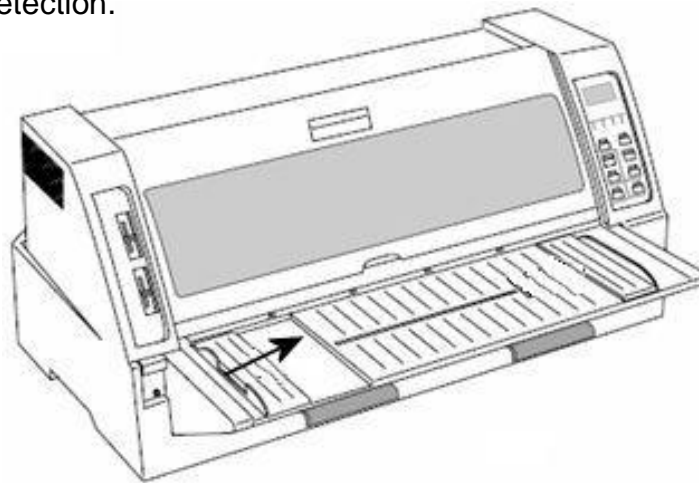
2. Attach the paper rack to the paper rack holders.



3. Rotate the paper rack down and press onto the rack holder pins.



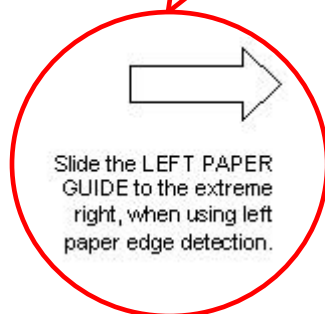
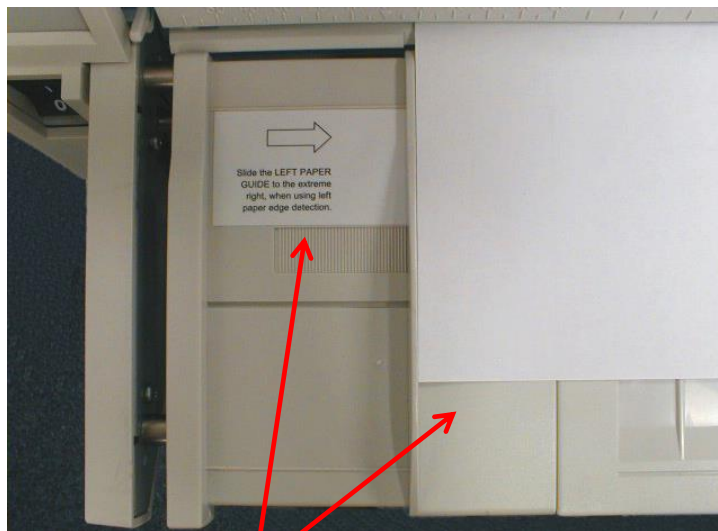
4. Slide the left paper guide all the way right against the paper rack stop. This squares the left guide and locates the paper edge for auto detection.



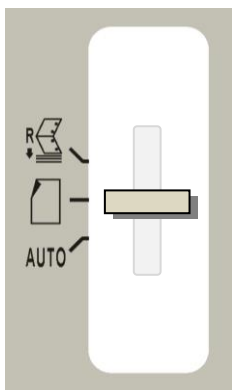
The right paper guide should be positioned all the way to the right for optimum performance.

Setting up for Cut Sheet Manual mode

1. Attach the paper rack holders (right / left) and the paper rack, as described in *Installing the Front Paper Rack* on page 10.
2. Slide the **left** paper guide all the way right against the paper rack stop. This squares the left guide and locates the paper edge for auto detection.



3. Slide the paper path lever to the cut sheet symbol. 



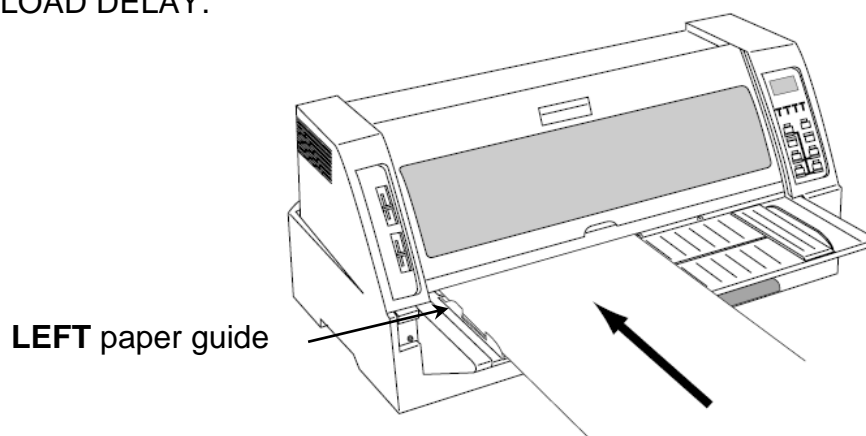
Note: The printer in this mode will automatically load cut sheet paper about one (1) second after a sheet is **fully** inserted in the manual input paper slot.



Cut sheet paper will **NOT** load unless the printer's reflective photo sensor sees the back of the sheet about 1 $\frac{3}{4}$ inches (44.45 mm) in from the leading edge.

This sensor's horizontal location is around the 25mm (approx 1 inch) mark on the printer ruler.

4. Insert a cut sheet paper straight along the **LEFT** paper guide. Make sure the paper is inserted as far as it will go and that it is square to the feed rollers. The printer beeps one time then feeds the sheet in. **NOTE:** The delay period can be adjusted by setting Control Panel menu item #36 LOAD DELAY.





Special Note for Loading Narrow Cut Sheet Paper

To load cut sheets narrower than 4 ½ inches, menu item #25 PAPER SKEW DETECT must be set to NO. Refer to Control Panel operation on page 19 .



Special Note for Loading Dark Colored Forms

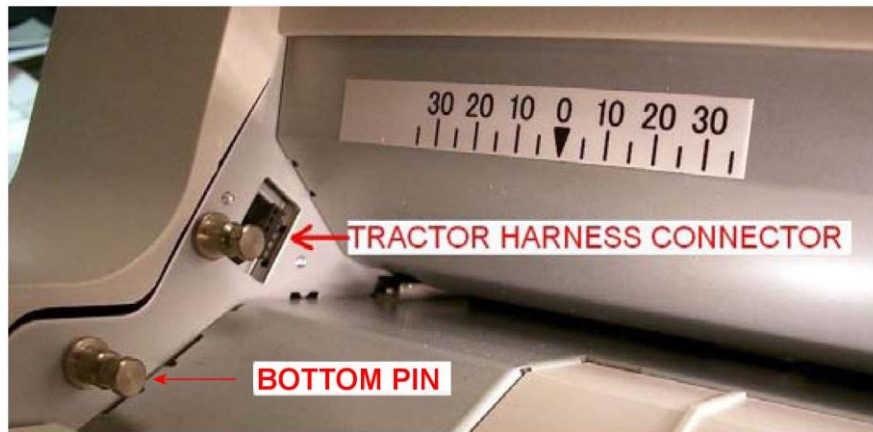
Excessive top/left margins or paper not loading may be caused by forms with non-reflective or colored areas. Use the special DARK FORM LOAD feature to print such forms. To get started, make sure at least one (1) reflective (white or light colored) form has been loaded and ejected since the printer was last powered up or since the left paper guide was moved. This step sets the left starting print position in the printer's memory.

