

**GENICOM**

**MODEL 930/935  
USER'S MANUAL**

**GEK-89363**

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# Safety

This printer has been carefully designed to give you years of safe, reliable performance. As with all electrical equipment, there are a few basic precautions you should take to avoid hurting yourself or damaging the printer:

- Read the setup and operating instructions in this manual carefully. Be sure to save it for future reference.
- Read and follow all warning and instruction labels on the printer itself.
- Unplug the printer before you clean it. Use only a damp cloth; do not use liquid or aerosol cleaners.
- Place your printer on a firm, solid surface. If you put it on something unsteady, it might fall and be damaged; if you place it on a soft surface, such as a rug, sofa, or bed, the vents may be blocked, causing it to overheat.
- To protect your printer from overheating, make sure no openings on the printer are blocked. Do not put the printer on or near a heat source, such as a radiator or heat register. If you put the printer in any kind of enclosure, make sure it is well ventilated.
- The printhead can get quite hot when it has been printing for a length of time. Do not touch the printhead until it has had a chance to cool off.
- Do not use your printer near water, or spill liquid of any kind into it.
- Be certain that your power source matches the rating listed on the back of the printer. If you are not sure, check with your dealer or with your local power company.
- Your printer has a grounded, 3-prong plug as a safety feature, and it will only fit into a grounded outlet. If you can not plug it in, chances are that you have an older, non-grounded outlet; contact an electrician to have it replaced with a grounded outlet. Do *not* use an adapter to defeat the grounding.
- The printer must be installed near a power outlet which will remain easily accessible.
- To avoid damaging the power cord, do not put anything on it or place it where it will be walked on. If the cord becomes damaged or frayed, replace it immediately.

- If you're using an extension cord or power strip with the printer, make sure that the total of the amperes required by all the equipment on the extension is less than the extension's rating. Generally, the total ratings of all equipment plugged into any one power line should not exceed 15 amperes. Don't exceed this unless you know that the power line your equipment is plugged into has a rating above 15 amperes.
- Do not poke anything into the ventilation slots on the sides of the printer; you could get a shock or cause a fire.
- Aside from the routine maintenance described in this handbook, don't try to service the printer yourself; opening the cover may expose you to shocks or other hazards. Don't make any adjustments other than those outlined in the handbook — you might cause damage requiring extensive repair work.
- If anything happens that indicates that your printer is not working properly or has been damaged, unplug it immediately. These are some of the things to look for:
  - The power cord or plug is frayed or damaged.
  - Liquid has been spilled into the housing, or the printer has been exposed to water.
  - The printer has been dropped or its cabinet has been damaged.
  - The printer doesn't function normally when you're following the operating instructions.

# Section 1: Getting Started

## Features

- Super reliable, durable operation: 10,000 hours MTBF!
- Expandable head gap for handling forms up to 0.031" (0.79 mm) thick through the bottom feed path using the optional push and/or pull tractor.
- Advanced paper handling, with built-in rear push tractor and zero-tear forms capability
- Blazing print speeds:
  - 300 cps in Utility mode
  - 390 cps in High Speed Draft (HSD) mode
  - 435 cps in Super Speed Draft (SSD) mode

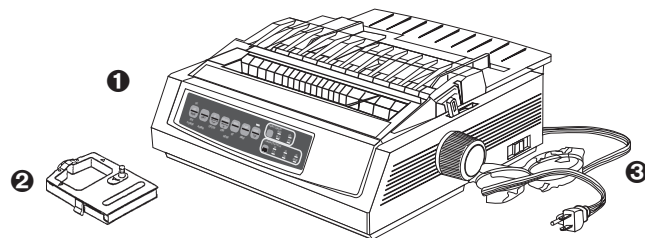
## Optional Accessories

- Top-Mount Pull Tractor
- Serial Interface Board

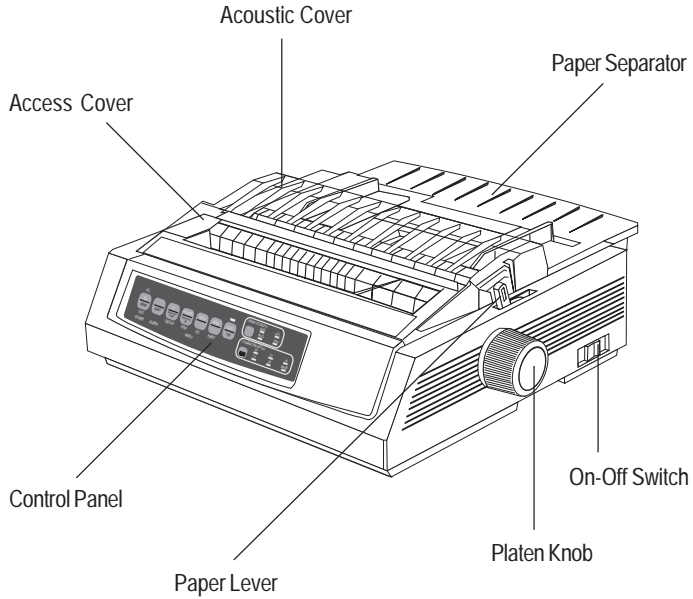
## Unpacking

- ① Printer      ② Ribbon cartridge      ③ Power Cord

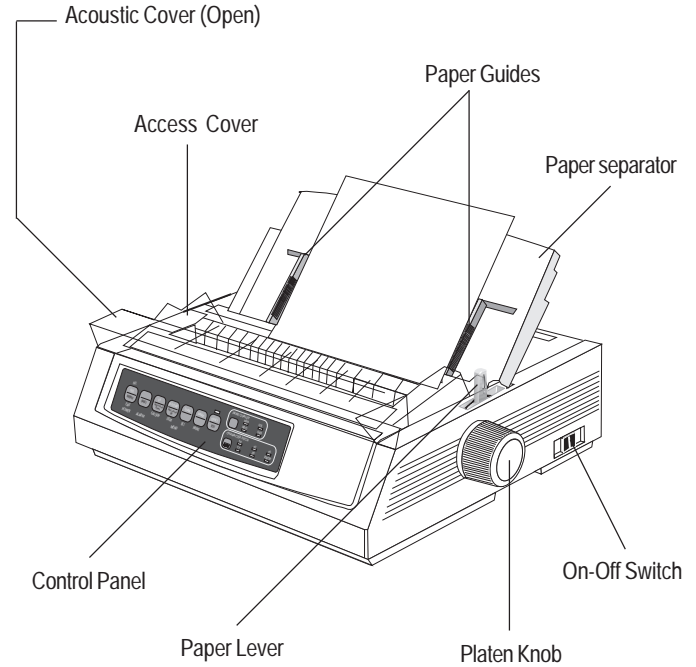
Any of the above missing? Contact your dealer.



# Getting to Know Your Printer



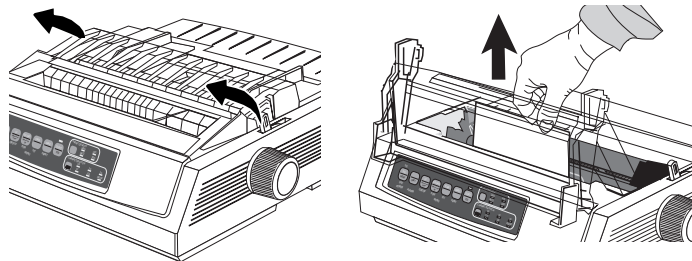
Set up for Rear Feed of Continuous Forms



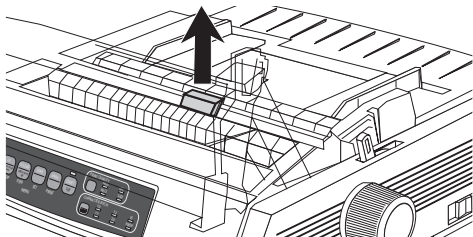
Set up for Single-Sheet Feed

## Removing the Shipping Restraints

1. Open the access cover and remove the printhead shipping retainer.

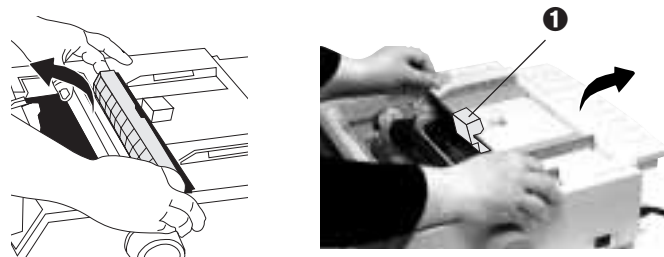


2. Remove the shipping retainer behind the pull-up roller assembly.

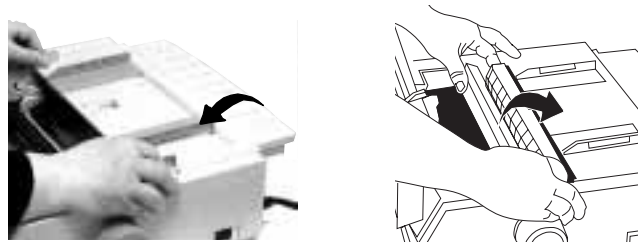


3. Remove the pull-up roller, then lift off the paper separa-

tor and remove its shipping retainer.



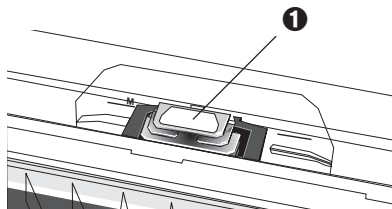
4. Replace the paper separator and the pull up roller assembly.



*Note: Save the shipping retainers and the packing material in case you ever need to ship the printer.*

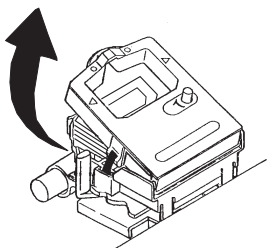
## Installing/Replacing the Ribbon Cartridge

1. *Make sure the printer is turned OFF.*
2. Center the printhead (❶).



