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**R4C3730**

**Rev. B**

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11/30/98

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## Control Panel Buttons and Lights

**Font button**

Selects the font.  
See Chapter 5.

**Font lights**

Indicate which  
font is selected.

**Pause button**

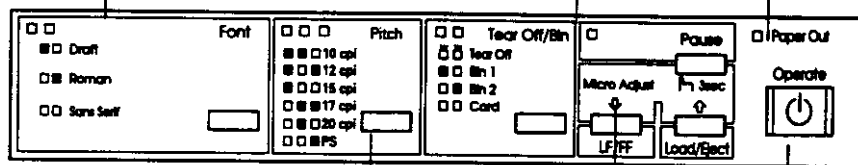
- Stops printing temporarily, and resumes printing when pressed again. When pressed for 3 seconds, turns on the \*micro adjust mode. To turn off, press again.

**Pause light**

- On when the printer is paused.
- Flashes when the printer is in the \*micro adjust mode.

**Paper Out light**

- On when no paper is loaded in the selected paper source or paper is not loaded correctly.
- Flashes when paper has not been fully ejected or a paper jam has occurred.

**Tear Off/Bin button**

- Advances continuous paper to the tear-off position.
- Feeds continuous paper backward from the tear-off position to the top-of-form position.
- Selects a cut-sheet feeder bin when the cut-sheet feeder is installed.
- Turns on the card mode to print on postcards and envelopes. See Chapter 3.

**Tear Off/Bin lights**

- On when continuous paper is in the tear-off position.
- On when bin 1 of the optional cut-sheet feeder is selected.
- On when bin 2 of the optional cut-sheet feeder is selected.
- On when the printer is in the card mode.

**LF/FF button**

- Feeds paper line by line when pressing shortly.
- Feeds paper form by form pressing for a few seconds.
- Ejects a single sheet or advances continuous paper to the next top-of-form position in micro adjust mode.

**Operate button**

Turns the printer on and off. The printer is off when the top of this button is even with the button protectors.

**Load/Eject button**

- Loads a single sheet of paper.
- Ejects a single sheet of paper if a sheet is loaded.
- Loads continuous paper from the standby position.
- Feeds continuous paper backward to the standby position in micro adjust mode.

On = On  
Flashing = Flashing  
Off = Off

**\*Micro Adjust mode**

When you hold down the Pause button for three seconds, the printer enters the micro adjust mode. In this mode, you can press the LF/FF and Load/Eject buttons to adjust the top-of-form or tear-off position. See Chapter 2.

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**EPSON®**

9-Pin Dot Matrix Printer

**FX-980**

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Printed on Recycled Paper.

**User's Guide**

**FCC Compliance Statement  
For United States Users**

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

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

**WARNING**

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

**For Canadian Users**

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

**Declaration of Conformity**

According to ISO/IEC Guide 22 and EN 45014

Manufacturer: SEIKO EPSON CORPORATION  
Address: 3-5, Owa 3-chome, Suwa-shi,  
Nagano-ken 392-8502 Japan  
Representative: EPSON EUROPE B.V.  
Address: Prof. J. H. Bavincklaan 5 1183  
AT Amstelveen  
The Netherlands

Declares that the Product:

Product Name: Dot Matrix Printer  
Model: P922A

Conforms to the following Directive(s) and Norm(s):

Directive 73/23/EEC:

EN 60950

Directive 89/336/EEC:

EN 55022 Class B

EN 61000-3-2

EN 61000-3-3

EN 50082-1

IEC 801-2

IEC 801-3

IEC 801-4

March 1999

H. Horiuchi

President of EPSON EUROPE B.V.

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### ***Glossary***

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## ***Getting to Know Your Printer***

Your EPSON® Fx-980 9-pin dot matrix printer provides high-quality printing and great performance in a compact design. Features include:

- ☐ a variety of paper paths to suit your printing needs
- ☐ the ability to handle a wide range of paper types, including continuous paper, multi-part forms with one original and up to six copies, labels, single sheets, envelopes, and postcards
- ☐ high-speed printing of up to 569 characters per second at 12 characters per inch

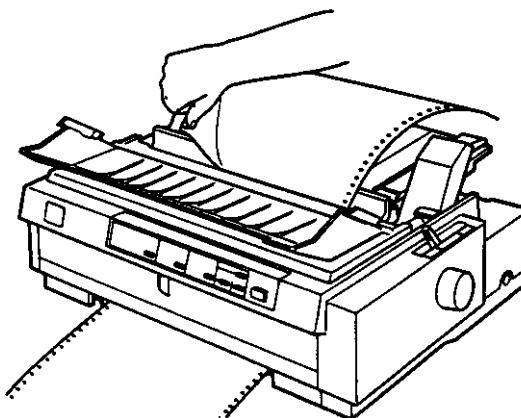
Your printer also comes with printer driver software, the EPSON Status Monitor 2 utility for Microsoft® Windows® 95 or 98 that lets you check the status of your printer quickly and easily, and other software. In addition, several options are available to suit your individual needs.

## ***Easy-to-Use Features***

This section highlights some easy-to-use features that you'll find helpful.

- ☐ Use the **tear-off feature** to save paper.

If you load paper in the rear or front push tractor, you can use the tear-off feature to advance your continuous paper to the printer's tear-off edge when you finish printing. Then you can easily tear off printed sheets and save paper normally lost between documents. For more information, see Chapter 2.



1-1.eps

- ☐ Use the **paper release lever** to change the paper path without removing continuous paper from the tractors.

Using the paper release lever, you can easily switch to printing on single sheets without removing the continuous paper loaded in the rear or front push tractor. You can also easily switch to printing on continuous paper on a different tractor. For more information, see Chapter 2.

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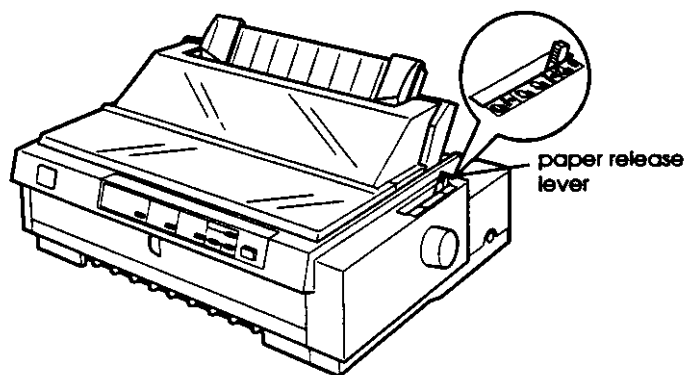
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- ❑ Use the **micro adjust feature** to adjust the top-of-form and tear-off positions. (See the Glossary for explanations of the top-of-form and tear-off positions.)

The micro adjust feature allows you to move the paper forward or backward in 1/216 inch increments so that you can make precise adjustments to the top-of-form and tear-off positions. For more information, see Chapter 2.

### ***Available Paper Paths***

Your printer provides a variety of paper paths for printing on continuous and single-sheet paper. As described below, paper can be fed into the printer from the top, front, bottom, or rear. You select the paper path that best suits your current printing needs.

## ***Printing on continuous paper***

You can choose from three tractor positions (front push, rear push, and pull) and three paper entry slots (front, rear, and bottom) for continuous paper printing. This section helps you determine which paper paths and tractor positions are best for your continuous paper printing needs. See the appropriate sections in Chapter 2 for tractor installation and paper loading instructions.

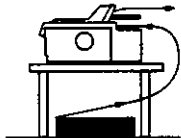
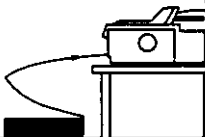
### ***Using a push tractor***

If you often need to tear off sheets of continuous paper (for example, if you are printing purchase orders or sales slips), it is best to use a push tractor. This allows you to use the printer's tear-off edge to easily tear off printed sheets of continuous paper at the perforation. Also, when continuous paper is loaded on a push tractor, you can load single sheets of paper from the paper guide without removing the continuous paper from the tractor.

There are two push tractor positions: front and rear. The tractor is installed in the rear push position when the printer is shipped. See the table below for details about the push positions and the corresponding paper-feeding paths.

#### ***Note:***

- ☐ *Always load multi-part forms with seven parts (one original plus six copies) from the front or bottom slot onto the pull tractor.*
- ☐ *The rear push tractor cannot be removed.*

| Tractor position                                                                                 | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>rear push   | <p>To use this tractor, load paper in the rear slot. When you print on multi-part forms that are bound on only one side by point glueing, load them in the rear paper slot; the front push tractor cannot feed this type of form.</p> <p><b>Note:</b><br/><i>Because thick multi part forms require a straight paper path, load them in the front slot.</i></p> <p><b>Caution:</b><br/><i>Do not load continuous paper with labels in the rear slot; the labels may come off their backing sheet inside the printer and cause a paper jam.</i></p> |
| <br>front push | <p>To use this tractor, load paper in the front slot. If you print on thick paper such as multi-part forms or continuous paper with labels, use the front paper slot because this paper path from this slot is almost straight. This reduces the chance of paper jams.</p>                                                                                                                                                                                                                                                                         |

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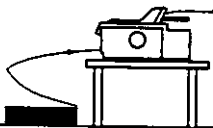
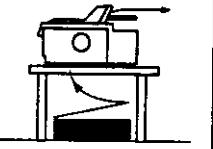
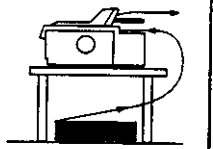
### Using a pull tractor

If you often print on thick or heavy continuous paper, such as multi-part forms or continuous paper with labels, use a tractor in the pull position. The pull tractor provides you with the best paper jam prevention, and allows you to load continuous paper from the front, rear, or bottom of the printer. However, you cannot use the tear-off feature with the pull tractor.

**Note:**

*If you plan to use a pull tractor in the pull position, you can remove the tractor from the rear push position and reinstall it in the pull position, or you can purchase the optional additional tractor unit (C80033\*) and install it in the pull position. See Chapter 2 for instructions.*

You can use the front, bottom, or rear paper slot with the pull tractor.

| Paper slot                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>front   | <p>If you print on thick paper such as multi-part forms or continuous paper with labels, use the front paper slot because this paper path is almost straight. This reduces the chance of paper jams.</p>                                                                                                                                                                                                                                    |
| <br>bottom | <p>The bottom paper slot has the straightest paper path, so it is the best slot to use when printing on thick paper, such as multi-part forms or continuous paper with labels.</p> <p><b>Note:</b><br/>When loading paper in the bottom slot, be sure to use a printer stand with an opening large enough for the paper to feed through it without obstruction.</p>                                                                         |
| <br>rear  | <p>You can also load continuous paper from the rear pull tractor position.</p> <p><b>Note:</b><br/>Paper loaded from the rear slot results in a curved paper path, which may affect loading performance, so use the front or bottom slot whenever possible.</p> <p><b>Caution:</b><br/>Do not load continuous paper with labels in the rear slot; the labels may come off their backing sheet inside the printer and cause a paper jam.</p> |

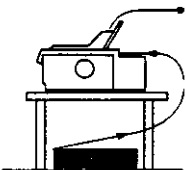
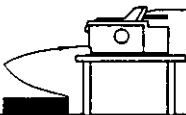
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### **Using the push and pull tractors in combination**

You can improve paper feeding and reduce paper jams, by using two tractors at the same time. This is especially helpful for printing on continuous pre-printed forms, multi-part forms, or labels, and for printing high-quality graphics. When using two tractors in combination, you can load paper either in the front paper slot both the front push tractor and the pull tractor, or in the rear paper slot with both the rear push tractor and the pull tractor.

| Combination                                                                                                   | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>rear push<br>and pull   | <p>To use the rear push tractor with the pull tractor, you need to remove the standard tractor that comes in the front push position and install it in the pull position.</p> <p><b>Note:</b><br/><i>Because thick multi-part forms require a straight paper path, load them in the front slot.</i></p> <p><b>Caution:</b><br/><i>Do not load continuous paper with labels onto the rear push tractor even when it is used in combination with the pull tractor. If you load continuous paper with labels onto the rear push/pull tractor, the labels may come off their backing sheet inside the printer and cause a paper jam.</i></p> |
| <br>front push<br>and pull | <p>To use the front push tractor with the pull tractor, you need to purchase the optional pull tractor (C80033*) and install it in the pull position.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Note:**

*For more information on how to use two tractors in a push and pull combination, see page 2-29.*

g2-8aa4.eps

g2-8aa1.eps

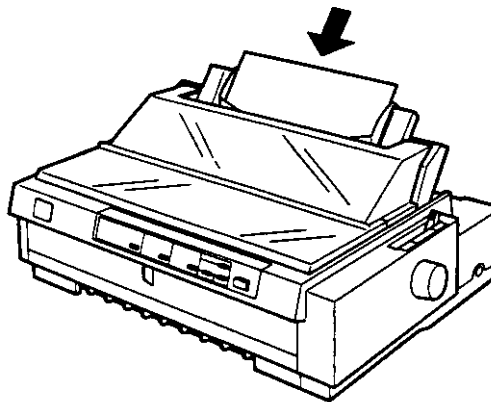
## ***Printing on single sheets***

As shown below, you can load single sheets from the top or the front of the printer. You can load ordinary single sheets from either position, even with continuous paper already loaded in the front or rear push tractor.

This section helps you determine which paper slot best suits your single-sheet printing needs. See Chapter 3 for paper loading instructions.

### ***Loading paper in the top slot***

You can load ordinary single sheets, single-sheet multi-part forms, envelopes, or postcards in the top slot.



2-9n.eps

**Note:**

*Load envelopes in the top slot only.*

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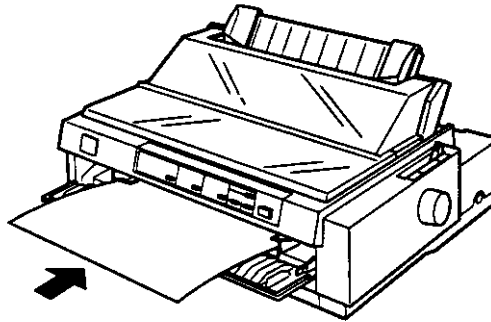
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### **Loading paper in the front slot**

You can load ordinary single sheets, single-sheet multi-part forms, or postcards in the front slot.



2-12.eps

#### **Note:**

*Always use the front paper slot to load glue-fastened single-sheet multi-part forms bound at the side of the form.*

### **Options**

Your printer comes with everything necessary to print on continuous paper and single sheets using a variety of paper paths. By adding options, such as a cut-sheet feeder, pull tractor unit, or roll paper holder, you can further expand your printer's versatility. Optional interface cards are also available to supplement your printer's built-in parallel interface and built-in serial interface. For more information on options for your printer, see Appendix A, "Enhancing Your Printer With Options".

## ***Ribbon Cartridge***

Your printer uses the following ribbon cartridge:

EPSON black ribbon cartridge      S015091

When printing becomes faint, you need to replace the ribbon cartridge. Genuine EPSON ribbon cartridges are designed and manufactured to work properly with your EPSON printer. They ensure proper operation and long life of the print head and other printer parts.

To replace a used ribbon cartridge, follow the instructions under "Installing or Replacing the Ribbon Cartridge" on page 1-6.

## ***Important Safety Instructions***

Read all of these instructions and save them for later reference. Follow all warnings and instructions marked on the printer.

- ☐ Do not place the printer on an unstable surface or near a radiator or heat source.
- ☐ Place the printer on a flat surface. The printer will not operate properly if it is tilted or at an angle.
- ☐ Do not block or cover the openings in the printer's cabinet. Do not insert objects through the slots.
- ☐ Use only the type of power source indicated on the printer's label.
- ☐ Connect all equipment to properly grounded power outlets. Avoid using outlets on the same circuit as photocopiers or air control systems that regularly switch on and off.
- ☐ Do not use a damaged or frayed power cord.

- ☐ If you use an extension cord with the printer, make sure the total ampere rating of all devices plugged into the extension cord does not exceed the cord's ampere rating. Also, make sure the total of all devices plugged into the wall outlet does not exceed the wall outlet's ampere rating.
- ☐ Unplug the printer before cleaning, and clean it with a damp cloth only.
- ☐ Do not spill liquid on the printer.
- ☐ Except as specifically explained in this guide, do not attempt to service the printer yourself.
- ☐ Unplug the printer and refer servicing to qualified personnel under the following conditions:

If the power cord or plug is damaged; if liquid has entered the printer; if the printer has been dropped or the cabinet damaged; or if the printer does not operate normally or exhibits a distinct change in performance. Adjust only those controls that are covered by the operating instructions.

- ☐  Printer parts marked with this symbol may be hot. Turn off the printer and let it cool for a few minutes before you touch any printer part marked with this symbol.

- ☐ If you plan to use the printer in Germany, observe the following:

To provide adequate short-circuit protection and over-current protection for this printer, the building installation must be protected by a 16 Amp circuit breaker.

***Note for German-speaking users:***

*Bei Anschluß des Druckers an die Stromversorgung muß sichergestellt werden, daß die Gebäudeinstallation mit einem 16 A-Überstromschalter abgesichert ist.*

### ***Print Head Caution Symbol***



The symbol on the print head indicates that this part may be hot. Never touch the print head just after the printer has been used. Let the print head cool for a few minutes before touching it.

### ***ENERGY STAR Compliance***



As an ENERGY STAR Partner, EPSON has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

The International ENERGY STAR Office Equipment program is a voluntary partnership with the computer and office equipment industry to promote the introduction of energy-efficient personal computers, monitors, printers, fax machines, copiers, and scanners, in an effort to reduce air pollution caused by power generation.

### ***For United Kingdom Users***

#### ***Use of options***

Epson (UK) Limited shall not be liable against any damages or problems arising from the use of any options or consumable products other than those designated as Original EPSON Products or EPSON Approved Products by Epson (UK) Limited.

## Chapter 1

# Setting Up the Printer

# 1

|                                                                  |      |
|------------------------------------------------------------------|------|
| Unpacking the Printer .....                                      | 1-2  |
| Choosing a Place for the Printer .....                           | 1-4  |
| Positioning the continuous paper supply .....                    | 1-5  |
| Installing or Replacing the Ribbon Cartridge .....               | 1-6  |
| Attaching the Paper Guide Base .....                             | 1-12 |
| Plugging in the Printer .....                                    | 1-13 |
| Connecting the Printer to Your Computer .....                    | 1-14 |
| Installing the Printer Software .....                            | 1-17 |
| Installing the printer software in Windows 98, 95, or NT 4.01 .. | 1-18 |
| Installing the printer software in Windows 3.1 or NT 3.5x ..     | 1-19 |
| For DOS programs .....                                           | 1-20 |

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## How To Use Your Manuals

This *User's Guide* provides detailed information on setting up and using your printer. The *Quick Reference Guide* that also comes with the printer summarizes basic information on how to use the printer.

---

## Warnings, Cautions, and Notes

This guide uses the following conventions:



*Warnings must be followed to avoid bodily injury.*



*Cautions must be observed to avoid damage to your equipment.*

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

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**Caution:**

*There are several models of the printer designed for different voltages, and it is not possible to adjust the printer for use with another voltage. If the label on the back of the printer does not show the correct voltage for your country, contact your dealer.*

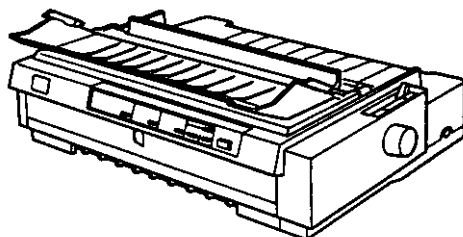
1

You must remove all protective materials packed around and inside your printer before you set it up and turn on the power. Follow the directions on the Notice Sheet (packed with the printer) to remove these materials. A screwdriver has been provided for removing the transportation screw.

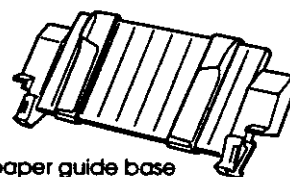
Save all packing and protective materials, including the transportation screw and the protective locking clips on the paper tension unit, in case you need to ship the printer in the future. It should always be transported in its original packaging or equivalent materials.

## Unpacking the Printer

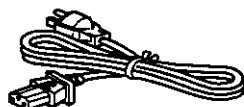
Besides this guide, your printer box should include a EPSON printer software disk, a Notice Sheet, and the following items:



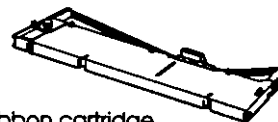
printer



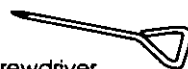
paper guide base



power cord



ribbon cartridge



screwdriver

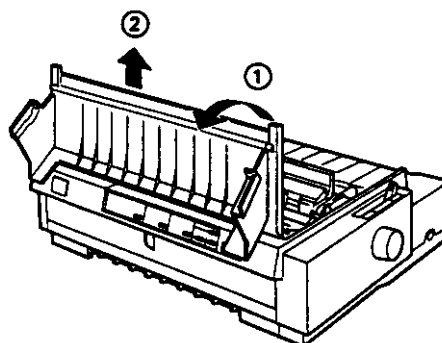
New.eps

### Note:

Depending on your printer model, the power cord may be permanently attached to the printer. Also, the shape of the power cord plug varies depending on the country of purchase; be sure the plug you have is the right one for your location.

3. Lift the printer cover by its back edge and then pull it straight up and off.

1



1-2.eps

4. Make sure that the print head is not hot; if it is, let it cool for a few minutes before touching it. Then slide the print head to the ribbon installation position (the indented portion of the paper tension unit) by hand.

1-3-1.eps

## Choosing a Place for the Printer

Follow the guidelines below when selecting a location for your printer.

- ☐ Place the printer on a flat, stable surface. The printer will not operate properly if it is tilted or at an angle.
- ☐ Place the printer where you can easily connect it to a network interface cable, if necessary.
- ☐ Leave adequate room around the printer for easy operation and maintenance.
- ☐ Avoid using or storing the printer in places subject to rapid changes in temperature and humidity. Keep it away from direct sunlight, strong light, heat sources, or excessive moisture or dust.
- ☐ Avoid places subject to shocks and vibrations.
- ☐ Place the printer near a wall outlet where you can easily unplug the power cord.

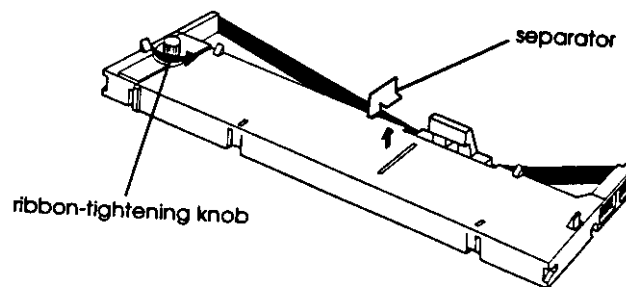
***Note for French-speaking users:***

*Placez l'imprimante près d'une prise de contact où la fiche peut être débranchée facilement.*

- ☐ Avoid electrical outlets controlled by wall switches or automatic timers. An interruption in power can erase information in the memory of your printer or computer. Also avoid outlets on the same circuit as large motors or other appliances that can cause voltage fluctuations.
- ☐ Keep the entire computer system away from potential sources of electromagnetic interference, such as loudspeakers or the base units of cordless telephones.

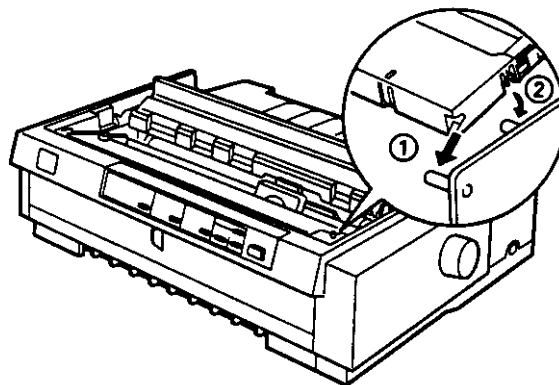
6. Remove the new ribbon cartridge from the package. Then remove the separator from the middle of the ribbon cartridge and discard the separator. Turn the ribbon-tightening knob in the direction of the arrow to remove any slack in the ribbon.

1



1-5a.eps

7. Hold the cartridge with the ribbon-tightening knob up. Fit the two front notches of the ribbon cartridge over the small pegs on each side of the printer as shown below. Then lay the cartridge flat.



1-5b.eps

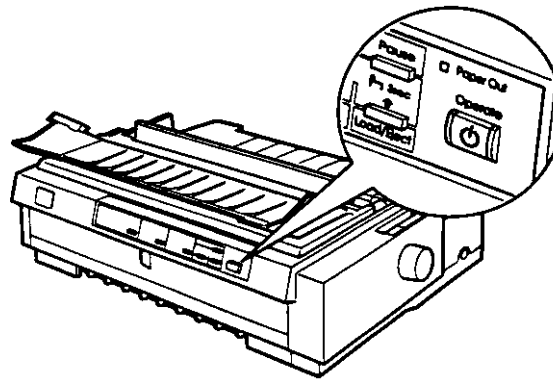
## Installing or Replacing the Ribbon Cartridge

EPSON recommends the use of genuine EPSON ribbon cartridges (S015091). Products not manufactured by EPSON may cause damage to your printer not covered by warranties.

**Warning:**

*You will need to move the print head by hand to install or replace the ribbon cartridge. If you have just used the printer, the print head may be hot; let it cool for a few minutes before touching it.*

1. Make sure the printer is turned off. The printer is off when the surface of the **Operate** button is even with the button protectors as shown.

**Caution:**

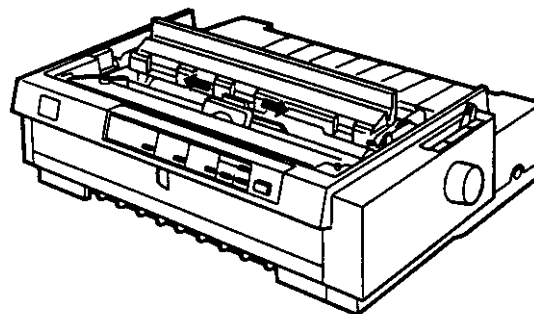
*Moving the print head while the printer is on may damage the printer.*

2. If the printer is connected to an electrical outlet, unplug it from the outlet.

G1-10a.eps

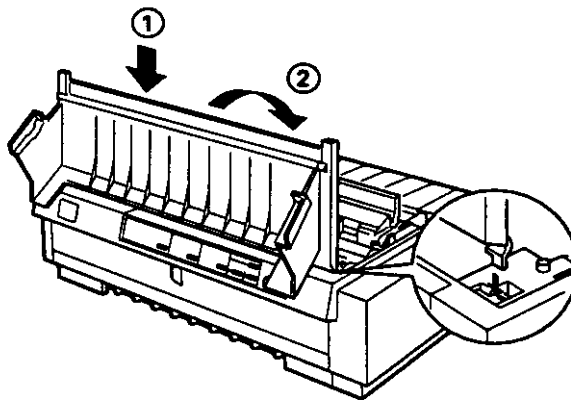
10. Turn the ribbon-tightening knob in the direction of the arrow to remove any slack in the ribbon as shown in step 9. Then slide the print head from side to side to make sure it moves smoothly.

1



1-8.eps

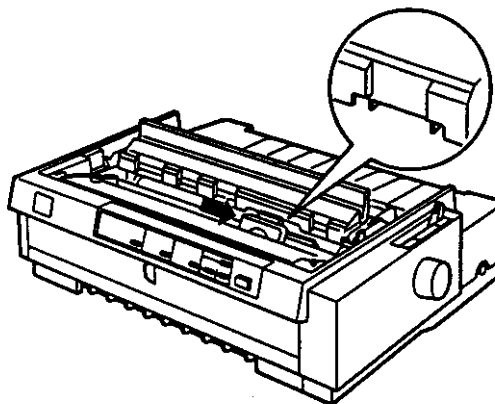
11. Replace the printer cover by first inserting the front tabs into the slots on the printer and then lowering the cover into place. Push it down until it clicks.



1-9n.eps

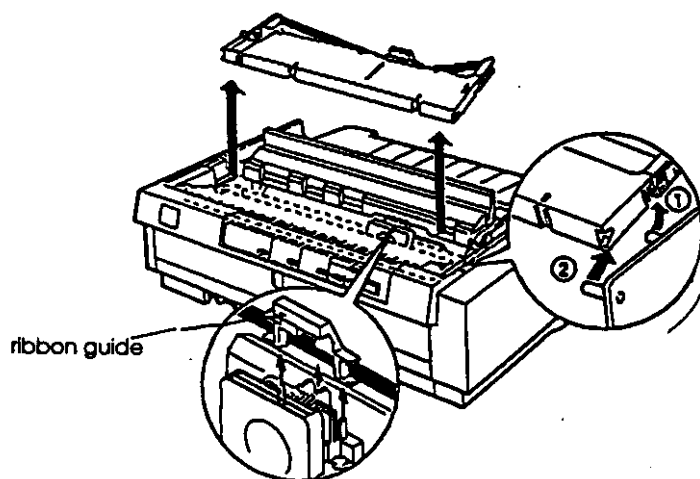
**Note:**

*When the pull tractor is installed, you can replace the ribbon cartridge when the print head is not in the ribbon installation position.*



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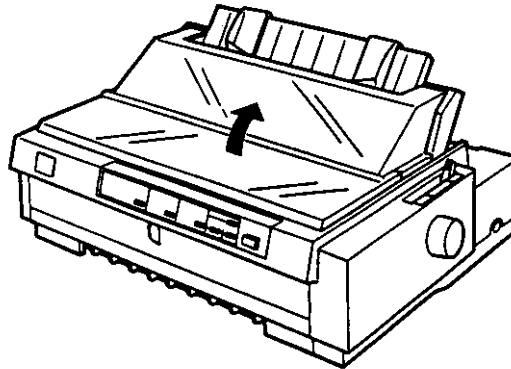
5. If a used ribbon cartridge is installed, grasp it by grasping the cartridge and pull it slightly forward and up; the ribbon guide snaps away from the metal pins behind the print head. Properly dispose of the used ribbon cartridge.



1-4.eps

2. Close the paper guide cover.

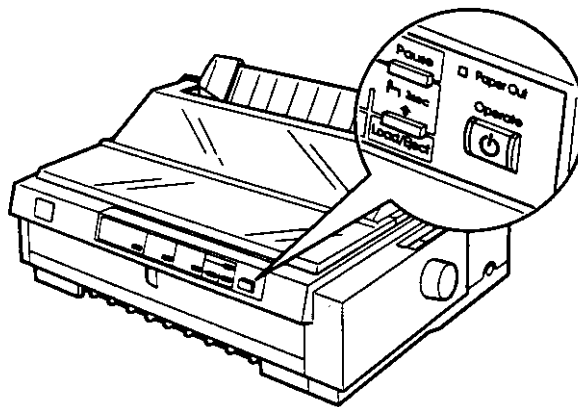
1



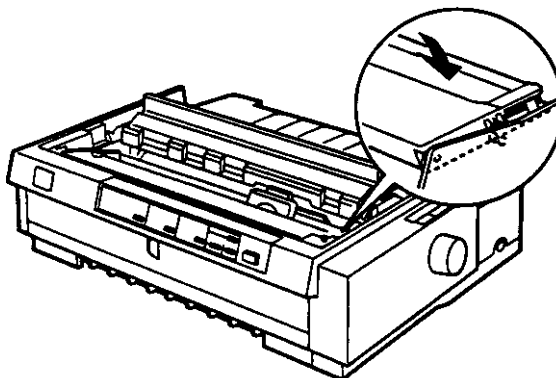
G1-10.eps

### ***Plugging in the Printer***

1. Make sure the printer is turned off. The printer is off when the surface of the Operate button is even with the button protectors as shown below.