- Press the  +  keys. The LCD shows DARK FORM LOAD.
- Fully insert the form into the paper slot until it seats square in the feed rollers BEFORE the printer starts loading. Press LOAD key to load form.
- Eject the form and start over if the form is not grasped immediately as the printer will not automatically compensate for the top starting print position.
- Send the print job.

Press the ALT+EJECT/LOAD keys again to load each dark form. The printer reverts to normal (white or light colored) paper loading after each load.

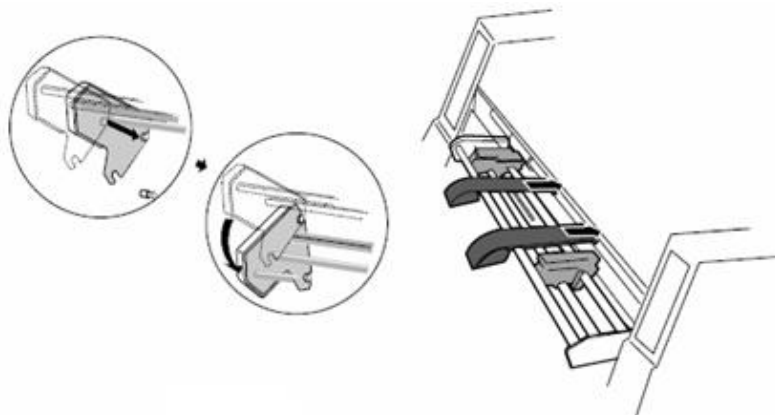
Installing the Rear Tractor

1. Snap the black plastic paper guides onto the tractor assembly if they are not already in place. The curved ends point away from the printer.
2. Make sure the printer power is off. Plug the cable from the tractor into the connector at the back of the printer.



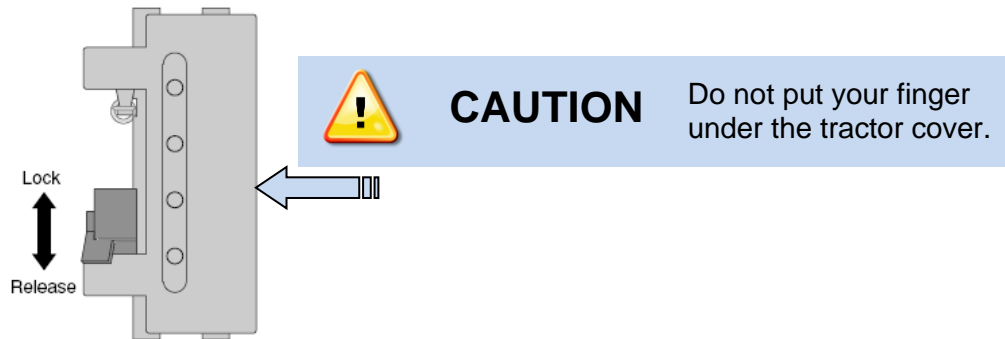
3. Insert the top slot in the tractor brackets onto the top printer pins.

Allow the bottom bracket slots to rest on the bottom printer pins. The tractor brackets do not snap in place.



Make sure the tractor brackets are fully seated in the bottom pins. Cut sheet forms may jam on the tips of the tractor paper guides if the tractor brackets are not seated.

4. Set fanfold paper onto the tractors. Release the lock lever to adjust the tractors right /left to fit the pin feed paper width.



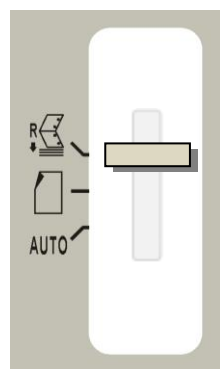
5. Use the zero 0 mark on the ruler label attached to the back of the printer as a reference to line up the starting print position by sliding the tractors left or right.

Adjust the tractors so the paper is snug between them without tearing or elongating the pin fed holes.

6. To select the rear tractors as the paper feed source, slide the paper path lever on the printer front panel to the rear tractor symbol:



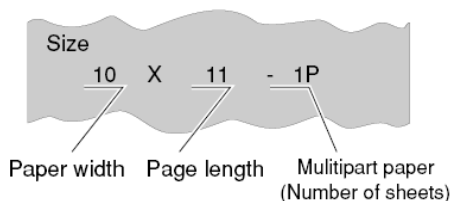
Note: The lever position can be at "AUTO" only when using the printer driver to select paper sources.



7. If the paper length is not 11 inches (factory default), specify the appropriate length in the printer's control panel menu item #6 "TRACTOR PAGE LGTH".

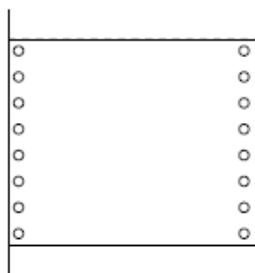
See **Control Panel** on page 19 for instructions on using the printer's control panel menu.

Note: Fanfold paper size is usually marked on the package



If the paper length is not specified, the page length can be determined by the number of sprocket holes per sheet.

The number of holes x 0.5 inch equals to the page length. For example, if the sheet has 8 holes then length is 4 inches.



8. Perform a test print job after connecting the printer to the computer.

Fine adjust the tractor's side to side position for the desired left starting print position.