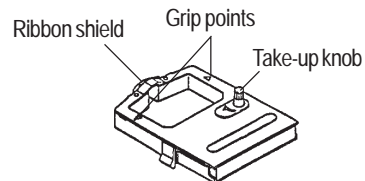
3. *If you are replacing the ribbon:* swing the front of the cartridge up off the printhead, then lift the cartridge out and discard it.

**Caution!** *The printhead may be HOT!*

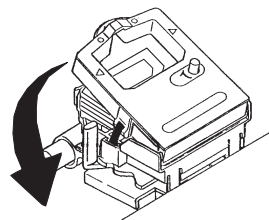


4. Unpack the ribbon cartridge.

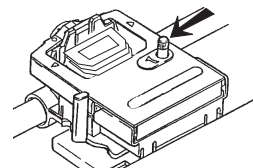
**Important!**  
**Do NOT remove the ribbon shield from the ribbon!**



5. Install the new ribbon cartridge.



6. Turn the take-up knob in the direction of the arrow to take up any ribbon slack.



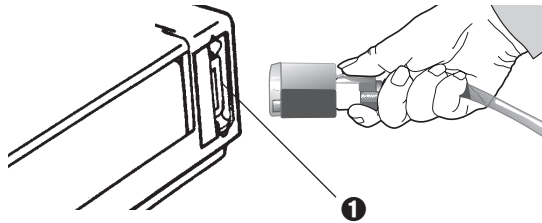


## Connecting to the Computer

*Note: An IEEE 1284-compatible parallel cable is needed. FCC regulations require the use of a **shielded** cable no longer than 6 ft. (1.8 m).*

*If you purchased the Serial Interface accessory, see the instruction sheet provided with it.*

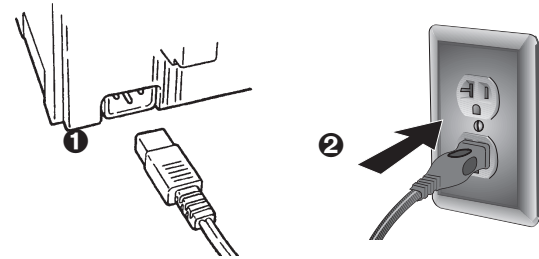
1. Plug the interface cable into the parallel port (❶) and secure it with the wire loops.



2. Attach the other end of the cable to your computer.

## Connecting to the Power

1. **Make sure both the printer and the computer are OFF.**
2. Plug the power cord into the back of the printer (❶), then into a grounded outlet (❷).



3. Turn the printer on.

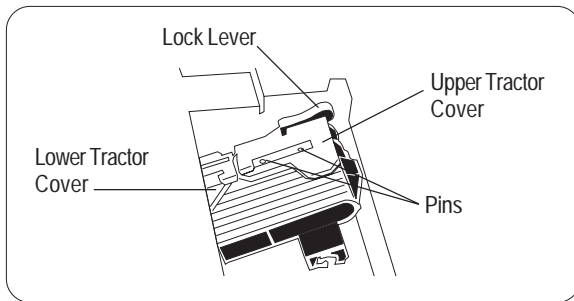


## Loading Paper

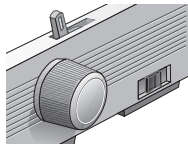
### Loading Continuous Forms (Rear Feed)

We recommend the rear-feed path for printing reports, etc., on single-thickness, continuous-form paper. For graphics or charts, it's best to use the single-sheet path (top feed).

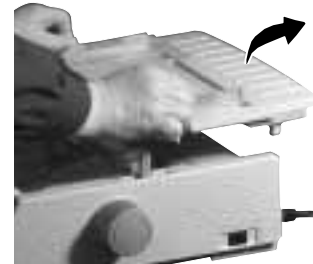
*Note: If you have paper in the top paper path, be sure to remove it before installing rear-feed paper.*



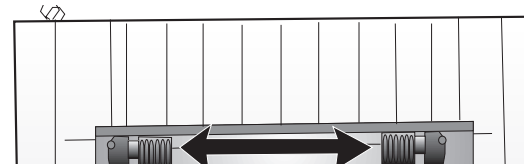
1. Move the paper lever to the position marked "REAR."



2. Grasp the paper separator by the tabs and lift it off the printer.



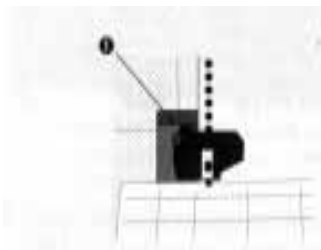
3. Pull up on the lock levers and open the tractor covers, then move the right tractor over to fit the width of the paper.



5. Place the first two holes in the paper over the tractor pins on either side and close the tractor covers.



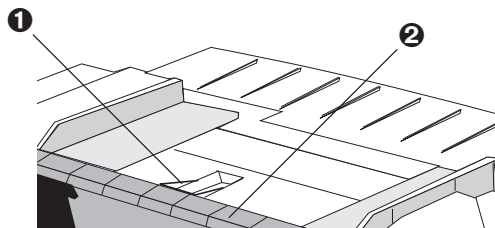
6. Move the left tractor to align the edge of the paper with the appropriate reference mark (❶), and push back the lock lever.



7. Fine-tune the position of the right tractor to center the holes in the paper on the pins, and push back the right lock lever.



8. Reinstall the sheet guide and place the wire guide (❶) on the pull-up roller assembly (❷).



9. Press **FF/LOAD**. The paper feeds into the printer.

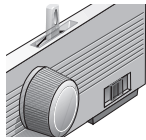
***Note:** The standard setting for the Top of Form (where the printing begins) is 1" down from the top of the page. To change the setting, see page 9.*

## Loading Single Sheets (Top Feed)

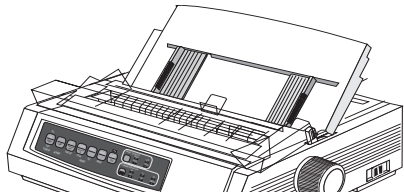
Use the single-sheet path for letterhead stationary, memos, and individual envelopes.

**Note:** If you have continuous-form paper in the path, press **PARK** to remove it before loading single sheets.

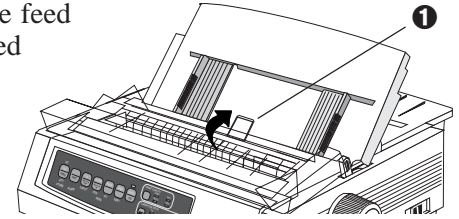
1. Make sure the printer is on and deselected (SEL light off).
2. Place the paper lever in the position marked “TOP.”



3. Open the carriage cover and lift the paper separator to the single-sheet position.



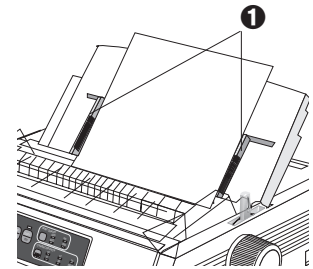
4. Make sure the wire feed guide (❶) is secured in the sheet guide.



5. Adjust the paper feed guides (❶) for the width of the paper and place a sheet of paper in the separator. The paper will feed into the printer.

### **Important!**

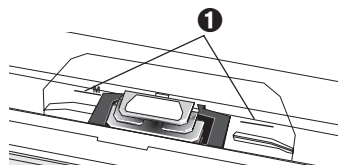
**If the paper does not feed in, remove it. Check the paper lever position. Make sure the ALARM light is on: if it is flashing, hold the SHIFT key and press the CHARACTER PITCH (RESET) key. Reload the sheet of paper.**



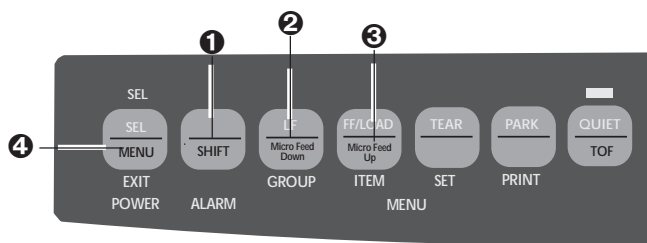
**Note:** The standard setting for the Top of Form (where the printing begins) is 1" down from the top of the page. To change the setting, see page 9.

## Setting the Top of Form (TOF)

When setting the Top of Form, use the red line (❶) on the paper shield as a reference:



1. Make sure the printer is deselected (SEL light off).



2. Press and hold **SHIFT** (❶), then
  - ➡ Press **LF** (❷) to move Top of Form higher (paper moves down)
  - ➡ Press **FF/LOAD** (❸) to move Top of Form lower (paper moves up)
3. Press **SEL** (❹) to re-select the printer.

## Temporarily Changing the Print Start Position

To change the print start position lower *for one page only*:

1. Press **SEL** to deselect the printer.
2. Press **LF** to change the position of the Top of Form.

## Resetting TOF to the Standard Setting

1. Turn the printer off.
2. Hold **PARK + QUIET/TOF** while turning the printer back on.

## Switching Paper Paths

To switch from continuous-forms to single-sheet feed:

1. Tear off any printed pages.
2. Press **PARK**.
3. Move the paper separator to the single-sheet feed position.
4. Place the wire feed guide in the paper separator.
5. Move the paper lever to the position marked “TOP.”
6. Place a sheet of paper in the paper separator.