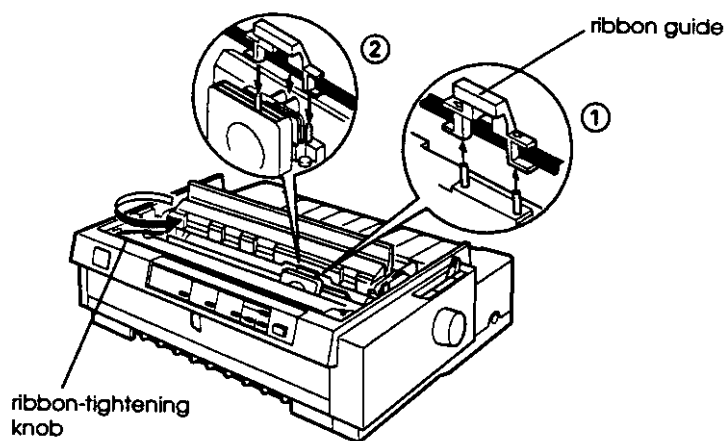


8. Make sure that the two rear notches of the cartridge fit over the small pegs on each side of the printer. Then gently press down the cartridge until both ends click into place.



1-6su.eps

9. Lift the cartridge's ribbon guide (①) and insert it firmly over the metal pins behind the print head (②). Make sure the ribbon is not twisted or creased and that it is in place behind the print head. Then press down the guide until it clicks into place.



1-7.eps

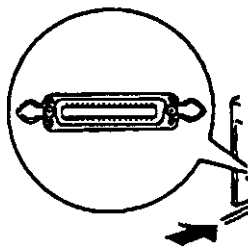
2. Plug the cable connector securely into the printer's interface connector as shown.

1

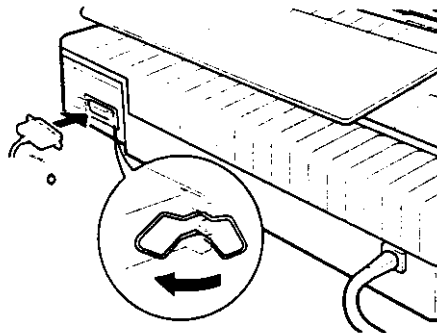
Parallel interface

Plug the cable connector securely into the parallel interface connector.

G1-12-2.eps



Squeeze the wire clips together until they lock in place on both sides of the connector.

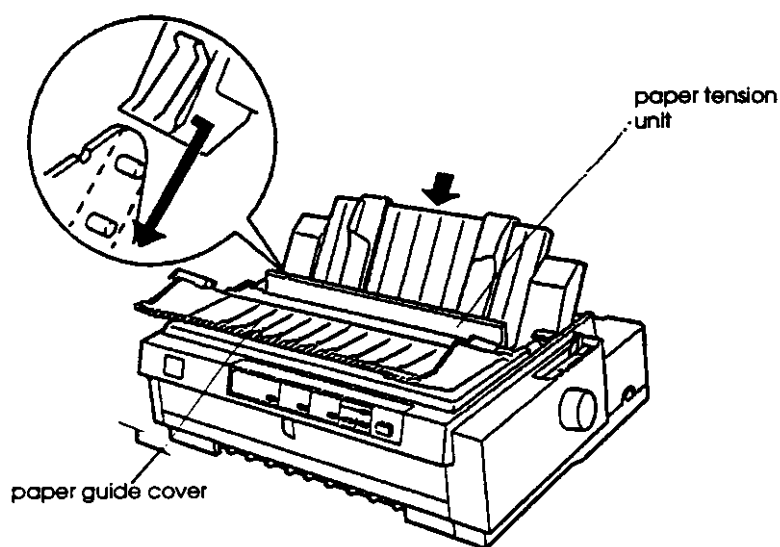


## Attaching the Paper Guide Base

To install the paper guide base follow these steps:

1. Make sure the paper guide cover is open as shown below. Attach the paper guide base by sliding the slots on the bottom over the pegs located behind the paper tension unit, then tilt the guide back until it stops.

1-9.eps

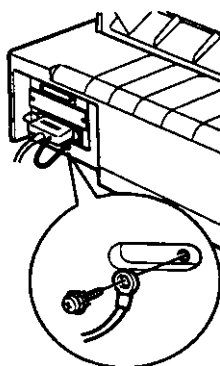
**Caution:**

*Make sure to slide the slots on the bottom of the paper guide over the pegs located behind the paper tension unit on each side of the printer.*

1-11.eps

3. If your cable has a ground wire, connect it to the printer's ground connector as shown below.

1



4. Plug the other end of the cable into the computer.

After you connect the printer to your computer, install the printer software as described in the next section.

### ***Installing the Printer Software***

After you connect the printer to your computer, you need to install the software included on the EPSON printer software CD-ROM shipped with your printer.

Your printer software includes:

- ☐ **Printer driver**  
The printer driver is the software that runs, or "drives," your printer. With it, you can make printer settings such as print quality, resolution, and paper size.
- ☐ **EPSON Status Monitor 2 (Windows 95 or 98 only)**  
The EPSON Status Monitor 2 notifies you of printer errors and displays printer status information.

31run.tif

2. Check the label on the back of the printer to make sure its voltage matches that of your electrical outlet. Also make sure the plug on your printer's power cord matches your electrical outlet.

**Warning:**

*It is not possible to change the printer's voltage. If the rated voltage and your outlet voltage do not match, contact your dealer for assistance. Do not plug in the power cord.*

3. If the power cord is not attached to the printer, plug the appropriate end into the AC inlet on the back of the printer.
4. Plug the power cord into a properly grounded electrical outlet.

---

## ***Connecting the Printer to Your Computer***

Your printer has three separate interface connections: an IEEE-1284 compatible parallel interface, an EIA-232D serial interface and Type B optional interface. See page A-3 for more information.

If your computer requires a different type of printer interface, you should be able to use one of the optional interfaces described on page A-3.

Follow the steps below to connect the printer to your computer using a parallel or serial interface connector, or a ground wire connector.

1-16.eps

1. Make sure both the printer and computer are turned off. The printer is off when the surface of the Operate button is even with the button protectors.

**Note:**

☐ *If the New Hardware Found screen or any other wizard appears when you turn on your computer, click Cancel and follow the steps above.*

☐ *Installation time varies depending on your computer.*

For information on opening and using the software, see "Using the Printer Software" in Chapter 4. After you install the printer driver for Windows 98, 95, or NT 4.0, you can install the EPSON Status Monitor 2 utility program. See Chapter 6 for information on installing and using the Status Monitor.

### ***Installing the printer software in Windows 3.1 or NT 3.5x***

Follows the steps below to install the printer software on Windows 3.1 or NT 3.5x systems.

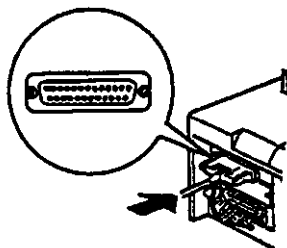
**Note:**

*Installing the printer software on Windows NT 3.5x may require network administration privileges. Ask your network administrator for more information.*

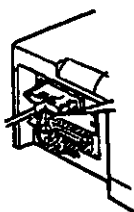
1. Make sure Windows is running and the Program Manager window is open.
2. Insert the printer software CD-ROM shipped with your printer in the CD-ROM drive. (If you are using diskettes, insert Disk1 of your printer software in a disk drive.)

### Serial interface

Plug the cable connector securely into the serial interface connector.



Tighten the screws on the both sides of the connector.



**Note:**

*If the screws that come with the cable do not fit into the connector lock nuts on the interface, replace the lock nuts with the optional lock nuts provided with the printer.*

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Choose the EPSON FX-980 printer at the appropriate step in the setup or installation procedure. If the list in your application does not include the FX-980 printer, choose the first available printer from this list:

1

FX-880  
FX-870  
FX-850  
FX-800  
FX-85  
FX-80+  
FX-80

If none of these printers is listed, choose the first one available from the following:

FX  
LX  
RX  
MX  
EPSON printer  
Standard printer  
Draft Printer  
ASCII printer

**Note:**

*If your application does not list a suitable alternative, contact the software manufacturer to see if an update is available.*

- ☐ **EPSON Remote!** (a DOS-based printer setup utility)  
The EPSON Remote! utility allows you to easily change the printer's default settings from the computer screen. To use the EPSON Remote! utility with DOS, see page 4-24.

To install the printer software, see "Installing the printer software in Windows 98, 95, or NT4.0" or "Installing the printer software in Windows 3.1 or NT3.5x" in this section. If you are using DOS, see "For DOS programs" on page 1-20.

### ***Installing the printer software in Windows 98, 95, or NT 4.0***

Follow the steps below to install the printer software in Windows 98, 95, or NT 4.0.

**Note:**

- ☐ *Installing the printer software for Windows NT<sup>®</sup> 4.0 may require network administration privileges. Ask your network administrator for more information.*
  - ☐ *If you wish to make a diskette version of the printer software on your CD-ROM, insert the CD and run the EPSETUP program. In the dialog box that appears, click the Driver disk creation utility button and follow the on-screen instructions.*
  - ☐ *If you are using the diskette version of the EPSON software, make a backup copy of the EPSON printer software disk or disks before you begin installation.*
1. Make sure Windows 98, 95, or NT 4.0 is running and the printer is off.
  2. Insert the printer software CD-ROM in the CD-ROM drive. The Install dialog box appears. (If you are using diskettes, insert the diskette in a disk drive, then double-click the drive icon and double-click the Setup.exe icon.)
  3. Click Install to start the printer software installation, and follow the instructions.

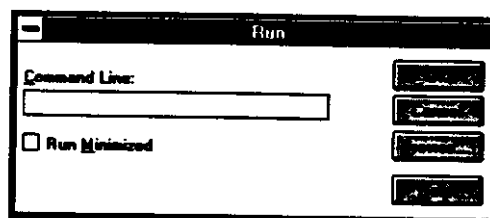
## Chapter 2

### ***Printing on Continuous Paper***

2

|                                                                                       |      |
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| Setting the Paper Release Lever .....                                                 | 2-2  |
| Setting the Paper Thickness Lever .....                                               | 2-4  |
| Using the Rear Push Tractor .....                                                     | 2-6  |
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| Removing a printed document from the rear push tractor ..                             | 2-10 |
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| Installing the tractor in the front push position .....                               | 2-12 |
| Loading paper onto the front push tractor .....                                       | 2-13 |
| Removing a printed document from the front push tractor ..                            | 2-18 |
| Removing the front push tractor .....                                                 | 2-19 |
| Using the Tractor in the Pull Position .....                                          | 2-20 |
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| Removing the paper from the pull tractor .....                                        | 2-28 |
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| Adjusting the Top-of-Form Position .....                                              | 2-38 |
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| Using the Tear Off/Bin button .....                                                   | 2-41 |
| Advancing the paper to the tear-off position automatically ..                         | 2-42 |
| Adjusting the tear-off position .....                                                 | 2-42 |

3. Choose RUN from the File menu. The Run dialog box appears. In the Command Line box, type D:SETUP, (If your CD-ROM drive has a drive letter other than "D", or if you are using a diskette, substitute the appropriate drive letter.) Then click OK.



- ☐ If you wish to make a diskette version of the printer software on your CD-ROM, type EPSETUP instead of SETUP. In the dialog box that appears, click the Driver disk creation utility button and follow the on-screen instructions.
4. The installation program begins copying the printer software files.
5. When the installation is complete, click OK to exit the installation program.

The installation program automatically selects the FX-980 as the default printer for Windows applications.

For information on opening and using the software, see "Using the Printer Software" in Chapter 4.

### ***For DOS programs***

To control the printer from DOS application programs, you must select the printer you are using or another available printer from the printer list of your application.

| Paper release lever position                                                                            | Description                                                                                                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | <b>Front push tractor position</b><br>For loading continuous paper from the tractor installed in the front push position. Also set the lever to this position when using the front push and pull tractors in combination.            |
| <b>FF<br/>PULL</b><br> | <b>Pull tractor position</b><br>For loading continuous paper from the tractor installed on top of the printer in the pull position. When the tractor is in the pull position, you can load paper in the front, rear, or bottom slot. |

2

2-5g.eps

**Note:**

*you can load two different types of continuous paper onto the front and rear push tractors, and easily switch between them using the paper release lever. Before moving the paper release lever, always press the Load/Eject button to feed the paper in the paper path backward to the standby position.*

2-38n.eps

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<Kimura>

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- \* See Appendix C for complete paper specifications.
- \*\* It is recommended that multi-part forms be used with the optional tractor unit installed in the front push or pull position.
- \*\*\* Continuous paper with labels cannot be used with the rear push tractor. To use them, install the optional tractor unit in the front push or pull position.
- \*\*\*\* Always load multi-part forms with 7 parts (one original plus 6 copies) from the front or bottom slot onto the pull tractor.

2

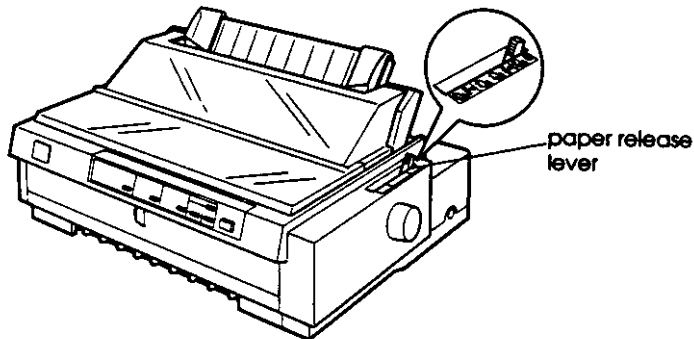
**Note:**

- ☐ *If the printed image is smeared, you may need to set the paper thickness lever one position higher to improve print quality.*
- ☐ *If the printed image is faint or has many gaps, you may need to set the paper thickness lever one position lower to improve print quality.*

## Setting the Paper Release Lever

You can load continuous paper in the printer from various paper sources, such as the rear push tractor or the front push tractor. Use the paper release lever to indicate the paper source you want to use, as described in the table below.

To decide which paper source and paper path best suits your printing needs, see "Available Paper Paths" on page -3.



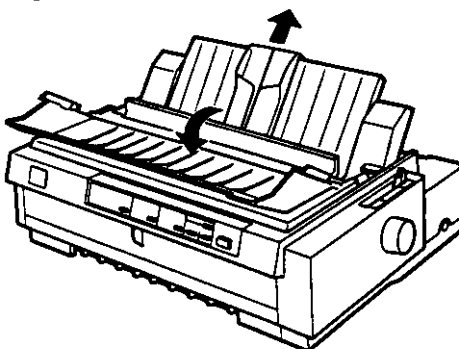
G2-8aaa.eps

The table below describes each paper release lever position.

| Paper release lever position                                                                              | Description                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CUT</b><br>         | <b>Single-sheet position</b><br>For loading single-sheet paper from the top or front slot. For information on loading single sheets, see Chapter 3.                                                                    |
| <b>FF<br/>PUSH</b><br> | <b>Rear push tractor position</b><br>For loading continuous paper from the tractor installed in the rear push position. Also set the lever to this position when using the rear push and pull tractors in combination. |

 2-2g  
 2-4g  
 2-3g  
 2-5g

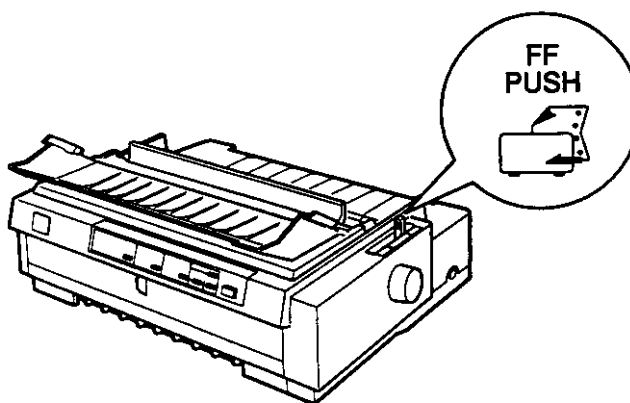
2. Open the paper guide cover and remove the paper guide base by holding the both edges and lifting it up.



2

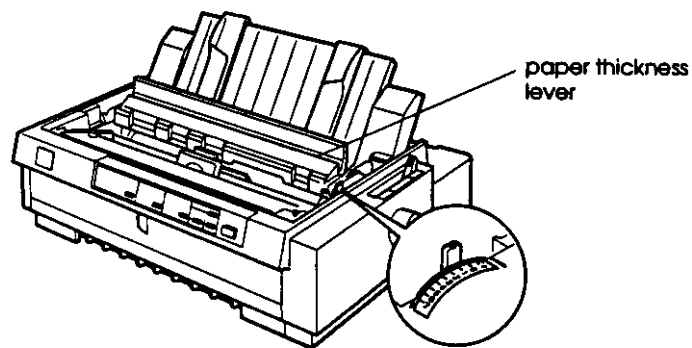
3. Set the paper release lever to the rear push tractor position. Set the paper thickness lever (located under the printer cover) to the proper position for your paper's thickness.

G3-19.eps



## Setting the Paper Thickness Lever

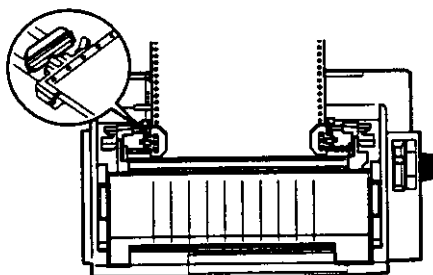
Setting the paper thickness lever allows the printer to accommodate various thicknesses of paper. The paper thickness lever is located under the printer cover. You can select one of nine positions identified by the scale next to the lever.



Use the following table to set the paper thickness lever to match the thickness of your paper.

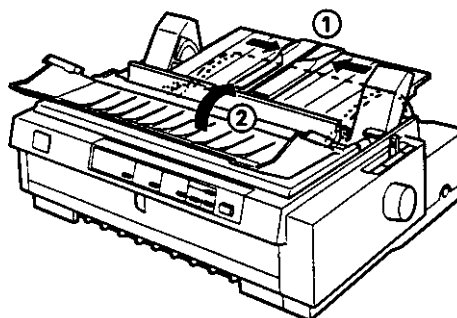
| Paper type*                                                                                                                                                                                                                                | Lever position             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Ordinary (single sheets or continuous paper)                                                                                                                                                                                               | 0                          |
| Thin paper                                                                                                                                                                                                                                 | -1 or 0                    |
| Carbonless multipart forms with:**<br>2 parts (original + 1 copy)<br>3 parts (original + 2 copies)<br>4 parts (original + 3 copies)<br>5 parts (original + 4 copies)<br>6 parts (original + 5 copies)<br>7 parts (original + 6 copies)**** | 1<br>3<br>4<br>5<br>6<br>6 |
| Continuous paper with labels***                                                                                                                                                                                                            | 2                          |
| Postcard                                                                                                                                                                                                                                   | 3                          |
| Envelopes                                                                                                                                                                                                                                  | 4 or 5                     |

7. Make sure your paper has a clean, straight edge. Then open both sprocket covers and fit the first three holes of the paper, printable side down, over the tractor pins. Then close the sprocket covers.



front of the printer

8. Slide the right sprocket to remove any slack in the paper; then lock it in place by pushing the sprocket lock down.
9. Attach the paper guide base as described on page 1-12. After installing the paper guide, grab the center section of the paper guide, lift it up and lay it flat.
10. Slide the edge guides to the middle of the paper guide base. Then close the paper guide cover.



**Note:**

*The printer cannot print when the cover is open.*

## Using the Rear Push Tractor

To use the rear push tractor, load continuous paper in the rear slot. For information on when to use the rear push tractor, see "Available Paper Paths" on page -3.

**Note:**

*The tractors are installed in the front push and rear push positions when the printer is shipped. The rear push tractor cannot be removed.*

## Loading paper onto the rear push tractor

If a tractor is installed in the pull position, you need to remove it and install the paper tension unit as described on page 2-32 before using the rear push tractor.

**Note:**

*To avoid paper jams, it is best to load thick multi-part forms using the front or bottom slot and the pull or front push tractor.*



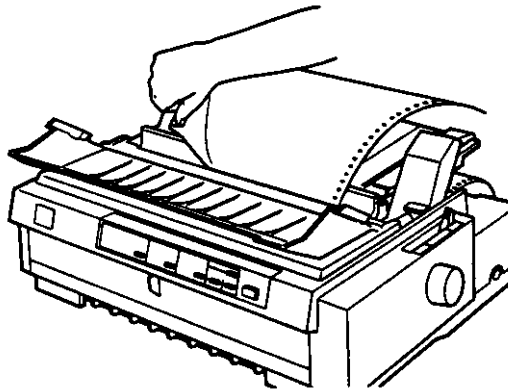
**Caution:**

*Do not load continuous paper with labels in the rear paper slot; the labels may come off their backing sheet inside the printer and cause a paper jam.*

To load paper onto the rear push tractor, follow these steps:

1. Make sure the printer is turned off.

2. Open the paper guide cover, and tear off the printed document using the tear-off edge of the printer.



2

2-22.eps

**Note:**

*If your paper's perforation is not properly aligned with the tear-off edge, you can adjust the tear-off position using the micro adjust feature. See "Adjusting the tear-off position" on page 2-42.*



**Caution:**

*Never use the knob to adjust the tear-off position; this may damage the printer or cause it to lose the tear-off position.*

3. Close the paper guide cover.

When you resume printing, the printer automatically feeds the paper back to the top-of-form position and starts printing.

To feed continuous paper to the standby position where you can remove the paper, press the Load/Eject button. (See the Glossary for an explanation of the standby position.) Then open the sprocket covers of the tractor and remove the paper.

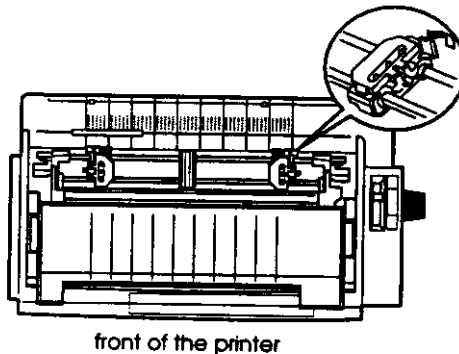
2-23.eps



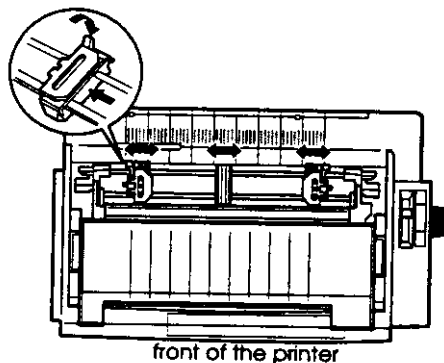
**Caution:**

*Always tear off your printed document before you press the Load/Eject button. Reverse feeding several pages at a time may cause a paper jam.*

4. Release the left and right sprockets by pulling the sprocket lock levers forward.



5. Slide the left sprocket to the left margin of the paper using the scale on the printer. (Printing starts at the "0" mark.) Then push the lever back to lock it in place.



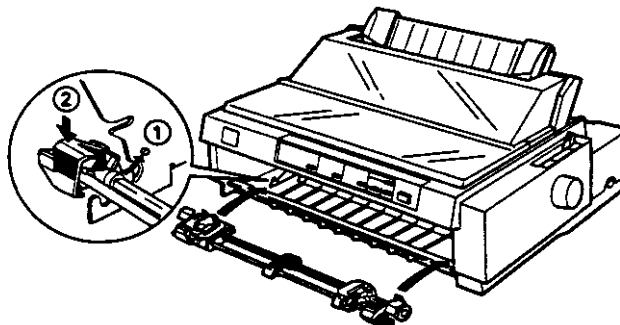
**Note:**

See "Paper alignment" and "Printable area" in Appendix C for more information on the left margin position.

6. Slide the right sprocket to match the width of your paper, but do not lock it. Move the paper support midway between the two sprockets as shown above.

2-10.eps

3. Insert the tractor into the printer's mounting slots and press down both ends of the tractor to make sure that it is firmly seated.



2

2-35a.eps

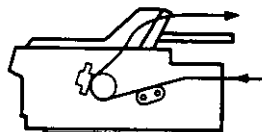
You are now ready to load continuous paper onto the front push tractor as described in the next section. To remove the tractor, see page 2-19.

### ***Loading paper onto the front push tractor***

To load paper onto the front push tractor, follow these steps:

1. Make sure the printer is turned off.

11. Turn on the printer. You may need to check and change the printer driver settings as described in Chapter 4. When the printer receives data, it automatically loads the paper and starts printing. The printed pages are fed over the paper guide toward the back of the printer.



2-20a.eps

12. After you finish printing, follow the steps in the next section to tear off your printed document. If the first printed line on your page appears too high or low, you can change its position by using the micro adjust feature. See "Adjusting the Top-of-Form Position" on page 2-38.

**Caution:**

*Never use the knob to adjust the top-of-form position; this may damage the printer or cause it to lose the top-of-form position.*

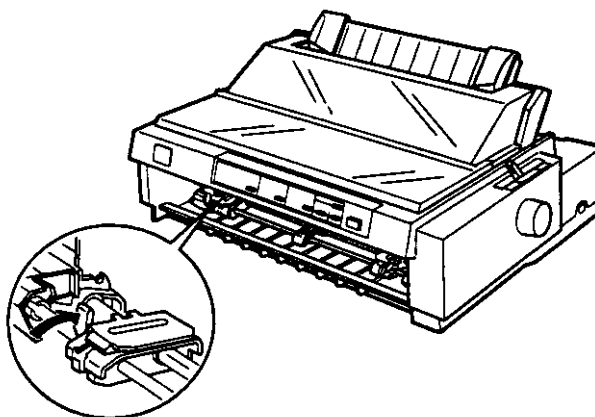
**Removing a printed document from the rear push tractor**

To remove the printed document, follow these steps:

1. Make sure the Tear Off/Bin lights are flashing. (This indicates your paper is at the current tear-off position). You may need to press the Tear Off/Bin button.

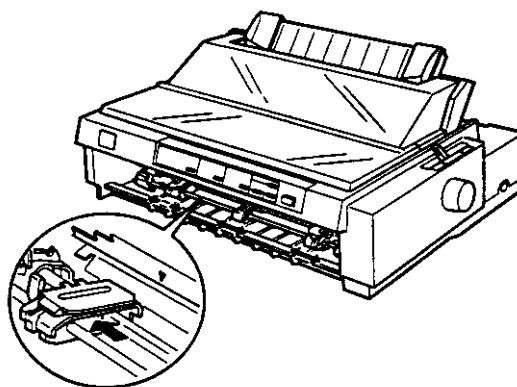
2-21.eps

4. Release the left and right sprockets by pushing the sprocket lock levers backward.



2

5. Slide the left sprocket to the left margin of your paper using the arrow mark inside the printer. (Printing starts at the arrow mark.) Then pull the lever forward to lock it in place.



2-17nn.eps

**Note:**

See "Paper alignment" and "Printable area" in Appendix C for more information on the left margin position.

2-16b.eps

## Using the Front Push Tractor

To use the front push tractor, load continuous paper in the front slot. For more information on when to use the front push tractor, see "Available Paper Paths" on page -3.

**Note:**

*The tractors are installed in the front push and rear push positions when the printer is shipped. The rear tractor cannot be removed.*

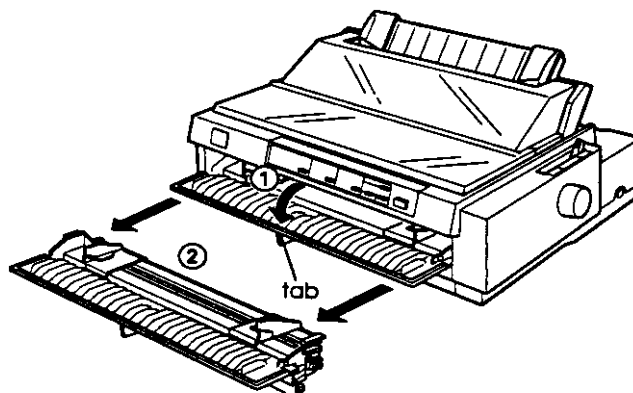
## Installing the tractor in the front push position

If a tractor is installed in the front push position, skip to "Loading paper onto the front push tractor" on the next page.

If a tractor is installed in the pull position, you need to remove it and install the paper tension unit as described on page 2-32 before using the front push tractor.

To install the tractor in the front push position, follow these steps:

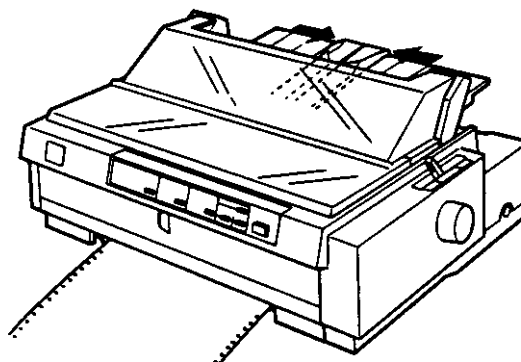
1. Make sure the printer is turned off.
2. Open the front paper guide by pulling the tab at the center of the guide. Then remove the guide by grasping both sides and pulling it straight out of the printer.



10. Slide the edge guides to the middle of the top paper guide. Lift the center section of the paper guide up and lay it flat. Make sure that the printer cover and the paper guide cover are closed.

2

2-26.eps

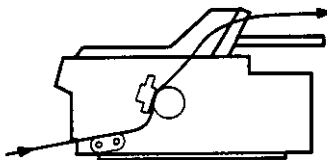


**Note:**

*The printer cannot print when the printer cover is open.*

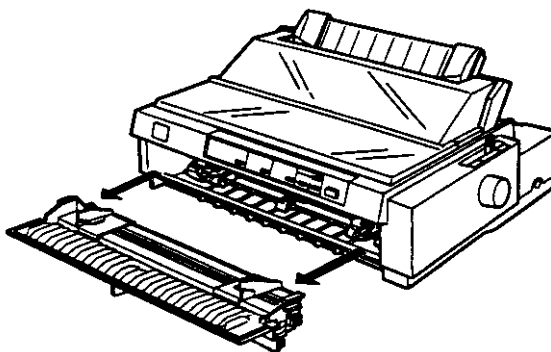
11. Turn on the printer. You may need to check and change the printer driver settings as described in Chapter 4. When the printer receives data, it automatically loads the paper and starts printing. The printed pages are fed over the paper guide toward the back of the printer.

2-27.eps



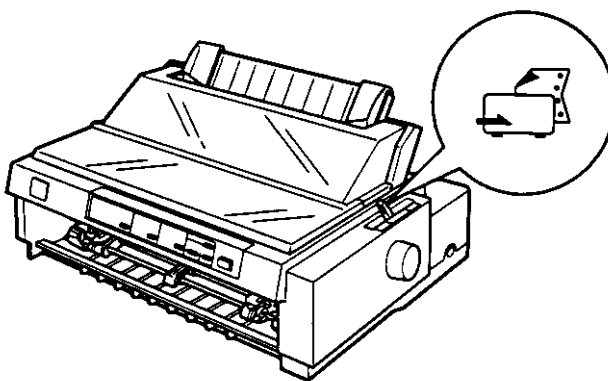
12. After you finish printing, follow the steps in the next section to tear off your printed document.

2. Open the front paper guide by pulling the tab at the center of the guide. Then remove the guide by grasping both sides and pulling it straight out of the printer. Check that the tractor is installed in the front push position.



1-1.eps

3. Set the paper release lever to the front push tractor position. Also set the paper thickness lever (located under the printer cover) to the proper position for your paper's thickness.



If the first line on your page appears too high or low, you can change its position by using the micro adjust feature. See "Adjusting the Top-of-Form Position" on page 2-38.