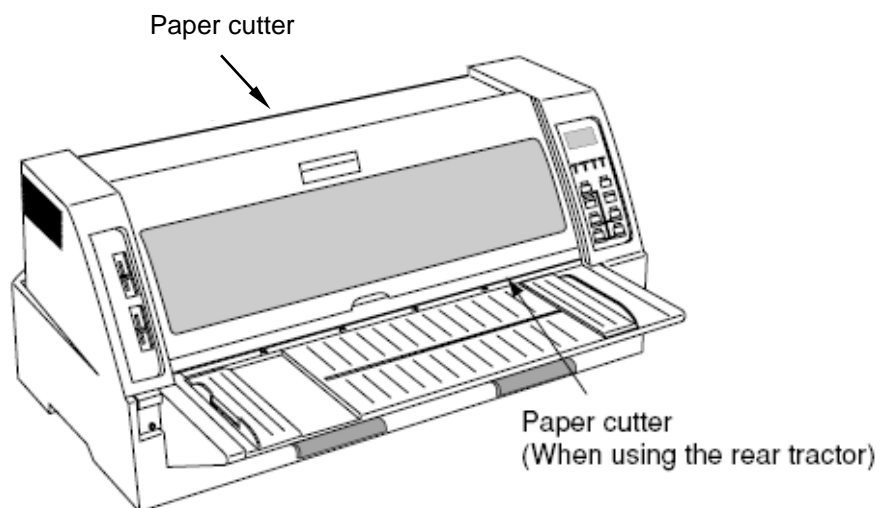
The **vertical**, starting print position may be adjusted as follows:

Full lines: Set the "TOP MARGIN" using the printer's control panel menu.

Partial Lines: Set "TOF ADJ TRACTOR" using the printer's control panel menu. This adjustment has a 1/60th inch resolution (0.0166")

Paper Cutter

The printer has two (2) cabinet edges where perforated fan fold paper may be separated.

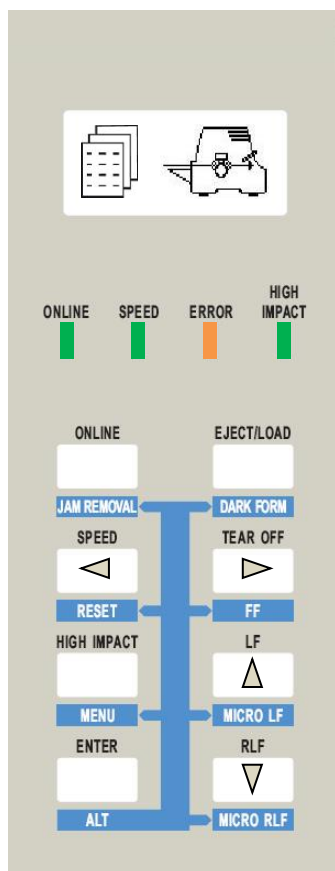


Use the front edge when using the rear tractor to feed paper.

Control Panel

The liquid crystal display (LCD) on the control panel displays the current printer status, user messages and menu functions.

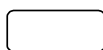
Control Panel Layout



Control Panel Key Functions

1. ONLINE

ONLINE



JAM REMOVAL

The ONLINE key is used to enable printing (ONLINE light ON) or disable printing (ONLINE light OFF).

When the light is off, printing is suspended due to a user action (such as pausing the printer) or an error condition (such as a paper out, ribbon problem or paper jam).

2. EJECT/LOAD

EJECT/LOAD



If a cut sheet paper is loaded, pressing the EJECT/LOAD key ejects the sheet out the front.

If the EJECT/LOAD key is pressed when fanfold paper is loaded, the paper is fed back to the parking position.

If the EJECT/LOAD key is pressed when fanfold paper is at the parked position, the paper is loaded to the TOF position.

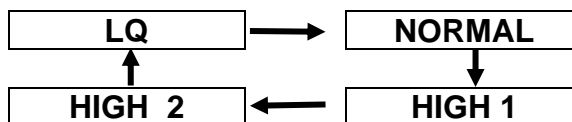
When the EJECT/LOAD key is pressed with no paper in manual load mode, and menu item #25 PAPER SKEW DETECT has been set to YES, AUTO SKEW mode is toggled ON and OFF. Press the ENTER key to activate the displayed mode.

3. SPEED

SPEED



Press the SPEED key to display the currently selected printing quality on the LCD. Each press of the key displays the printing qualities in the following order.



The factory default value is LQ

4. TEAR OFF

TEAR OFF



Pressing the TEAR OFF key, causes the printer to automatically advance the pin feed paper perforation to the paper cutter position (for fanfold paper only).

If the perforation is not adjusted to the cutter position, correct the position with the MICRO LF or MICRO RLF key. The correct position is saved in memory, and the perforation is fed automatically to the paper cutter position at next time.

5. HIGH IMPACT

HIGH IMPACT



Press the key to temporarily change the print impact for multipart forms from NORMAL to DARK print mode. The HIGH IMPACT light is ON when DARK print mode is selected. HIGH IMPACT reverts to the current value selected in the printer's control panel menu settings.

The factory default value is NORMAL

6. LF

LF



Press the LF key to feed the line in the forward direction at a pitch of 1/6 inch regardless of the LF PITCH setting in the printer's control panel menu. Holding this key down produces continuous line feeding.

7. ENTER

ENTER



Pressing the ENTER key selects the setting displayed on the LCD.

8. RLF

RLF



Pressing the RLF key feeds paper the reverse direction at a pitch of 1/6 inch regardless of the LF PITCH setting in the printer's control panel menu. Holding this the key depressed produces continuous reverse line feeding.

9. RESET (ALT + SPEED/RESET keys)

ENTER



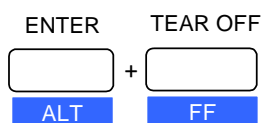
+

SPEED



Pressing the SPEED key while holding the ALT key evokes a power on reset. The LCD displays "INITIALIZING" for a few seconds then returns to ready mode.

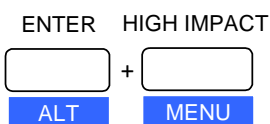
10. FORMFEED (ALT + TEAR OFF/FF keys)



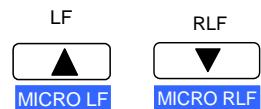
Pressing this key combination causes pin feed paper to advance one (1) page length as determined by the PAGE LGTH setting in the printer's control panel menu.

If cut sheet paper is loaded, pressing this key combination causes the paper to be ejected.

11. MENU (ALT + HIGH IMPACT/MENU keys)



Pressing this key combination opens the printer's control panel menu system.



Once the printer's menu system is open, menu items may be scrolled with the up and down arrow keys.



The right arrow key opens the displayed menu item. Once opened, the up and down arrow keys scroll through all available choices.



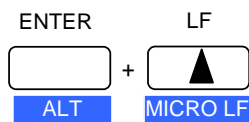
Pressing the ENTER key selects the displayed choice. Pressing the left arrow key exits to the top level menu items.



Once at the top level menu, pressing the HIGH IMPACT MENU key exits the menu system and evokes a power on reset.

Note: Current values are marked with a * in the menu system.