### To switch from single-sheet feed to continuous forms:

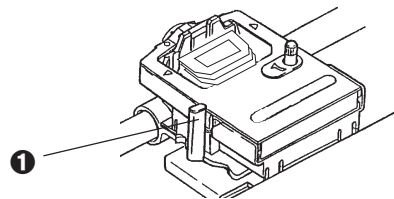
1. Press **FF/LOAD** to remove the single-sheet paper.
2. Lower the paper separator into the continuous-forms position and swing the wire feed guide over onto the pull-up roller.
3. Move the paper lever to the position marked “REAR” or “BOT,” as appropriate.
4. If necessary, load continuous-form paper.
5. Press **FF/LOAD**.

### Setting the Printhead Gap

The printhead gap is the distance between the printhead and the platen.

*Note: Make sure the printer is turned off before you open the access cover.*

To adjust the gap, open the access cover and move the blue lever (❶) to the recommended setting from the table.



Media	Setting
12-20 lb paper .....	1
20-24 lb bond paper .....	2
Labels .....	3-4
Envelopes .....	4-5
2-part form (with carbon) .....	1-2
3-part form (with carbon) .....	2-3
4-part form (with carbon) .....	3-4
5-part form (with carbon) .....	4-5
6-part form (with carbon) .....	5

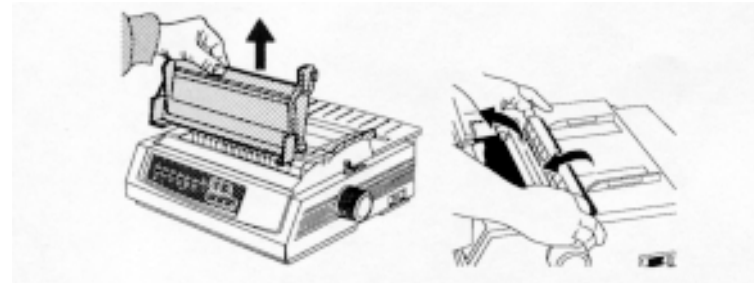
## Engaging the Expanded Printhead Gap

For *dedicated* bottom-feed printing on multi-part forms thicker than 0.017-inch (0.43 mm)—up to maximum of 0.031-inch (0.79 mm)—the expanded printhead gap feature needs to be engaged. This will expand the printer's head gap settings for extra-thick forms and heavy card stock, and will increase the impact strength of the pins in the printhead.

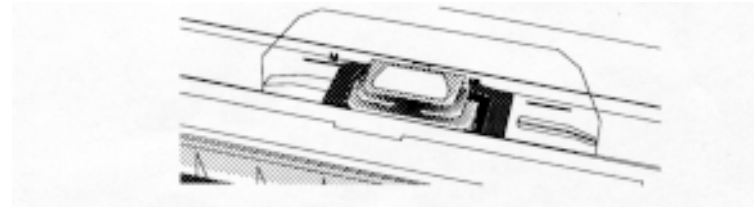
**CAUTION!** *Once the expanded printhead gap is engaged, do not print on single sheets or rear-feedforms without changing it back. THIS WILL DAMAGE THE PRINthead AND VOID THE WARRANTY. To disengage the expanded printhead gap, perform the steps below in reverse.*

To engage the expanded printhead gap:

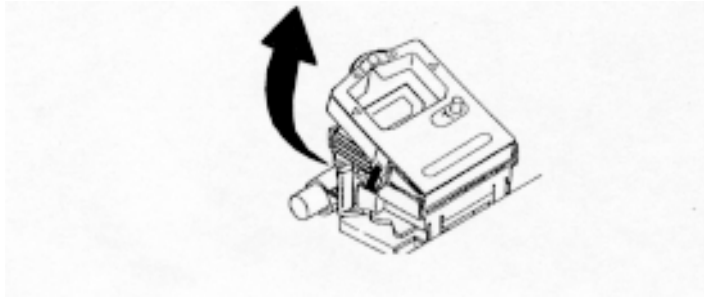
1. Turn the printer off.
2. Remove the access cover and the pull-up roller assembly.



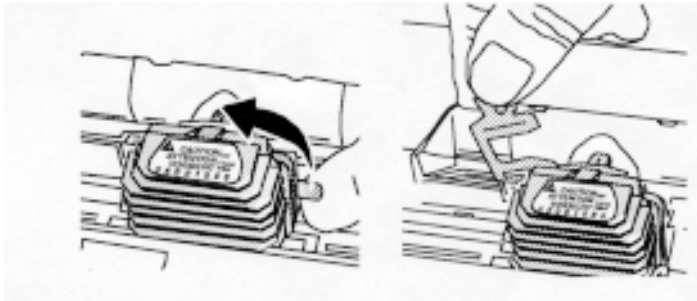
3. Move the printhead to the center of the platen.



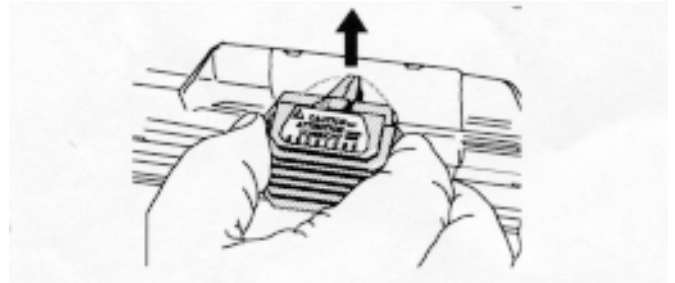
4. Remove the ribbon cartridge.



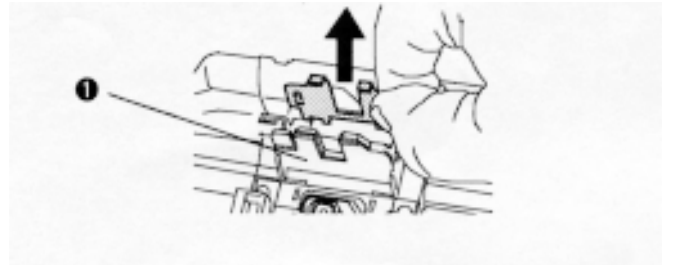
5. Swing up the printhead clamp, then remove it by pushing forward (toward the platen) and to the left.



6. Remove the printhead.

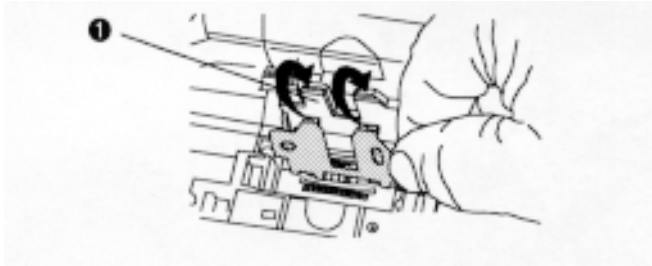


7. Lift the printhead plate off the carriage assembly (1).





8. Turn the printhead plate around and reinsert it on the other side of the carriage assembly (1).



9. Replace the printhead, making sure that the circuit board at the bottom of the printhead firmly engages the slot (1) in the carriage.



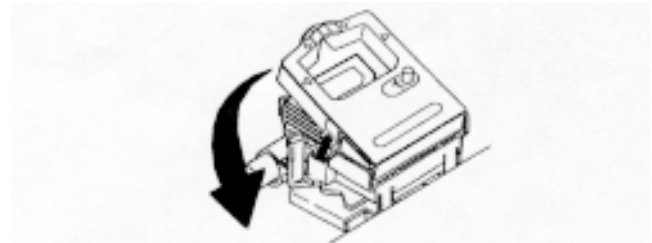
**Caution!** Be sure the printhead is **fully inserted** before proceeding.

10. Reinstall the printhead clamp and swing it back over to lock the printhead in place.

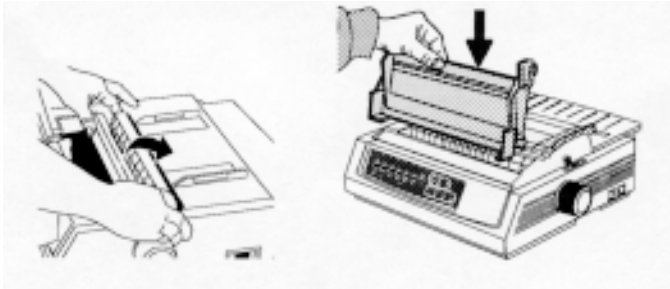


**Important!** The clamp must be between the black projection on the printhead and the metal plate on the carriage, on both sides.

11. Reinstall the ribbon cartridge.



12. Replace the pull-up roller assembly and the access cover, then turn the printer on.



13. Change the printer's secondary menu (make sure paper is loaded!) to engage the expanded printhead gap:





- a) Press **SEL + TEAR** while turning the printer back on.
- b) Press **LF** to advance through the menu to the Technical group (last option in menu).

c) Press **FF/LOAD** to advance through the items to Expanded Gap.

d) Press **TEAR** to change the setting for Expanded Gap to Valid.

e) Press **SHIFT + SEL** to exit the menu and save your setting.

## Running the Self Tests

Font Sample Test	ASCII Test
<p><i>To run the test:</i></p>  <p>Turn the printer off, then press and hold the <b>LF</b> key while turning the printer back on.</p>	<p><i>To run the test:</i></p>  <p>Turn the printer off, then press and hold the <b>QUIET</b> key while turning the printer back on.</p>
<p><i>To stop the test before it finishes:</i></p>  <p>Press <b>SEL</b>.</p>	<p><i>To stop the test:</i></p>  <p>Press <b>SEL</b>.</p>

## Selecting an Emulation

Your printer has four emulations:

- Epson® FX (ESC/P)
- IBM® Proprinter III (PPSII)
- TI 855 DP and TI 855 WP

## Changing Emulations

1. Make sure paper is loaded.
2. Press **SHIFT + SEL**: the printer enters the Menu Mode.
3. Press **LF**: the following line prints:  
`Printer Control Emulation Mode IBM PPR`
4. Press **TEAR** consecutively until the emulation you wish to select prints in the right-hand column.
5. Press **SHIFT + SEL** to save your setting and exit the Menu Mode.