**Caution:**

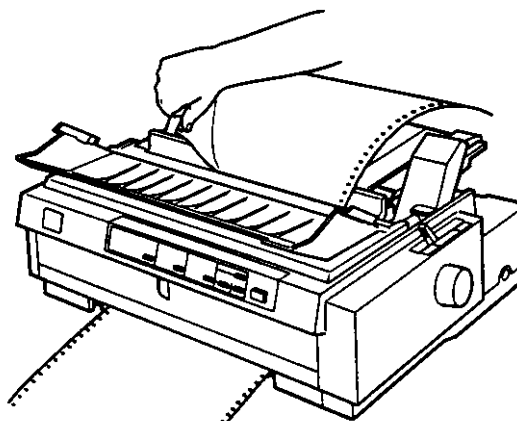
*Never use the knob to adjust the top-of-form position; this may damage the printer or cause it to lose the top-of-form position.*

2-28.eps

**Removing a printed document from the front push tractor**

To remove the printed document, follow these steps:

1. Make sure the Tear/Off Bin lights are flashing. (This indicates your paper is at the current tear-off position.) You may need to press the Tear Off/Bin button.
2. Open the paper guide cover, and tear off the printed document using the tear-off edge of the printer.

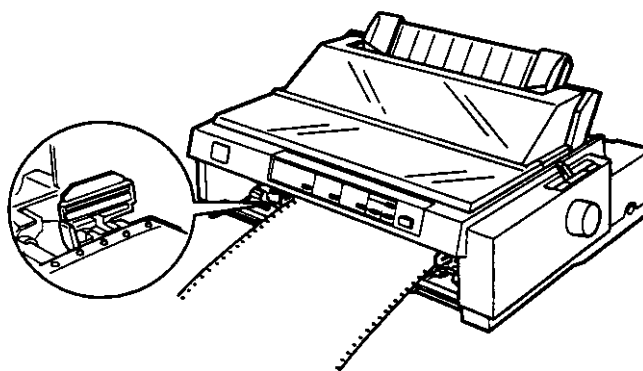


2-29.eps

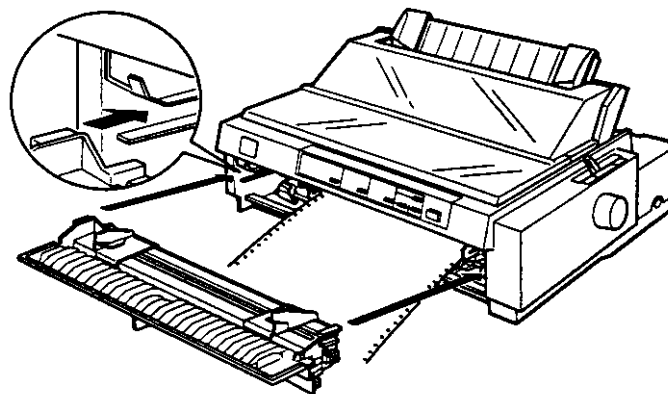
**Note:**

*If your paper's perforation is not properly aligned with the tear-off edge, you can adjust the tear-off position using the micro adjust feature. See "Adjusting the tear-off position" on page 2-42.*

6. Slide the right sprocket to match the width of your paper, but do not lock it. Move the paper support midway between the two sprockets as shown above.
7. Make sure your paper has a clean, straight edge. Then open both sprocket covers and fit the first three holes on each side of the paper, printable side up, over the tractor pins. Then close the sprocket covers.



8. Slide the right sprocket to remove any slack in the paper; then lock it in place by pushing the sprocket lock down.
9. Attach the front paper guide by sliding it along the printer's mounting slots as shown below. Then close the front paper guide.



C.eps



**Caution:**

*Never use the knob to adjust the tear-off position; this may damage the printer or cause it to lose the tear-off position.*

3. Close the paper guide cover.

When you resume printing, the printer automatically feeds the paper back to the top-of-form position and starts printing.

2

To remove the remaining paper from the printer, press the Load/Eject button to feed the paper backward to the standby position. (See the Glossary for an explanation of the standby position.) Then open the sprocket covers of the tractor and remove the paper.

2-29a.eps



**Caution:**

*Always tear off your printed document before you press the Load/Eject button. Reverse feeding several pages at a time may cause a paper jam.*

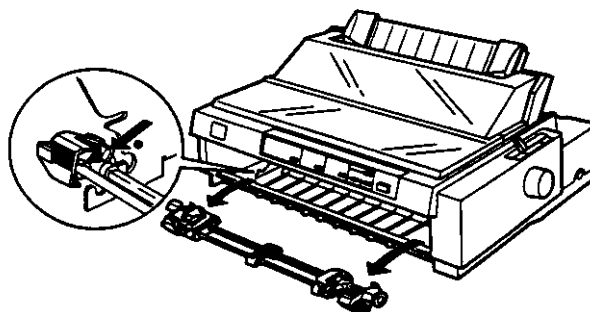
### **Removing the front push tractor**

To remove the tractor from the front push position, follow these steps:

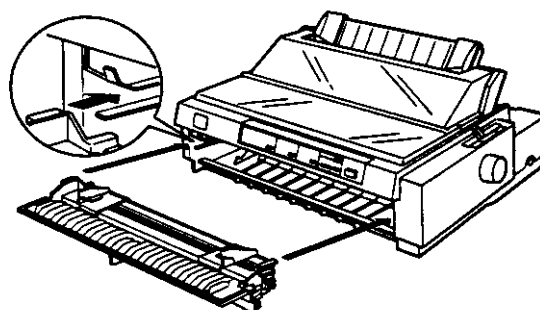
1. Remove
2. Remove any paper from the tractor as described in the previous section.
3. Turn off the printer.
4. Open the front paper guide by pulling the tab at the center of the guide. Then remove the guide by grasping both sides and pulling it straight out of the printer.

2-35c.eps

5. Press the tractor's lock tabs, tilt the tractor up, and lift it out of the printer.



6. Replace the front paper guide by sliding it along the printer's mounting slots until it locks in place. Then close the front paper guide.



P3-9.eps

### ***Using the Tractor in the Pull Position***

Using the tractor in the pull position is ideal for printing on thick and heavy continuous paper, such as multi-part forms or continuous paper with labels. However, you cannot use the tear-off feature with the pull tractor.

Because thick paper requires a straight paper path to avoid paper jams, you should load paper in the front or bottom slot when using the pull tractor.



**Caution:**

*Do not load continuous paper with labels in the rear paper slot; the labels may come off their backing sheet inside the printer and cause a paper jam.*

2

To further reduce the chance of paper jams and improve the performance of continuous paper, you can use two tractors in combination. When using this printing method, load the paper onto both the front push tractor and the pull tractor, or both the rear push tractor and the pull tractor. See "Using two tractors in a push/pull combination" on page 2-29.

### ***Installing the tractor in the pull position***

To install a tractor in the pull position, you must either remove the front push tractor or purchase the optional pull tractor (C80033\*). To remove the front push tractor, see "Removing the front push tractor" on page 2-23.

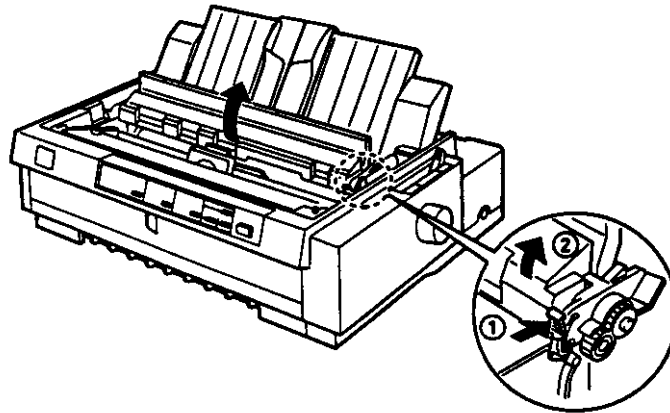
**Note:**

*The tractor in the rear push position cannot be removed.*

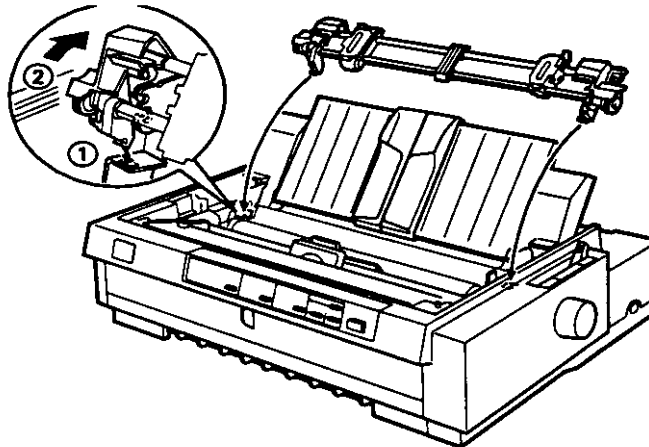
To install a tractor in the pull position, follow these steps:

1. Make sure the printer is turned off. Then lift the printer cover up and off the printer.

2. Push up the tabs on each side of the paper tension unit and lift the unit up and off the printer. Store the paper tension unit in a safe place.



3. Lower the tractor into the printer's mounting slots and press down both ends of the tractor to make sure that it is firmly seated.



2-18nn.eps

You are now ready to load continuous paper onto the pull tractor as described in the next section. To remove the pull tractor, see page 2-31.

## Loading paper onto the pull tractor

2

When using the pull tractor, load continuous paper in the front or bottom slot, if possible; loading paper in the rear slot may increase the chance of a paper jam.

2-19nn.eps

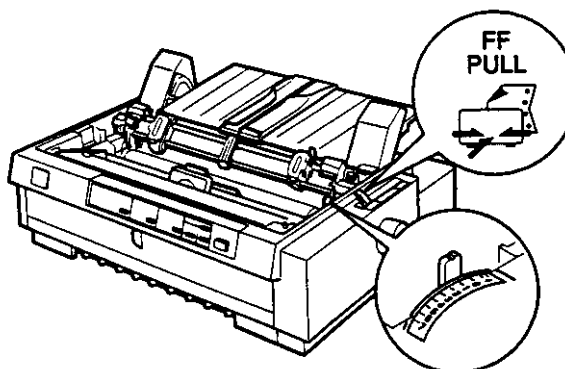


**Caution:**

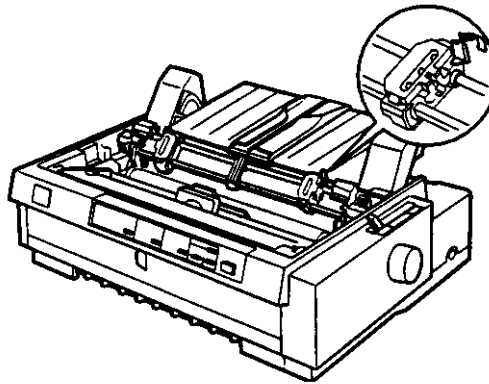
*Do not load continuous paper with labels in the rear paper slot; the labels may come off their backing sheet inside the printer and cause a paper jam.*

To load paper onto the pull tractor, follow these steps:

1. Make sure the printer is turned off, and the printer cover is removed. Also check that the tractor is installed in the pull position.
2. Slide the edge guides to the middle of the paper guide. Lift the center section of the paper guide up and lay it flat.
3. Set the paper release lever to the pull tractor position. Set the paper thickness lever to the proper position for your paper's thickness.

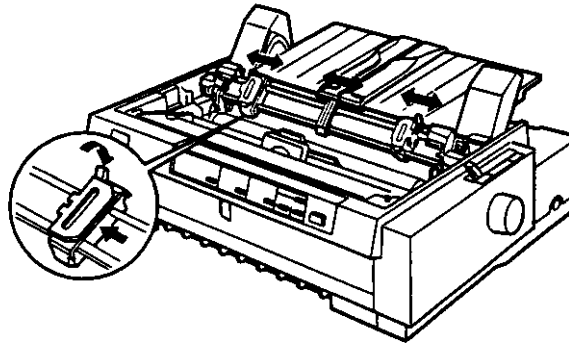


4. Release the left and right sprockets by pulling the sprocket lock levers forward.



5. Slide the left sprocket to the left margin of the paper using the scale on the paper guide as a guide. (Printing starts at the arrow mark.) Then push the lever back to lock it in place.

2-31.eps

**Note:**

See "Paper alignment" and "Printable area" in Appendix C for more information on the left margin position.

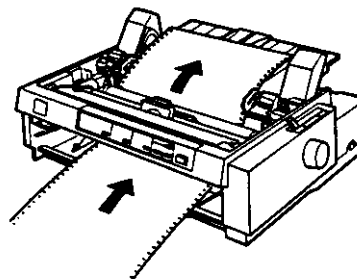
2-32a.eps

6. Slide the right sprocket to match the width of your paper, but do not lock it. Move the paper support midway between the two sprockets as shown above.

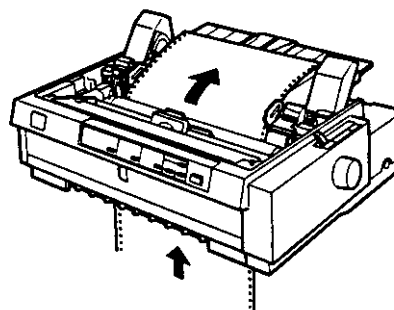
7. Make sure your paper has a clean, straight edge. Then open both sprocket covers.
8. Insert the paper into the front, bottom, or rear paper slot as described below until it emerges between the platen and the ribbon guide. Then pull up the paper until the perforation between the first and second pages is even with the top of the printer's ribbon.

2

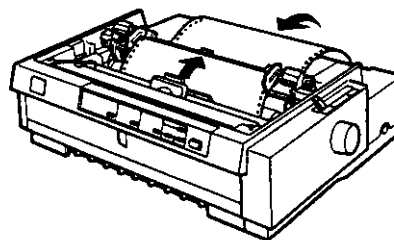
Before you load paper in the front slot, remove the front paper guide. Then load paper printable side up.



Load paper in the bottom slot printable side up (forward).



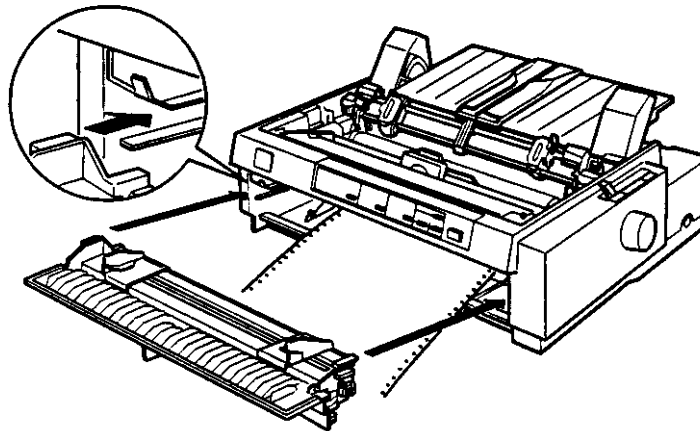
Before you load paper in the rear slot, remove the paper guide base. Then load paper in the rear slot, printable side down.



2-33a.eps

9. Fit three holes on each side of the paper over the tractor pins on both sprockets. Then close the sprocket covers.
10. Slide the right sprocket to remove any slack in the paper, then lock it in place by pushing the sprocket lock down.
11. If you use the front slot, attach the front paper guide with the continuous paper positioned as shown below. Then close it.

2-34a.eps



2-34b.eps

12. If you use the rear slot, replace the paper guide and make sure the edge guides are together in the middle of the paper guide and lift the center section of the paper guide up and lay it flat.
13. Turn on the printer.
14. Remove any slack in the paper and adjust the top-of-form position (the position where the printer will start printing) by pressing the LF/FF button or using the micro adjust feature. (To use the micro adjust feature, see "Adjusting the Top-of-Form Position" on page 2-38.) The printer will start printing at the current position without advancing the paper.

2-34c.eps



**Caution:**

- ☐ Never use the knob to remove slack in the paper or to adjust the top-of-form position; this may damage the printer or cause it to lose the top-of-form position.
- ☐ Always remove any slack from the paper; otherwise print quality may be reduced.

2

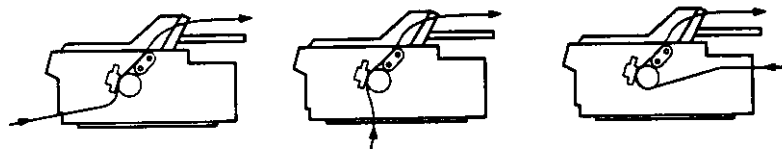
15. Attach the printer cover and close the paper guide cover.

**Note:**

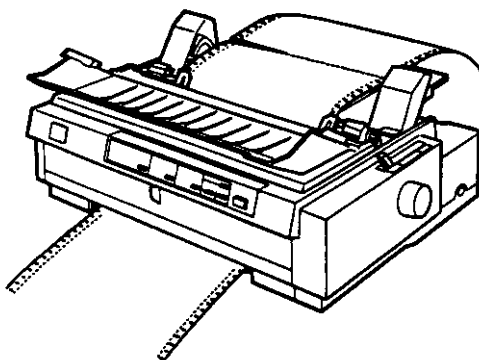
*The printer cannot print when the printer cover is open.*

G3-19-aa.ep

16. You may need to check and change the printer driver settings as described in Chapter 4. Then send a print job to the printer. The printer starts printing from the current position without advancing the paper. The printed pages are fed over the paper guide toward the back of the printer.

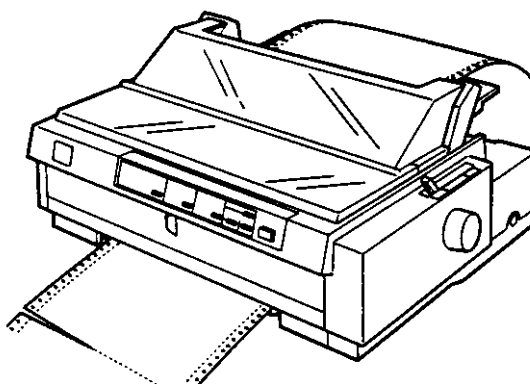


17. After you finish printing, open the paper guide cover; then tear off the printed document at the perforation nearest the paper exit slot.



### ***Removing the paper from the pull tractor***

1. After you finish printing, tear off the supply of paper at the perforation nearest the paper entry slot.



2. To eject the paper, hold down the LF/FF button.

## ***Using two tractors in a push/pull combination***

To improve continuous paper feeding and reduce paper jams, you can use two tractors at the same time. When using two tractors in combination, you can load paper in the front paper slot onto both the front push tractor and the pull tractor, or in the rear paper slot onto both the rear push tractor and the pull tractor.

2

To use the front push tractor with the pull tractor, you need to purchase the optional pull tractor (C80033\*). The tractor in the rear push position cannot be removed. Install the optional pulltractor as described in "Installing the tractor in the pull position" on page 2-21.

G05-1.eps

To use the rear push tractor with the pull tractor, you can remove the tractor from the front push position as described on page 2-11, and install it in the pull position as described on page 2-xx.

***Note:***

*The tractor in the rear push position cannot be removed.*

To load paper onto two tractors, follow these steps:

1. Remove the printer cover and paper guide base.
2. Make sure one tractor is in the front or rear push position and one tractor is in the pull position as described earlier in this chapter.
3. Set the paper release lever to either the front push or rear push tractor position, depending on which push tractor you are using. Set the paper thickness lever to the proper position for your paper's thickness.
4. Load continuous paper onto the front or rear push tractor as described earlier in this chapter.

5. Turn on the printer. Press the Load/Eject button to advance the paper to the top-of-form position. Then press the LF/FF button until the perforation between the first and second pages is even with the top of the printer's ribbon.

**Caution:**

*Never use the knob to move the paper; this may damage the printer or cause it to lose the top-of-form position.*

6. Load the paper onto the pull tractor's sprockets as described in "Loading paper onto the pull tractor" on page 2-23.
7. Set the paper release lever to the pull tractor position. Then remove any slack in the paper between the push and pull tractors using the micro adjust feature (described on page 2-38) if necessary.
8. Move the paper release lever back to the push tractor position you set in step 2.
9. When the printer receives data, it will start printing at the current position without advancing the paper. If necessary, follow the steps in "Adjusting the Top-of-Form Position" on page 2-38 to adjust the current position of the paper.

**Caution**

- ☐ *Never use the knob to remove slack in the paper or to adjust the top-of-form position; this may damage the printer or cause it to lose the top-of-form position.*
  - ☐ *Always remove any slack from the paper; otherwise print quality may be reduced.*
10. Attach the paper guide base. Then slide the edge guides to the middle of the paper guide. Lift the center section of the paper guide up and lay it flat.
  11. Attach the printer cover and close the paper guide cover.

## **Loading multi-part Forms**

You can use carbonless multipart forms of up to seven parts (six copies in addition to the original). Make sure you set the paper thickness lever to the proper position based on the number of layers in your form.

For best results with thick paper, such as multi-part forms, select a straight or almost straight paper path. It is best to load multi-part forms using:

- ☐ the front slot and the front push tractor
- ☐ the front or bottom slot and the pull tractor

Except for setting the paper thickness lever, you load multi-part forms the same way you load ordinary continuous paper. For details, see the sections on loading continuous paper earlier in this chapter.

### **Note:**

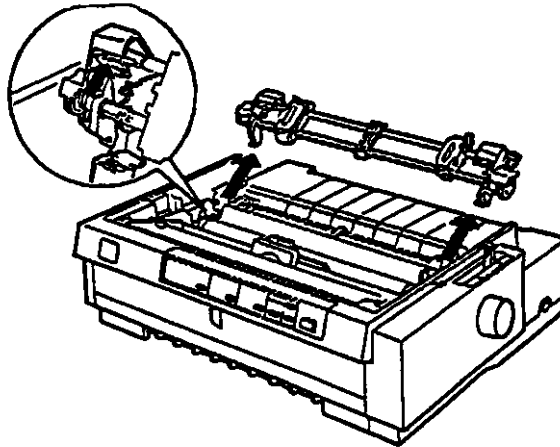
- ☐ Be sure your multi-part forms do not exceed 0.46 mm (0.018 inches) in thickness for the printable area and 0.9 mm (0.035 inches) for the perforated edges.
- ☐ Use multi-part forms only under normal temperature and humidity conditions, as follows:

|             |                           |
|-------------|---------------------------|
| Temperature | 15 to 25 °C (59 to 77 °F) |
| Humidity    | 30 to 60% RH              |
- ☐ Do not load paper that is damaged, curled, or wrinkled.

## **Loading Continuous Paper With Labels**

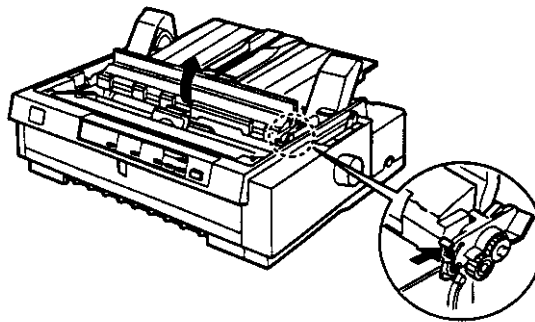
When printing on labels, use only the type of labels that are mounted on continuous backing sheets with sprocket holes for use with a tractor feeder. Do not try to print on single sheets with labels because the printer may not feed labels on a shiny backing sheet properly.

3. Press the tractor's lock tabs, tilt the tractor toward you, and lift it off the printer.



2-35ac.eps

4. Store the tractor in a safe place, or install it in the front push position as described on page 2-12.
5. To replace the paper tension unit, lower it onto the printer's mounting pegs. Then press down both ends of the unit until it clicks into place.



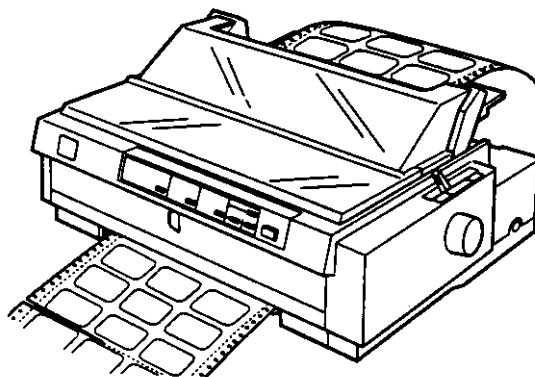
6. Replace the paper guide base and the printer cover. Then close the paper guide cover.

## ***Removing continuous paper with labels***

To avoid peeling labels off the backing sheet and jamming the printer, follow the steps below when you remove continuous paper with labels from the printer.

1. Tear off the supply of continuous labels at the perforation nearest the paper entry slot.

2



2. Hold down the LF/FF button to eject the remaining labels from the printer.



**Caution:**

*Never press the Load/Eject or Tear Off/Bln button. When fed backward, labels can easily come off the backing sheet and cause a paper jam.*

Thick paper, such as continuous paper with labels, requires a straight or almost straight paper path. You can load labels in the front (push tractor or pull tractor) or bottom (pull tractor) paper slot; however, for best results, use the tractor in the pull position and load paper in the front or bottom paper slot.

You load labels the same way you load ordinary continuous paper, except you must set the paper thickness lever to 2 before printing on labels. See "Loading paper onto the pull tractor" on page 2-23 for more information.

**Caution:**

- ☐ Do not load continuous paper with labels in the rear paper slot because the paper path from the rear slot is curved; labels may come off their backing sheet inside the printer and cause a paper jam.
- ☐ Never use the tear-off feature (by pressing the Tear Off/Bin button or turning on the auto tear-off mode as described in "About Your Printer's Default Settings" in Chapter 5) to feed continuous paper with labels backward; they may come off their backing sheet and jam the printer.
- ☐ Because labels are sensitive to temperature and humidity, use them only under normal operating conditions, as follows:

|             |                           |
|-------------|---------------------------|
| Temperature | 15 to 25 °C (59 to 77 °F) |
| Humidity    | 30 to 60% RH              |
- ☐ Do not load continuous paper with labels that is damaged, curled, or wrinkled.
- ☐ Do not leave labels loaded in the printer between jobs; they may curl around the platen and jam when you resume printing.

2. Press the Load/Eject button to feed the continuous paper backward to the standby position. The paper is still attached to the push tractor but is no longer in the paper path.
3. Load single sheets in the top or front paper guide as described in Chapter 3.

2

### ***Switching to printing on continuous paper***

To switch from printing on single sheets to printing on continuous paper with the front or rear push tractor, follow these steps:

1. If a single sheet remains in the printer, press the Load/Eject button to eject it.



**Caution:**

*Never use the knob to eject paper while the printer is on; this may damage the printer or cause it to lose the top-of-form position.*

3-6anew.eps

2. Make sure that the tractor is installed in the front or rear push position. To install the tractor in the front position or in the rear push position, see page 2-12 or see page 2-xx.
3. Load continuous paper onto the front or rear push tractor as described earlier in this chapter.

The printer loads your continuous paper automatically when you begin printing.

## Switching Between Printing on Continuous Paper and Printing on Single Sheets

You can easily switch back and forth between printing on continuous paper with a push tractor and printing on single sheets without having to remove or reload the continuous paper.

### Switching to printing on single sheets

To switch from printing on continuous paper with the rear or front push tractor to printing on single sheets, follow these steps:

**Note:**

- ☐ If continuous paper with labels is loaded in the printer, remove it before switching to single-sheet printing. See "Removing continuous paper with labels" on page 2-35.
  - ☐ If a tractor is in the pull position, remove any continuous paper from it before switching to single-sheet printing. See "Removing the paper from the pull tractor" on page 2-28.
1. If any printed pages remain in the printer, press the Tear Off/Bin button to advance the paper to the tear-off position. Then tear off the printed pages.



**Caution:**

- ☐ Tear off your printed document before you press the Load/Eject button in the next step. Reverse feeding several pages at a time may cause a paper jam.
- ☐ Never use the knob to eject paper while the printer is on; this may damage the printer or cause it to lose the tear-off position.

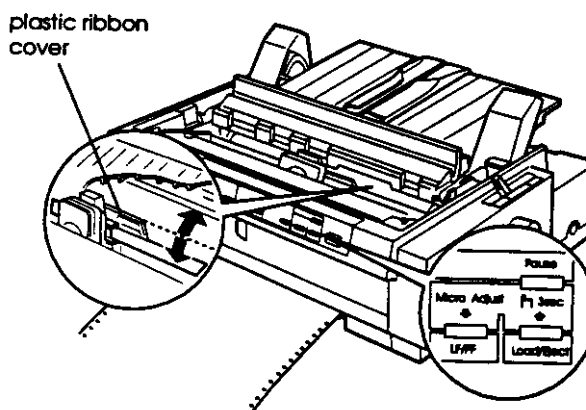
5. Press the LF/FF  button to move the top-of-form position up on the page, or press the Load/Eject  button to move the top-of-form position down on the page.



**Caution:**

*Never use the knob to adjust the top-of-form position; this may damage the printer or cause it to lose the top-of-form position.*

2



**Note:**

- ☐ The printer has a minimum and a maximum top-of-form position. If you try to adjust it beyond these limits, the printer beeps and stops moving the paper.
- ☐ When the paper reaches the default top-of-form position, the printer also beeps and stops moving the paper briefly. You can use the default setting as a reference point when adjusting the top-of-form position.

## Adjusting the Top-of-Form Position

The top-of-form position is the position on the page where the printer starts printing. If your printing appears too high or low on the page, you can use the micro adjust feature to adjust the top-of-form position. Follow these steps:

**Caution:**

*Never use the knob to adjust the top-of-form position; this may damage the printer or cause it to lose the top-of-form position.*

**Note:**

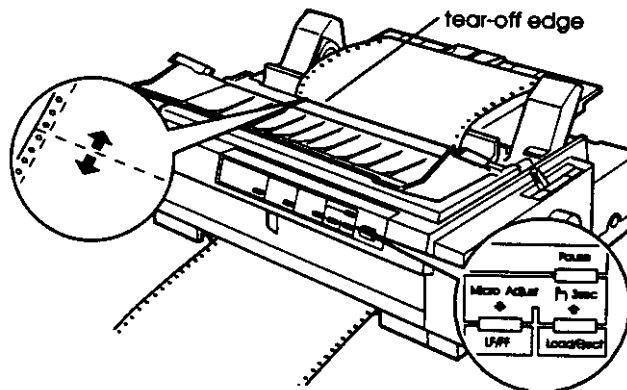
☐ Your top-of-form position setting remains in effect until you change it, even if you turn off the printer.

☐ The top margin setting made in some application software overrides the top-of-form position setting you make with the micro adjust feature. If necessary, adjust the top-of-form position in your software.

New14.eps

1. Make sure the printer is turned on.
2. If necessary, load paper as described earlier in this chapter. If you load paper onto a push tractor, press the Load/Eject button to advance the paper to the current top-of-form position.
3. Lift the printer cover up and off the printer.
4. Hold down the Pause button for about three seconds. The Pause light starts flashing and the printer enters the micro adjust mode.

4. Press the LF/FF  button to feed the paper backward, or press the Load/Eject  button to feed the paper forward, until the paper perforation is aligned with the tear-off edge.



2

**Note:**

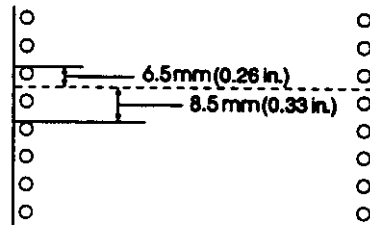
*The printer has a minimum and a maximum tear-off position. If you try to adjust the tear-off position beyond these limits, the printer beeps and stops moving the paper.*

5. After you set the tear-off position, press the PAUSE button to turn off the micro adjust mode.
6. Tear off the printed pages.

When you resume printing, the printer automatically feeds the paper back to the top-of-form position and begins printing.