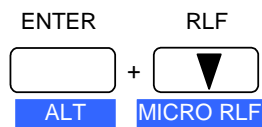
12. MICRO LF (ALT + LF/MICRO LF keys)



Pressing this key combination causes paper to feed 1/360 inch forward. Use this key to adjust the paper position.

Holding down these keys produces continuous micro line feeding.

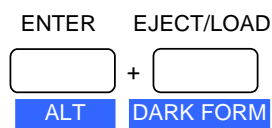
13. MICRO RLF (ALT + RLF/MICRO RLF keys)



Pressing this key combination causes paper to reverse feed 1/360 inch. Use this key to adjust the paper position.

Holding down these keys produces continuous micro line feeding.

14. DARK FORMS LOAD (ALT + EJECT LOAD/DARK FORM keys)



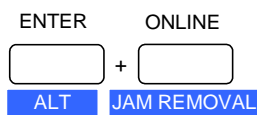
Pressing this key combination causes the printer to load manual feed forms regardless of their color. Use this special mode if printing starts at the wrong place due to non-reflective (dark) areas on a form.

Be sure to hold forms firmly in the feed rollers so paper is grasped immediately as the printer will not automatically compensate for the starting print position based on the paper edges.

Important Note: The DARK FORMS LOAD feature uses the same left starting position as the last reflective paper load or zero (0) on the cabinet ruler if the printer was just powered up.

This means at least one (1) reflective (white or light colored) form must load/eject or be printed before using the DARK FORMS LOAD feature. If this is not done, the left margin will be off.

15. JAM REMOVAL (ALT + ONLINE/JAM REMOVAL keys)



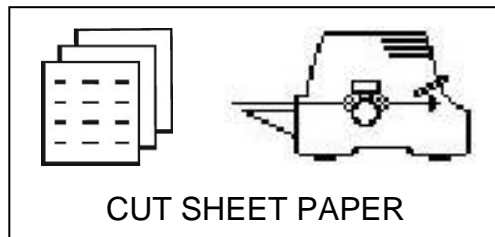
Pressing this key combination allows paper to be easily removed. Use this special mode if the EJECT key does not discharge the paper.

To exit JAM REMOVAL mode press the ONLINE key.

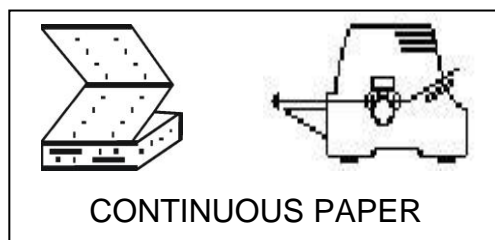
LCD

The LCD displays the current paper path.

*Manual



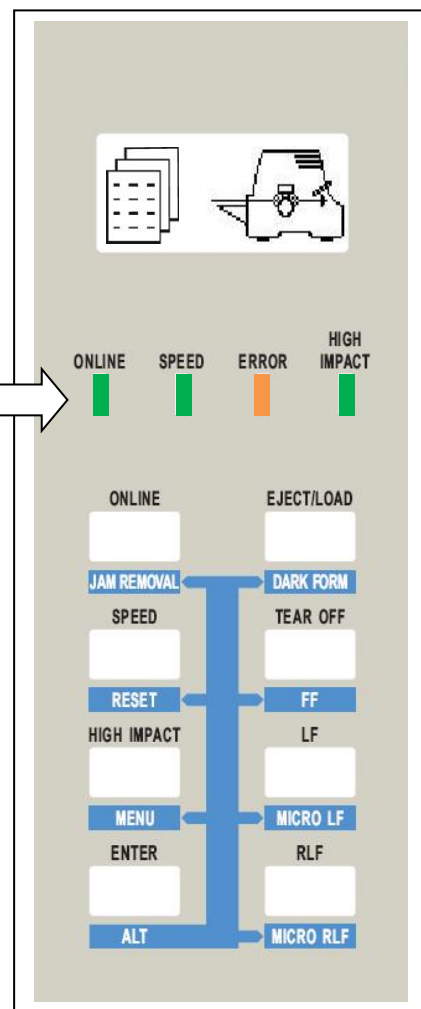
Rear Tractor



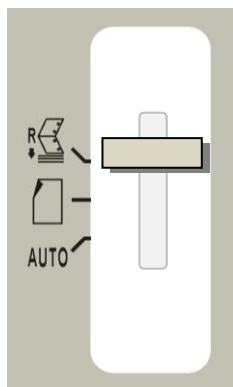
* Factory default

Lamps (LED Indicators)


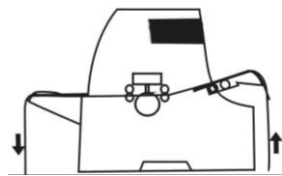
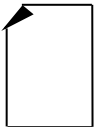
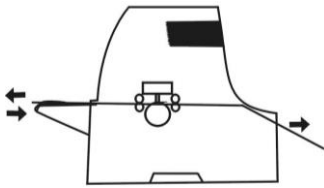
ONLINE (Green)	<p>ON: Printing is enabled.</p> <p>OFF: Printing is disabled.</p> <p>Blinking: The cover is open, or the printer is in the head temperature protect mode.</p>
SPEED (Green)	<p>ON: Letter Quality printing.</p> <p>OFF: NORMAL: (Medium Quality) printing.</p> <p>SLOW FLASH: HIGH 1 (Draft) printing</p> <p>FAST FLASH: HIGH 2 (High Speed Draft) printing.</p>
ERROR (Amber)	<p>ON: No paper or other operational error detected.</p> <p>OFF: No error detected.</p> <p>Blinking: A functional error has occurred (such as home sense error. Internal RAM error, paper path switching error, head adjustment error, park error or skew error).</p>
HIGH IMPACT (Green)	<p>ON: Heavy impact (multipart forms printing).</p> <p>OFF: Normal printing.</p>



Paper Path Lever



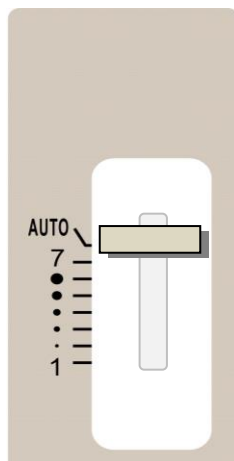
The paper path lever on the left control panel selects the following paper paths.

	Position	Paper path
Rear tractor		
Manual		

Note: Before changing the paper path, clear the paper from inside the printer by pressing the EJECT/LOAD key.

Head adjustment lever

This lever sets the gap between the print head and the paper.



For most printing, the lever position should be to AUTO. This setting allows the printer to measure the paper thickness and adjust the print head gap automatically.

The print head gap can also be manually set for 1 to 7 part forms.