## Selecting a Printer Driver

Before you can use your printer with software, you must enter the software and select the correct printer driver. If you have the wrong driver selected, you will see strange characters, incorrect fonts, etc.

***Important!** See your software documentation for information on how to select a printer driver.*

### Printer Drivers

The drivers below are listed by **decreasing** compatibility with your printer: *use one as close to the top of the list as possible.*

<b>Epson FX</b> GENICOM 930/935 Epson FX286e Epson FX 850/1050 Epson FX 800/1000 Epson FX	<b>IBM Proprinter III</b> GENICOM 930/935 IBM Proprinter III IBM Proprinter II IBM Proprinter IBM Graphics Printer
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# Section 2: *Maintaining Your Printer*

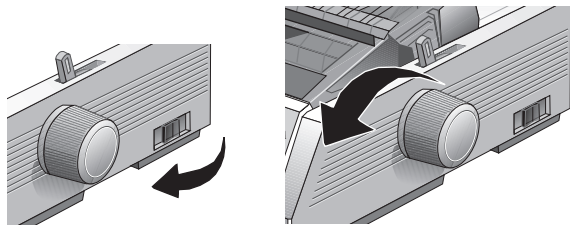
## Replacing the Ribbon Cartridge

To replace the ribbon cartridge, see “Installing/Replacing the Ribbon Cartridge” in Section 1.

## Clearing Paper Jams

### Rear-Feed Jams

1. *Turn the printer OFF* and use the platen knob to back the paper all the way out.



2. Open the access cover, and remove the pull-up roller assembly.

*Note: Make sure the printer is turned off before you open the access cover.*

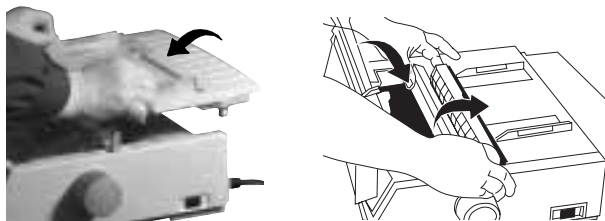


3. Remove any torn pieces of paper.

4. Remove the paper separator and reload paper.



5. Replace the the paper separator, replace the pull-up roller assembly, and close the access cover.



6. Turn the printer on.



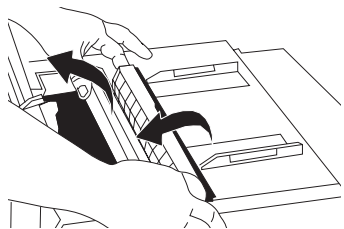
7. Press **FF/LOAD**.



## Correcting Repetitive Rear-Feed Jams

If the paper keeps jamming, you probably have bits of paper stuck in the paper path.

1. Turn the printer off, then turn the platen knob to back the paper out of the printer.
2. Open the access cover and remove the pull up roller assembly: remove any torn pieces of paper.



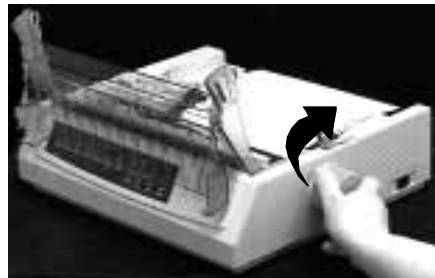
3. Remove the paper separator.



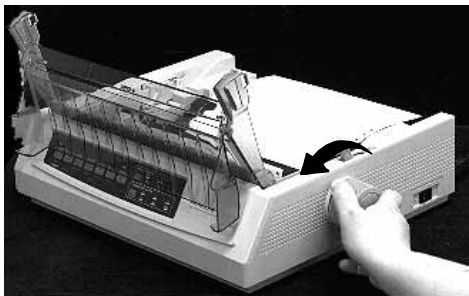
4. Fold some continuous-form paper over three times to make a page four sheets thick, load it on the tractors and close the covers.



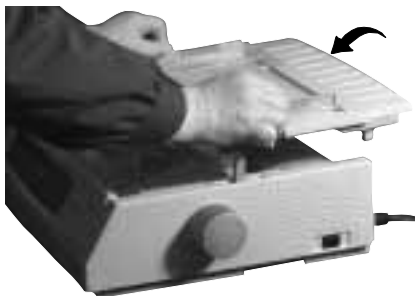
5. Use the platen knob to draw the quadruple-thick page around the platen: this brings out any jammed bits of paper.



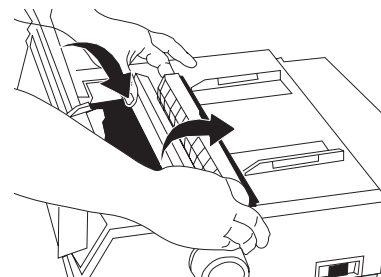
6. Remove the paper pieces, and use the platen knob to back the paper out.



7. Reload regular paper and reinstall the paper separator.



8. Replace the pull-up roller assembly, and close the access cover.



9. Turn the printer on.



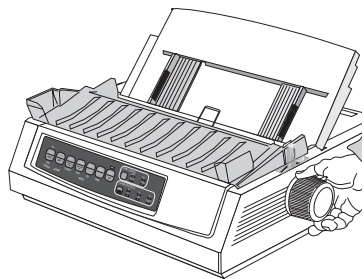
10. Press **FF/LOAD**.



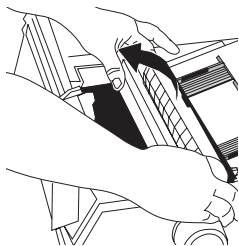


## Single-Sheet Jams

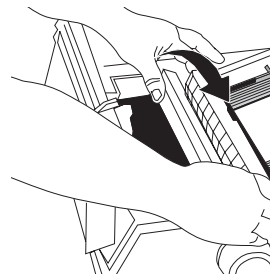
1. Turn the printer off.
2. Use the platen knob to back the jammed paper out.



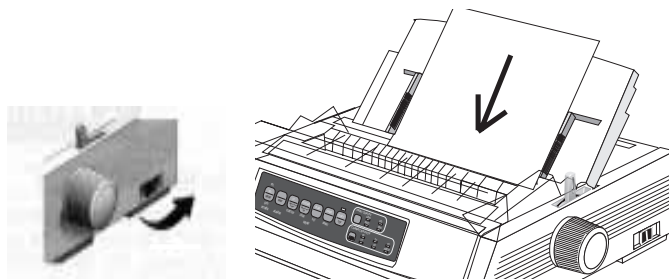
3. Open the access cover and remove the pull-up roller assembly.



4. Remove any torn pieces from around the carriage.
5. Reinstall the pull-up roller assembly, and close the access cover.



7. Turn the printer on, and reload paper.

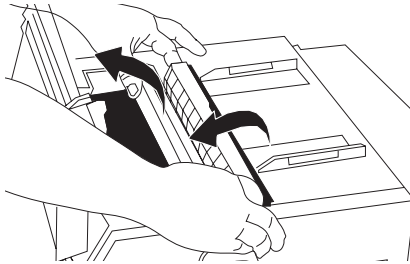


## Cleaning the Housing

You should clean the printer every six months (or after about 300 hours of operation).

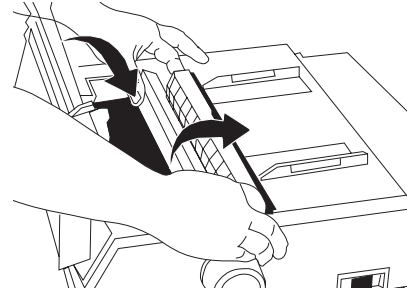
**Note:** *Never use solvents or strong detergents on the cabinet: they could damage the housing.*

1. Turn the printer off, and remove any paper from the path.
2. Open the access cover, remove the pull-up roller assembly.



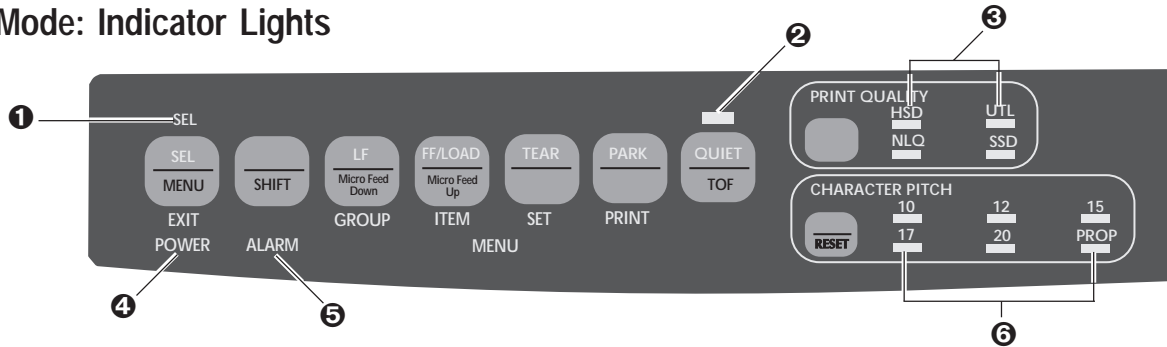
3. Use a clean, dry cloth to dust around the carriage shaft

- and platen. Remove any loose bits of paper.
4. Reinstall the pull-up roller assembly, and close the access cover.