To adjust the top-of-form position for continuous paper loaded on the pull tractor, see the following example:

First mark a point 6.5 mm (0.26 inches) above the paper's perforation; then position the paper so that the mark is even with the top edge of the plastic ribbon cover. This gives you an 8.5 mm (0.33 inches) margin on the next page, meaning the printer starts printing 8.5 mm (0.33 inches) below the perforation. If you mark a point 5.5 mm (0.22 inches) above the perforation, you get a 9.5 mm (0.37 inches) margin on the next page.



6. After you set the top-of-form position, press the Pause button to exit micro adjust mode.

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## Chapter 3

### **Printing on Single Sheets**

|                                                     |      |
|-----------------------------------------------------|------|
| Using Single Sheets .....                           | 3-2  |
| Available paper types and paper slots .....         | 3-2  |
| Loading single-sheet multi-part forms .....         | 3-4  |
| Loading envelopes .....                             | 3-6  |
| Loading postcards .....                             | 3-7  |
| Loading Single Sheets in the Top Paper Slot .....   | 3-8  |
| Loading Single Sheets in the Front Paper Slot ..... | 3-10 |

3

### ***Advancing the paper to the tear-off position automatically***

To automatically advance your printed documents to the tear-off position, you need to turn on the auto tear-off mode and select the appropriate page length for continuous paper in the default-setting mode. For instructions, see "About Your Printer's Default Settings" on page 5-3.

When auto tear-off is on, the printer automatically advances the paper to the tear-off position whenever it receives a full page of data or a form feed command followed by no more data.

### ***Adjusting the tear-off position***

If your paper's perforation is not aligned with the tear-off edge, you can use the micro adjust feature to move the perforation to the tear-off position. Follow these steps:



**Caution:**

*Never use the knob to adjust the tear-off position; this may damage the printer or cause it to lose the tear-off position.*

**Note:**

*Your tear-off position setting remains in effect until you change it, even if you turn off the printer.*

1. Make sure the Tear Off/Bin lights are flashing (the paper is at the current tear-off position). You may need to press the Tear Off/Bin button to advance the paper to the tear-off position.
2. Open the paper guide cover.
3. Hold down the Pause button for about three seconds. The Pause light begins flashing and the printer enters the micro adjust mode.

The table below shows the types of paper you can load in the top and front paper slots and the paper thickness lever setting for each paper type. For more information on the paper thickness lever, see page 2-4.

| Paper type                                                                                                                                                                                       | Available paper slots | Paper thickness lever position |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------|
| Ordinary single-sheet paper                                                                                                                                                                      | Top and front         | -1 or 0                        |
| Multi-part forms (carbonless)<br>2 parts (original + 1 copy)<br>3 parts (original + 2 copies)<br>4 parts (original + 3 copies)<br>5 parts (original + 4 copies)<br>6 parts (original + 5 copies) | Top and front         | 1<br>3<br>4<br>5<br>6          |
| Postcards                                                                                                                                                                                        | Top and front         | 3                              |
| Envelopes                                                                                                                                                                                        | Top                   | 4 or 5                         |

3

**Note:**

- ☐ If the printed image is smeared, you may need to set the paper thickness lever one position higher to improve print quality.
- ☐ If the printed image is faint or has many gaps, you may need to set the paper thickness lever one position lower to improve print quality.
- ☐ Do not load paper that is damaged, curled, or has been folded.

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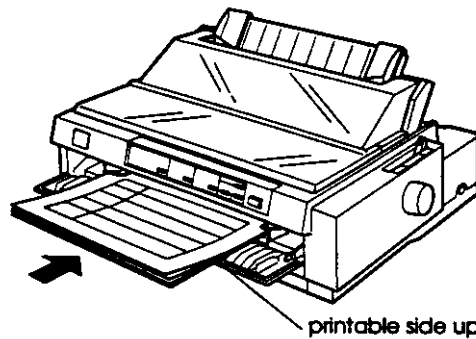
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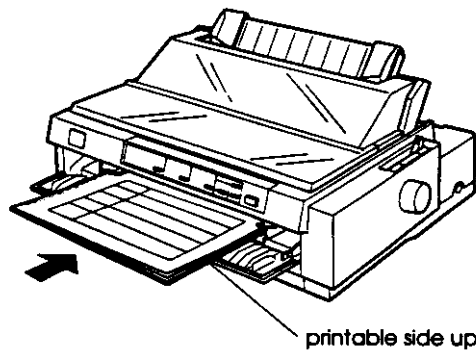
Insert the of form in the front slot, bound edge first and printable side up, as shown below.



3

New05.eps

- ❑ You can load single-sheet multi-part forms bound at the side only in the front slot. Insert the of form in the front slot, top edge first and printable side up, as shown below.



New07.eps

- ❑ Before printing, set the paper thickness lever (located under the printer cover) to the proper position for your paper. See the table on page 3-3, for details.
- ❑ Be sure your multi-part forms do not exceed 0.46 mm (0.018 in.) in thickness.
- ❑ Use multi-part forms only under normal temperature and humidity conditions, as follows:

|             |                         |
|-------------|-------------------------|
| Temperature | 15 to 25°C (59 to 77°F) |
| Humidity    | 30 to 60% RH            |

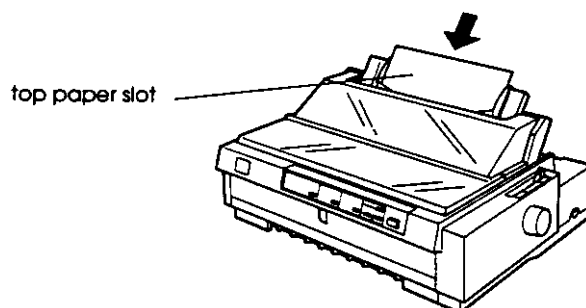
## Using Single Sheets

### Available paper types and paper slots

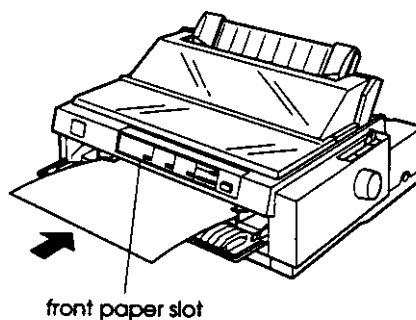
As shown below, you can load single-sheet paper one sheet at a time using the paper guide on top of the printer or the front paper guide. You can print on ordinary single sheets, single-sheet multi-part forms, postcards, and envelopes. Your single-sheet paper may be from 100 to 257 mm (3.9 to 10.1 in.) wide.

**Note:**

- ☐ To load a stack of single-sheet paper, use the optional cut-sheet feeder. See Appendix A, "Enhancing Your Printer With Options".
- ☐ For detailed specifications on the types of single-sheet paper you can use, see Appendix C.



2-9n.eps



2-12.eps



**Caution:**

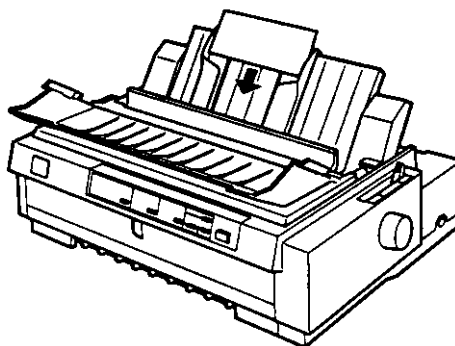
*Because printing on the edge of an envelope may damage the print head, make sure the printing stays entirely within the printable area of your envelopes. See Appendix C for details on the printable area of envelopes.*

### Loading postcards

3

You can load postcards one at a time in the top or front paper slot as described in "Loading Single Sheets in the Top Paper Slot" (on page 3-8) or "Loading Single Sheets in the Front Paper Slot" (on page 3-10). Also follow these guidelines:

- ☐ When you are loading postcards long edge first, always load them in the top slot.



New11.eps

- ☐ Set the paper thickness lever (located under the printer cover) to position 3.
- ☐ Before printing, turn on the card mode by pressing the Tear Off/Bin button until both Tear Off/Bin lights are on. After you finish printing on postcards, press the Tear Off/Bin button once to exit the card mode. (Bin 1 of the optional cut-sheet feeder is selected.)
- ☐ Use postcards only under normal temperature and humidity conditions, as follows:

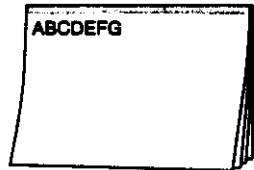
|             |                         |
|-------------|-------------------------|
| Temperature | 15 to 25°C (59 to 77°F) |
| Humidity    | 30 to 60% RH            |

### **Loading single-sheet multi-part forms**

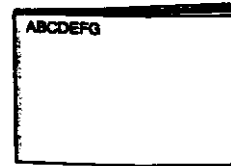
You can load single-sheet multipart forms one at a time in the top or front paper slot as described in "Loading Single Sheets in the Top Paper Slot" (on page 3-8) or "Loading Single Sheets in the Front Paper Slot," (on page 3-10). Be sure to follow these guidelines:

- ☐ Use only carbonless multi-part forms bound as shown below.

fastened only at the  
top by line glueing

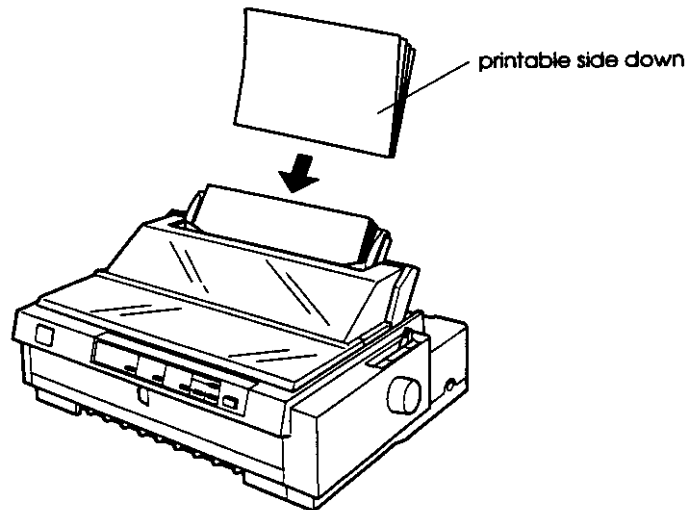


fastened only at the  
side by line glueing

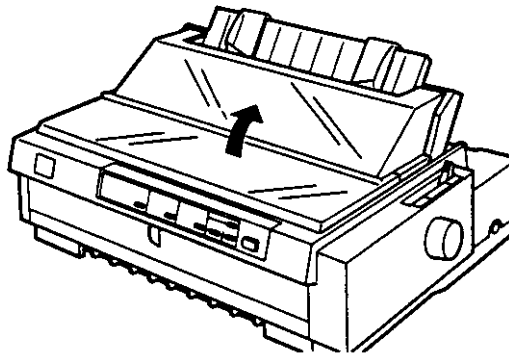


- ☐ You can use the top or front paper slot to load single-sheet multi-part forms that are fastened at the top.

Insert the of form in the top slot, bound edge first and the printable side down, as shown below.



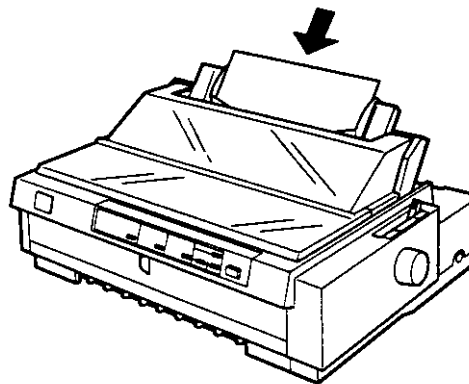
4. Close the paper guide cover.



3

2-8n.eps

5. Press the Operate button to turn on the printer, if necessary.
6. Insert a sheet of paper, printable side down, between the edge guides until it meets resistance. The printer feeds the paper automatically and is ready to print.



2-9n.eps

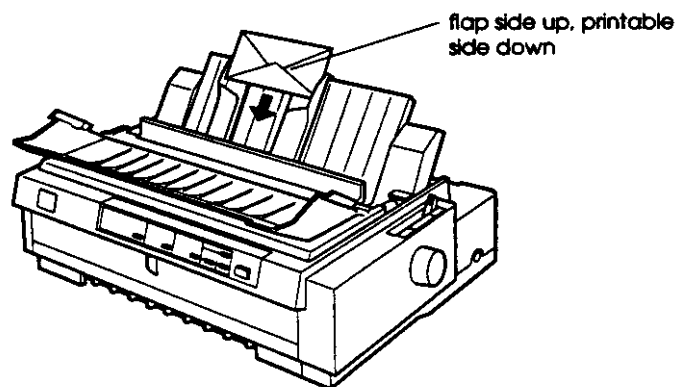
**Note:**

The printer cannot print when the printer cover is open.

### Loading envelopes

You can load envelopes in the top paper slot only, as described in "Loading Single Sheets in the Top Paper Slot" on page 3-8. Also follow these guidelines:

- ☐ Load envelopes one at a time in the top slot, with the flap fold first and the flap side up.

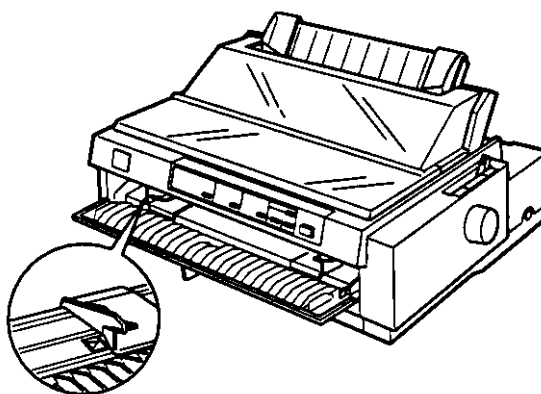


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- ☐ Set the paper thickness lever (located under the printer cover) to position 4 or 5 to match the thickness of the envelope.
- ☐ Before printing, turn on the card mode by pressing the Tear Off/Bin button until both Tear Off/Bin lights are on. After you finish printing on envelopes, press the Tear Off/Bin button once to exit the card mode. (Bin 1 of the optional cut-sheet feeder is selected.)
- ☐ Do not use envelopes that are curled or folded. Also avoid using envelopes that are too thin; they may curl during printing and become jammed.
- ☐ If you are using No. 6 envelopes, align the left edge of the envelope with the arrow mark on the printer.
- ☐ Use envelopes only under normal temperature and humidity conditions, as follows:

|             |                         |
|-------------|-------------------------|
| Temperature | 15 to 25°C (59 to 77°F) |
| Humidity    | 30 to 60% RH            |

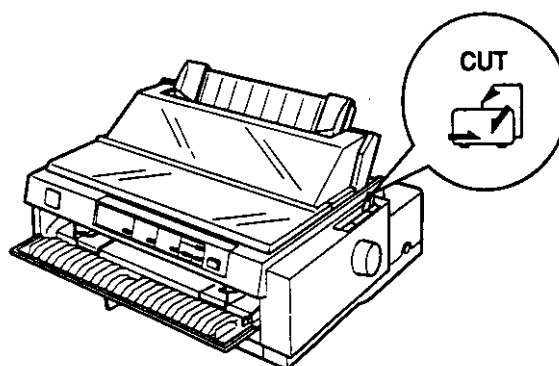
2. If the front paper guide is closed, open it by pulling the tab at the center of the guide. Slide the left edge guide until it locks in place next to the arrow on the paper guide. Next adjust the right edge guide to match the width of your paper.



3

2-11nn.eps

3. Set the paper release lever to the single-sheet position. Also set the paper thickness lever (located under the printer cover) to the proper position for your paper's thickness. (See the table on page 3-3.)



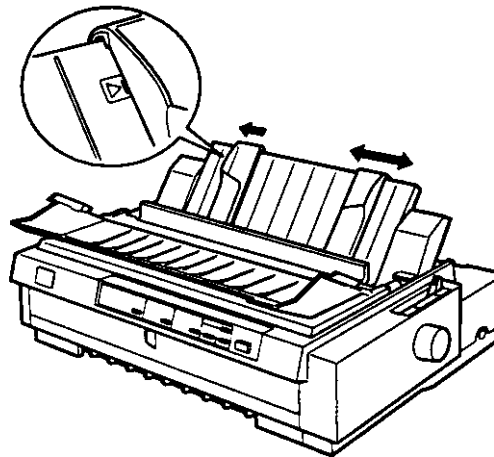
2-10a.eps

4. Close the paper guide cover.
5. Press the Operate button to turn on the printer, if necessary.

### ***Loading Single Sheets in the Top Paper Slot***

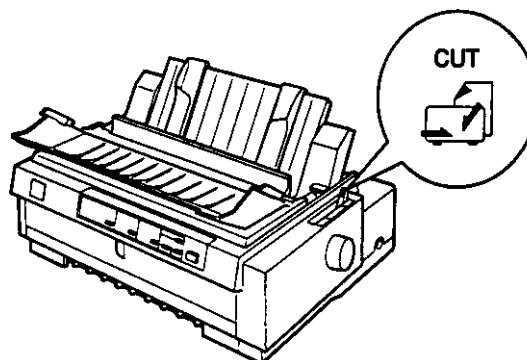
To load paper in the top slot, follow these steps:

1. Make sure the paper guide is installed properly. If not, attach it as described on page 1-12.
2. Open the paper guide cover. Slide the left edge guide until it locks in place next to the arrow on the paper guide. Next adjust the right edge guide to match the width of your paper.



2-7n.eps

3. Set the paper release lever to the single-sheet position. Also set the paper thickness lever (located under the printer cover) to the proper position for your paper's thickness. (See the table on page 3-3.)



2-6.eps

## Chapter 4

### **Using the Printer Software**

|                                                           |      |
|-----------------------------------------------------------|------|
| About Your Printer Software .....                         | 4-2  |
| Using the Printer Driver With Windows 95 or 98 .....      | 4-3  |
| Accessing the printer driver from Windows applications .. | 4-3  |
| Accessing the printer driver from the Start menu .....    | 4-5  |
| Printer driver settings overview .....                    | 4-6  |
| Using the Printer Driver With Windows 3.1 .....           | 4-10 |
| Accessing the printer driver from Windows applications .. | 4-10 |
| Accessing the printer driver from the Control Panel ..... | 4-12 |
| Printer driver settings overview .....                    | 4-12 |
| Using the Printer Driver With Windows NT 4.0 .....        | 4-14 |
| Accessing the printer driver from Windows applications .. | 4-14 |
| Accessing the printer driver from the Start menu .....    | 4-16 |
| Printer driver settings overview .....                    | 4-16 |
| Using the Printer Driver With Windows NT 3.5x .....       | 4-19 |
| Accessing the printer driver from Windows applications .. | 4-19 |
| Accessing the printer driver from the Control Panel ..... | 4-21 |
| Printer driver settings overview .....                    | 4-22 |
| Using the EPSON Remote! Utility .....                     | 4-24 |
| Installing EPSON Remote! .....                            | 4-24 |
| Accessing EPSON Remote! .....                             | 4-24 |

7. Check the printer driver settings as described in Chapter 4, and change them if necessary. Then send a print job to the printer.

When the printer receives data, it prints the page and ejects it back onto the paper guide. To continue printing your document, remove the printed page and insert a new sheet of paper. If you need to eject a sheet, press the Load/Eject button.

If the first line on your page appears too high or low, you can fix this using the micro adjust feature. See "Adjusting the Top-of-Form Position" on page 2-38.

**Caution:**

*Never use the knob to adjust the top-of-form position or eject a sheet when the printer is on; this may damage the printer or cause it to lose the top-of-form position.*

### ***Loading Single Sheets in the Front Paper Slot***

To load paper in the front paper slot, follow these steps:

1. Make sure the paper guide is installed properly. If not, attach it as described on page 1-12.

## ***Using the Printer Driver With Windows 95 or 98***

You can access the printer driver from your Windows applications or from the Start menu. When you access the printer driver from a Windows application, any settings you make apply only to the application you are using. See "Accessing the printer driver from Windows applications" below. When you access the printer driver from the Start menu, the printer driver settings you make apply to all your applications. See "Accessing the printer driver from the Start menu" on page 4-5. To check and change printer driver settings, see "Printer driver settings overview" on page 4-6.

4

**Note:**

*While many Windows applications override the settings made with the printer driver, some do not, so you must verify that the printer driver settings match your requirements.*

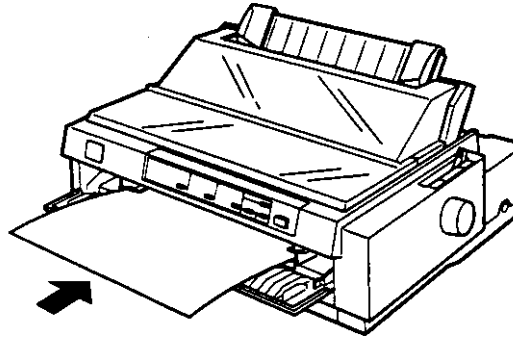
### ***Accessing the printer driver from Windows applications***

To access the printer driver from a Windows application, follow the steps below.

**Note:**

*The steps below provide general guidelines on accessing the printer driver. How you access the printer driver may differ depending on your application. See your application manual for details.*

6. Insert a sheet of paper, printable side up, between the edge guides until it meets resistance. The printer feeds the paper automatically and is ready to print.



2-12.eps

**Note:**

*The printer cannot print when the printer cover is open.*

7. You may need to check and change the printer driver settings as described in Chapter 4. Then send a print job to the printer.

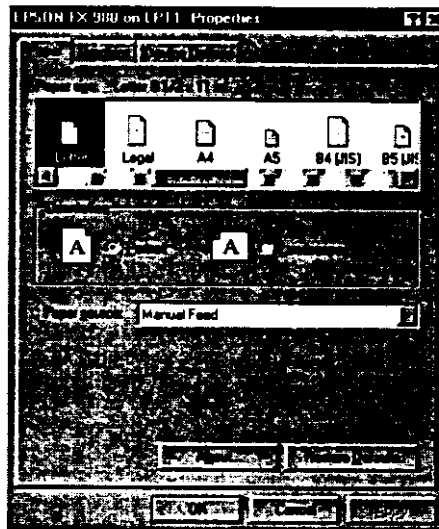
When the printer receives data, it prints the page and ejects it onto the paper guide on top of the printer. To continue printing your document, remove the printed page and insert a new sheet of paper in the front paper guide. If you need to eject a sheet, press the Load/Eject button.

If the first line on your page appears too high or low, you can fix this using the micro adjust feature. See "Adjusting the Top-of-Form Position" on page 2-38.

**Caution:**

*Never use the knob to adjust the top-of-form position or eject a sheet when the printer is on; this may damage the printer or cause it to lose the top-of-form position.*

2. Make sure that your printer is selected and then click Printer, Setup, Properties, or Options. (You may need to click a combination of these buttons.) The Properties window appears, and you see the Paper, Graphics, and Device Option menus. These menus contain the printer driver settings.



4

3. To view a menu, click the corresponding tab at the top of the window. See "Printer driver settings overview" on the next page for detailed information about the settings.

### ***Accessing the printer driver from the Start menu***

To access the printer driver from the Start menu, follow these steps:

1. Click the Start button, and then point to Settings.
2. Click Printers.

---

## About Your Printer Software

The EPSON printer software that comes with your printer includes the printer driver software, the EPSON Remote! utility, and the EPSON Status Monitor 2 utility for Windows 95/98.

As described in Chapter 1, a printer driver is software that allows your computer to control the printer. You need to install the printer driver so your Windows software applications can take full advantage of the printer's capabilities.

**Note:**

*Before proceeding, make sure you have installed the printer driver on your PC as described in Chapter 1.*

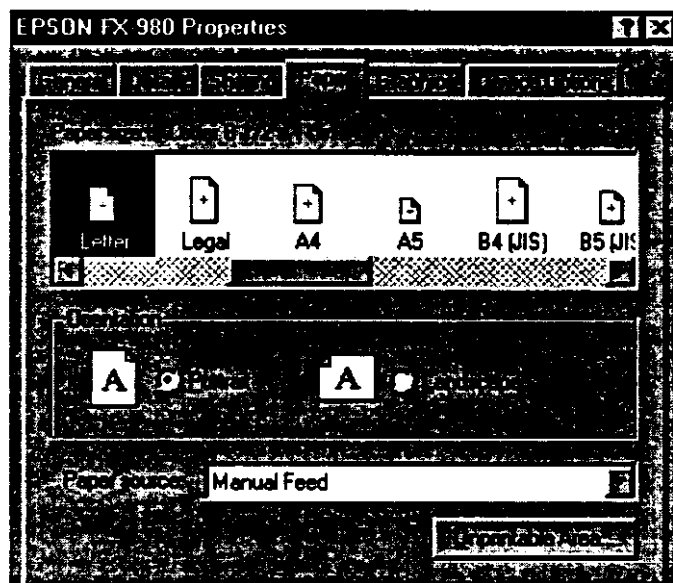
EPSON Remote! is a DOS-based printer setup utility that allows you to easily change the printer's default settings from the computer screen. To use the EPSON Remote! utility with DOS, see page 4-24.

The EPSON Status Monitor 2 utility program is available for Windows 95 and 98. It allows you to monitor the status of your printer, alerts you when errors occur, and provides you with troubleshooting tips. To install and use the Status Monitor, see Chapter 6, "Using EPSON Status Monitor 2".

To use the printer driver, see the appropriate page below, depending on your Windows version.

|                      |      |
|----------------------|------|
| Windows 95, 98.....  | 4-3  |
| Windows 3.1.....     | 4-10 |
| Windows NT 4.0.....  | 4-14 |
| Windows NT 3.5x..... | 4-19 |

### Paper menu



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4

- ☐ Paper size      Select the size of the paper you want to use. If you don't see your paper size, use the scroll bar to scroll through the list. If your paper size is not included in the list, click Custom and enter the paper size in the dialog box that appears.
- ☐ Orientation      Select Portrait or Landscape.
- ☐ Paper source      Click the paper source you want to use.

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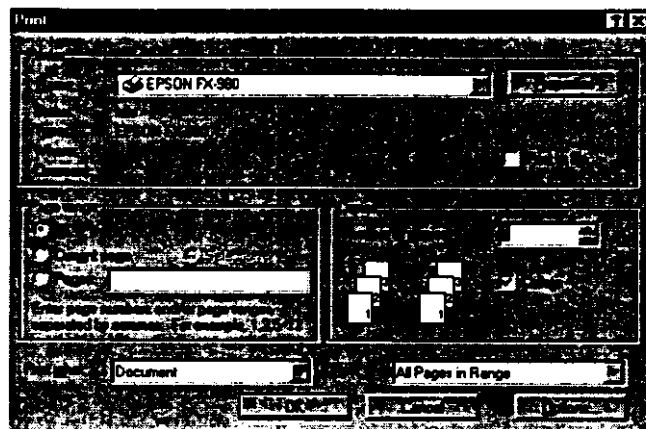
A5 size  
11/30/98

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Pass 0

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<Kimura>  
<Editor Name>

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1. Select Print Setup or Print from the File menu of your application software. The Print or Print Setup dialog box appears.



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<Kimura> \_\_\_\_\_  
<Editor Name> \_\_\_\_\_

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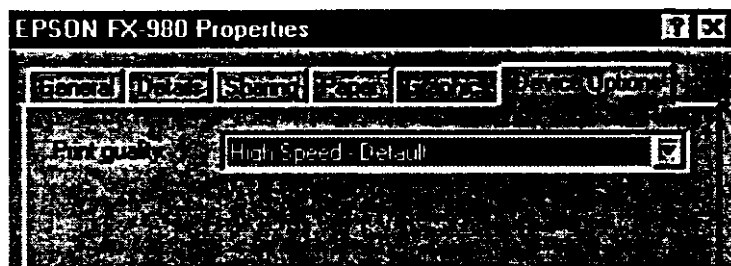
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## Device Options



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### ☐ Print quality

Select a print quality option from the Print quality list. Selecting a high quality option produces more detailed printouts at a slower printing speed.

Once you've checked your printer driver settings and changed them if necessary, you are ready to print with continuous paper as described in Chapter 2, or with single sheets as described in Chapter 3.

Options.tif

3. Right-click your printer icon, and click Properties. The screen displays the Properties window, which contains the Paper, Graphics, and Device Options menus. These menus display the printer driver settings.
4. To view a menu, click the corresponding tab at the top of the window. See the next section for detailed information about the printer driver settings.

95paper1.tif

### ***Printer driver settings overview***

Your printer driver has three menus: Paper, Graphics, and Device Options. The printer driver settings on each of these menus are described below. To open the menus, see the previous sections on accessing the printer driver.

When you finish making your printer driver settings, click OK to apply the settings, or click Restore Defaults to return the settings to their default values.

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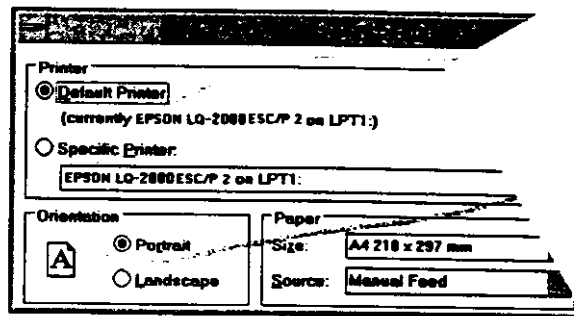
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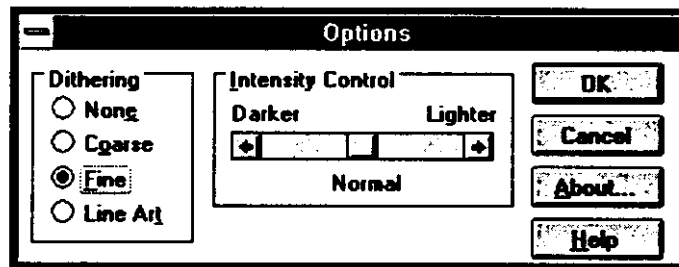
R

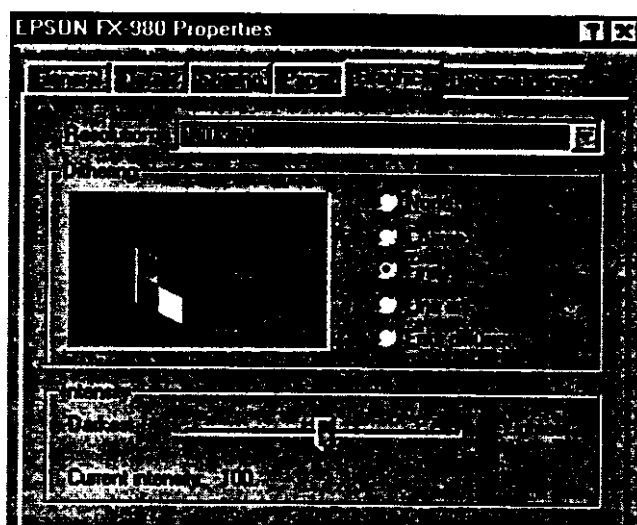
1. Select Print Setup or Print from the File menu of your application software. The Print or Print Setup dialog box appears. See "Printer driver settings overview" on the next section for detailed information about the settings in this dialog box.



4

2. Make sure that your printer is selected and then click Printer, Setup, or Options. (You may need to click a combination of these buttons.) The Options dialog box appears. See next section for detailed information about the settings in this dialog box.



*Graphics menu*☐ Resolution

Click the printing resolution you want. The higher the resolution you select, the more detailed your printout will be; however, increasing the resolution slows printing.

☐ Dithering

You can leave this option set to Fine, which is the default setting, or select another dithering pattern depending on the kind of printout you want. The display to the left of the dithering options shows the effect of your selection.

☐ Intensity

Move the slider to make your printout lighter or darker.

☐ Paper Size

Select the size of the paper you want to use. If you don't see your paper size, use the scroll bar to scroll through the list. If your paper size is not included in the list, click User Defined Size and enter the paper size in the dialog box that appears.

☐ Paper Source

Click the paper source you want to use.