Special Key Functions

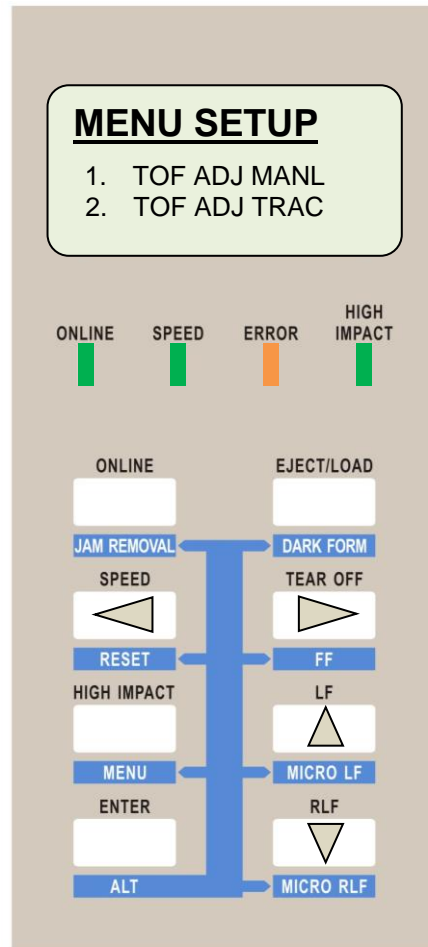
Special key functions are executed by pressing and holding the keys indicated in the following table while simultaneously turning on the printer power. Load paper (Cut-sheet Landscape Orientation) first to avoid error indication.

Function	Key
Initialization #1	HIGH IMPACT + LF + POWER ON
Initialization #2 (Cut-Sheet)	SPEED + TEAR OFF + POWER ON
Initialization #2 (Rear Tractor)	ONLINE + LOAD/EJECT + POWER ON
ASCII self-test	LF + POWER ON
Hex Dump	SPEED + POWER ON
Character H printing mode	TEAR OFF + POWER ON
Pin testing	HIGH IMPACT + POWER ON
Alignments adjust	ENTER + RLF + POWER ON
Adjust the tear off position (For tractor paper)	Online state, press and hold the TEAR OFF key three seconds.

Control Panel Menu

The printer's control panel menu system allows changing the way printer functions work.

This section provides the outline of the setup modes and the details of the setup functions.



Menu key



Press the ALT+ MENU keys to enter the MENU MODE.


Menu selection keys





These keys are used to scroll through the menu items. They do not activate the setting.

The menus can be scrolled rapidly by holding down an arrow key for a second or more.

Item selection keys

The  key is used to open a menu item displayed on the LCD.

Once opened, the item setting choices may be scrolled with the   keys.

The  key exits to the top level menu without any changes.

ENTER key

ENTER



To select a displayed item, press the ENTER key. When the ENTER key is pressed, the selected item is marked with an asterisk (*).

MENU key

HIGH IMPACT

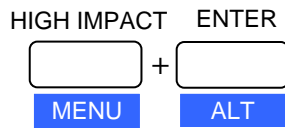


Press the MENU key to exit the MENU MODE. All setting changes are automatically stored in the EEPROM printer memory and the printer is initialized.

Menu Setting Example

The following is the example to change the page length of fanfold paper from 11 to 8 inch.

1. Press the MENU key while depressing the ALT key.



MENU SETUP

1. TOF ADJ MANL
2. TOF ADJ TRAC

2. Scroll to item 6 with down arrow key.



6. TRAC PG LGTH
7. RGHT PG WDTN

3. Open item 6 with the right arrow key.



11 INCH *
11.5 INCH

4. Press the up arrow key to display "8 INCH" on the LCD.



8 INCH
8.5 INCH

5. Press the ENTER key. An asterisk is added after "8 INCH".



8 INCH *
8.5 INCH

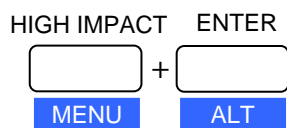
6. Press the MENU key. The setting is automatically saved and the printer is initialized.



Static Ethernet IP Address Setting

The following steps are required when setting a static IP Ethernet address through the printer control panel menu setup.

1. Press the MENU key while depressing the ALT key.



MENU SETUP

1. TOF ADJ MANL
2. TOF ADJ TRAC

2. Scroll to item 43 with UP arrow key.



43. IP ADDRESS
44. SUBNET MASK

3. Open item 43 with the right arrow key.



IP ADDRESS

010.000.000.001

4. Press the up arrow key to increase (down to decrease) the underlined digit.



IP ADDRESS

110.000.000.001

5. Press the right arrow key to select next digit. Repeat steps 4 and 5 until designated IP address is entered.



6. Press the ENTER key after complete address is entered.



MENU SETUP

1. TOF ADJ MANL
2. TOF ADJ TRAC

7. Press the MENU key. The setting is automatically saved and the printer is initialized.

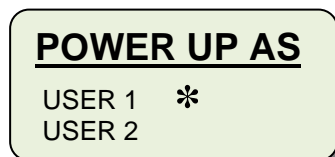


Using “PWR UP AS” Setup Profiles

The printer has a total of 6 setup profiles. They are designated USER 1~6.

Each profile may be modified with its own set (or group) of setup values.

The current profile is selected from the printer's control panel menu item “41 PWR UP AS” using the same procedure as described in the menu setting example.



The printer will use the selected profile whenever it is reset or powered up.

Restoring Factory settings:



USER Settings can be restored to factory default by performing an INTIALIZATION-1. This special key function is executed by pressing and holding these keys while simultaneously turning ON the printer power. Release keys when LCD display reads “EEPROM INITIAL 1”.