# Section 3: Using Your Printer

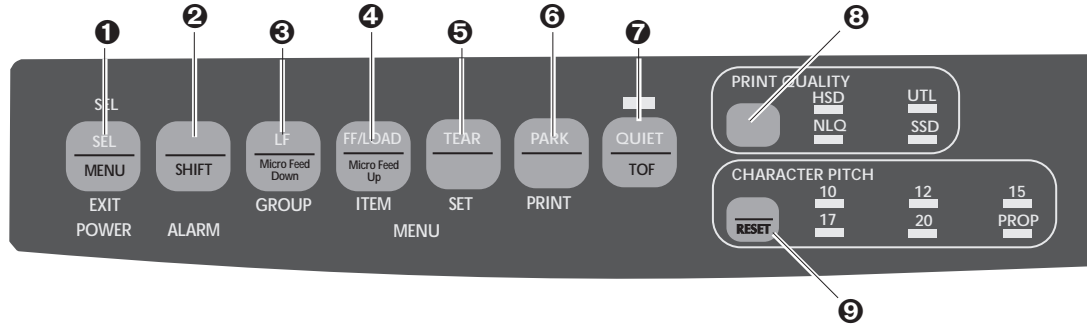
## Print Mode: Indicator Lights



- ❶ SEL:** Glows = printer selected, ready to receive data  
Flashes = printer in Print Suppress Mode  
Not lit = printer deselected (cannot receive data)
- ❷ QUIET:** Glows to indicate that printer is in Quiet state.
- ❸ HSD / UTL / NLQ / SSD:** Indicate print quality selected.
- ❹ POWER:** Glows when printer is turned on.

- ❺ ALARM:** Glows = error condition exists:
  - out of paper (no other lights blinking)
  - paper jam if 15 cpi light is also blinking
  - paper lever is set to wrong position if 10 cpi light is also blinking.Blinks = error condition. Turn printer off, then on; if light still flashes, contact service dealer.
- ❻ 10 / 12 / 15 / 17 / 20 / PROP:** Indicate character pitch selected.

## Print Mode: Control Panel Keys



- |  |  |
|--|--|
| <p><b>1 SEL:</b> Selects/deselects printer. When held on power up, or with SHIFT key, engages Menu Mode: see page 22.</p>                                  | <p><b>5 TEAR:</b> Moves continuous-form paper up for tear-off or back down for printing.</p>                                 |
| <p><b>2 SHIFT:</b> Press and hold while pressing another switch to engage the alternate function for that switch (e.g., “Micro Feed Down” for LF key).</p> | <p><b>6 PARK:</b> Retracts continuous-form paper from the path</p>   |
| <p><b>3 LF:</b> Moves paper up one line: press and hold for repetitive line feeds. When held on power up, activates Font Test.</p>                         | <p><b>7 QUIET:</b> Turns Quiet Mode on and off. When held on power up, activates Rolling ASCII Test.</p>                     |
| <p><b>4 FF/LOAD:</b> Loads/ejects single sheet of paper; loads continuous-form paper or feeds it to next page.</p>   | <p><b>8 PRINT QUALITY:</b> Selects print quality and font.</p>   |
|  | <p><b>9 CHARACTER PITCH:</b> Selects the character pitch. Used with SHIFT key to reset the printer and clear the buffer.</p> |

## Selecting the Print Quality

### **Important!**

Front panel settings for print quality and character pitch are overridden by software commands. The lights will always reflect the printer's state.



Press **PRINT QUALITY** to select:

### **NLQ: Near Letter Quality**

- Highest quality, slowest speed
- Courier or Gothic fonts
- Recommended for correspondence

### **UTL: Utility**

- Medium quality, medium speed
- Gothic font only
- Recommended for internal documents and high-volume data

### **HSD: High Speed Draft**

- Lower quality, faster speed
- Gothic font only
- Recommended for drafts

### **SSD: Super Speed Draft**

- Lowest quality (12 cpi only), fastest speed
- Gothic font only
- Recommended for fastest output of drafts

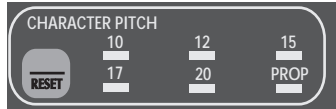
## Using Super Speed Draft

To use Super Speed Draft (12 cpi only), enter the Menu Mode and make changes as follows:

1. Press **SHIFT + SEL**.
2. Press **GROUP** twice.
3. Press **SET** until DRAFT prints as the setting for the Print Mode.
4. Press **ITEM**.
5. Press **SET** (SSD prints).
6. Press **SHIFT + SEL** to exit Menu Mode and save your changes.

## Selecting the Character Pitch

Press **CHARACTER PITCH/RESET** to select the width of characters in characters per inch, or Proportional:



### 10 cpi

- Recommended for standard text
- Not available for SSD

### 12 cpi

- Recommended for standard text
- Yields more text per page

### 17.1 cpi, 20 cpi

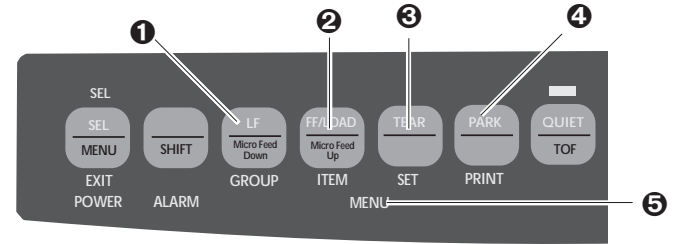
- Recommended for spreadsheets
- Smallest print
- Not available for SSD

### PROP

- Recommended for a more polished appearance.
- Proportional spacing
- NLQ and Utility only

## Menu Mode: Control Panel

In the Menu mode, you can use the front panel buttons to change the defaults for the printer parameters. The changes you make in the Menu mode are automatically saved when you exit the Menu mode and are retained even if you turn the printer off.



- 1 GROUP:** Prints the next Group in the Menu. With the **SHIFT** key, prints the previous Group.
- 2 ITEM:** Prints next Item in the Group. With the **SHIFT** key, prints previous Item in the Group.
- 3 SET:** Prints next Setting for an Item. With the **SHIFT** key, prints previous Setting for an Item.
- 4 PRINT:** Prints a copy of all the Menu settings. With the **SHIFT** key, prints the current settings for the Group selected.
- 5 MENU light:** Glows when the printer is in the Menu Mode.

## Entering and Exiting the Menu Mode

To enter or exit the Menu Mode, hold **SHIFT** while pressing **SEL**.

## Resetting the Menu

To reset the Menu to the standard settings:

1. Turn the printer *off*.
2. Press **SEL** + **LF** while turning the printer on.

## Printing the Menu Settings

1. Make sure paper is loaded in the printer.
2. Enter the Menu Mode (**SHIFT** + **SEL**).
3. Press **PRINT** (PARK key).

**Note:** *To print out a listing of the settings for all menu items, regardless of the emulation selected or the accessories installed, enter the Menu Mode, then press **SHIFT** + **PRINT QUALITY**.*

## Changing the Menu Settings

1. Press **SHIFT** + **SEL** to enter the Menu Mode.
2. Use the **GROUP**, **ITEM** and **SET** keys to make your changes:
  - ▶ Press **GROUP** until the Group you wish to change appears in the first column.
  - ▶ Press **ITEM** until the Item you wish to change appears in the second column.
  - ▶ Press **SET** until the setting you want appears in the third column.
3. Press **SHIFT** + **SEL** to exit the Menu Mode and save your settings.

**Important!** *If you turn the printer off without first exiting the Menu Mode, the changes you have made will be lost.*

## Summary of Menu Settings

The table below shows the items which may appear in the menu. Settings which are engaged at the factory (defaults) are set in ***bold italic***. Some groups or entries will only appear when a specific emulation is engaged, as noted.

Group	Item	Setting
Printer Control	Emulation Mode	IBM PPR, EPSON FX, <b><i>TI 855 DP</i></b> , TI 855 WP
Font	Print Mode Draft Mode Pitch Proportional Spacing Style Size	<b><i>Utility</i></b> , NLQ Courier, NLQ Gothic, DRAFT <b><i>HSD</i></b> , SSD <b><i>10 cpi</i></b> , 12 cpi, 15 cpi, 17.1 cpi, 20 cpi <b><i>No</i></b> , Yes <b><i>Normal</i></b> , Italics <b><i>Single</i></b> , Double
Symbol Sets	Character Set Language Set  Zero Character Code Page	<b><i>IBM Set I(Standard)</i></b> , Line Graphics <b><i>American</i></b> , French, German, British, Danish I, Swedish, Italian, Spanish I, Japanese, Norwegian, Danish II, Spanish II, Latin American, French Canadian, Dutch, Publisher <b><i>Slashed</i></b> , Unslashed <b><i>USA</i></b> , Canada French, Multilingual, Portugal, Norway, BRASC II, Abicom
Rear Feed	Line Spacing Form Tear-Off Skip Over Perforation Page Width (wide model only) Page Length	<b><i>6 LPI</i></b> , 8 LPI <b><i>Off</i></b> , 500 mS, 1 sec, 2 sec <b><i>No</i></b> , Yes <b><i>13.6"</i></b> , 8" <b><i>11"</i></b> , 11-2/3", 12", 14", 17", 3", 3.5", 4", 5.5", 6", 7", 8", 8.5"



<b>Group</b>	<b>Item</b>	<b>Settings</b>
Bottom Feed	Line Spacing Form Tear-Off Skip Over Perforation Page Width (wide model only) Page Length	<b>6 LPI</b> , 8 LPI <b>Off</b> , 500 mS, 1 sec, 2 sec <b>No</b> , Yes <b>13.6"</b> , 8" <b>11"</b> , 11-2/3", 12", 14", 17", 3", 3.5", 4", 5.5", 6", 7", 8", 8.5"
Top Feed	Line Spacing Bottom Margin Page Width (wide model only) Page Length Wait Time Page Length Control	<b>6 LPI</b> , 8 LPI <b>Valid</b> , Invalid <b>13.6"</b> , 8" <b>11"</b> , 11-2/3", 12", 14", 17", 3", 3.5", 4", 5.5", 6", 7", 8", 8.5" 500 mS, <b>1 sec</b> , 2 sec By MENU Setting, <b>By Actual Page Length</b>
Set-Up	Graphics Receive Buffer Size Paper Out Override Print Registration  Operator Panel Function	Bi-directional, <b>Uni-directional</b> 1 Line, <b>16K</b> , 28K <b>No</b> , Yes <b>0</b> , set in 0.05 mm increments: press SEL to shift registration to the left; press SHIFT + SEL to shift registration to the right. <b>Full Operation</b> , Limited Operation

<b>Group</b>	<b>Item</b>	<b>Settings</b>
Set-Up (continued)	Reset Inhibit Print Suppress Effective Auto LF Auto CR <sup>+</sup> SI Select Pitch (10 cpi) <sup>+</sup> SI Select Pitch (12 cpi) <sup>+</sup> Time Out Print Auto Select Centering Position	<i>No</i> , Yes <i>Yes</i> , No <i>No</i> , Yes <i>No</i> , Yes <i>17.1 cpi</i> , 15 cpi 20 cpi, <i>12 cpi</i> <i>Valid</i> , Invalid <i>No</i> , Yes <i>DEFAULT</i> , MODE 1, MODE 2
Parallel I/F	I-Prime Pin 18 Auto Feed XT*	<i>Buffer Print</i> , Invalid, Buffer Clear +5V, Open <i>Invalid</i> , Valid

<sup>+</sup> Appears only when the IBM emulation is selected.