*Options dialog box*

☐ Dithering

You can leave this option set to Fine, which is the default setting, or select another dithering pattern depending on the kind of printout you want.

☐ Intensity Control

Move the slider to make your printout lighter or darker.

☐ Print quality

Select a print quality option from the Print quality list. Selecting a high quality option produces more detailed printouts at a slower printing speed.

Once you've checked your printer driver settings and changed them if necessary, you are ready to print with continuous paper as described in Chapter 2, or with single sheets as described in Chapter 3.

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## ***Using the Printer Driver With Windows 3.1***

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You can access the printer driver from your Windows applications or from the Control Panel. When you access the printer driver from a Windows application, any settings you make apply only to the application you are using. See "Accessing the printer driver from Windows applications," below. When you access the printer driver from the Control Panel, the printer driver settings you make apply to all your applications. See "Accessing the printer driver from the Control Panel" on page 4-12. To check and change printer driver settings, see "Printer driver settings overview" on page 4-12.

**Note:**

*While many Windows applications override the settings made with the printer driver, some do not, so you must verify that the printer driver settings match your requirements.*

---

### ***Accessing the printer driver from Windows applications***

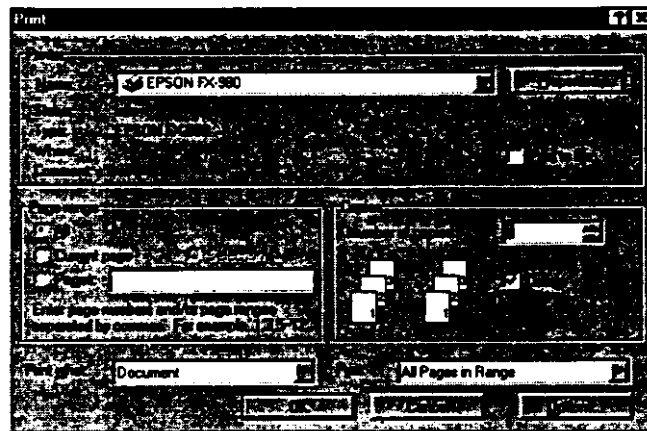
---

To access the printer driver from a Windows application, follow the steps below.

**Note:**

*The steps below provide general guidelines on accessing the printer driver. How you access the printer driver may differ depending on your application. See your application manual for details.*

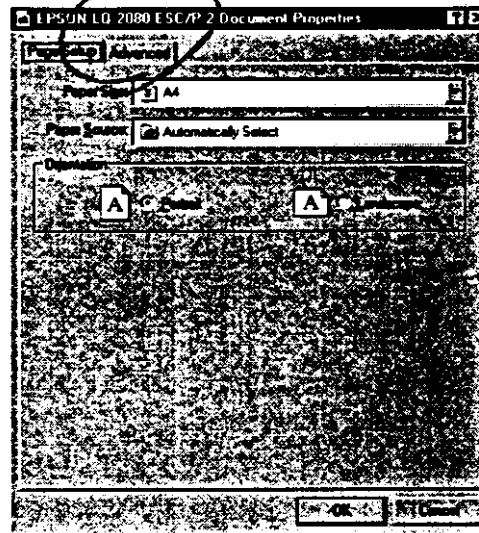
1. Select Print Setup or Print from the File menu of your application software. The Print or Print Setup dialog box appears.



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2. Make sure that your printer is selected and then click Printer, Setup, Properties, or Options. (You may need to click a combination of these buttons.) The Document Properties window appears, and you see the Page Setup and Advanced menus. These menus contain the printer driver settings.



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### ***Accessing the printer driver from the Control Panel***

To access the printer driver from the Control Panel, follow these steps:

1. In the Main window, double-click the Control Panel icon.
2. Double-click the Printers icon. The Printers dialog box appears.
3. Make sure your printer is highlighted, then click Setup. The Print Setup dialog box appears. To access more settings, you may need to click Options. See the next section for detailed information about the printer driver settings.

### ***Printer driver settings overview***

The printer driver settings are described below. To access the printer driver settings, see the previous sections on accessing the printer driver.

When you finish making your printer driver settings, click OK to apply the settings, or click Cancel to cancel your changes.

#### ***Print or Print Setup dialog box***

- |                                      |                                                                                                                                                                                                                                  |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Resolution  | Click the printing resolution you want. The higher the resolution you select, the more detailed your printout will be; however, increasing the resolution slows printing. This setting is available only from the Control Panel. |
| <input type="checkbox"/> Orientation | Select Portrait or Landscape. The diagram on the screen changes according to the orientation you select.                                                                                                                         |

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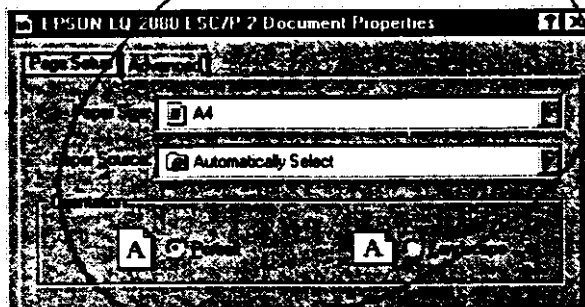
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### Page Setup menu

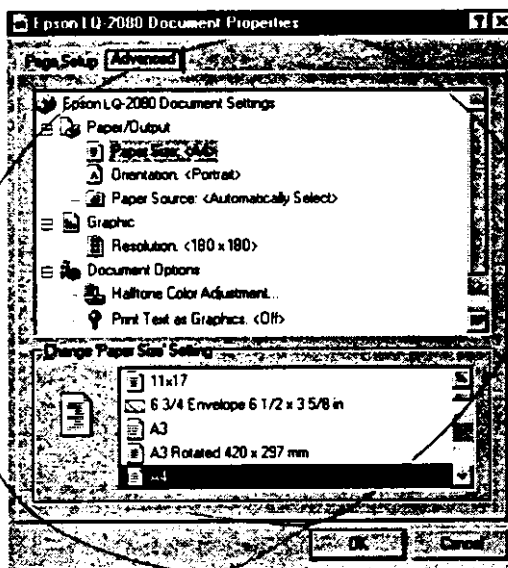


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- ☐ Paper Size Select the size of the paper you want to use from the Paper Size list.
- ☐ Paper Source Select the paper source you want to use from the Paper Source list.
- ☐ Orientation Select Portrait or Landscape.

### Advanced menu



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## ***Using the Printer Driver With Windows NT 4.0***

You can access the printer driver from your Windows applications or from the Start menu. When you access the printer driver from a Windows application, any settings you make apply only to the application you are using. See "Accessing the printer driver from Windows applications" below. When you access the printer driver from the Start menu, the printer driver settings you make apply to all your applications. See "Accessing the printer driver from the Start menu" on page 4-16. To check and change printer driver settings, see "Printer driver settings overview" on page 4-16.

**Note:**

*While many Windows applications override the settings made with the printer driver, some do not, so you must verify that the printer driver settings match your requirements.*

---

### ***Accessing the printer driver from Windows applications***

To access the printer driver from a Windows application, follow the steps below.

**Note:**

*The steps below provide general guidelines on accessing the printer driver. How you access the printer driver may differ depending on your application. See your application manual for details.*

## ***Using the Printer Driver With Windows NT 3.5x***

You can access the printer driver from your Windows applications or from the Control Panel. When you access the printer driver from a Windows application, any settings you make apply only to the application you are using. See "Accessing the printer driver from Windows applications" below. When you access the printer driver from the Control Panel, the printer driver settings you make apply to all your applications. See "Accessing the printer driver from the Control Panel" on page 4-21. To check and change printer driver settings, see "Printer driver settings overview" on page 4-22.

**Note:**

*While many Windows applications override the settings made with the printer driver, some do not, so you must verify that the printer driver settings match your requirements.*

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### ***Accessing the printer driver from Windows applications***

To access the printer driver from a Windows application, follow the steps below.

**Note:**

*The steps below provide general guidelines on accessing the printer driver. How you access the printer driver may differ depending on your application. See your application manual for details.*

3. To view a menu, click the corresponding tab at the top of the window. See "Printer driver settings overview" below, for detailed information about the settings.

### ***Accessing the printer driver from the Start menu***

To access the printer driver from the Start menu, follow these steps:

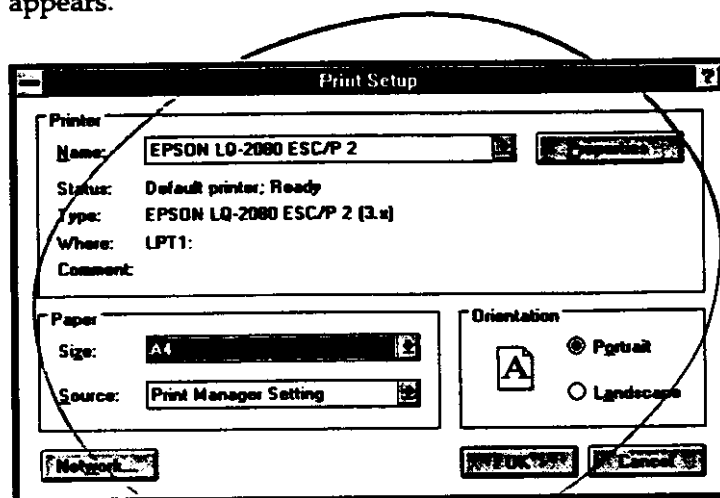
1. Click the Start button, and then point to Settings.
2. Click Printers.
3. Right-click your printer icon, and click Document Defaults. The screen displays the Default Document Properties window, which contains the Page Setup and Advanced menus. These menus display the printer driver settings.
4. To view a menu, click the corresponding tab at the top of the window. See the next section for detailed information about the printer driver settings.

### ***Printer driver settings overview***

Your printer driver has two menus: Page Setup and Advanced. The printer driver settings on each of these menus are described below. To open these menus, see the previous sections on accessing the printer driver.

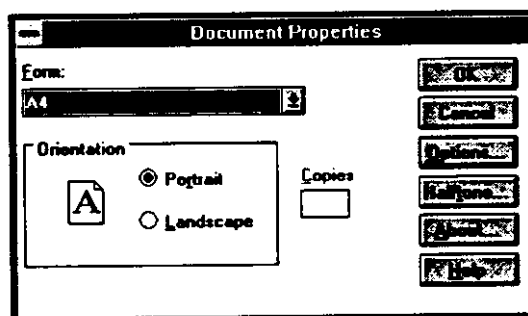
When you finish making your printer driver settings, click OK to apply the settings, or click Cancel to cancel your changes.

1. Select Print Setup or Print from the File menu of your application software. The Print or Print Setup dialog box appears.



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2. Make sure that your printer is selected and then click Printer, Setup, Properties, or Options. (You may need to click a combination of these buttons.) The screen displays the Document Properties dialog box, which contains the Form and Orientation printer driver settings. See "Printer driver settings overview" on page 4-22 for detailed information about these settings.



☐ Paper/Output

Check the Paper Size, Orientation, and Paper Source settings you made on the Page Setup menu and change them if necessary. Select the setting and then choose an option from the Change Setting list box.

☐ Graphic

Select Resolution and then choose the printing resolution from the Change Setting list box. The higher the resolution you select, the more detailed your printout will be; however, increasing the resolution slows printing.

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☐ Document Options

Double-click Halftone Color Adjustment to open the Halftone Color Adjustment dialog box. Click Print Quality to select a Print quality option. Click Print Text as Graphics or Metafile Spooling and select On or Off in the Change Setting list box.

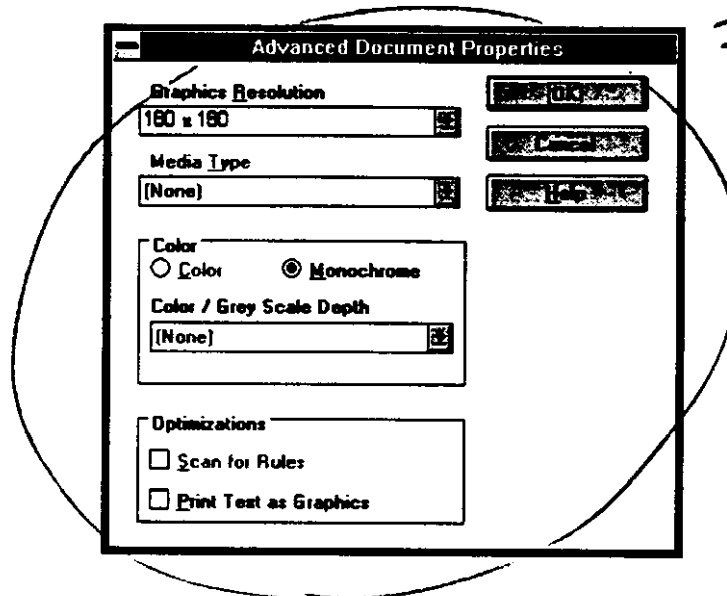
☐ Print quality

Select a print quality option from the Print quality list. Selecting a high quality option produces more detailed printouts at a slower printing speed.

Once you've checked your printer driver settings and changed them if necessary, you are ready to print with continuous paper as described in Chapter 2, or with single sheets as described in Chapter 3.

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3. Click Options (or a similar button) to view the Advanced Document Properties dialog box, which includes the Graphics Resolution, Color, and Optimizations printer driver settings. See page 4-22 for detailed information about these settings.



### **Accessing the printer driver from the Control Panel**

To access the printer driver from the Control Panel, follow these steps:

1. In the Main window, double-click the Print Manager icon. The Print Manager window opens.
2. Make sure your printer is highlighted, then click Printer and select Properties. The Printer Properties dialog box appears.
3. Click the Details button, then click Job Default. You see the Document Properties dialog box, which includes the Form and Orientation printer driver settings. See the next section for detailed information about these settings.

4. Click Options to open the Advanced Document Properties dialog box, which contains the Graphics Resolution, Color, and Optimizations printer driver settings. See the next section for detailed information about these settings.

### ***Printer driver settings overview***

Your printer driver has two dialog boxes: Document Properties and Advanced Document Properties. The printer driver settings in each of these dialog boxes are described below. To open these dialog boxes, see the previous sections on accessing the printer driver.

When you finish making your printer driver settings, click OK to apply the settings, or click Cancel to cancel your changes.

#### ***Document Properties dialog box***

☐ Form

Select the type of paper you want to use. If you don't see your paper type, select it from the Form list.

☐ Orientation

Select Portrait or Landscape. The diagram on the screen changes according to the orientation you select.

Click the Halftone button to set the brightness and contrast, input the RGB gamma, or make other settings. The Halftone Color Adjustment dialog box appears. For details, click Help in this dialog box.

*Advanced Document Properties dialog box*

☐ Graphics  
Resolution

Select a printing resolution option from the Graphics Resolution list. The higher the resolution you select, the more detailed your printout will be; however, increasing the resolution slows printing.

☐ Color

Only monochrome printing is available.

☐ Optimizations

Click a check box to turn the corresponding option on or off.

☐ Print quality

Select a print quality option from the Print quality list. Selecting a high quality option produces more detailed printouts at a slower printing speed.

Once you've checked your printer driver settings and changed them if necessary, you are ready to print with continuous paper as described in Chapter 2, or with single sheets as described in Chapter 3.

## ***Using the EPSON Remote! Utility***

The EPSON Remote! utility allows you to easily change the printer's default settings from your computer's DOS prompt.

### ***Installing EPSON Remote!***

Follow the steps below to install EPSON Remote!

1. Insert the printer software CD-ROM in a disk drive.
2. At the DOS prompt, type D:\SETUP. (If you inserted the disk in a drive other than drive D, substitute the appropriate letter.) Then press Enter.
3. Select your printer's name in the Printer Model window and press Enter. C:\EPUTIL appears as the default directory.
4. Press Enter again. The EPSON Remote! utility is copied to the C:\EPUTIL directory.

### ***Accessing EPSON Remote!***

To access EPSON Remote!, type C:\PRNSET at the DOS prompt and press Enter. Then follow the on-screen instructions to use this utility. You can also access EPSON Remote! by typing C:\PANEL at the DOS prompt and pressing Enter. The PRNSET and PANEL access methods differ slightly. The PANEL method opens a condensed version of EPSON Remote! that only provides the most often used settings.

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## Chapter 5

### ***Changing Printer Settings From the Printer's Control Panel***

|                                             |     |
|---------------------------------------------|-----|
| Selecting a Built-In Font .....             | 5-2 |
| About Your Printer's Default Settings ..... | 5-3 |
| Changing default settings .....             | 5-8 |

5

## Selecting a Built-In Font

Your printer comes with the three built-in fonts shown in the table below. You can select the font using the buttons on the printer's control panel as described below.

**Note:**

*Settings you make in your application programs usually override settings you make from the printer's control panel. For best results, use your application to select a font and condensed mode.*

| Font       | Sample |
|------------|--------|
| Draft      |        |
| Roman      |        |
| Sans Serif |        |

Follow these steps to select a built-in font using the buttons from the control panel:

1. Make sure that the printer is not printing. If it is, press the Pause button to stop printing.
2. To select a font, press the Font button until the two Font lights indicate the font you want as shown below.

| Font lights | Font       |
|-------------|------------|
| ■ □         | Draft      |
| □ ■         | Roman      |
| □ □         | Sans Serif |

□ = On, ■ = Off

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### *Input buffer*

The input buffer stores up to 64KB of data sent from your computer, freeing your computer for other tasks while the printer prints. When the buffer is Off, the buffer cannot store data, so the computer must wait for the printer to print each character before it sends the next character.

### *Buzzer (beeper)*

The printer beeps when an error occurs. (See page 7-2 for more information on printer errors.) If you do not want the printer to beep when an error occurs, turn this setting off.

### *Auto CR (carriage return)*

This setting is available only in IBM 2380 Plus emulation mode. When auto carriage return is on, each line feed (LF) code or ESC J code is accompanied by a carriage return code. So the printer moves the next printing position to the left margin; This moves the print position to the beginning of the next line. If the printer adds an extra line after every carriage return, select Off.

5

### *Baud rate*

When you use the serial interface, you need to set the baud rate or serial data transfer speed in bits per second (bps). The printer communicates with your computer at the specified rate.

### *Parity*

Set the parity (a method of error detection) for serial data transfer if you are using the serial interface.

Check your computer manual or application program for the correct parity setting. Your computer and printer should always be set to the same parity setting.

| Settings                                     | Options                                                                                                                |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| International character set for Italic table | Italic U.S.A., Italic France, Italic Germany, Italic U.K., Italic Denmark1, Italic Sweden, Italic Italy, Italic Spain1 |
| D slash                                      | On, Off                                                                                                                |
| Input buffer                                 | On, Off                                                                                                                |
| Buzzer                                       | On, Off                                                                                                                |
| Auto CR (IBM 2380 Plus)**                    | On, Off                                                                                                                |
| Baud rate                                    | 19200BPS, 9600BPS, 4800BPS, 2400BPS, 1200BPS, 600BPS, 300BPS                                                           |
| Parity                                       | None, Odd, Even, Ignore                                                                                                |
| IBM character table**                        | Table2, Table1                                                                                                         |

\* The options available vary depending on the country of purchase.

\*\*These settings take effect only when IBM 2380 Plus emulation is selected.

#### *Page length for front tractor*

This setting allows you to set the page length (in inches) for continuous paper loaded on the front push tractor.

#### *Page length for rear tractor*

This setting allows you to set the page length (in inches) for continuous paper loaded on the rear push tractor.

#### *Skip over perforation*

This feature is available only when continuous paper is selected. When you select On, the printer provides a one-inch (25.4 mm) margin between the last line printed on one page and the first line printed on the next page. Because the program margin settings in most applications override margin settings made from the control panel, you should use this setting only if you cannot set your top and bottom margins using your application.

4. Press the Pitch button until the Font lights indicate the language you want, as described in the language selection instructions.
5. Press the Font button to print the default-setting mode instructions (two pages) in the language you selected.

The printed instructions list the default settings you can change, describe how to change them, and show you how the control panel lights help you make settings. Follow these instructions to change the default settings using the buttons on the printer's control panel.

**Note:**

*The arrows on the instruction sheets indicate the printer's current settings.*

**5**

6. When the main menu is selected, you can change the settings by pressing the Pitch button.
7. While the main menu is selected, you can change from the main menu to the sub menu by pressing the Tear off/Bin button. You can see and change the current settings from the sub menu.
8. When you finish making settings, press the Tear off/Bin button to set the default-setting mode, and return to the main menu. Any settings you have made remain in effect until you change them again.

**Note:**

*You may exit the default-setting mode by turning off the printer when the printer is not printing.*

If your printer is connected to only one computer, select Parallel, Serial, or Optional for the interface mode, depending on the interface you use. If your printer is connected to more than one computer, select Auto (automatic) to allow the printer to automatically switch between interfaces depending on which one is receiving data.

#### *Auto I/F (interface) wait time*

This setting takes effect only if an optional interface is installed and the auto interface mode is selected. This setting determines how long the printer waits when it no longer receives data from an interface before it checks whether a print job is being sent through the other interface. You can specify 10 seconds or 30 seconds for the auto interface wait time.

#### *Software*

When you select ESC/P, the printer operates in the EPSON ESC/P mode. When you select IBM 2380 Plus, the printer emulates an IBM printer.

#### *Character table*

You can select among 13 standard character tables as well as tables for 21 other countries. See Appendix C for character samples.

#### *International character set for Italic table*

You can select among several international character sets for the Italic character table. Each character set contains eight characters that vary depending on the country or language, so you can customize the Italic table to suit your printing needs. See Appendix C for character samples.

#### *0 slash*

The zero character has a slash (0) when this feature is on. It has no slash (0) when this feature is off. The slash allows you to easily distinguish between the uppercase letter "O" and a zero.

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## *Chapter 6*

### ***Using EPSON Status Monitor 2***

|                                                |      |
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| About the EPSON Status Monitor 2 Utility ..... | 6-2  |
| Installing EPSON Status Monitor 2. ....        | 6-3  |
| Accessing EPSON Status Monitor 2 .....         | 6-5  |
| Checking Printer Status Information .....      | 6-5  |
| Using the EPSON Status Monitor 2 window .....  | 6-5  |
| Using the Printer Status window .....          | 6-11 |
| Making Monitoring Preference Settings .....    | 6-12 |
| Turning on background monitoring .....         | 6-13 |
| Background monitoring icon .....               | 6-14 |

6

### IBM character table

This setting is available only in IBM 2380 Plus emulation mode. When you select Table 1, hex codes 00H to 1FH and 80H to 9FH of the character tables are used for the control codes. When you select Table 2, hex codes 00H to 1FH are used for the control codes and 80H to 9FH are used for characters. See Appendix C for character samples.

### Changing default settings

Follow the steps below to enter the default-setting mode and change the printer's default settings.

**Note:**

- ☐ *To print the language selection and default-setting mode instructions, you need three sheets of A4 or letter size single-sheet paper, or three pages of continuous paper that is at least 279 mm (11 inches) long and 210 mm (8.27 inches) wide. See Chapter 2 for instructions on loading continuous paper, or Chapter 3 for instructions on loading single sheets.*
  - ☐ *If you use single sheets, you need to load a new sheet of paper each time the printer ejects a printed sheet.*
1. Make sure the printer is turned on.



**Caution:**

*Whenever you turn off the printer, wait at least five seconds before turning it back on; otherwise you may damage the printer.*

2. Hold down the Pitch button to select the menu. The printer enters the default-setting mode.
3. When the language menu is selected, you can change the language to be used and print the language selection instructions (one page).

## ***Installing EPSON Status Monitor 2***

**Note:**

*If you installed EPSON Status Monitor 2 when you installed the printer software, you do not need to install it again.*

To install the Status Monitor, follow these steps:

1. Make sure Windows is running. Insert the printer software CD in the CD-ROM drive. (If you are using printer software floppy disks insert disk 1 in a disk drive. Then double-click the drive icon.
2. If a dialog box appears, click Quit.
3. Click Start, and select Run.
4. Type D:\STM2\SETUP.
5. Click OK and then follow the instructions on the screen.

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**Note:**

*If the dialog box below appears, and if your printer is connected directly to your computer, select Monitor local printers. If it is connected through a network, select Monitor Windows shared printers. Then click Next.*

After you install EPSON Status Monitor 2 and restart your computer, the Status Monitor starts automatically and adds a printer-shaped background monitoring icon to the taskbar at the bottom of your computer screen. This icon appears only when the Status Monitor is active.

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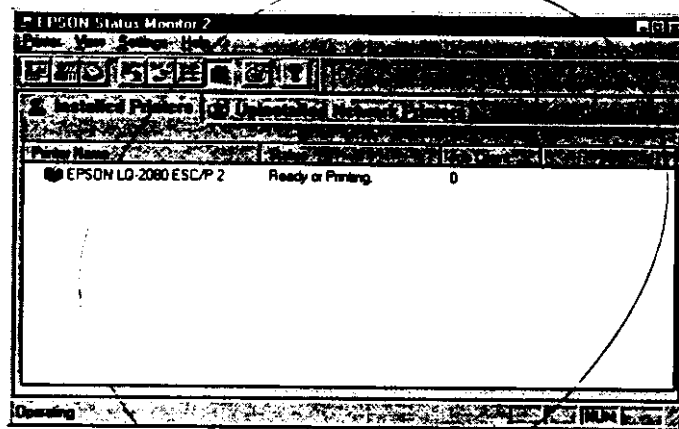
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## Accessing EPSON Status Monitor 2

To open the EPSON Status Monitor 2 window shown below, double-click the printer-shaped background monitoring icon on the taskbar at the bottom of your computer screen. You can also open this window from Start. Click Start, point to Programs and EPSON, then click EPSON Status Monitor 2.



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## Checking Printer Status Information

This section summarizes the EPSON Status Monitor 2 window's main features and describe how to use the Status Monitor to get general and detailed printer status information.

## Using the EPSON Status Monitor 2 window

The main features of the EPSON Status Monitor 2 window are described below.

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## About the EPSON Status Monitor 2 Utility

The EPSON Status Monitor 2 utility comes with your printer but is available only for use with Windows 98/95. It allows you to monitor your printer's status, alerts you when printer errors occur, and provides troubleshooting instructions when needed.

You can install the EPSON Status Monitor 2 utility when you install the printer driver, or you can install it at a different time as described on the next page.

**Note:**

*To monitor an FX-980 printer on a network, you must install an optional Ethernet interface card (C82362\*, C82363\* or C82364\*) in your printer and use the Status Monitor utility that comes with this card. See the manual that comes with the interface card for instructions on using the Status Monitor in a network environment.*

Before using the Status Monitor, be sure to read the README file in the EPSON folder on your hard drive. This file contains the latest information on the Status Monitor.

The Status column displays brief messages describing the current status of each printer. The Job Count column displays the number of jobs waiting to print on each printer.

**Note:**

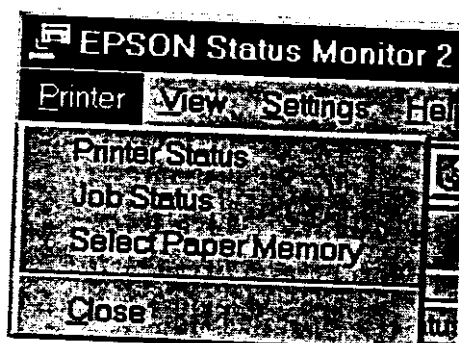
You can rearrange order of the printers in the list by clicking the Printer Name, Status, or Job Count title bar.

**Printer menu**

This menu allows you to get detailed information on printer and job status for any printer you select in the Installed Printers list.

To get detailed information on the status of each printer in the Installed Printers list, select a printer from the list, then select from the Printer menu options described below.

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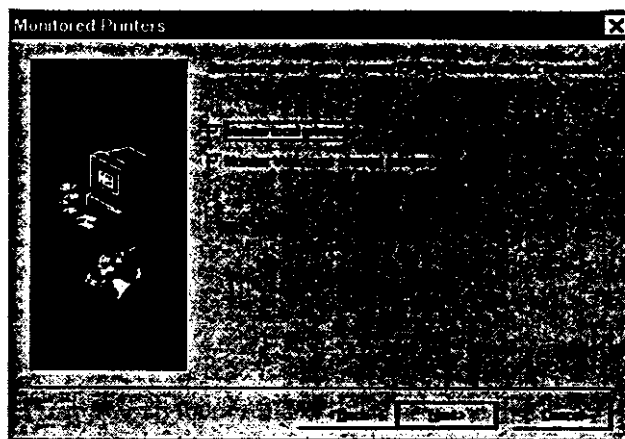


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- ☐ **Printer Status** Opens the Printer Status window, which provides detailed information on the selected printer's status. To use the Printer Status window, see page 6-11.
- ☐ **Job Status** Provides information about the jobs waiting to print.
- ☐ **Select Paper Memory** Not available.
- ☐ **Close** Closes the EPSON Status Monitor 2 window.

**Note:**

*If the dialog box below appears, and if your printer is connected directly to your computer, select Monitor local printers. If it is connected through a network, select Monitor Windows shared printers. Then click Next.*

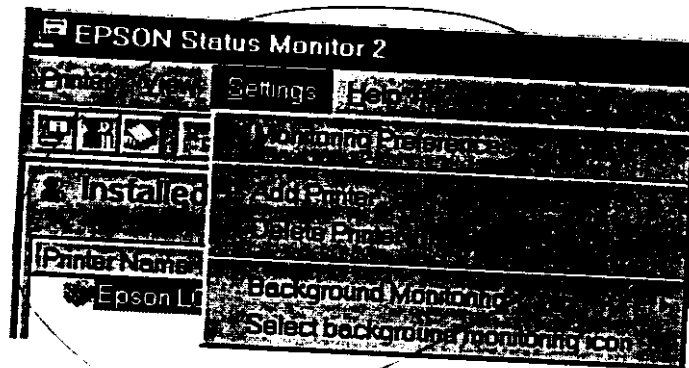


Status.tif

After you install EPSON Status Monitor 2 and restart your computer, the Status Monitor starts automatically and adds a printer-shaped background monitoring icon to the taskbar at the bottom of your computer screen. This icon appears only when the Status Monitor is active.

## Settings menu

This menu allows you to control the Status Monitor's background monitoring feature as well as add and delete printers from the Installed Printers list.



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### ☐ Monitoring Preferences

Opens the Monitoring Preferences dialog box, where you can adjust the monitoring interval and make background monitoring settings for the selected printer. For more information, see "Turning on background monitoring" on page 6-13.

### ☐ Add Printer/ Delete Printer

Allows you to select which the printers you want to monitor by adding or deleting printers in the Installed Printers list.

Printer.tif

You can access many Status Monitor menu commands directly by clicking the buttons on the toolbar. When you point to a toolbar button, the corresponding menu command appears briefly on your screen, and you see an explanation of the button's function appears in the status bar at the bottom of the EPSON Status Monitor 2 window.

### *Installed Printers list*

This list displays information about the EPSON printers connected directly to your computer. If you select **List** from the **View** menu, the list displays only the printer names and icons. If you select **Details**, the list displays the information below.

#### ☐ Printer name

When you install the Status Monitor, it automatically adds to this list the names and icons of the EPSON printers connected to your computer. To add or delete a printer from the list, select **Add Printer** or **Delete Printer** from the **Settings** menu. To save computer memory, delete any printers you do not need to monitor. (Doing so does not remove the printer driver from your computer.)