Factory Default Settings

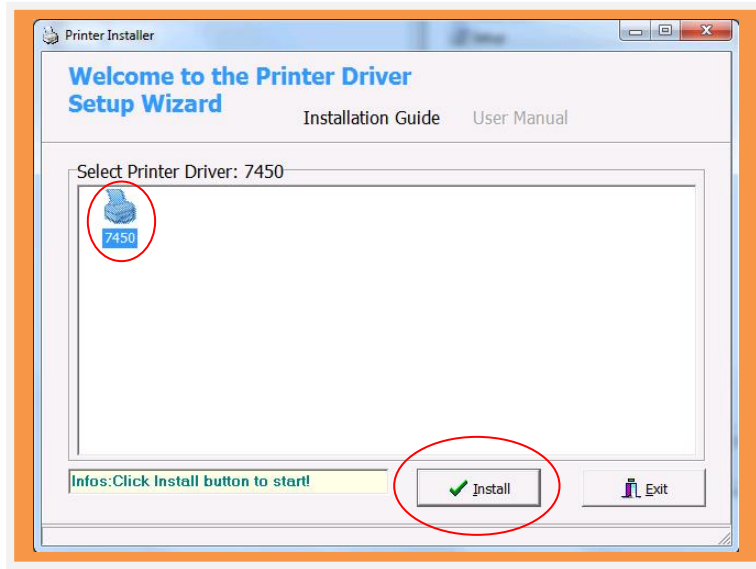
ACCEL 7450 Factory Defaults					
Item	Description	F&I	Item	Description	F&I
1	TOF ADJ MANL	0/60 IN	26	JAM DETECT	YES
2	TOF ADJ TRAC	0/60 IN	27	INTERFACE	AUTO
3	TOF ADJ DARK	0/60 IN	28	PARITY BIT	NONE
4	HORZ ADJ	0/60 IN	29	DATA LENGTH	8 BITS
5	MANL PG LGTH	AUTO	30	STOP BIT	1 BIT
6	TRAC PG LGTH	11 INCH	31	PROTOCOL	XON/XOFF
7	RGHT PG WDT	NO	32	BAUD RATE	9600 BPS
8	LEFT PG WDT	YES	33	TEXT DIR	BI-DIRECT
9	TOP MRG	0 LINE	34	TIMEOUT	ON
10	BOTTOM MRG	0 LINE	35	COVER DETECT	ON
11	LEFT MRG	0 COL	36	LOAD DELAY	1.0 SEC.
12	FONT SELECT	GOTH	37	BEEP	ON
13	CHR PITCH	12 CPI	38	TRUNCATE	ON
14	LF PITCH	6 LPI	39	QUIET MODE	OFF
15	EMULATION	F&I	40	TEAR OFF	ON
16	CHR TBL EPSN	GRAPHICS	41	POWER UP AS	USER 1
17	CHR TBL IBM	SET 1	42	LF DISTANCE	OFF
18	INTL FONT	U.S.A.	43	DHCP	OFF
19	CODE PAGE	U.S.A.	44	IP ADDRESS	—
20	AGM IBM	NO	45	SUBNET MASK	—
21	LF SETTING	LF ONLY	46	GATEWAY	—
22	CR SETTING	CR ONLY	47	MENU LISTING	—
23	ZERO STYLE	NO-SLASH			
24	MANUAL EJECT	FRONT			
25	SKEW DETECT	NO			

Settings for User Profiles 2 – 6 are uncontrolled.

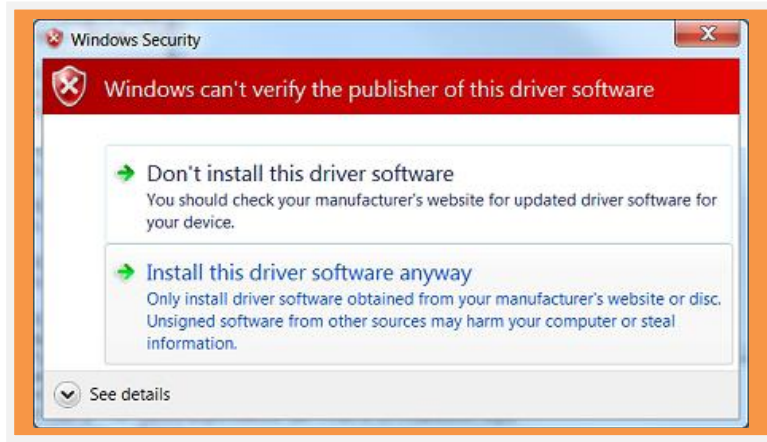
Print Driver Installation

Windows (2000,XP,VISTA,WIN7,WIN10)

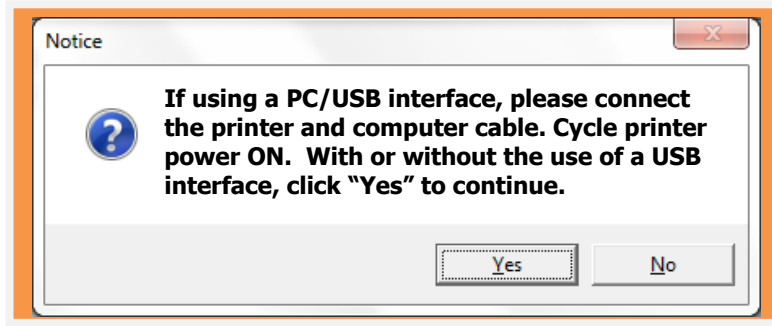
1. Select the desired driver provided on the CD ROM shipped with your printer.
2. Open the driver folder and execute "SETUP.exe", to start the "Printer Installer" utility.
3. Select the 7450 printer icon and click the "Install" button. The remainder of the install is performed automatically.



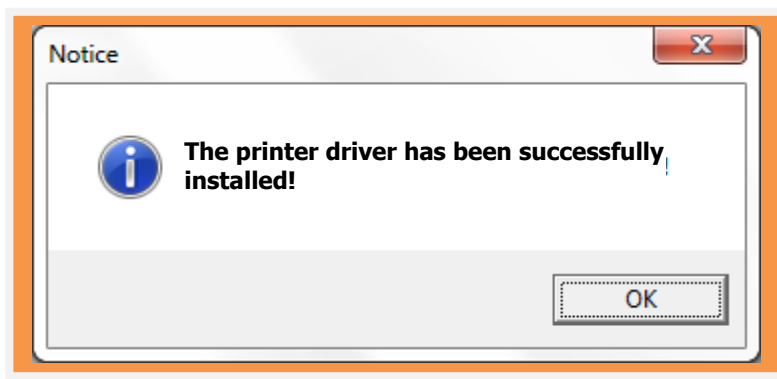
4. Should a "Windows Security" message appear, select "Install driver software anyway".



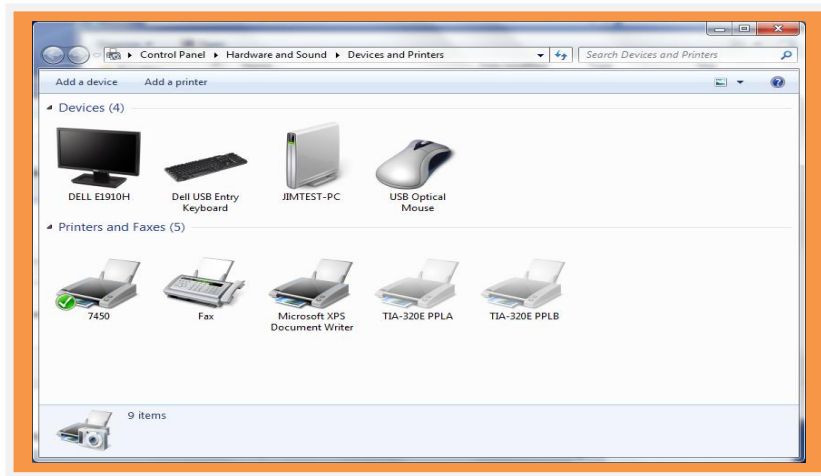
5. If using a PC/USB interface connection, verify the cable is connected and the printer is turned ON. Click the “Yes” button to continue.