<sup>\*</sup> Applies only when the Epson emulation is selected.

## Explanations of Menu Items

**Auto CR (IBM).** If you want the printer to automatically add a carriage return when a Line Feed is received at the end of a line, change the setting to Yes.

**Auto LF.** If your printout is consistently double spaced, select No; if it overprints, select Yes.

**Auto Feed XT (Epson).** If your system uses pin 14 of the parallel interface to control automatic line feed, change the setting to Valid.

**Auto Select.** If you always use the same Top of Form position, change the setting to Yes.

**Bottom Margin.** Change to Invalid if you want the printer to ignore the bottom margin setting. *Caution!! This can cause loss of data and damage the printhead.*

**Centering Position.** Used to limit printhead travel when printing narrow columns. Select Mode 1 for Model ML320; select Mode 1 or Mode 2 for Model ML321.

**Character Set.** Choose Standard (IBM Set I) or Line Graphics ( IBM Set II) .

**Code Page.** Choose the Code Page character set you wish to use: USA (IBM 437), Canada French (IBM 863), Multilingual (IBM 850), Portugal (IBM 860), Norway (IBM 865), BRASC II, or Abicomp.

**Draft Mode.** Change to SSD if you wish to use the Super Speed Draft mode of printing. *Note: Print Mode must be set to DRAFT for this setting to be effective.*

**Emulation Mode.** Choose the printer emulation.

**Form Tear-Off.** Choose 500 mS, 1 sec, or 2 sec to turn the Form Tear-Off feature on and to set the time interval for the printer to wait before advancing the paper.

**Graphics.** Change to bi-directional graphics for faster printing: optimize the registration using the Print Registration setting in the Menu.

**I-Prime.** Determines what the printer will do when it receives the I-Prime signal from the software: Buffer Print prints out the buffer contents before resetting; Buffer Clear dumps the buffer contents immediately. Invalid causes the printer to ignore the I-Prime command.

**Language Set.** Replaces certain standard symbols with special characters used in foreign languages.

**Line Spacing.** Change to 8 lines per inch to get more lines on a page.

**Operator Panel Function.** Change to Limited Operation to deactivate the PRINT QUALITY and CHARACTER PITCH buttons. This prevents these from being changed from the control panel when several people are using the printer.

**Page Length.** Selects the length of the paper you are using.

**Page Width (wide model only).** Change to 8" to print on letter-size paper.

**Paper Out Override.** Senses when less than 1" (25 mm) of paper remains and stops printing. Change to Yes to override the sensor. *Caution!! This can cause loss of data and damage the printhead!*

**Pin 18.** Sets the signal on pin 18 to +5 volts or to open.

**Pitch.** Choose the character width, in character per inch (cpi).

**Print Mode.** Choose the quality and speed of printing.

**Print Registration.** Change the setting as required to obtain the best registration for bi-directional printing.

**Print Suppress Effective.** If your system uses the DC1 and DC3 codes for something other than the print suppress mode, change the setting to No.

**Proportional Spacing.** Change the setting to Yes to engage proportional spacing of characters.

**Receive Buffer Size.** Selects the amount of memory devoted to holding received data. Choosing 1 Line will tie up your computer while printing, but if you abort the print job, the printer will stop much sooner.

**Reset Inhibit.** Select Yes to prevent your software from resetting your printer's settings.

**SI Select Pitch, 10 cpi (IBM).** Sets the pitch to be engaged when the printer control panel is set for 10 cpi and the SI command is received.

**SI Select Pitch, 12 cpi (IBM).** Sets the pitch to be engaged when the printer control panel is set for 12 cpi and the SI command is received.

**Size.** Change to Double for double width and height printing.

**Skip Over Perforation.** Change to Yes if you want the printer to go to the next page when it comes within 1" (25 mm) of the bottom of the page. Keep it set to No if your software has its own page formatting controls.

**Style.** Change to italics if you want the printed characters to be slanted.

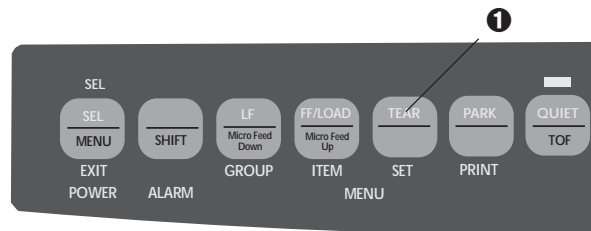
**Time Out Print.** If your software spends a long time processing between portions of data it feeds to the printer, change the setting to Invalid to keep your printer from dumping the received data while it is waiting for more.

**Wait Time.** Sets the amount of time the printer will wait for more data before moving to the form tear-off position.

**Zero Character.** If you do not want the printer to use a slash to distinguish the number zero from the capital letter O, change the setting to Unslashed.

## Using the Printer's Features

### Tear Feature



Use this feature to advance continuous-form paper up to the tear position by simply pressing **TEAR** (❶).

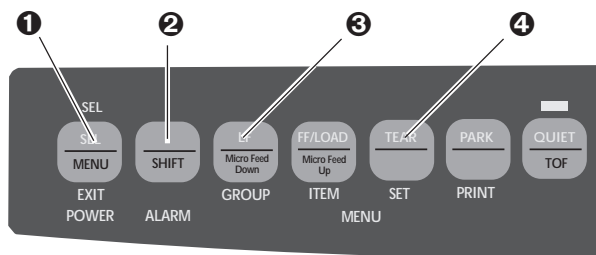
*Note:* The Tear Feature can **not** be used when the optional pull tractor is engaged.

## Forms Tear-Off Feature

**Important!** Never engage Forms Tear-Off when printing on labels!

The Forms Tear-Off feature automatically moves continuous-form paper up to the tear position after the interval you select, then moves it back down again for printing when the printer receives more data.

This feature is normally turned off. To activate it:



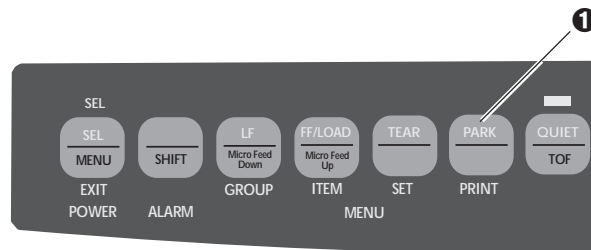
1. Press **SHIFT (2)** + **SEL (1)**.
2. Press **GROUP (3)** until one of the following lines appears, depending on which paper feed you are using:

REAR FEED	Form Tear-Off	OFF
BOTTOM FEED	Form Tear-Off	OFF

3. Press **SET (4)** until the time interval you wish to select appears in the third column.
4. Press **SHIFT (2)** + **SEL (1)** to exit Menu Mode and save the setting.

**Note:** Some programs pause occasionally while sending data. If the pause is too long, the paper will advance to the tear-off position until more data is received. This extra paper movement can cause uneven print registration in graphics. If you have this problem, use the menu to turn off this feature.

## Paper Park Feature



To retract rear-feed paper from the paper path, press **PARK (1)**.

## Section 4: Troubleshooting

**Problem:**

*Nothing happens when I turn on the printer.*

**Solution:**

Check the power cord connection to the outlet. If you are using a power strip, make sure it is turned on, and that the fuse has not blown nor the circuit breaker tripped.

**Problem:**

*The printer does not print when the computer sends data.*

**Solutions:**

1. Is the SEL light on? If not, press the **SEL** key.
2. Check that the interface cable is securely connected to both the printer and the computer.
3. If you have the optional serial interface board installed, check to be sure that it is firmly seated in the printer.

**Problem:**

*I'm getting strange symbols, incorrect fonts, etc., when I try to print a document.*

**Solutions:**

1. Check to be sure that the printer driver you have selected in your software matches the printer emulation. (Press **SHIFT** and **SEL** keys, then press **GROUP** key; this will print a line showing the emulation you have selected.)
2. If you have embedded any printer commands in your software, check to be sure that you entered them correctly.

**Problem:**

*Ink smears on the paper when I print on narrow forms.*

**Solution:**

This may be caused by excessive printhead travel from the centering position. Enter the Menu and set the Centering Position to MODE 1 (see Menu Mode in Section 3). For wide-carriage Model ML321T, if MODE 1 doesn't work, try setting the Centering Position to MODE 2.

**Problem:**

*I've installed a new ribbon and the printing is smeared and streaked.*

**Solution:**

The ribbon shield is either loose or missing. Remove the ribbon cartridge and check the ribbon shield: if it is loose, secure it in place, if it is missing, find it and reinstall it.

**Problem:**

*The ALARM light is on and the Character Pitch 15 light is flashing.*

**Solution:**

This indicates a paper jam. Press the SEL key and correct the paper jam situation ( see "Clearing Paper Jams" in Section 2).