The appearance of the icon next to each printer name changes depending on the printer's status, as described in the table below. See online help for more information.

| Icon appearance | Description                                                                                                |
|-----------------|------------------------------------------------------------------------------------------------------------|
| Green           | The printer is ready to print, or is currently printing.                                                   |
| Yellow          | The printer needs routine maintenance.                                                                     |
| Red             | A printer error has occurred and your printer cannot print. See Chapter 7 for troubleshooting information. |
| Dimmed          | There is a communication problem between the printer and the Status Monitor.                               |

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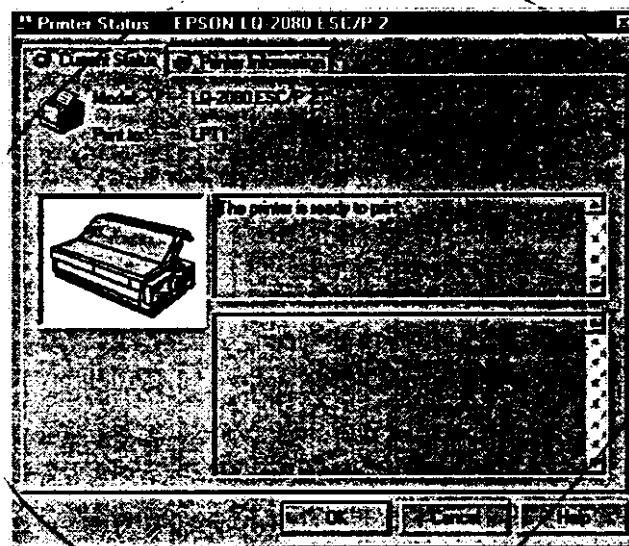
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## Using the Printer Status window

You can open the Printer Status window shown below to see detailed information on the status of a printer. To open the Printer Status window, double-click a printer in the Installed Printers list, or select a printer and then choose Printer Status from the Printer menu of the EPSON Status Monitor 2 window. You can also access the Printer Status window by clicking the Details button in the Status Alert dialog box. For information on the Status Alert dialog box, see "Making Monitoring Preference Settings" on page 6-12.



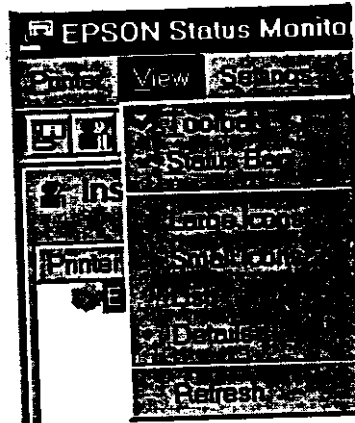
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The Printer Status window contains two menus that provide detailed information. To open the menus, click the tabs at the top of the Printer Status window.

### View menu

This menu let you control the appearance and content of the EPSON Status Monitor 2 window and the Installed Printers list.



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- ☐ Toolbar/Status Bar

Shows or hides the toolbar and status bar in the EPSON Status Monitor 2 window.

- ☐ Large Icons/Small Icons

Changes the size of the printer icons in the Installed Printers list.

- ☐ List

Displays only the printer names and icons in the Installed Printers list.

- ☐ Details

Displays the printer name and icon, status, and number of jobs waiting to print in the Installed Printers list.

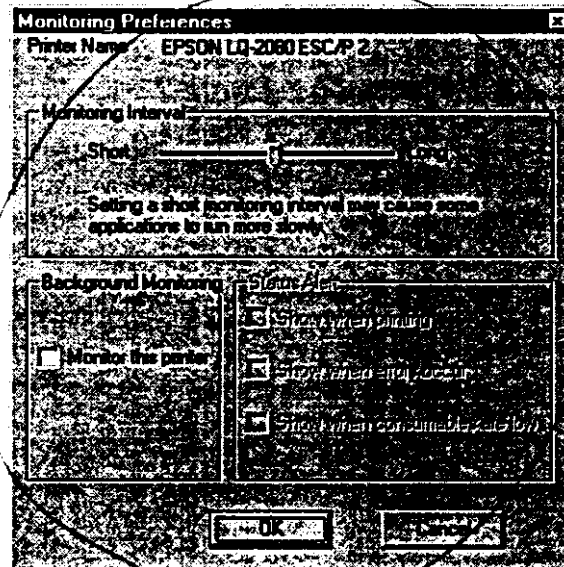
- ☐ Refresh

Updates the status information shown in the Installed Printers list.

## Turning on background monitoring

Follow the steps below to activate background monitoring and set other monitor preferences for each printer you want to monitor.

1. Make sure the Status Monitor is active. (It is active if a printer-shaped icon appears on the taskbar at the bottom of your computer screen.) If the icon is not on the taskbar, access EPSON Status Monitor 2 from the Start menu as described on page 6-5. Then point to Background Monitoring on the Settings menu and click Monitor from restart or Monitor now.
2. Select the printer you want to monitor from the Installed Printers list, and then click Monitoring Preferences on the Settings menu. The dialog box below appears.



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*Note:*

- ☐ Background Monitoring

Activates or deactivates the Status Monitor. (A printer-shaped icon appears on the taskbar at the bottom of your computer screen.)

**Note:**

*The Background Monitoring and Status Alert settings in the Monitoring Preferences dialog box are not available while the Status Monitor is inactive.*

- ☐ Select background monitoring icon

Changes the appearance of the icon that is displayed on the taskbar when background monitoring is active.

*Help menu*

Click Help in the EPSON Status Monitor 2 window to view online help. Click About to view the Status Monitor's version number and copyright information.

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## *Appendix B*

### ***Cleaning and Transporting the Printer***

Cleaning the Printer ..... B-2

Transporting the Printer ..... B-3

**B**

### *Current Status menu*

The printer illustration and message boxes on this menu give you detailed printer status information. The appearance of the printer illustration changes to reflect the current printer status, described in the upper message box. If a printer error occurs, the lower message box displays troubleshooting tips.

### *Printer Information menu*

If your printer is connected to your computer through a network, this menu provides information on network connections and other printer resources.

## ***Making Monitoring Preference Settings***

The Monitoring Preferences dialog box allows you to activate and deactivate background monitoring feature and specify the monitoring interval (the length of time between status information updates) for the selected printer. To open the Monitoring Preferences dialog box, see "Turning on background monitoring" on the next page.

When you turn on background monitoring, the Status Monitor updates the status information for the selected printer "in the background" whenever you are using your computer. A Status Alert dialog box is displayed in the lower right corner of your computer screen. It provides printer status short messages and a Details button that allows you to open the Printer Status window.

## Transporting the Printer

If you need to transport your printer some distance, carefully repack it using the original box and packing materials, as described below.

**Warning:**

*You will need to move the print head by hand to remove the ribbon cartridge. If you have just used the printer, the print head may be hot; let it cool for a few minutes before touching it.*

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1. Turn off the printer.
2. Unplug the power cord from the electrical outlet; then disconnect the interface cable from the printer.
3. Remove any paper loaded in the printer, and remove the paper guide. Pull out the paper separator from the paper guide.
4. If a pull tractor is installed, remove it as described on page 2-31. If any options are installed, remove them and pack them in their original boxes.
5. Make sure that the print head is not hot. Then remove the ribbon cartridge as described in Chapter 1.
6. Remove the paper tension unit as described on page 2-21. Attach the protective locking clips on both sides of the printer roller. Then install the paper tension unit as described on page 2-32.
7. Make sure the tractor that comes with your printer is installed in the front push position. See page 2-11 for instructions.
8. Replace the transportation screw using the screwdriver that came with the printer.
9. Repack the printer, ribbon cartridge, paper guide, paper separator, and power cord in the original packing materials and place them in the printer's original box.

*The Background Monitoring and Status Alert settings in the Monitoring Preferences dialog box are not available while the Status Monitor is inactive.*

3. Use the slider to adjust the monitoring interval, if necessary.

**Note:**

*Setting a short monitoring interval may cause some applications to run more slowly.*

4. Click Monitor this printer to activate background monitoring for the selected printer and view the Status Alert options.
5. Click the Status Alert options to specify when you want the Status Alert dialog box to appear.
6. Click OK to save your settings and close the Monitoring Preferences dialog box.

### ***Background monitoring icon***

A printer-shaped background monitoring icon appears on the taskbar when the Status Monitor is active. (To activate the Status Monitor, follow step 1 on page 6-13.)

Double-clicking the background monitoring icon opens the EPSON Status Monitor 2 window. Right-clicking this icon opens a pop-up menu where you can choose whether the Status Alert dialog box will appear in front of other windows on the desktop. This pop-up menu also allows you to deactivate the Status Monitor. When you deactivate the Status Monitor, the background monitoring icon disappears from the taskbar.

## Chapter 7

### **Troubleshooting**

|                                                      |      |
|------------------------------------------------------|------|
| Using the Error Indicators .....                     | 7-2  |
| Problems and Solutions .....                         | 7-4  |
| Power supply problems .....                          | 7-5  |
| Single-sheet paper loading or feeding problems ..... | 7-6  |
| Continuous paper loading or feeding problems .....   | 7-8  |
| Wrong top-of-form position .....                     | 7-9  |
| Wrong tear-off position .....                        | 7-10 |
| Printing or printout quality problems .....          | 7-11 |
| Clearing Paper Jams .....                            | 7-16 |
| Aligning Vertical Lines in Your Printout .....       | 7-17 |
| Printing a Self Test .....                           | 7-18 |
| Printing a Hex Dump .....                            | 7-19 |

## ***Cleaning the Printer***

To keep your printer operating at its best, you should clean it thoroughly several times a year. Follow these steps:

1. Make sure the printer is turned off. Then remove any paper loaded in the printer.
2. Remove the paper guide. If a pull tractor or an optional cut-sheet feeder is installed, remove it.
3. Use a soft brush to carefully brush away all dust and dirt from the outer case and paper guide.
4. If the outer case or paper guide is still dirty, clean it with a soft, clean cloth dampened with mild detergent dissolved in water. Keep the printer cover in place and lower the paper guide cover until it lies flat on the top of the printer to prevent water from getting inside the printer.

**Caution:**

- ☐ Never use alcohols or thinners to clean the printer; these chemicals can damage the printer components as well as the case.
- ☐ Be careful not to get water on the printer mechanism or electronic components.
- ☐ Do not use a hard or abrasive brush.
- ☐ Do not spray the inside of the printer with lubricants; unsuitable lubricants can damage the printer mechanism. Contact an EPSON dealer if you think lubrication is needed.

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| State of panel lights                                                | Beep pattern | Problem                                                                                                                                                                                                                                                     |
|----------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                      |              | Solution                                                                                                                                                                                                                                                    |
| <input type="checkbox"/> Paper Out<br><input type="checkbox"/> Pause | ...          | <b>Continuous paper is not fed to the standby position.</b><br>Tear off the printed document at the perforation; then press the Load/Eject button. The printer feeds the paper to the standby position. Press the Pause button to turn off the Pause light. |
|                                                                      | ...          | <b>A single sheet of paper is not fully ejected.</b><br>Press the Load/Eject button to eject the sheet. Then press the Pause button to turn off the Pause light, if necessary.                                                                              |
|                                                                      | ...          | <b>Paper is jammed in the printer.</b><br>Clear the paper jam as described on page 7-16.                                                                                                                                                                    |
| <input type="checkbox"/> Pause                                       | -            | <b>The print head is overheated.</b><br>Wait a few minutes; the printer resumes printing automatically once the print head cools.                                                                                                                           |
|                                                                      |              | <b>An unknown printer error has occurred.</b><br>Turn off the printer and leave it off for several minutes; then turn on the printer again. If the error recurs, contact your dealer.                                                                       |

☐ = on, ☐ = flashing

... = short series of beeps (three beeps), ..... = long series of beeps (five beeps)

**Note:**

The printer beeps once if you press a control panel button when the corresponding function is not available.

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Troubleshooting

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## Power supply problems

**The control panel lights come on briefly, but then go off and stay off.**

| Cause                                                                              | What to do                                                                                                                              |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| The printer's voltage rating does not match the voltage of your electrical outlet. | Check the printer and the outlet voltage ratings. If the voltages do not match, unplug the printer immediately and contact your dealer. |



**Warning:**

*Do not reconnect the power cord to an electrical outlet that has the wrong voltage for your printer.*

**The printer does not work and the control panel lights are off even though you turned on the printer.**

| Cause                                                                              | What to do                                                                                                                                                                                                       |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The power cord is not properly plugged into the electrical outlet or your printer. | Press the Operate button to turn off the printer, and make sure the power cord is firmly plugged into the electrical outlet and the printer, if necessary. Then press the Operate button to turn on the printer. |
| The electrical outlet does not work.                                               | Use a different outlet.                                                                                                                                                                                          |

## Using the Error Indicators

You can identify many common printer problems using the lights on the control panel. If your printer stops working and one or more control panel lights are on or flashing or the printer beeps, use the following table to diagnose and fix the problem. If you can't fix your printer problem using this table, go to the next section.

| State of panel lights                                                | Beep pattern | Problem                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                      |              | Solution                                                                                                                                                                                                                                                                                                                               |
| <input type="checkbox"/> Pause                                       | —            | <b>The printer is paused.</b><br>Press the Pause button to resume printing.                                                                                                                                                                                                                                                            |
|                                                                      | ...          | <b>The printer cover is open.</b><br>Close the paper guide cover.                                                                                                                                                                                                                                                                      |
|                                                                      | .....        | <b>Paper from another paper source is currently in the paper path.</b><br>Move the paper release lever back to the appropriate position and press the Load/Eject button to feed the paper out of the paper path. Then set the lever to the position you want to use. Press the Pause button to turn off the Pause light, if necessary. |
| <input type="checkbox"/> Paper Out<br><input type="checkbox"/> Pause | ...          | <b>No paper is loaded in the selected paper source.</b><br>Load paper in the printer. Then press the Pause button to turn off the Pause light, if necessary.                                                                                                                                                                           |
|                                                                      | ...          | <b>The paper is not loaded correctly.</b><br>Remove your paper and reload it. See Chapter 2 (continuous paper) or Chapter 3 (single sheets) for instructions on loading paper. Then press the Pause button to turn off the Pause light, if necessary.                                                                                  |
|                                                                      | ...          | <b>Paper is jammed in the printer.</b>                                                                                                                                                                                                                                                                                                 |
|                                                                      |              | Clear the paper jam as described on page 7-16.                                                                                                                                                                                                                                                                                         |

**The printer does not fully eject a single sheet.**

| Cause                   | What to do                                                                                                                                                                                                                                      |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Your paper is too long. | Press the Load/Eject button to eject the sheet. Make sure the page length of your paper is within the range specified for single-sheet paper in Appendix C. Also check and adjust the paper size setting in your application or printer driver. |

**The optional cut-sheet feeder does not feed your single-sheet paper properly.**

| Cause                                                                 | What to do                                                                                                                                                |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| The cut-sheet feeder is not installed properly.                       | Reinstall it as described in Appendix A.                                                                                                                  |
| Too many sheets are loaded in the cut-sheet feeder.                   | Load no more than 150 single sheets in the high-capacity cut-sheet feeder. See "Using the Optional Cut-Sheet Feeders" in Appendix A for more information. |
| The edge guides of the cut-sheet feeder are not positioned correctly. | Align the left edge guide with the arrow mark, then move the right edge guide to match your paper's width.                                                |
| There is only one sheet left in the bin.                              | Load more paper in the cut-sheet feeder.                                                                                                                  |

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## ***Problems and Solutions***

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Most printer problems are easy to solve. Use the information in this section to find the source of and solution to any printer problems that occur.

Determine the type of problem that occurred, and see the appropriate page below:

Power supply problems ..... 7-5

Single-sheet paper loading or  
feeding problems ..... 7-6

Continuous paper loading or  
feeding problems ..... 7-8

Wrong top-of-form position ..... 7-9

Wrong tear-off position ..... 7-10

Printing or printout quality problems. .... 7-11

You can also use the self test feature to determine whether the printer or the computer is causing the problem. See page 7-18 for instructions on printing a self test.

To pinpoint communication problems, experienced users may want to use the printer's hex dump mode, described on page 7-19.

To clear a paper jam, see page 7-16.

## Wrong top-of-form position

### Printing starts too high or low on the page.

| Cause                                                                                                                         | What to do                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The paper size setting in your application software or printer driver does not match the size of the paper you are using.     | Check the paper size setting in your application or printer driver.                                                                                                                                                                                                                                                                                                       |
| The printer's page length settings for the front or rear tractor do not match the size of the continuous paper you are using. | Check the page length settings for the front or rear tractor using the printer's default-setting mode or the EPSON Remote! utility. See "About Your Printer's Default Settings" in Chapter 5, or "Using the EPSON Remote! Utility" in Chapter 4.                                                                                                                          |
| The top margin or top-of-form position setting is incorrect.                                                                  | <p>Check the margin or top-of-form position setting in your application software. See the printable area specifications in Appendix C.</p> <p>Adjust the top-of-form position in micro adjust mode. Be aware, however, that settings made in Windows applications override settings made in micro adjust mode. See "Adjusting the Top-of-Form Position" in Chapter 2.</p> |
| The printer you want to use is not selected in your software.                                                                 | Choose the correct printer from the Windows desktop or in your application before printing.                                                                                                                                                                                                                                                                               |
| You moved the paper using the knob while the printer was on.                                                                  | Adjust the top-of-form position using the micro adjust feature. See "Adjusting the Top-of-Form Position" in Chapter 2.                                                                                                                                                                                                                                                    |



**Caution:**

*Never use the knob to adjust the top-of-form position; this may damage the printer or cause it to lose the top-of-form position.*

**Single-sheet paper loading or feeding problems**

**The printer does not load single-sheet paper or does not feed it properly.**

| Cause                                                                                                       | What to do                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The paper release lever is set to a tractor position.                                                       | Set the paper release lever to the single-sheet position. For more information on setting the paper release lever, see Chapter 2.                                                                                                                                                                    |
| Continuous paper is in the paper path.                                                                      | Set the paper release lever to the appropriate tractor position and press the Load/Eject button to feed the continuous paper to the standby position. Then set the paper release lever to the single-sheet position. (See Chapter 2 for more information on switching to printing on single sheets.) |
| The paper on the paper guide is positioned too far to the right for the printer to detect that it is there. | Move the paper a little to the left.                                                                                                                                                                                                                                                                 |
| Single-sheet paper is not loaded properly.                                                                  | See Chapter 3 for instructions on loading single-sheet paper.                                                                                                                                                                                                                                        |
| The paper thickness lever is not set correctly.                                                             | Set the paper thickness lever to match the thickness of your paper. See "Setting the Paper Thickness Lever" in Chapter 2.                                                                                                                                                                            |
| Your paper is creased, old, too thin, or too thick.                                                         | See the paper specifications in Appendix C and use new, clean sheets of paper.                                                                                                                                                                                                                       |

### ***Printing or printout quality problems***

|                                                                 |  |
|-----------------------------------------------------------------|--|
| <b>The printer does not print when the computer sends data.</b> |  |
|-----------------------------------------------------------------|--|

| Cause                                                                          | What to do                                                                                                                                                                               |
|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The printer is paused.                                                         | Press the PAUSE button.                                                                                                                                                                  |
| The interface cable is not plugged in securely.                                | Check that both ends of the cable between the printer and the computer are plugged in securely. If the cable is connected correctly, run a self test as described later in this chapter. |
| Your interface cable does not meet the printer and/or computer specifications. | Use an interface cable that meets the requirements of both the printer and computer. See page A-3 and your computer's documentation.                                                     |
| Your software is not properly set up for your printer.                         | Select your printer from the Windows desktop or in your application. If necessary, install or reinstall the printer driver software as described in Chapter 1.                           |

**Continuous paper loading or feeding problems**

**The printer does not load continuous paper or does not feed it properly.**

| Cause                                           | What to do                                                                                                                                                                                                                                                                 |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The paper release lever is not set correctly.   | Set the paper release lever to the tractor position for the paper source you want to use. For more information on setting the paper release lever, see Chapter 2.                                                                                                          |
| Single-sheet paper is in the paper path.        | Set the paper release lever to the single-sheet position and press the Load/Eject button to eject the sheet. Then set the paper release lever back to the appropriate tractor position. (See Chapter 2 for more information on switching to printing on continuous paper.) |
| Continuous paper is not loaded properly.        | See Chapter 2 for instructions on loading continuous paper on the tractor you want to use.                                                                                                                                                                                 |
| The paper thickness lever is not set correctly. | Set the paper thickness lever to match the thickness of your paper. See "Setting the Paper Thickness Lever" in Chapter 2.                                                                                                                                                  |

**The printer does not feed continuous paper to the standby position.**

| Cause                                                                         | What to do                                                                                                                          |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| You did not tear off the printed pages before pressing the Load/Eject button. | Tear off the printed pages at the perforation. Then press the Load/Eject button to feed the paper backward to the standby position. |

**Part of the printout is missing, or dots are missing in random positions.**

| Cause                                                                                                        | What to do                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| The ribbon has too much slack, the ribbon has come loose, or the ribbon cartridge is not installed properly. | Remove any slack in the ribbon by turning the ribbon-tightening knob, or reinstall the ribbon cartridge as described in Chapter 1. |
| The ribbon is worn out.                                                                                      | Replace the ribbon cartridge as described in Chapter 1.                                                                            |

**Lines of dots are missing in the printout.**

| Cause                      | What to do                                                             |
|----------------------------|------------------------------------------------------------------------|
| The print head is damaged. | Stop printing and contact your dealer to have the print head replaced. |



**Caution:**

*Never replace the print head yourself; you may damage the printer. Other parts of the printer must also be checked when the print head is replaced.*

**All the text is printed on the same line.**

| Cause                                                         | What to do                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No line feed command is sent at the end of each line of text. | Turn on the auto line feed setting using the printer's default-setting mode or the EPSON Remote! utility so that the printer automatically adds a line feed code to each carriage return. See "About Your Printer's Default Settings" in Chapter 5 or "Using the EPSON Remote! Utility" in Chapter 4. |

**Wrong tear-off position**

**The printer prints on (or too far away from) the perforation of your continuous paper.**

| Cause                                                                                                                                                                                                                               | What to do                                                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The tear-off position setting is incorrect.                                                                                                                                                                                         | Adjust the tear-off position using the micro adjust feature. See "Adjusting the tear-off position" in Chapter 2.                                                                                                                                 |
| You moved the paper using the knob while the printer was on.                                                                                                                                                                        | Adjust the tear-off position using the micro adjust feature. See "Adjusting the tear-off position" in Chapter 2.                                                                                                                                 |
|  <b>Caution:</b> <i>Never use the knob to adjust the tear-off position; this may damage the printer or cause it to lose the tear-off position.</i> |                                                                                                                                                                                                                                                  |
| The printer you want to use is not selected in your software.                                                                                                                                                                       | Choose the correct printer from the Windows desktop or in your application before printing.                                                                                                                                                      |
| The paper size setting in your application or printer driver does not match the size of the paper you are using.                                                                                                                    | Check the paper size setting in your application or printer driver.                                                                                                                                                                              |
| The printer's page length settings for the front or rear tractor do not match the size of the continuous paper you are using.                                                                                                       | Check the page length settings for the front or rear tractor using the printer's default-setting mode or the EPSON Remote! utility. See "About Your Printer's Default Settings" in Chapter 5, or "Using the EPSON Remote! Utility" in Chapter 4. |

|                                                               |                                                                                             |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| The printer you want to use is not selected in your software. | Choose the correct printer from the Windows desktop or in your application before printing. |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------|

|                                                                         |                                                                                                                                                                                                              |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Your application software is not configured correctly for your printer. | Make sure that your application software is set up correctly for your printer. See your application documentation. If necessary, install or reinstall the printer driver software as described in Chapter 1. |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                           |                                                   |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Software settings override settings you make using the default-setting mode, EPSON Remote!, or the control panel buttons. | Use your application software to select the font. |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|

|                                                |
|------------------------------------------------|
| <b>Vertical printed lines are not aligned.</b> |
|------------------------------------------------|

| Cause                                                                                       | What to do                                                                                                                                      |
|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Bidirectional printing, which is the printer's standard printing mode, is out of alignment. | Use the printer's bidirectional adjustment mode to correct this problem. See "Aligning Vertical Lines in Your Printout", later in this chapter. |

**The printer makes noise, but nothing prints or printing stops abruptly**

| Cause                                                                                                        | What to do                                                                                                                         |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| The paper thickness lever is set incorrectly.                                                                | Set the paper thickness lever to match the thickness of your paper. See "Setting the Paper Thickness Lever" in Chapter 2.          |
| The ribbon has too much slack, the ribbon has come loose, or the ribbon cartridge is not installed properly. | Remove any slack in the ribbon by turning the ribbon-tightening knob, or reinstall the ribbon cartridge as described in Chapter 1. |

**The printout is faint.**

| Cause                                                        | What to do                                              |
|--------------------------------------------------------------|---------------------------------------------------------|
| The paper thickness lever is set incorrectly for your paper. | Move the paper thickness lever to a lower setting.      |
| The ribbon is worn out.                                      | Replace the ribbon cartridge as described in Chapter 1. |

**The printout has gaps.**

| Cause                                           | What to do                                                                                                                            |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| The paper thickness lever is not set correctly. | Set the paper thickness lever to match the thickness of your paper. See page 2-4 for continuous paper, or page 3-3 for single sheets. |

## ***Aligning Vertical Lines in Your Printout***

If you notice that the vertical lines in your printout are not properly aligned, you can use the printer's bidirectional adjustment mode to correct this problem.

**Note:**

- ☐ *To complete the steps below, you need four sheets of A4 or letter size single-sheet paper or four pages of continuous paper that are at least 279 mm (11 inches) long and 241 mm (9.5 inches) wide. See Chapter 2 for instructions on loading continuous paper, or Chapter 3 for instructions on loading single sheets.*
- ☐ *If you use single sheets, you need to load a new sheet of paper each time the printer ejects a printed sheet onto the paper guide.*

Follow these steps to perform the bidirectional adjustment:

1. Make sure paper is loaded and the printer is turned off.



**Caution:**

*Whenever you turn off the printer, wait at least five seconds before turning it back on; otherwise you may damage the printer.*

2. While holding down the Pause button, press the Operate button to turn on the printer. The printer enters the bidirectional adjustment mode and then prints instructions and the first set of alignment patterns.
3. As described in the instructions, compare the alignment patterns and select the pattern with the best alignment.
4. Follow the instructions to print the remaining sets of alignment patterns and select the pattern with the best alignment in each set.
5. After you select the best pattern in the final set of alignment patterns, press the Operate button to turn off the printer and exit the bidirectional adjustment mode. Your selections are saved automatically.

**The printout has extra blank lines between lines of text.****Cause****What to do**

Two line feed commands are being sent at the end of each line of text.

Turn off the auto line feed setting using the printer's default-setting mode or the EPSON Remote! utility. See "About Your Printer's Default Settings" in Chapter 5, or "Using the EPSON Remote! Utility" in Chapter 4.

The line space setting in your application software is incorrect.

Adjust the line space setting in your application software.

The skip over perforation setting is on.

Turn off the skip over perforation setting in the default-setting mode or the EPSON Remote! utility. See "About Your Printer's Default Settings" in Chapter 5, or "Using the EPSON Remote! Utility" in Chapter 4.

**The printer prints strange symbols, incorrect fonts, or other inappropriate characters.****Cause****What to do**

Your printer and computer are not communicating correctly.

Make sure that you are using the correct interface cable and that the communications protocol is correct. See page A-3 and your computer documentation. If you installed an optional serial interface card, also see page A-17.

The wrong character table is selected in your software.

Select the correct character table using your software, the default-setting mode, or the EPSON Remote! utility. The character table setting in your software overrides settings made in the default-setting mode or the EPSON Remote! utility.

After a few seconds, the printer loads the paper automatically and begins printing a self test. A series of characters is printed.

**Note:**

*To temporarily stop the self test, press the Pause button. To resume the test, press the Pause button again.*

3. To end the self test, press the Pause button to stop printing and the Load/Eject button to eject the printed page. Then turn off the printer.

### ***Printing a Hex Dump***

If you are an experienced user or a programmer, you can print a hexadecimal dump to isolate communication problems between the printer and your software program. In hex dump mode, the printer prints all data received from the computer as hexadecimal values.

You can print a hex dump using either single sheets or continuous paper. See Chapter 2 for instructions on loading continuous paper, or Chapter 3 for instructions on loading single sheets.

**Note:**

*Use paper that is at least 210 mm (8.3 inches) wide, such as A4 or letter size paper.*

---

## Clearing Paper Jams

To clear a paper jam, follow these steps:

1. Press the Operate button to turn off the printer.
2. If a single sheet of paper is stuck on the paper guide, gently remove it.
3. Remove the printer cover. If continuous paper from the rear slot is loaded in the printer, remove the paper guide.
4. If continuous paper is jammed in the printer, tear off the supply at the perforation nearest the paper entry slot.
5. Turn the knob on the right side of the printer away from you to eject the paper in the printer. Remove any remaining pieces of paper.



**Caution:**

*Use the knob on the right side of the printer to clear paper jams only when the printer is off. Otherwise, you may damage the printer or lose the top-of-form or tear-off position.*

6. Replace the paper guide if necessary, and replace the printer cover. Then close the paper guide cover.
7. Press the Operate button to turn on the printer. Make sure the Paper Out and Pause lights are off.

Proof Sign-off: \_\_\_\_\_  
<Crestec> \_\_\_\_\_  
<Yamanouchi> \_\_\_\_\_  
<Crestec> \_\_\_\_\_

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## Appendix A

### ***Enhancing Your Printer With Options***

A

|                                                                                            |      |
|--------------------------------------------------------------------------------------------|------|
| Options .....                                                                              | A-2  |
| Paper handling options .....                                                               | A-2  |
| Optional interface cards .....                                                             | A-3  |
| Using the Optional Cut-Sheet Feeders .....                                                 | A-4  |
| Installing the high-capacity or double-bin cut-sheet feeder .....                          | A-4  |
| Loading paper in the high-capacity cut-sheet feeder .....                                  | A-6  |
| Selecting the paper source (bin 1 or bin 2) .....                                          | A-10 |
| Switching between continuous paper and single-sheet<br>paper in the cut-sheet feeder ..... | A-11 |
| Using the Roll Paper Holder .....                                                          | A-12 |
| Assembling the roll paper holder .....                                                     | A-12 |
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| Loading roll paper .....                                                                   | A-14 |
| Removing roll paper .....                                                                  | A-16 |
| Installing an Interface Card .....                                                         | A-17 |

## Printing a Self Test

Running the printer's self test helps you determine whether the printer or the computer is causing the problem:

- ☐ If the self test results are satisfactory, the printer is working properly and the problem probably results from your printer driver settings, application settings, computer, or interface cable. (Be sure to use a shielded interface cable.)
- ☐ If the self test does not print properly, there is a problem with the printer. See "Problems and Solutions" for possible causes and solutions to the problem.

You can print a self test using either single sheets or continuous paper. See Chapter 2 for instructions on loading continuous paper, or Chapter 3 for instructions on loading single sheets.

**Note:**

*Use paper that is at least 241 mm (9.5 inches) wide, such as A4 or letter size paper.*

To perform a self test, follow these steps:

1. Make sure paper is loaded and the printer is turned off.



**Caution:**

*Whenever you turn off the printer, wait at least five seconds before turning it back on; otherwise you may damage the printer.*

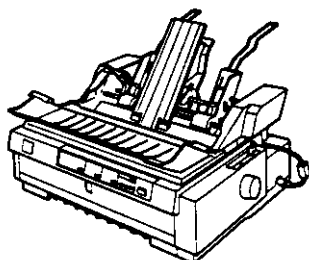
2. To run the test using the Draft font, hold down the LF/FF button while you press the Operate button to turn on the printer. To run the test using the printer's near-letter-quality fonts, hold down the Load/Eject button while you turn on the printer. Either self test can help you determine the source of your printing problem; however, the draft test prints faster than the near-letter-quality test.

## Options

The following table shows the paper handling options and interface cards available for your printer. To purchase options, contact your dealer or customer support as described in Appendix D.