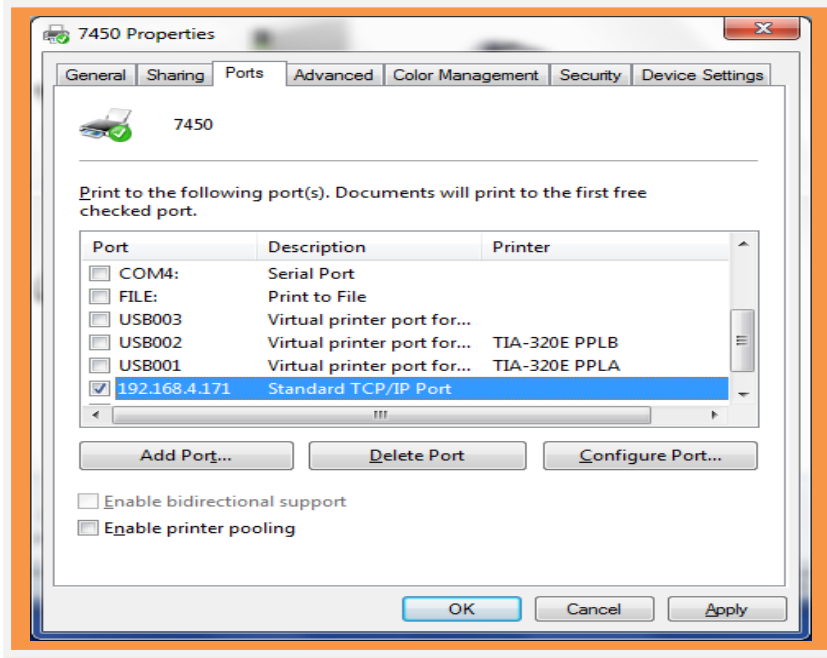
6. The printer driver installation will take a couple minutes, wait for the “Installation Successful” message to appear and click the “OK” button.



7. Close driver windows and open “Devices and Printers” from the Start button.



8. Select 7450 and right click to open Printer Properties, then go to the “Ports” tab and apply the proper port, or create a new port. Refer to the Windows HELP menu for detail instructions.



9. Select Configure Port and verify Driver Settings match printer settings. Pay special attention to Serial Port (i.e. Parity Bit, Data Length, Stop Bit, Protocol and Baud Rate). Protocol must be set to XON/XOFF.

Problem Solving

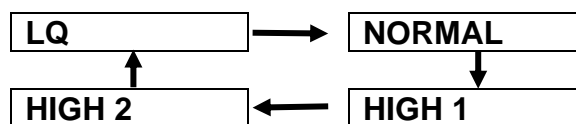
1. Printing misaligns toward the bottom of my form (skews).
 - Ensure the LEFT paper guide is squared by sliding it all the way to the right against the paper rack stop.
 - Take your time in properly aligning the form, being sure to slide it in until it stops against the feed rollers. The printer beeps up to 3 times (default is one beep).

2. Frequent Paper Jams.

- Flatten any curl at the leading edge of the form by folding it in the opposite direction. The printer will more readily tolerate leading edges that are slightly curled down rather than curled up.
- Make sure the control panel knob for form thickness is set to AUTO.
- Excessive paper thickness. Maximum allowable thickness is .020"

3. Printing speed is slow.

Press the SPEED key to select a higher speed mode.



4. Printing is light.

Check the ribbon cassette condition.

- If the surface of fabric becomes whitish, replace the cassette with a new one.

When using multipart forms:

- Change SPEED to LQ
- Press the HIGH IMPACT key to select "DARK".
- Make sure carbonless forms have not exceeded their shelf life. Try fresh forms.

5. When menu item #25 PAPER SKEW DETECT is set to YES, (factory default is NO) cut sheet paper is ejected with a SKEW ERROR message on the LCD, even though paper is loaded straight.

Dark black areas printed on the paper or the paper is narrower than 4 ½ inches.

- Set menu item #25 PAPER SKEW DETECT to "NO".

6. My printer sometimes asks for a second form when there is none.
 - The printer is misinterpreting left over control characters as more to print. Press the Online key to clear.
 - Press ALT+RESET to clear any pending data.
7. The message PAPER JAM appears, although paper is not jammed.

The paper jam sensor on the tractor assembly may not function properly if exposed to direct light or sunlight.

 - Verify there is no dark printing near the sprocket hole on the backside of fanfold paper.
 - Perform Initialization #2 sensor calibration utilizing tractor feed paper. Install rear tractor assembly and white paper, press ONLINE + LOAD/EJECT key during power ON.
 - Set menu item #26 PAPER JAM DETECT to "NO" to defeat paper jam detection.
8. The paper sensor does not detect paper (the print start position is too far down on the paper) or printer will not load paper.
 - If paper is reflective (white or light color), clean paper sensors with a soft cloth or cotton swab.
 - If paper is not reflective (black areas or dark background color), load the paper with the special DARK FORM LOAD feature.

Press the ALT+EJECT/LOAD keys. The LCD displays DARK FORM LOAD. Then fully insert the form until it seats in the fee rollers.

 - Paper sensor calibration may be off. Contact AMT Datasouth for assistance.
9. Paper out is not detected.

Printing may continue even when paper is out.

 - Make sure the paper size, the page length in the control-panel menu system is correctly set and that the settings are appropriate for the print data.
10. The message "REMOVE PAPER" appears even when the paper is ejected.
 - Clean paper sensors with a soft cloth or cotton swab.
 - Remove any paper particles or fragments from the paper sensors.
 - Contact AMT Datasouth for assistance.
11. Printed vertical lines are not straight.

Set menu item # 33 TEXT DIRECTION to "UNI-DIRECT".

12. Incorrect characters printed.

Wrong emulation.

- Verify the setting in printer menu item #15 EMULATION is compatible with the print data.
- The communication connection with the PC may be incorrect. Verify that the correct cable is attached and that is not faulty or broken.
- Verify communication parameters # 27 to # 32 in the printer's menu system are properly set.

13. Unexpected margins.

Extra or insufficient space between the print start position and the top edge of the paper.

- Adjust the top margin depending on the paper feed source used by setting parameters # 1 to # 3 TOF ADJUST in the printer's menu system.