**Problem:**

*The ALARM light is on and the Character Pitch 10 light is flashing.*

**Solution:**

This indicates that the paper lever is set at the wrong position for the paper you are trying to use: move it to the proper setting.

**Problem:**

*The ALARM light is blinking.*

**Solution:**

Try turning the printer off and then back on again. If the light still blinks, call for service.

**Problem:**

*The printer needs paper, but the ALARM light is not on and I can not load the paper.*

**Solution:**

Press and release the SEL key, then hold the SHIFT key and press the RESET (CHARACTER PITCH) key: this resets the printer.

**Problem:**

*The Print Quality and Character Pitch keys on the front panel won't work.*

**Solution:**

The Operator Panel Function in the printer menu can be used to disable these buttons. If the printer is part of a customized system or if it is used by a number of people, the system manager may have used this option to make sure the printer is always set properly.



**Problem:**

*My word processor files do not print the way I have the menu and front panel set.*

**Solution:**

Before sending a file to the printer, many word processors send either an “initialization string” or an I-Prime signal to the printer.

The initialization string contains codes that override the panel and menu settings. To change your printer to ignore the reset code, enter the Menu Mode, go to the Set-Up group and change the setting for Reset Inhibit to Yes (see Menu Mode in Section 3).

The I-Prime signal will automatically override any front panel settings you have made. To eliminate this problem, enter the Menu Mode, go to the Parallel Interface group and change the setting for I Prime to Invalid (see Menu Mode in Section 3).

**Problem:**

*Continuous-form paper is sticking to the paper separator.*

**Solution:**

In cold dry weather, static charges can build up and make the paper cling to the paper separator. Try moving the paper guides together so that the paper rests on the guides rather than on the separator.

# Section 5:

## Specifications

**Print Method:** Impact dot matrix

**Printhead:** 9 pins, 0.34 mm diameter, thermal protection

**Print Speed:**

<i>Mode</i>	<i>Characters per second</i>
Super Speed Draft (SSD)	435 cps
High Speed Draft (HSD)	390 cps
Utility (UTL)	300 cps
Near Letter Quality (NLQ)	75 cps

**Characters per Line (CPL):**

<i>Setting</i>	<i>Narrow Model</i>	<i>Wide Model</i>
10 cpi	80 cpl	136 cpl
12 cpi	96 cpl	163 cpl
15 cpi	120 cpl	204 cpl
17.1 cpi	137 cpl	233 cpl
20 cpi	160 cpl	272 cpl

**Emulations:** Epson FX (ESC/P), IBM Proprinter III(PPSII), TI 855 DP and TI 855 WP

**Interface:** Standard: IEEE 1284 compliant parallel  
Optional: RS-232C serial

**Graphics Resolution:**

<i>Emulation</i>	<i>Maximum Resolution</i>
Epson/IBM	240 (H) x 216 (V) dpi

**Resident Fonts:**

<i>Print Quality</i>	<i>Available Fonts</i>
Near Letter Quality	Courier, Gothic
Utility	Gothic
High Speed Draft	Gothic
Super Speed Draft	Gothic

**Resident Scalable Fonts\*:** Courier and Gothic, in sizes from 22 to 216 points

**Bar Codes:** Code 39, UPC A, UPC E, EAN 8, EAN 13, Interleaved 2 of 5, Code 128, Postnet

**Receive Buffer Size:** 28K

**Reliability:**

<i>Parameter</i>	<i>Reliability</i>
Mean Time Between Failures (MTBF)	10,000 hours at 25% duty cycle and 35% page density
Mean Time to Repair (MTTR)	15 minutes
Printhead Life	200 million characters average in 10 cpi draft mode at 25% duty and 35% page density
Ribbon Life (on average, 10 cpi utility)	3 million characters

\*Selectable through software only.

**Paper Specifications:**

<i>Paper Type</i>	<i>Feed</i>	<i>Weight</i>	<i>Width Range</i>
Cut sheets	Top	14-24 lb.	NM <sup>+</sup> : 7.2" to 8.5" WM <sup>++</sup> : 7.2 to 14.3"
Single-part continuous forms	Rear, Bottom	12-24 lb.	NM <sup>+</sup> : 3-10" WM <sup>++</sup> : 3-16"
Carbonless continuous forms	Rear, Bottom	9-11 lb.	NM <sup>+</sup> : 3-10" WM <sup>++</sup> : 3-16"
Interleaf continuous forms	Rear, Bottom		NM <sup>+</sup> : 3-10" WM <sup>++</sup> : 3-16"
Labels	Bottom		NM <sup>+</sup> : 3-10" WM <sup>++</sup> : 3-16"
Envelopes, single feed	Top	24 lb. max.	6.5" to 9.5"
Envelopes, continuous feed, non-overlap	Bottom	24 lb. max.	6.5" to 9.5"
Card stock	Bottom	120 lb. max.	N.A.
Transparencies	Top	—	8.5" x 11"

+NM = Narrow Model

++WM = Wide Model

**Paper Width** Minimum: 3"  
Maximum: Narrow model, 10"  
Wide model, 16"

**Paper Weight** 12 to 24 lb.

**Paper Thickness** Rear Feed: 0.014" (0.36 mm) max.  
Bottom Feed\*: 0.017" (0.43 mm) max.,  
expandable to 0.031"  
(0.79 mm) max.

**Dimensions (W x D x H)**

Narrow model: 15.7 x 13.6 x 4.6 inches  
(389 x 355 x 116 mm)

Wide model: 21.7 x 13.6 x 4.6 inches  
(550 x 355 x 116 mm)

**Weight** Narrow model: 17.2 lbs. (7.8 kg)  
Wide model: 22.2 lbs. (10.1 kg)

\* Requires optional pull tractor.

**Environmental Requirements**

<i>Parameter</i>	<i>Range</i>
Operating Temperature	41 to 104°F (5 to 40°C)
Storage Temperature	14 to 122°F (-10 to 50°C)
Operating Humidity	20 to 80% RH
Storage Humidity	5 to 95% RH

**Electrical Requirements** 120 volts ac (+5.5%, -15%),  
60 Hz (±2%)  
Also available for 230 or 240  
volts ac, 50 or 60 Hz (±2%)

**Specifications subject to change without notice.**

# Section 6: Commands

## Epson FX Commands

Epson Command	ASCII	Decimal
Backspace	BS	8
Carriage Return, Execute	CR	13
Character Pitch		
Select 10 cpi	ESCP	27 80
Select 12 cpi	ESCM	27 77
Select 15 cpi	ESC g	27 103
Select Condensed Print	ESC SI, or SI	27 15, or 15
Cancel Condensed Print	DC2	18

Epson Command	ASCII	Decimal
Delete	DEL	127
Double Height On	ESC w 1	27 119 49
Double Height Off	ESC w 0	27 119 48
Double Width On	ESC W 1	27 87 49
Double Width Off	ESC W 0	27 87 48
Emphasized Print On	ESCE	27 69
Emphasized Print Off	ESCF	27 70
Enhanced Print On	ESCG	27 71
Enhanced Print Off	ESCH	27 72
Epson Set 1, Select	ESC t 0	27 116 48
Epson Set 2, Select	ESC t 1	27 116 49
Italic Printing On	ESC 4	27 52
Italic Printing Off	ESC 5	27 53
Form Feed	FF	12
Form Length		
n Inches (n = 1 to 22)	ESC C NUL n	27 67 0 n
n Lines (n = 1 to 255)	ESC C n	27 67 n

Epson Command	ASCII	Decimal
Horizontal Tab	HT	9
Justification		
Left	ESC a 0	27 97 48
Center	ESC a 1	27 97 49
Right	ESC a 2	27 97 50
Full	ESC a 3	27 97 51
Line Feed, Execute w/ Carriage Return n/216" (n = 0 to 255) n/144" (n = 0 to 127) Reverse, n/216" (n = 0 to 255)	LF ESC J n ESC % 5 n  ESC j n	10 27 74 n 27 37 53 n  27 106 n
Line Spacing, Set n/144" (n = 0 to 127) n/216" (n = 0 to 255) n/72" (n = 0-85 or 128-213) 1/6" 1/8" 7/72"	ESC % 9 n ESC 3 n ESC A n ESC 2 ESC 0 ESC 1	27 37 57 n 27 51 n 27 65 n 27 50 27 48 27 49
Paper Out Sensor Off Paper Out Sensor On	ESC 8 ESC 9	27 56 27 57

Epson Command	ASCII	Decimal
Print Quality/Font Select HSD/SSD, depending on Menu setting for Draft Mode Select NLQ Select Courier (NLQ only) Select Gothic (NLQ only) Select UTL	ESC ( 0 ESC x 1 ESC k 0 ESC k 1 ESC x 0	27 40 48 27 120 49 27 197 48 27 197 49 27 120 48
Print Speed Half-Speed On Half-Speed Off	ESC s 1 ESC s 0	27 115 49 27 115 48
Print Suppress Mode On Print Suppress Mode Off	DC3 DC1	19 17
Proportional Spacing On Proportional Spacing Off	ESC p 1 ESC p 0	27 112 49 27 112 48
Reset Printer Clear Buffer & Initialize Clear Print Buffer	ESC @ CAN	27 64 24
Skip Over Perforation, Cancel	ESCO	27 79
Software I-Prime	ESC } NUL	27 125 0
Subscript On Superscript On	ESC S 1 ESC S 0	27 83 49 27 83 48

Epson Command	ASCII	Decimal
Subscript/Superscript Off	ESC T	27 84
Underline On	ESC - 1	27 45 49
Underline Off	ESC - 0	27 45 48
Uni-Directional Printing		
One Line Only	ESC <	27 60
On	ESC U 1	27 85 49
Off	ESC U 0	27 85 48
Vertical Tab, Execute	VT	11