### Paper handling options

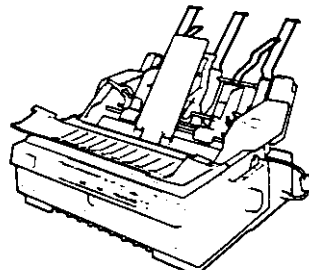
#### High-capacity cut-sheet feeder (C80684\*)



Feeds up to 150 sheets of paper, 25 plain bond envelopes, or 30 postcards into the printer without reloading. You can also load a stack of single-sheet multi-part forms up to 15 mm (0.59 inches) thick in this feeder. For instructions on using this option, see page A-4.

4-4.eps

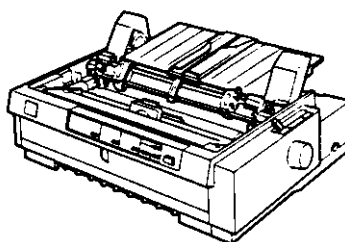
#### Second bin cut-sheet feeder (C80685\*)



Connects to the high-capacity cut-sheet feeder to create a double-bin cut-sheet feeder. You can load up to 50 sheets of ordinary single-sheet paper in the second-bin cut-sheet feeder. For instructions on using this option, see page A-4.

4-4-2.eps

#### Pull tractor (C80033\*)



Improves continuous paper handling and reduces the chance of paper jams. You can also use this tractor as a front push tractor. Using a pull tractor in combination with a push tractor is especially useful for printing on continuous pre-printed forms, multi-part forms, labels, and for printing high-quality graphics. For instructions on using this option, see page 2-29.

A-2-3.eps

To print a hex dump, follow the steps below.

1. Make sure paper is loaded and the printer is turned off.

**Caution:**

*Whenever you turn off the printer, wait at least five seconds before turning it back on; otherwise you may damage the printer.*

2. To enter hex dump mode, hold down both the LF/FF and Load/Eject buttons while you press the Operate button to turn on the printer.
3. Open a software program and send a print job to the printer. Your printer prints all the codes it receives in hexadecimal format.

**Hex Dump**

|                                                 |                   |
|-------------------------------------------------|-------------------|
| 1B 40 0D 1B 74 01 1B 34 1B 52 00 1B 50 1B 2B 55 | .@..t..6.R..P.(U  |
| 01 00 0A 1B 2B 43 02 00 7B 0F 1B 2B 63 04 00 3C | ....(C..x..(c..<  |
| 00 3C 0F 1B 19 30 00 1B 4A 1B 1B 24 AA 05 1B 2A | .<...0..J..\$~..* |
| 27 24 00 00 00 08 00 00 08 00 00 08 00 00 08 00 | *\$.....          |
| 00 08 00 00 08 00 00 08 00 00 08 00 00 08 00 00 | .....             |
| 08 00 00 08 00 00 08 00 00 08 00 00 08 00 00 08 | .....             |
| 00 00 08 00 00 08 00 00 08 00 00 08 00 00 08 00 | .....             |
| 00 08 00 00 08 00 00 08 00 00 08 00 00 08 00 00 | .....             |
| 00 00 08 00 00 08 00 00 08 00 00 08 00 00 08 00 | .....             |
| 08 00 00 08 00 00 08 00 00 08 00 00 08 00 00 08 | .....             |
| 00 00 08 00 00 08 00 00 08 00 00 08 00 00 08 00 | .....             |
| 1B 4A 7B 1B 24 0A 01 1B 2A 27 EC 03 00 00 3B 00 | .Jx.\$...*~..8.   |
| 10 44 00 10 82 00 21 02 00 21 02 00 21 02 00 21 | .D..@.!...!...!   |
| 02 00 21 02 00 21 04 00 21 04 00 11 0B 00 0F FE | ...!...!...!...   |

dump.tif

If characters are printable, they appear in the right column as ASCII characters. Nonprintable codes, such as control codes, are represented by dots. By comparing the characters printed in the right column with the printout of the hexadecimal codes, you can check the codes the printer is receiving.

4. To turn off hex dump mode, press the Pause button to stop printing and the Load/Eject button to eject the printed page(s). Then turn off the printer.

Proof Sign-off:  
<Crestec> \_\_\_\_\_  
<Yamanouchi> \_\_\_\_\_  
<Crestec> \_\_\_\_\_

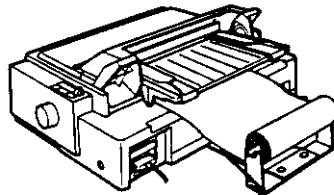
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**Roll paper holder (#8310)**



Allows you to use your printer with 8.5-inch roll paper like that used with telex machines. For instructions on using this option, see page A-12.

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**Note:**

The asterisk (\*) is a substitute for the last digit of the product number, which varies by country.

**Optional interface cards**

You can install an optional interface card to supplement your printer's built-in parallel interface and provide added network compatibility. The EPSON interface cards in the table below are compatible with your printer. (Not all the interfaces in the table are available in worldwide.)

For instructions on installing an interface card, see page A-17.

| Model number                | Cord type                                                |
|-----------------------------|----------------------------------------------------------|
| C82307* / C82308*           | 32KB serial interface card                               |
| C82312*                     | LocalTalk interface card                                 |
| C82313*                     | 32KB IEEE-488 interface card                             |
| C82314*                     | Coax interface card                                      |
| C82315*                     | Twinax interface card                                    |
| C82345*                     | IEEE-1284 (Type B bidirectional) parallel interface card |
| C82362* / C82363* / C82364* | Ethernet interface card                                  |

The asterisk (\*) is a substitute for the last digit, which varies by country.

If you are unsure whether you need an optional interface or would like to know more about interfaces, contact your dealer.

## Using the Optional Cut-Sheet Feeders

The optional high-capacity cut-sheet feeder (C80684\*) can load up to 150 sheets of paper in the printer. You can also create a double-bin cut-sheet feeder by connecting the second bin cut-sheet feeder (C80685\*) to the high-capacity cut-sheet feeder. The double-bin cut-sheet feeder allows you to load two different types of single-sheet paper in the printer at the same time and easily switch between them. To assemble the double-bin cut-sheet feeder and load paper in the second-bin cut-sheet feeder, see the second-bin cut-sheet feeder manual. For instructions on selecting bin 1 or bin 2 of the double-bin cut-sheet feeder, see page A-10.

**Note:**

*The second-bin cut-sheet feeder can be used in combination with the high-capacity cut-sheet feeder only; you cannot use it separately.*

## Installing the high-capacity or double-bin cut-sheet feeder

You install the high-capacity cut-sheet feeder and double-bin cut-sheet feeder in the same way. Follow the steps below.

**Note:**

*Before installing the double-bin cut-sheet feeder, assemble it as described in the cut-sheet feeder manual.*



**Warning:**

*You will need to move the print head by hand before installing the cut-sheet feeder. If you have just used the printer, the print head may be hot; let it cool for a few minutes before touching it.*

1. Make sure the printer is turned off.



**Caution:**

*You will need to move the print head to the ribbon installation position before installing the high-capacity or double-bin cut-sheet feeder. Moving the print head while the printer is on may damage the printer.*

2. Remove the paper guide and printer cover. Slide the print head to the ribbon installation position (the indented portion of the paper tension unit) by hand.

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<Yamanouchi>  
<Crestec>

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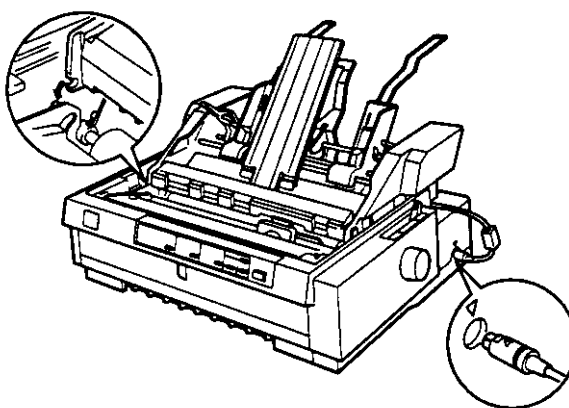
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3. Press up the tabs on both sides of the paper tension unit and lift it up and off the printer. If a tractor is installed in the pull position, remove it as described on page 2-31. Store any printer parts you remove in a safe place.
4. Hold the cut-sheet feeder in both hands and fit the feeder's notches over the mounting posts on the printer as shown below. Then release the latch levers and lower the cut-sheet feeder until it rests on the printer.

A



4-1.eps

5. Insert the cable into the connector as shown above.
6. Replace the printer cover.

You are now ready to load paper in the cut-sheet feeder. To load paper in the high-capacity cut-sheet feeder, see the next section. To load paper in the second bin of the double-bin cut-sheet feeder, see the manual that comes with the second-bin cut-sheet feeder. If you installed the double-bin cut-sheet feeder, you need to select the paper source (bin 1 or bin 2) as described on page A-10.

To remove the cut-sheet feeder, reverse the steps above.

### Loading paper in the high-capacity cut-sheet feeder

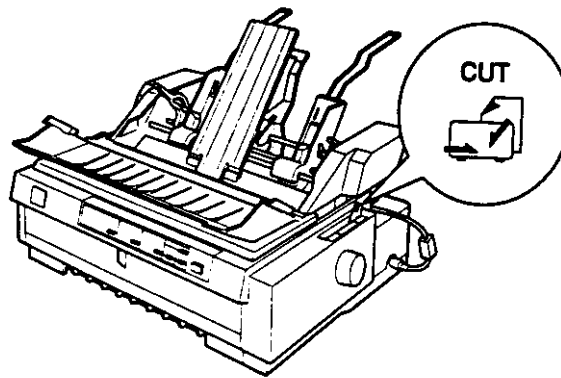
You can load up to 150 ordinary single sheets, 25 plain bond envelopes, or 30 postcards in the high-capacity cut-sheet feeder. You can also load a stack of single-sheet multi-part forms up to 15 mm (0.59 inches) thick in this feeder.

Follow the steps below to load paper in the high-capacity cut-sheet feeder.

**Caution:**

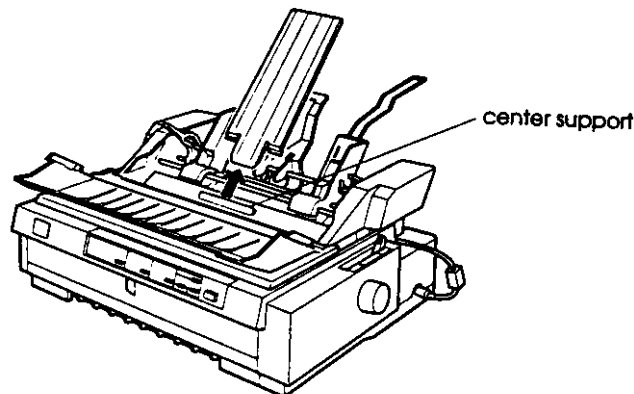
Do not load carbon paper or labels in the high-capacity cut-sheet feeder.

1. Open the paper guide cover, and set the paper release lever to the single-sheet position. Also make sure the paper thickness lever (located under the printer cover) is set to the proper position for your paper's thickness.



4-4a.eps

2. Pull down the center support, as shown below.



4-2-1.eps

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<Yamanouchi>  
<Crestec>

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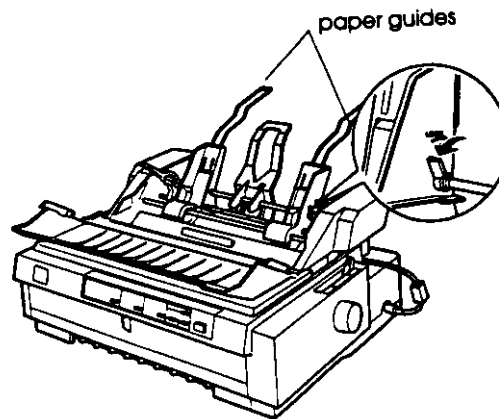
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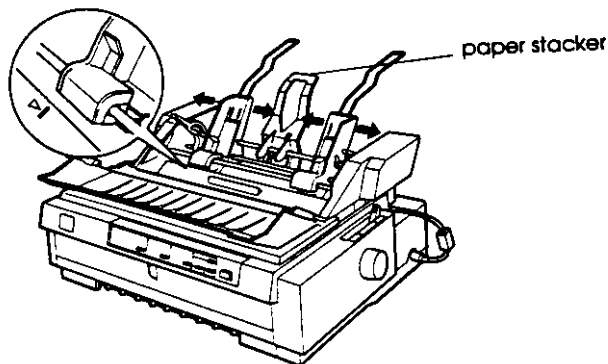
3. Release the left and right paper guides of the cut-sheet feeder by pulling the lock levers forward.

A



4-2-2a.eps

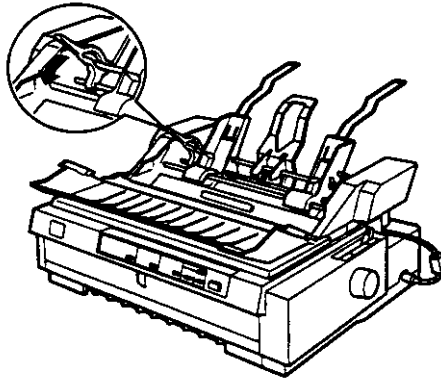
4. Holding the lower portion of the left paper guide, slide it until it is aligned with the arrow mark on the back of the center support. Then push the left lock lever backward to lock it in place. Holding the lower portion of the right paper guide, slide it to match the width of your paper, but do not lock it.



4-2-3.eps

5. Slide the paper stacker midway between the paper guides as shown above.

6. Pull both paper set levers forward until the paper guides retract and lock open to allow paper loading.



4-3.eps

7. Take a stack of paper (up to 150 sheets of plain paper) and fan it. Next, tap the side and bottom edges of the paper on a flat surface to even up the stack.
8. Insert the paper stack printable side down along the left paper guide.
9. Adjust the right paper guide so that it matches your paper's width. Make sure the position of the guide allows the paper to move up and down freely. Then push the lock lever backward to lock the paper guide.
10. Push back the paper set levers to clamp the paper against the guide rollers.

4-3aa.ep

Proof Sign-off:  
<Crestec>  
<Yamanouchi>  
<Crestec>

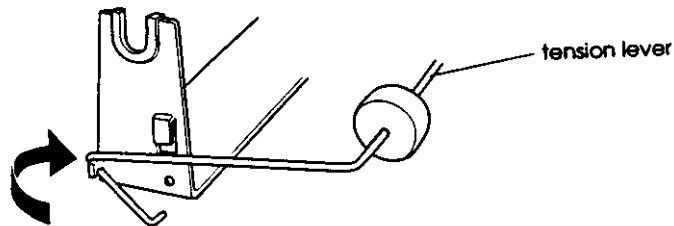
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3. Hook the tension lever onto both ends of the stand as shown below. While pulling up the tension lever, fit the wire ends of the tension lever into the holes in the stand. The roll paper holder is assembled.

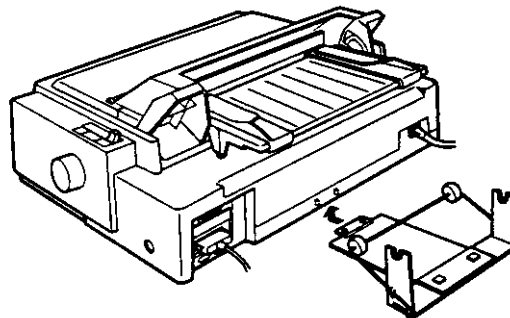


G3-30-3.eps

### Installing the roll paper holder

To install the roll paper holder, follow the steps below.

1. Make sure the printer is turned off.
2. Position the roll paper holder underneath the printer as shown below. Fit the two positioning pegs on the bottom of the printer into the two holes in the base plate.



4-6.eps



**Caution:**

The roll paper holder is not fastened to the printer; only the printer's weight and the two positioning pegs hold it in place. If you pick up the printer, be careful not to drop the roll paper holder.

**<Crestec>**

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<Yamanouchi>  
<Crestec>

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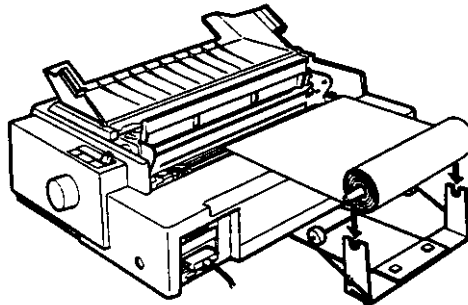
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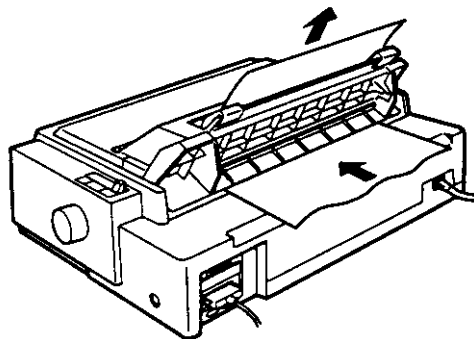
7. Place the shaft and paper roll on the roll paper holder so the paper feeds from the bottom of the roll.

A



G3-32-2.eps

8. Turn on the printer. Bring the leading edge of the paper up over the rear push tractor and insert it until it meets resistance. The printer loads the roll paper automatically.
9. Replace the paper guide and close the paper guide cover. You are now ready to print. The printed roll paper is fed over the paper guide to the back of the printer, as shown below.



4-9.eps

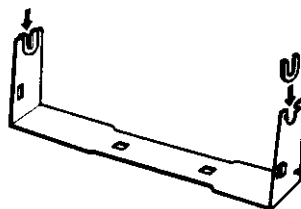
## ***Using the Roll Paper Holder***

The optional roll paper holder (#8310) allows you to use 8.5-inch roll paper like that used with telex machines. This provides an inexpensive alternative to using continuous paper for applications that require variable paper lengths. Before you install and use the roll paper holder, you need to assemble it.

### ***Assembling the roll paper holder***

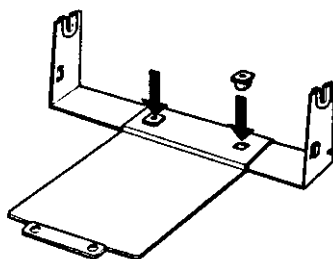
To assemble the roll paper holder, follow the steps below.

1. Fit the arc bearings into the stand as shown.



G3-30-1.e

2. Make sure you orient the stand and base plate as shown below. Then place the base plate on the stand and fasten the two together with the plastic spacing clips.



G3-30-2.e

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<Yamanouchi> \_\_\_\_\_

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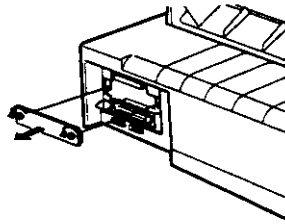
R

## ***Installing an Interface Card***

A

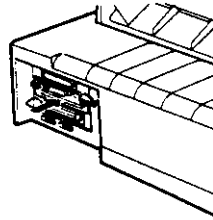
Follow the steps below to install an optional interface card.

1. Make sure the printer is turned off. Unplug the printer's power cord and disconnect the interface cable.
2. Remove the screws from the shield plate on the back of the printer and remove the plate.



4-10.eps

3. Slide the interface card along the slots on both sides of the interface compartment. Firmly push in the card to make sure the connector at the back of the interface card is fully inserted into the printer's internal socket. Then replace the screws and tighten them.



4-11.eps

**Note:**

*Store the shield plate in a safe place; you will need to reattach it if you remove the interface card later.*

To remove the interface card, reverse the steps above.

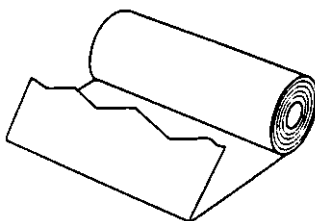
To remove the roll paper holder, carefully lift up the printer and pull out the roll paper holder from beneath the printer.

### Loading roll paper

After you install the roll paper holder, follow the steps below to load a roll of paper:

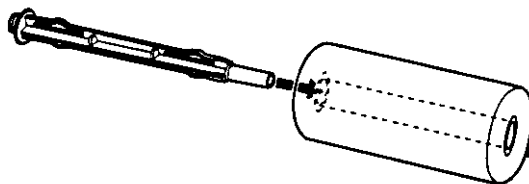
1. Make sure the printer is turned off. Open the paper guide cover and remove the paper guide.
2. Make sure the paper tension unit is installed.
3. Set the paper thickness lever (located under the printer cover) to the proper position for the thickness of your roll paper.
4. Set the paper release lever to the single-sheet position.
5. Cut the leading edge of the roll paper straight across.

G3-31-2.e



6. Insert the roll paper holder shaft into the center of the paper roll as shown.

G3-32-1.e



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## Appendix B

### ***Cleaning and Transporting the Printer***

|                                |     |
|--------------------------------|-----|
| Cleaning the Printer .....     | B-2 |
| Transporting the Printer ..... | B-3 |

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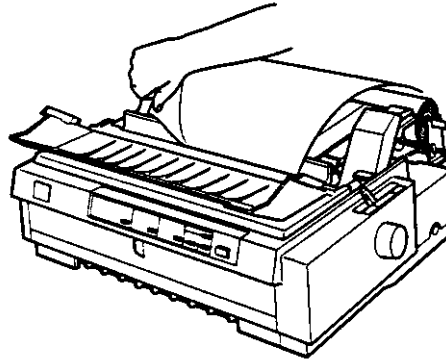
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<Yamanouchi> \_\_\_\_\_

<Crestec> \_\_\_\_\_

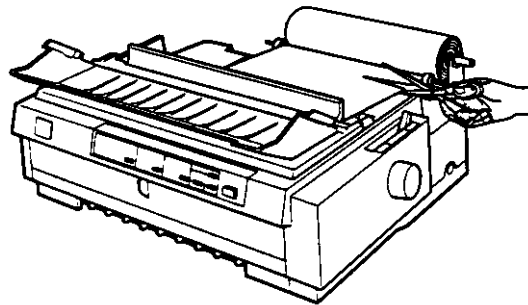
When you finish printing, open the paper guide cover and press the LF/FF button to advance the paper. Tear off the paper using the tear-off edge of the printer (pull it towards you for a clean cut).



G3-43.eps

### **Removing roll paper**

Roll paper cannot be fed backward. To remove roll paper, open the paper guide cover and remove the paper guide; then cut the paper behind where it feeds into the printer. Press the Load/Eject button to eject the remaining paper.



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## Appendix C

### Specifications

|                                                         |      |
|---------------------------------------------------------|------|
| Printer Specifications .....                            | C-2  |
| Mechanical .....                                        | C-2  |
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**Paper capacity:**

High-capacity cut-sheet feeder  
up to 150 sheets of 82 g/m<sup>2</sup> (22 lb) paper  
up to 25 plain or bond envelopes  
up to 30 airmail envelopes  
up to 30 postcards  
a stack of multi-part forms up to 15 mm  
(0.59 inches) thick

**Note:**

The total thickness of the paper stack can be up to  
15 mm (0.59 inches).



Second-bin cut-sheet feeder  
up to 50 sheets of 82 g/m<sup>2</sup> (22 lb) paper

**Note:**

The total thickness of the paper stack can be up to  
5 mm (0.20 inches).

**Buffer:**

64KB or 0KB (selectable in the  
default-setting mode or the EPSON  
Remote! utility)

**Built-in fonts:**

Bitmap fonts  
EPSON Draft 10, 12, 15 cpi  
EPSON Roman 10, 12, 15 cpi,  
proportional  
EPSON Sans Serif 10, 12, 15 cpi,  
proportional

EAN-13, EAN-8, Interleaved 2 of 5, UPC-A,  
UPC-E, Code 39, Code 128, POSTNET

**Character tables:**

One Italic and 12 graphical character tables.  
(33 graphical character tables are available in  
some countries.) See page C-16 for more  
information on the available character tables.

**Character sets:**

14 international character sets and one legal  
character set

## ***Cleaning the Printer***

To keep your printer operating at its best, you should clean it thoroughly several times a year. To clean your printer, follow these steps:

1. Remove any paper loaded in the printer. Make sure the printer is turned off.
2. Remove the paper guide base. If a pull tractor or an optional cut-sheet feeder is installed, remove it.
3. Use a soft brush to carefully brush away all dust and dirt from the outer case and paper guide base.
4. If the outer case or paper guide is still dirty or dusty, clean them with a soft, clean cloth dampened with mild detergent dissolved in water. Keep the printer cover in place and lower it until it lies flat on the top of the printer to prevent water from getting inside the printer.

**Caution:**

- ☐ *Never use alcohols or thinners to clean the printer; these chemicals can damage the printer components as well as the case.*
- ☐ *Be careful not to get water on the printer mechanism or electronic components.*
- ☐ *Do not use a hard or abrasive brush.*
- ☐ *Do not spray the inside of the printer with lubricants; unsuitable lubricants can damage the printer mechanism. Contact an EPSON dealer if you think lubrication is needed.*

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## Paper

### Note:

- Use recycled paper and envelopes only under normal temperature and humidity conditions, as follows:

|             |                           |
|-------------|---------------------------|
| Temperature | 15 to 25 °C (59 to 77 °F) |
| Humidity    | 30 to 60% RH              |

- Do not load paper that has been folded or is damaged, wrinkled, or curled.

Ordinary single sheets: front, top, and cut-sheet feeder entry

Width

Front and top:

100 to 257 mm (3.9 to 10.1 inches)

High-capacity cut-sheet feeder:

100 to 257 mm (3.9 to 10.1 inches)

Second-bin cut-sheet feeder:

182 to 210 mm (7.2 to 8.3 inches)

Length

Front:

148 to 364 mm (5.8 to 14.3 inches)

Top:

100 to 364 mm (3.9 to 14.3 inches)

High-capacity cut-sheet feeder:

100 to 364 mm (3.9 to 14.3 inches)

Second-bin cut-sheet feeder:

210 to 297 mm (8.3 to 11.7 inches)

Thickness

0.065 to 0.14 mm (0.0025 to 0.0055 inches)

Weight

52 to 90 g/m<sup>2</sup> (14 to 24 lb)



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**Continuous paper  
(standard and multipart):**

**front, rear, and bottom entry**

|                                    |                                                                                                                 |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Width                              | 101.6 to 254 mm (4.0 to 10.0 inches)                                                                            |
| Length                             | 101.6 to 558.8 mm (4.0 to 22.0 inches)                                                                          |
| Copies                             | 1 original + up to 5 copies<br>1 original + up to 6 copies(front or buttom<br>entry with the pull tractor only) |
| Thickness                          | Printable area 0.065 to 0.46 mm<br>(0.0025 to 0.018 inches)<br>Perforated edges up to 0.9 mm (0.035 inches)     |
| Weight<br>(not multipart)          | 52 to 82 g/m <sup>2</sup> (14 to 22 lb)                                                                         |
| Weight<br>(one sheet of multipart) | 40 to 58 g/m <sup>2</sup> (12 to 15 lb)                                                                         |
| Binding                            | Point glue or paper staples on both sides<br>(front, bottom, or rear entry)                                     |

**Note:**

*Because thick multipart forms require a straight paper path, load them in the front slot.*

**Continuous paper  
with labels:**

**front and bottom entry**

|                                    |                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------|
| Label size                         | 23.8 × 63.5 mm (15/16 × 2.5 inches) minimum<br>2.5 mm (0.1 inches) corner radius, minimum |
| Backing sheet width                | 101.6 to 254 mm (4.0 to 10.0 inches)                                                      |
| Backing sheet length<br>(one page) | 101.6 to 558.8 mm (4.0 to 22.0 inches)                                                    |
| Backing sheet thickness            | 0.07 to 0.09 mm (0.0028 to 0.0035 inches)                                                 |
| Total thickness                    | 0.16 to 0.19 mm (0.0063 to 0.0075 inches)                                                 |
| Label weight                       | 68 g/m <sup>2</sup> (17 lb)                                                               |

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## ***Printer Specifications***

### ***Mechanical***

|                     |                                                                                                                                                                                                                                                                                                            |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Printing method:    | 9-pin impact dot matrix                                                                                                                                                                                                                                                                                    |
| Printing speed:     | High speed draft    506 cps at 10 cpi<br>569 cps at 12 cpi<br>Draft                      380 cps at 10 cpi<br>Near Letter quality    95 cps at 10 cpi                                                                                                                                                      |
| Printing direction: | Bidirectional logic seeking for text and graphics printing. Unidirectional text or graphics printing can be selected using software commands.                                                                                                                                                              |
| Line spacing:       | 1/6-inches or programmable in 1/216-inch increments                                                                                                                                                                                                                                                        |
| Printable columns:  | 80 columns (at 10 cpi)                                                                                                                                                                                                                                                                                     |
| Resolution:         | Maximum 240 × 144 dpi maximum (near letter quality)                                                                                                                                                                                                                                                        |
| Interfaces:         | One standard bidirectional, 8-bit, parallel interface with IEEE 1284 nibble mode support, one serial interface and one optional interface slot                                                                                                                                                             |
| Paper feed methods: | Friction (front or top paper entry)<br>Push tractor (front or rear paper entry)<br>Pull tractor (front, bottom, or rear paper entry)<br>Push and pull tractor (additional tractor is required for front push and pull tractor combination.)<br>Cut-sheet feeder (optional)<br>Roll paper holder (optional) |
| Paper feed speed:   | Continuous            5 inches/second<br>Intermittent          46 ms/line at 1/6-inch line spacing                                                                                                                                                                                                         |

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**Rev. B**

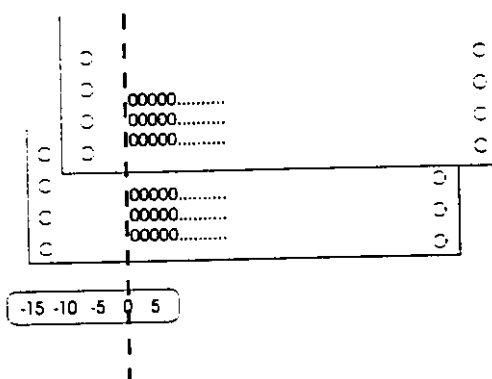
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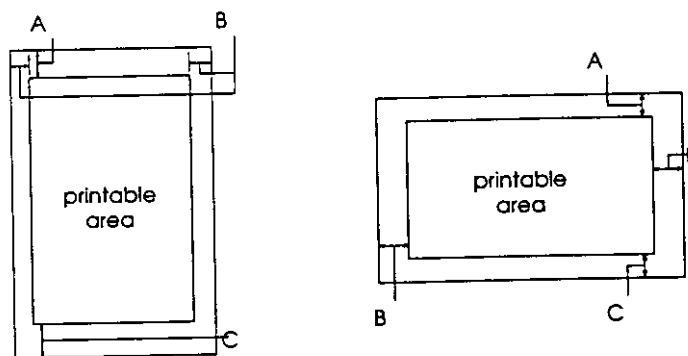
### Rear entry

Printing starts at "0" on the scale. The unprintable area is to the left of the "0".



### Printable area

Single sheets, envelopes, and postcards:



- A The minimum top margin is 4.2 mm (0.17 inches).
- B The minimum left margin is 3.0 mm (0.12 inches).  
The minimum right margin is 3.0 mm (0.12 inches).  
The maximum width is 257 mm (10.1 inches) and  
the maximum printable width is 203.2 mm (9.1 inches).  
For single sheets wider than 209.2 mm (11.5 inches), the side margins  
increase proportionally to match the width of the paper.
- C The minimum bottom margin is 4.2 mm (0.17 inches).