Note: Each paper path has its own TOF ADJUST setting.

Extra or not enough space between start of printing and the **LEFT** paper edge.

- **Fine adjustment:** Change the left starting position with menu item #4 HORZ ADJ as needed. The total range is ½ inch from -15/60 inch (less margin) to +15/60 inch (more margin).
- **Coarse adjustment:** Move the left paper guide further left for more margin. Adjust the paper position by moving the tractors right or left.

Note: If you load paper at a new left paper guide position, be sure to load/eject or print at least one (1) reflective (white or light colored) form before using the DARK FORMS LOAD feature. If this is not done, the left margin will be off.

The left starting position on the paper for reflective (white or light colored) cut sheet paper remains constant as long as the left paper edge is aligned within 0~15mm mark on the printer ruler.

The printer will NOT detect and load cut sheet paper if it is inserted to the right of the 25mm mark on the printer ruler (optical sensor location).

14. Incorrect printing position from the second page of fanfold paper.

The page length may be incorrectly set.

- Set the paper length in item #5 and #6 PAGE LGTH in the printer's menu system.
- If using a print driver, check the driver and application paper size settings.

15. The last characters of a line are printing on the next line below and at the far left of cut sheet forms.

- Verify menu item # 7 RIGHT PAGE WIDTH is set to NO. This is the factory default value.
- Move the left paper guide so the paper loads further to the left by at least the number of characters printing on the wrong line. Maximum print line width is attained when the left edge of the paper is aligned to approximately 8 mm to the left of the zero (0) position on the ruler molded into printer cabinet.
- Make sure the line being printed fits within a space of 13.6 inches on the paper. This is as wide as the printer can print. Example: 136 characters maximum at 10cpi or 163 characters maximum at 12cpi.

Note. If the paper is too narrow for the data, the printer will print off the right edge of the paper onto the platen. If printing exceeds the rightmost printing capability of the printer (approximately the 340 mm position on the ruler molded into printer cabinet), surplus characters are automatically printed on the next line (the text wraps).

16. Unit continues to print previous job.

- Press ALT+RESET to clear any pending data.

17. Cannot print using Serial Port.

- Verify the printer and Driver settings are configured and matching (i.e. Serial Port, Parity Bit, Data Length, Stop Bit, Protocol and Baud Rate). Protocol must be set to XON/XOFF.
- Verify cable type is NULL MODEM and properly fastened to system and printer.

Error messages

Function errors

Function errors indicate a serious problem that cannot be recovered by the user. The printer can report 12 types of functional errors.

When a function error occurs, turn the power off, remove paper from inside the printer then turn the printer back on.

If the message remains after the above procedure, contact AMT Datasouth for assistance.

FUNCTION
ERROR 1~12

Operational error message

HEAD PROTECTION

- ONLINE lamp blinks. The print head has become too hot during high-density printing. When this message is displayed, printing speed is reduced or printing stops. When the print head temperature drops, the printer resumes normal printing.

PARK ERROR

- Indicates fanfold paper is not fed back to the parking position properly. Remove and reload paper.

PAPER OUT

- Fanfold paper is not loaded in the rear tractor. Install fanfold paper in the rear tractor and press the ONLINE key.
- A cut sheet is not loaded into the printer. Put a cut sheet on the front rack and load it into the printer.

PAPER JAM

- Paper has jammed at tractor. Pull any wrinkled paper out, reload paper in the tractors then press the ONLINE key to restart printing.
- When the PAPER JAM error message appears despite there being no actual paper jam, perform tractor Initialization #2 to calibrate tractor paper sensor. Should Initialization #2 not work, set menu #26 PAPER JAM DETECT to NO.

REMOVE PAPER

- A cut sheet did not eject properly. Remove the paper manually.
- This also naturally occurs at the end of a print job or EJECT/LOAD function and the paper has not yet been removed from the paper rack.

SKEW ERROR

This error occurs if menu item # 25 PAPER SKEW DETECT has been changed to YES and the printer detects that a cut sheet paper is loaded at an angle beyond the printer's ability to square it.

- The ERROR lamp blinks, the buzzer sounds three times and the paper is ejected.
- Reload the paper straight.

This error also occurs if the paper is loaded straight but is too narrow.

- To load cut sheets narrower than 4 ½ inches, verify menu item # 25 PAPER SKEW DETECT has been disabled (set to NO).

COVER OPEN

- This error occurs if the front cover is opened and causes the ONLINE lamp to blink.
- Closing the front cover clears the error.
- Press the ONLINE key to put the printer back online (ONLINE lamp on steady).

**CAUTION**

Never open the front cover during printing. Press the ONLINE key first to stop printing and then open the front cover.

JAM SENSOR

The jam sensor is defective.

- Press the ONLINE key to clear the error.
- Press the EJECT/LOAD key to unload paper as needed.
- Make sure the jam sensor on the tractor is clear of paper pieces and is clean.
- Reload fanfold paper.

NOTE: The paper jam sensor may not function properly if it is exposed to a direct light or sunlight. Relocate the printer as needed.

Printer Specifications

Printing Method	Serial Impact Dot Matrix Flatbed, Straight Paper Path
Print Head	24 Pin
Max Print Line	13.6"
Multipart Printing	Up to 7 Part .020" Max Thickness
Cut Sheet Loading	Automatic Optical Paper Detection Optical Paper Edge Detection Dark Forms Load mode (no paper detection)
Paper Paths	Rear Tractor Front Cut Sheet Control Panel Selectable
Paper Exit	Front or Rear Exit
Head Gap Adjustment	Auto, with Manual Override
Interfaces - Auto Switching	USB (2.0 Full-Speed) RS232 Serial (9-pin) Ethernet (10/100 Base-T)
Input Buffer	132 K Byte
Emulations	F & I IBM Epson OKI
Font Typeface	ASCII: Roman, Sans Serif, Courier, Prestige, Script, Goth, OCR-A, Orator
Setup Memory	6 Setup Profiles

Power	AC 120 V, 60Hz (USA and Canada)	
Power consumption	LQ	110W
	Standby	4.9W
	Sleep	14W
Operating temperature	41 to 95°F	
Operating humidity	25 to 80% (Non condensing)	
Operating Noise	58dBA (LQ print mode)	
Rear Operating Clearance	Fanfold Paper: 2" plus Paper Length Manual Cut Sheets: Paper Length Minus 9"	
Dimensions	25"(w) x 18.3"(d) x 11.6"(h) with tractor installed	
Weight	51lb	

Paper specifications

Fanfold Paper	3" to 15" wide
Cut Sheet Paper	2" to 15" wide

Consumables

Ribbon cassette	Black 20M Draft Characters
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