## IBM Proprinter III Commands

IBM Command	ASCII	Decimal
Backspace	BS	8
Carriage Return	CR	13
Character Pitch		
Select 10 cpi	DC2	18
Select 12 cpi	ESC :	27 58
Select 15 cpi	ESC g	27 103
Select Condensed Print	ESC SI, or SI	27 15, or 15

IBM Command	ASCII	Decimal
Character Sets		
IBM Set I	ESC 7	27 55
IBM Set II	ESC 6	27 54
Publisher	ESC ! Z	27 33 90
Slashed Zero	ESC ! @	27 33 64
Unslashed Zero	ESC ! A	27 33 65
Double Width On	ESC W 1	27 87 49
Double Width Off	ESC W 0	27 87 48
Emphasized Printing On	ESCE	27 69
Emphasized Printing Off	ESCF	27 70
Enhanced Printing On	ESCG	27 71
Enhanced Printing Off	ESCH	27 72
Form Feed	FF	12
Form Length, n inches (n = 1 to 22)	ESC C NUL n	27 67 0 n
Form Length, n lines (n = 1 to 255)	ESC C n	27 67 n
Horizontal Tab, Execute	HT	9
Italics On	ESC % G	27 37 71
Italics Off	ESC % H	27 37 72

IBM Command	ASCII	Decimal
Line Feed, Execute w/ Carriage Return n/144" (n = 1 to 127) n/216" (n = 0 to 255) Reverse Auto Line Feed On Auto Line Feed Off	LF ESC % 5 n ESC J n ESC ] ESC 5 1 ESC 5 0	10 27 37 53 n 27 74 n 27 93 27 53 49 27 53 48
Line Spacing Set Spacing to 1/8" Set Spacing to 7/72" Set Spacing to n/72" (n = 0 to 255) Store Spacing Set by ESC A n Set Spacing to n/144" (n = 1 to 127) Set Spacing to n/216" (n = 0 to 255)	ESC 0 ESC 1 ESC A n ESC 2 ESC A n ESC A n ESC A n ESC A n	27 48 27 49 27 65 n 27 50 27 65 n 27 65 n 27 65 n 27 65 n
Overscore On Overscore Off	ESC _ 1 ESC _ 0	27 95 49 27 95 48
Paper Out Sensor Off Paper Out Sensor On	ESC 8 ESC 9	27 56 27 57

IBM Command	ASCII	Decimal
Print Quality, Select HSD	ESC # 0	27 35 48
Print Suppress On, ML320T Print Suppress On, ML321T Print Suppress Off	ESC Q ETX ESC Q SYN DC1	27 81 3 27 81 22 17
Proportional Spacing On Proportional Spacing Off	ESC P 1 ESC P 0	27 80 49 27 80 48
Reset: Clear Print Buffer	CAN	24
Software I-Prime	ESC } NUL	27 125 0
Stop Printing	ESC j	27 106
Subscript On Superscript On Subscript/Superscript Off	ESC S 1 ESC S 0 ESC T	27 83 49 27 83 48 27 84
Top of Form, Set at Current Position	ESC 4	27 52
Underline Printing On Underline Printing Off	ESC - 1 ESC - 0	27 45 49 27 45 48
Uni-Directional Print On Uni-Directional Print Off	ESC U 1 ESC U 0	27 85 49 27 85 48
Vertical Tab, Execute	VT	11



## TI855 WP Code Index

Function	TI855WPCode	Decimal
Backspace	BS	8
Horizontal tab	HT	9
Line feed	LF	10
Vertical tab	VT	11
Form feed	FF	12
Carriage return	CR	13
Begin one-line double width printing	SO	14
End one-line double width printing	DC4	20
Begin compressed printing	SI	15
End compressed printing	DC2	18
Begin print suppress mode	DC3	19
End print suppress mode	DC1	17
Backspace 1/120-inch	Esc BS	27 8
Move print head to column n	Esc HT n	27 9 n
Reverse line feed	Esc LF	27 10

Function	TI855WP Code	Decimal
Move paper to line n	Esc VT n	27 11 n
Select TI885 WP mode and perform reset	ESC CR P	27 13 80
Insert page	ESCEMI	27 25 73
Eject page	ESCEMR	27 25 82
Select TI885 WP mode and perform reset	ESC SUB I	27 26 73
Set line spacing to (n-1)/144-inch	ESC FS n	27 28 n
Set vertical motion index to (n-1)/48-inch	ESC RS n	27 30 n
Set character spacing to (n-1)/120-inch	ESC US n	27 31 n
Begin proportional spacing	ESC \$	27 36
End proportional spacing	ESC %	27 37
Set top margin at current position	ESC +	27 43

Function	TI855WP Code	Decimal
Set bottom margin at current position	ESC -	27 45
Set right margin at current position	ESC 0	27 48
Set horizontal tab at current position	ESC 1	27 49
Clear all horizontal tabs	ESC 2	27 50
End backwards print mode	ESC 5	27 53
Start backwards print mode	ESC 6	27 54
Clear horizontal tab at present position	ESC 8	27 56
Set left margin at current position	ESC 9	27 57
Begin bidirectional printing	ESC <	27 60
Set 8 <sup>th</sup> data bit (MSB) to 0	ESC =	27 61
End bidirectional printing	ESC >	27 62
Select TI885 DP mode and	ESC @	27 64

Function	TI855WP	Decimal
perform reset		
One-half reverse line feed	ESC D	27 68
Set form length in 1/6-inch increments	ESC F n1 n2	27 70 n1 n2
End underlining	ESC J	27 74
Begin enhanced printing	ESC Kn	27 75n
End enhanced printing	ESC M	27 77
Begin emphasized printing	ESC Q	27 81
End emphasized printing	ESC R	27 82
One-half forward line feed	ESC U	27 85
End justification	ESC [	27 91
Begin justification	ESC ]	27 93
Select draft printing	ESC d	27 100
Select quality printing	ESC e	27 101
Select type style	ESC fn	27 102 n
Begin 120 dpi graphics	ESC j n1 n2	27 106 n1 n2
Begin 60 dpi graphics	ESC k n1 n2	27 107 n1 n2
Begin 72 dpi graphics	ESC n n1 n2	27 110 n1 n2
Begin 144 dpi graphics	ESC o n1 n2	27 111 n1 n2

Function	TI855 DP Code	Decimal
Select quality printing	ESC q	27 113
Turn off paper-out sensor	ESC s	27 115
Turn on paper-out sensor	ESC t	27 116
Set 8 <sup>th</sup> data bit (MSB) to 1	ESC v	27 118
Begin 10 cpi	ESC y	27 121
Begin 12 cpi	ESC z	27 122
Begin underlining	ESC I	27 73

NOTE: Control codes ESC SP, ESC/(special characters), and ESC w are not supported in the TI855 WP emulation.

### TI855 DP Code Index

Function	TI855 DP Code	Decimal
Backspace	BS	8
Horizontal tab	HT	9
Line feed	LF	10
Vertical tab	VT	11
Form feed	FF	12
Carriage return	CR	13

Function	TI855 DP Code	Decimal
Begin one-line double width printing	SO	14
Begin compressed printing	SI	15
End print suppress mode	DC1	17
End compressed printing	DC2	18
Begin print suppress mode	DC3	19
End one-line double width printing	DC4	20
Select TI885 WP mode and perform reset	ESC CR P	27 13 80
Insert page	ESC EM I	27 25 73
Eject page	ESC EM R	27 25 82
Select TI885 WP mode and perform reset	ESC SUB I	27 26 73
Begin 1/8-inch line spacing	ESC 0	27 48
Begin 7/72-inch line spacing	ESC 1	27 49
Begin 1/6-inch line spacing	ESC 2	27 50
Turn off paper-out sensor	ESC 8	27 56
Turn on paper-out sensor	ESC 9	27 57
Home print head	ESC <	27 60

Function TI855	DP Code	Decimal
Set 8 <sup>th</sup> data bit (MSB) to 0	ESC =	27 61
Set 8 <sup>th</sup> data bit (MSB) to 1	ESC >	27 62
Select TI885 WP mode and perform reset	ESC @	27 64
Set variable (n/72-inch) line spacing	ESC A n	27 65 n
Clear vertical tab stops	ESC B NUL	27 66 0
Set vertical tab stops	ESC B n1...nk NUL	27 66 n1...nk 0
Set form length by inches	ESC C NUL n	27 67 0 n
Set form length by lines	ESC C n	27 67 n
Clear horizontal tab stops	ESC D NUL	27 68 0
Set horizontal tab stops	ESC D n1...nk NUL	27 68 n1...nk 0
Begin emphasized printing	ESC E	27 69
End emphasized printing	ESC F	27 70
Begin enhanced printing	ESC G	27 71
End enhanced printing	ESC H	27 72
Begin double density graphics	ESC J n1 n2	27 74 n1 n2

Function	TI855WP Code	Decimal
Begin single density graphics	ESC K n1 n2	27 75 n1 n2
Begin double density graphics	ESC L n1 n2	27 76 n1 n2
Begin 72 dpi graphics	ESC N n1 n2	27 78 n1 n2
Begin 144 dpi graphics	ESC O n1 n2	27 79 n1 n2
Begin compressed print	ESC P	27 80
End compressed print	ESC Q	27 81
Select double width printing	ESC S	27 83
Cancel double width printing	ESC T	27 84
One-half reverse line feed	ESC ^	27 94
Begin bidirectional printing	ESC b	27 98
Select draft printing	ESC d	27 100
Select quality print	ESC e	27 101
Select type style	ESC f n	27 102 n
Select quality printing	ESC q	27 113
End bidirectional printing	ESC u	27 117
One-half forward line feed	ESC v	27 118
Begin 10 cpi	ESC y	27 121
Begin 12 cpi	ESC z	27 122

**Note:** The control code ESC w is not supported in the TI885 DP emulation.

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