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\_\_\_\_\_**Reliability:**Total print volume 25 million lines  
(except print head)  
MTBF 10,000 POH (25%  
duty)Print head life approx. 300 million  
characters (Draft 10 cpi, 14  
dots/character)**Dimensions and  
weight:**Height 236 mm (9.3 inches)  
Width 528 mm (20.8 inches)  
Depth 404 mm (15.9 inches)  
Weight approx. 11 kg (24.3 lb)**Ribbon:**

Black ribbon cartridge (S015086)

Ribbon life 7.5 million characters  
(Draft, 10 cpi, 14 dots/  
character)**Electrical**

|                       | 120 V Model                                                 | 220 to 240 V Model                                          |
|-----------------------|-------------------------------------------------------------|-------------------------------------------------------------|
| Input voltage range   | 99 to 132 V                                                 | 198 to 264 V                                                |
| Rated frequency range | 50 to 60 Hz                                                 |                                                             |
| Input frequency range | 49.5 to 60.5 Hz                                             |                                                             |
| Rated current         | 1.0 A (maximum 2.2 A<br>depending on the<br>character type) | 0.5 A (maximum 1.1 A<br>depending on the<br>character type) |
| Power consumption     | Approx. 46 W (ISO/IEC 10561 letter pattern)                 |                                                             |

**Note:**

Check the label on the back of the printer for the voltage of your printer.

**Environmental**

|           | Temperature                  | Humidity<br>(without condensation) |
|-----------|------------------------------|------------------------------------|
| Operation | 5 to 35 °C (41 to 95 °F)     | 10 to 80% RH                       |
| Storage   | -30 to 60 °C (-22 to 140 °F) | 0 to 85% RH                        |

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### **Safety approvals**

120 V model:

Safety standards

UL1950  
CSA C22.2 No. 950

EMI

FCC part 15 subpart B class B  
CSA C108.8 class B

230 V model:

Safety standards

EN 60950 ~~UL1950~~

EMI

EN 55022 (CISPR pub. 22) class B  
AS/NZS 3548 class B

Acoustic noise:

Approx. 55 dB (A) (ISO 7779 pattern)

C

### **CE marking**

230 V model:

Low Voltage Directive 73/23/EEC  
EMC Directive 89/336/EEC

EN 60950  
EN 55022 Class B  
EN 61000-3-2  
EN 61000-3-3  
EN 50082-1  
IEC 801-2  
IEC 801-3  
IEC 801-4

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**Single-sheet multipart  
forms:**

Width

**front, top, and cut-sheet feeder entry**

Front and top:

100 to 257 mm (3.9 to 10.1 inches)

High-capacity cut-sheet feeder:

100 to 257 mm (3.9 to 10.1 inches)

Length

Front:

148 to 364 mm (5.8 to 14.3 inches)

Top:

100 to 364 mm (3.9 to 14.3 inches)

High-capacity cut-sheet feeder:

100 to 364 mm (3.9 to 14.3 inches)

Copies

1 original + up to 5 copies

Thickness

0.12 to 0.39 mm (0.0047 to 0.015 inches)

Weight

40 to 58 g/m<sup>2</sup> (12 to 15 lb)

Binding

Line glue at the top of form (both front and  
top entry)

Single-side line glue (front entry only)

**Envelopes:****top entry only**

Size

No. 6: 165 × 92 mm (6.5 × 3.6 inches)

No. 10: 241 × 105 mm (9.5 × 4.1 inches)

Thickness

0.16 to 0.52 mm (0.0063 to 0.0205 inches)

Weight

45 to 90 g/m<sup>2</sup> (12 to 24 lb)**Postcards:****front and top entry**

Width

100 to 148 mm (3.9 to 5.8 inches)

Length

Front: 148 mm (5.8 inches)

Top: 100 to 148 mm (3.9 to 5.8 inches)

Thickness

0.22 mm (0.0087 inches)

Weight

192 g/m<sup>2</sup> (51 lb)

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### Barcode commands

Your printer has powerful barcode printing capabilities and includes the following resident barcode fonts: EAN-13, EAN-8, Interleaved 2 of 5, UPC-A, UPC-E, Code 39, Code 128, and POSTNET. See the barcode commands below:

| ESC ( B      |     | Select Barcode Printing |    |   |   |
|--------------|-----|-------------------------|----|---|---|
| Format:      |     |                         |    |   |   |
| ASCII code:  | ESC | (                       | B  | m | n |
| Decimal:     | 27  | 40                      | 66 | m | n |
| Hexadecimal: | 1B  | 28                      | 42 | m | n |



#### Function:

ESC ( B n1 n2 k m s v1 v2 c data

$n = (n1 + (256 \times n2))$

k: Select barcode

k = 0: EAN-13, 1: EAN-8, 2: Interleaved 2 of 5, 3: UPC-A,  
4: UPC-E, 5: Code 39, 6: Code 128, 7: POSTNET

m: Module width (120 dpi)

m = 2: 2 dots, 3: 3 dots, 4: 4 dots, 5: 5 dots

s: Space adjustment value

$-3 \leq s \leq 3$  (1/240-inch units)

v1, v2: Bar length

$v1 + v2 \times 256$  (1/72-inch units)

#### Note:

- ☐ The v1 and v2 values are ignored when POSTNET is selected.
- ☐ The long bar length of POSTNET is always 0.125 inches; the short bar length is always 0.050 inches.

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**Roll paper:**

**rear entry with optional roll paper holder only**

Width

216 ± 3 mm (8.5 ± 0.12 inches)

Thickness

0.07 to 0.09 mm (0.0028 to 0.0035 inches)

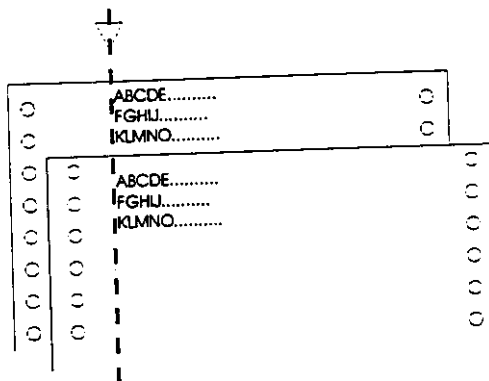
Weight

52 to 82 g/m<sup>2</sup> (14 to 22 lb)

### ***Paper alignment***

**Front entry**

Printing starts at the arrow mark. The unprintable area is to the left of the arrow mark.



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## ***Character Tables***

You can select the character tables shown in this section using the printer's default-setting mode or with software commands.

**Note:**

- ☐ *Most of the character tables are the same as the PC 437 table for hex codes 00 through 7F; only the characters for hex codes 80 through FF are shown for these tables.*
- ☐ *The character tables with an asterisk (\*) after the table name are available only in some countries.*



### ***PC 437 (US Standard Europe)***

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Proof Sign-off:

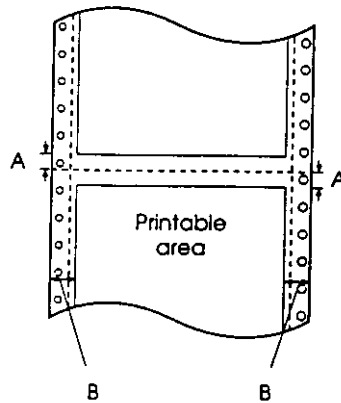
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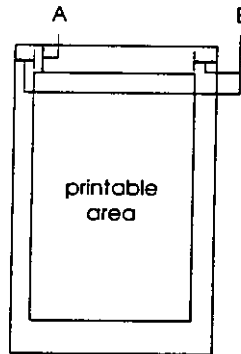
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Continuous paper:



- A The minimum top and bottom margins above and below the perforation are 4.2 mm (0.17 inches) each.  
B The minimum left and right margins are 13 mm (0.51 inches) each.  
The maximum printable width is 203.2 mm (9.1 inches).  
The maximum width is 254 mm (10.0 inches) and  
The maximum printable width is 203.2 mm (9.1 inches).  
For continuous paper wider than 229.2 mm (9.0 inches), the side margins increase proportionally to match the width of the paper.

Roll paper:



- A The minimum top margin is 4.2 mm (0.17 inches).  
B The minimum left margin is 3.0 mm (0.12 inches).  
The minimum right margin is 3.0 mm (0.12 inches).  
The maximum printable width is 203.2 mm (8.0 inches).

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*Abicomp*

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## ***Command Lists***

Your printer supports the following EPSON ESC/P control codes and IBM 2391 Plus emulation control codes.

### ***EPSON ESC/P control codes***

Selecting an EPSON ESC/P printer in your software allows you to use advanced fonts and graphics handling.

General operation:

ESC @, ESC U, ESC EM

Paper feeding:

FF, LF, ESC 0, ESC 1, ESC 2, ESC 3, ESC A, CR

Page format:

ESC (C, ESC C, ESC C 0, ESC Q, ESC I, ESC (c, ESC N, ESC O, ESC (U

Print position motion:

ESC \$, ESC ¥, ESC D, HT, ESC B, VT, ESC J

Font selection:

ESC k, ESC x, ESC y, ESC P, ESC M, ESC g, ESC p, ESC 4, ESC 5,  
ESC E, ESC F, ESC !

Font enhancement:

ESC W, DC4, SO, DC2, SI, ESC w, ESC G, ESC H, ESC T, ESC S, ESC -

Spacing:

ESC Space

Character handling:

ESC t, ESC (t, ESC R, ESC %, ESC &, ESC :, ESC I, ESC 6, ESC 7

Bit image:

ESC K, ESC L, ESC Y, ESC Z, ESC \*, ESC ^

Bar code:

ESC (B

Production:

ESC I

Proof Sign-off:

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**PC 858**

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**ISO 8859-15**

**PC 437 Greek\***

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&lt;Kimura&gt;

&lt;Crestec&gt;

c: Control flag

Bit 0 = Check digit

0: The printer does not add a check digit.

1: The printer adds a check digit.

Bit 1 = Human readable character (HRC)

0: The printer adds the HRC.

1: The printer does not add the HRC.

Bit 2 = Position of flag character (for EAN-13 and UPC-A only)

0: Center

1: Under

Bits 3-7 = Not used

**Barcode data**

Barcode data corresponds to the barcode symbology. The data number of each barcode type is constant. The barcode is printed only if the following valid characters are set.

| Barcode type       | Number of valid characters 1 (HEX) | Number of valid characters 2 (HEX) |
|--------------------|------------------------------------|------------------------------------|
| EAN-13             | 0D                                 | 0C                                 |
| EAN-8              | 8                                  | 7                                  |
| Interleaved 2 of 5 | 2 to FF                            | 2 to FF                            |
| UPC-A              | 0C                                 | 0B                                 |
| UPC-E              | 0C or 8                            | 0B or 7                            |
| Code 39            | 1 to FF                            | 1 to FF                            |
| Code 128           | 2 to FF                            | 2 to FF                            |
| POSTNET            | 6 or 0A or 0C                      | 5 or 9 or 0B                       |

Number of valid characters 1: Control flag c b0=0

Number of valid characters 2: Control flag c b0=1

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R

*PC 866 (Russian)\**

C

*PC 869 (Greek)\**

*MAZOWIA (Poland)\**

L

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### ***IBM 2380 Plus emulation control codes***

This printer emulates an IBM Proprinter using the commands below. For detailed information, see the IBM 2380 Plus reference manual.

**General operation:**

NUL, DC3, ESC j, BEL, CAN, DC1, ESC Q, ESC [ K, ESC U, ESC [ F

**Paper feeding:**

FF, LF, ESC 5, ESC A, ESC 0, ESC 1, ESC 2, ESC 3, CR, ESC ]

**Page format:**

ESC C, ESC C0, ESC X, ESC N, ESC O, ESC 4

**Print position motion:**

ESC d, ESC R, ESC D, HT, ESC B, VT, ESC J

**Font selection:**

DC2, ESC P, ESC :, ESC E, ESC F, ESC I, ESC [ d, ESC [ I

**Font enhancement:**

DC4, SO, ESC SO, ESC W, ESC [ @, SI, ESC SI, ESC G, ESC H, ESC T,  
ESC S, ESC -, ESC \_

**Spacing:**

BS, SP

**Character handling:**

ESC 6, ESC 7, ESC [ T, ESC ^, ESC ¥

**Bit image:**

ESC K, ESC L, ESC Y, ESC Z

**Barcode:**

ESC {f, ESC [p

**Download (only in Draft mode):**

ESC =

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**PC 774 (LST 1283: 1993)\***

**Estonia (Estonia)\***

C

**ISO 8859-2\***

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**PC 850 (Multilingual)**

**PC 860 (Portuguese)**

**PC 863 (Canadian-French)\***

**PC 865 (Nordic)**

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*PC 720 (Arabic)\**

*PC AR 864 (Arabic)\**

C

*Italic table*

No character is available  
for hex code 15 in the  
Italic table

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***Roman 8***

***ISO Latin 1***

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## Appendix D

### **Customer Support Information**

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**PC 853 (Turkish)\***

**PC 855 (Cyrillic)\***

**PC 852 (East Europe)\***

**PC 857 (Turkish)\***

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### **Automated telephone services**

| Service                | Access                                                                                                                            |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| EPSON SoundAdvice™     | For pre-recorded answers to commonly asked questions about EPSON products 24 hours a day, seven days a week, call (800) 442-2110. |
| EPSON FaxAdvice™       | Access EPSON's technical information library by calling (800) 442-2110. You must provide a return fax number to use this service. |
| EPSON Referral Service | For the location of your nearest Authorized EPSON Reseller or Customer Care Center, call (800) 442-2110.                          |

EPSON also provides technical support and information on the installation, configuration, and operation of EPSON products. Dial (800) 922-8911, (310) 782-2600 (U.S.), or (905) 709-9475 (Canada), 6 A.M. to 6 P.M., Pacific Time, Monday through Friday.

D

Before you call, please have the following information ready:

- ☐ Product name
- ☐ Product serial number
- ☐ Computer configuration
- ☐ Description of the problem

You can purchase ink cartridges, paper, manuals, accessories, and parts from EPSON Accessories at (800) 873-7766 (U.S. sales only). In Canada, please call (800) 873-7766 for dealer referral.

**Note:**

*If you need help using software with an EPSON product, see the documentation for that program for technical support information.*

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**Code MJK (CSFR)\***

**ISO 8859-7\***

**ISO Latin 1 T (Turkish)\***

**Bulgaria (Bulgarian)\***

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## ***Faxon EPSON***

Contact Faxon EPSON Faxback Service for:

- ☐ Literature and specifications on the latest EPSON products
- ☐ Support information including troubleshooting tips, switch settings and driver information

To use Faxon EPSON, call 01442 227332 using a touch-tone phone. You will be asked to follow a simple routine to register your document request and once you have entered your telephone and fax numbers, Faxon EPSON will fax a copy of the document catalogue to your fax machine.

When you have found the documents that you need in the catalogue, call Faxon EPSON again and enter the document ID numbers. The documents will be faxed to you automatically.

D

## ***EPtec - Bulletin Board Service for latest drivers and utilities***

You can call the EPSON Bulletin Board Service on 01442 227479. Membership is not required. Make sure that your communications software is set to 8 data bits, 1 stop bit, no parity bit, ANSI terminal mode emulation and a modem speed of up to 28.8 Kbps. Downloading protocols supported include Xmodem, Ymodem and Zmodem. See the documentation that came with your communications software and modem for more information.

When you first connect to the Bulletin Board Service, you will be asked for your name, company name, phone number and a password (which you can invent yourself).

## ***World Wide Web***

If you can connect to the Internet and have a Web browser, you can access EPSON's World Wide Web site at <http://www.epson.com>. Here you will find information on the latest EPSON products, software drivers, and answers to frequently asked questions.

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**PC 866 LAT. (Latvian)\***

**PC 866 UKR (Ukranian)\***

**PC APTEC (Arabic)\***

**PC 708 (Arabic)\***

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## ***EPSON Helpdesk***

EPSON Helpdesk is provided as a final backup to make sure our clients have access to advice. Operators on the Helpdesk can aid you in diagnosing hardware and software problems. They can also advise you on the latest EPSON products and where the nearest dealer or service agent is located. Many types of queries are answered here.

The Helpdesk numbers are:

Phone: (02) 9903 9040

Fax: (02) 9903 9189

We encourage you to have all the relevant information on hand when you ring. The more information you prepare, the faster we can help solve the problem. This information includes the *User's Guide* for your EPSON product, type of computer, operating system, application programs, and any other information you feel is required.

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## ***For Singapore Users***

Contact the telephone and fax numbers below:

Phone: (065) 337-7911

Fax: (065) 334-1185

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### ***International character sets for the Italic table***

You can select one of the following eight international character sets for the Italic character table shown below using the default-setting mode or the ESC R command. For example, when you select "Italic France," the characters in the "France" row are used in the Italic character table.

You can select one of the following seven additional sets only with the ESC R command.

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### ***For Philippines Users***

To obtain technical support as well as other after sales services, users are welcome to contact the EPSON Philippines Representative Office at the telephone and fax numbers below:

Phone: (632) 813-6552  
Fax: (632) 813-6545  
BBS: (632) 814-0595

D

## ***Contacting Customer Support***

If your printer is not operating properly and you cannot solve the problem using the troubleshooting information in Chapter 7, contact customer support services for assistance. See the section for your country below.

We will be able to help you much more quickly if you give us the following information:

- ☐ Printer model
- ☐ Serial number of your printer  
(The serial number label is on the back of the printer.)
- ☐ Brand and model of your computer:
- ☐ Printer software version  
(Click the About button in your printer driver.)
- ☐ Windows version (for example, NT, 98, 95, or 3.1)
- ☐ Software application(s) you normally use with the printer and their version number(s)

## ***For North American Users***

If you purchased your printer in the United States or Canada, EPSON provides customer support through the following services:

### ***Electronic support services***

| Service                    | Access                                                                                                                                                                                                                               |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| World Wide Web             | From the Internet, you can reach EPSON's home page at <a href="http://www.epson.com">http://www.epson.com</a> .                                                                                                                      |
| EPSON Internet FTP Site    | If you have Internet FTP capability, use your Web browser (or other software for FTP downloading) to log onto <a href="ftp.epson.com">ftp.epson.com</a> with the user name <b>anonymous</b> and your e-mail address as the password. |
| EPSON Download Service     | You can call the EPSON Download Service at <b>(800) 442-2007</b> . Set your communications software to 8 data bits, 1 stop bit, no parity. Modem speed can be up to 28.8 Kbps.                                                       |
| EPSON Forum on CompuServe® | Members of CompuServe can type <b>GO EPSON</b> at the menu prompt to reach the Epson America Forum. For a free introductory CompuServe membership, call <b>(800) 848-8199</b> and ask for representative #529.                       |

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## **Glossary**

### **ASCII**

American Standard Code for Information Interchange. A standardized coding system for assigning numeral codes to letters and symbols.

### **auto line feed**

When this option is turned on in the default-setting mode or the EPSON Remote! utility, each carriage return (CR) code is automatically followed by a line feed (LF) code.

### **bidirectional printing**

Printing in which the print head prints in both directions (bidirectionally), from left to right and then right to left. This increases the print speed but may reduce precise vertical alignment. Bidirectional printing is the printer's standard printing mode. See also *unidirectional printing*.

### **buffer**

The portion of the printer's memory used to store data before it is printed.

### **character table**

A collection of letters, numbers, and symbols that provides you with the set of characters used in a particular language.

### **characters per inch (cpi)**

The number of characters that can fit in one inch of a text line, determined by the size of the characters. See also *pitch*.

### **continuous paper**

Paper that has sprocket-feed holes on both long edges, is perforated between pages, and is supplied in a folded stack. Also called *fanfold paper*.

### **control codes**

Special codes used to control printer function, such as a carriage return or line feed, instead of printing characters.

### **cpi**

See *characters per inch*.

### **cut-sheet feeder**

An optional, detachable device that automatically feeds single sheets of paper into the printer.

### **data dump**

See *hex dump*.

### **default**

A value settings or settings that take effect when a device (such as a printer) is turned on, reset, or initialized. See also *factory settings*.

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## ***For United Kingdom and the Republic of Ireland Users***

If you purchased your printer in the UK or the Republic of Ireland, Epson (UK) Limited provides a range of customer services and technical support.

**Note:**

*For customers in the Republic of Ireland, please use the correct dialing codes when dialing the UK telephone numbers listed in the following sections. For example the Enquiry Desk fax number, 01442 227271, should be dialed as 0044 1442 227271 from the Republic of Ireland.*

### ***Enquiry Desk***

The Enquiry Desk team can be contacted by calling 0800 220546 in the UK or 1 800 409132 from the Republic of Ireland, by faxing 01442 227271, or via the Internet at [info@epson.co.uk](mailto:info@epson.co.uk). They can provide the following information:

- ☐ Information and literature on new EPSON products (also available from Faxon EPSON)
- ☐ Where to purchase genuine EPSON consumables, accessories and options

### ***Customer Support***

Our Customer Support team can provide the following services:

- ☐ Technical information on installing, configuring, and operating your EPSON products
- ☐ Arranging for faulty EPSON products to be repaired within the warranty period

For information on contacting our Customer Support team, please see the Service and Support Information booklet that came with your EPSON product.

If this booklet is not available, details can be found on Faxon EPSON faxback service, EPtec Bulletin Board Service or on EPSON's World Wide Web site. See below for details.

**interface**

The connection (via a cable) between the computer and the printer through which print data is transmitted to the printer.

**initialization**

Returns the printer to its default settings (a fixed set of conditions).

**landscape**

Printing that is oriented sideways on the page. This orientation gives you a page that is wider than it is high and is useful for printing spreadsheets. See also *portrait*.

**line feed (LF)**

A control panel button and control code that advance the paper one line space.

**micro adjust**

A printer feature that allows you to precisely adjust the tear-off and top-of-form positions.

**near letter quality(NLQ)**

The print mode used by your printer when you select Roman or Sans Serif as the font. Printing with near letter-quality fonts provides better readability and appearance at a reduced print speed. See also *draft* and *high-speed draft*.

**paper positions**

There are three paper positions for continuous paper printing: *standby*, *tear-off*, and *top-of-form*. For single-sheet printing, there is only the *top-of-form* position. See also *standby position*, *tear-off position*, and *top-of-form position*. For detailed information on these positions, see "Paper positions" on page 5 of the Glossary.

**pitch**

The size of the font, which is measured in the number of character per inch (cpi). The standard is 10 cpi. See also *character per inch*.

**platen**

The black roller that provides a backing for the paper during printing.

**portrait**

Printing that is oriented upright on the page (as opposed to landscape, in which printing is sideways on the page). This is the standard orientation for printing letters or documents. See also *landscape*.

**printable area**

The area of a page on which the printer can print. It is smaller than the physical size of the page because of margins.

**printer driver**

A software program that sends commands for using the functions of a particular printer.

**reset**

To return a printer to its default settings.

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## ***For Australian Users***

EPSON Australia wishes to provide you with a high level of Customer Service. As well as this *User's Guide*, we provide the following sources for obtaining information:

### ***EPSON FAXBACK***

EPSON FAXBACK will fax you the latest specifications and pricing for most EPSON products offered in Australia. There is also technical information including details of the latest software and drivers available. Phone (02) 9903 9075 and the system will guide you through a number of choices before faxing the information to your fax machine.

### ***EPSON Bulletin Board System***

This is where you can download the latest software and drivers. Visit the BBS to check out the latest versions. If you have a modem, phone (02) 9417 5090.

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### ***Internet URL <http://www.epson.com.au>***

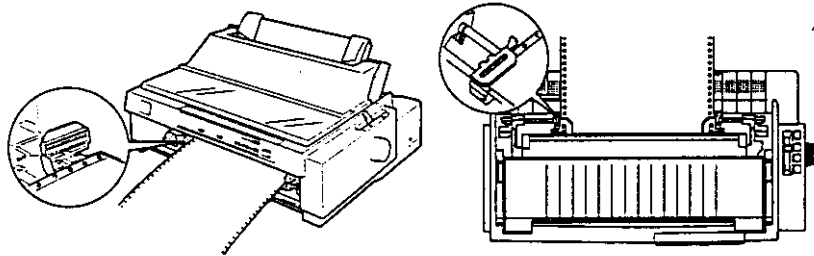
Access the Epson Australia World Wide Web pages. Worth taking your modem here for the occasional surf! You can get the same information as offered on the EPSON FAXBACK and the EPSON Bulletin Board plus more.

### ***Your dealer***

Don't forget that your dealer can often help identify and resolve problems. The dealer should always be the first call for advice on problems. They can often solve problems quickly and easily as well as give you advice on the next step to take.

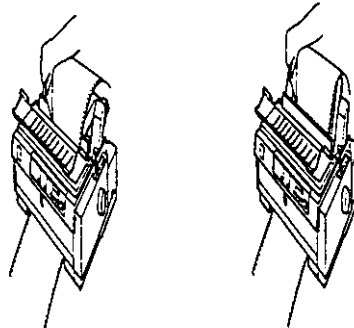
## ***Paper positions***

### ***Standby position***



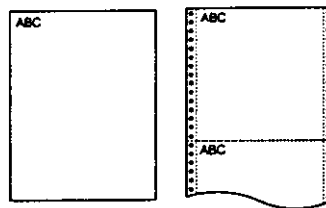
In the standby position, your paper is attached to the printer but is not inside the printer.

### ***Tear-off position***



Tear off your printed document at the printer's tear-off edge.

### ***Top-of-form position***



The letters ABC above are printed at the top-of-form position.

new13.eps

new12.eps

1-1.eps

g-e.eps

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## ***For Hong Kong Users***

To obtain technical support as well as other after-sales services, users are welcome to contact EPSON Hong Kong Limited.

### ***Internet home page***

EPSON Hong Kong has established a local home page in both Chinese and English on the Internet to provide users with the following information:

- ☐ Product information
- ☐ Answers to Frequently Asked Questions (FAQs)
- ☐ Latest versions of EPSON printer drivers

Users can access our World Wide Web home page at  
<http://www.epson.com.hk>.

### ***Electronic bulletin board system***

An electronic bulletin board system (BBS) is also available to obtain printer information and the latest versions of printer drivers. You can log onto the following number for the BBS service:

BBS: (852) 2827-4244

### ***Technical support hotline***

You can also contact our technical staff at the telephone and fax numbers below.

Phone: (852) 2585-4399

Fax: (852) 2827-4383

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**dithering**

A halftoning method in which dots are printed in a predetermined pattern to simulate a shade or tone. Dithering works best for images with solid colors, such as charts and graphs. See also *halftoning*.

**dot matrix**

A method of printing in which each letter or symbol is formed by a pattern (matrix) of individual dots.

**draft**

The print mode used by your printer when you select Draft as the font. The Draft font uses fewer dots per character for faster printing. See also *high-speed draft* and *near letter quality*.

**driver**

See *printer driver*.

**ESC/P**

Abbreviation for EPSON Standard Code for Printers, the system of commands your computer uses to control your printer. It is standard for all EPSON printers and supported by most application software for personal computers.

**factory settings**

The configuration settings for a computer or printer that are set at the factory. If the device reverts to these settings when initialized, they are called default settings, see also *default*.

**fanfold paper**

See *continuous paper*.

**font**

A style of type designated by a name such as Roman or Sans Serif.

**form feed (FF)**

A control panel button and control code that advances the paper to the next top-of-form position.

**halftoning**

A method of using dot patterns to represent an image. Halftoning makes it possible to produce varying shades of gray using only black dots, or a nearly infinite array of colors using only a few colors of dots. See also *dithering*.

**hex dump**

A troubleshooting feature that helps identify the cause of communication problems between the printer and the computer. When the printer is in hex dump mode, it prints each code that it receives in hexadecimal notation as well as in ASCII codes that stand for characters. Also called *data dump*.

**high-speed draft**

A draft printing mode you can select using the printer's default-setting mode or the EPSON Remote! utility. High-speed draft uses a minimum number of dots per character to produce extremely high-speed printing. See also *draft* and *near letter quality*.

Proof Sign-off:

<Crestec>

<Kimura>

<Crestec>

**R4C3730**

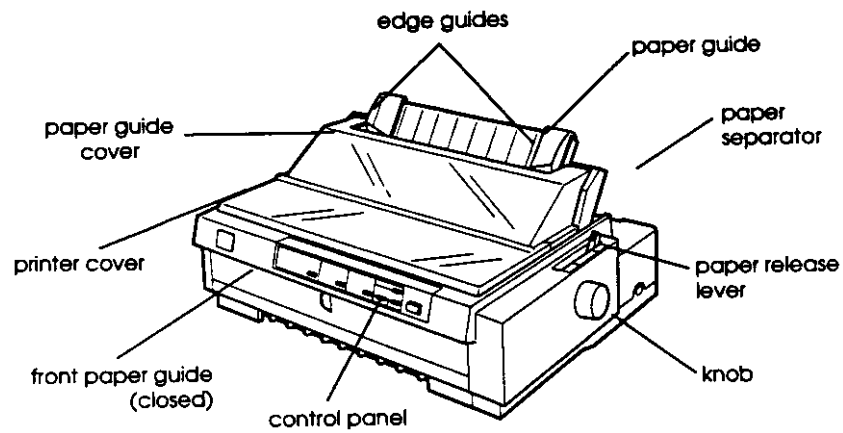
**Rev. B**

A5 size  
11/30/98

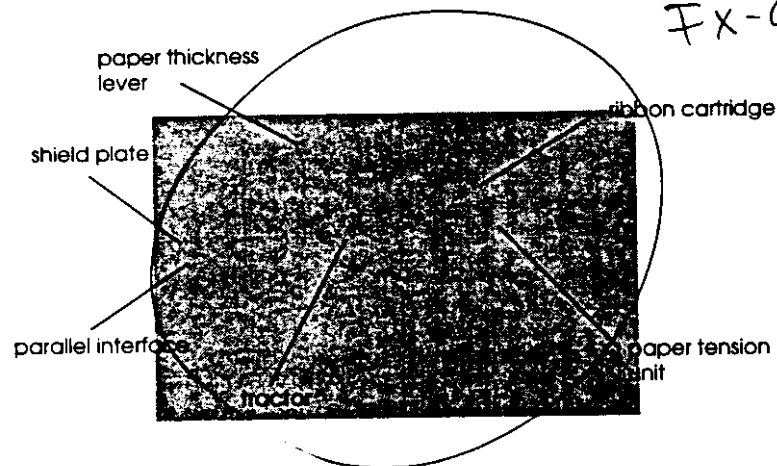
PARTS.FM  
Pass 0

R

## Printer Parts

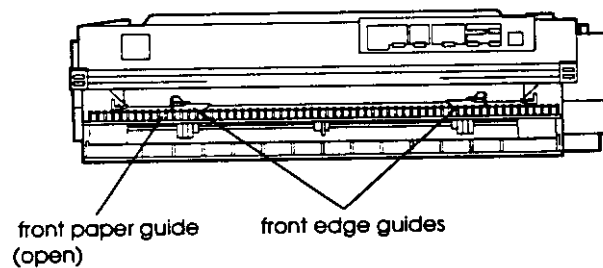


Cover\_1.eps



FX-9800の  
入れます。

Cover-2.eps



Cover-3.eps

**resolution**

A measure of the amount of detail that can be represented. Resolution of printed images is measured by using the number of dots per inch (dpi).

**self test**

A method for checking the operation of the printer. When you run the self test, the printer prints the characters stored in its ROM (Read Only Memory).

**standby position**

The position of your continuous paper when it is attached to the tractor but not loaded in the printer. See also page 5 of the Glossary.

**Tear Off Bin button**

A control panel button that feeds the perforation of continuous paper to the tear-off position. When pressed again, the paper feeds back to the top-of-form position.

**tear-off position**

The position of your continuous paper when you finish printing if the auto tear-off mode is on or if you press the Tear Off/Bin button. Using the micro adjust feature, you can adjust the tear-off position so that the paper's perforation is aligned with the printer's tear-off edge. See also page 5 of the Glossary for paper positions.

**top-of-form position**

The position on the paper that the printer recognizes as the first printable line. This is the default top margin position. See also page 5 of the Glossary for top-of-form positions.

**unidirectional printing**

Printing in which the print head prints in one direction only. Unidirectional printing is useful for printing graphics because it provides precise vertical alignment. You can select unidirectional printing using the printer's default-setting mode or the EPSON Remote! utility. See also *bidirectional printing*.



L

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