

# EPSON®

9-pin Dot Matrix Printer

# DFX-9000

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## Reference Guide

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# Chapter 1

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## **Safety Instructions**

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### **Warnings, Cautions, and Notes**



#### **Warnings**

*must be followed carefully 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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### **Hot Parts Caution Symbol**



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

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### **Important Safety Instructions**

Read all of these safety instructions before using the printer, and follow all warnings and instructions marked on the printer itself.

## ***When setting up the printer***

- ❑ Because the printer weights approximately 34 kg (75 lb), you should not lift or carry it alone. Two people should carry it by the bottom.
- ❑ 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 placed at an angle.
- ❑ Do not place this product on a soft, unstable surface like a bed or a sofa, or a small, enclosed area, as this restricts ventilation.
- ❑ Do not block or cover the slots and openings in the printer's cabinet, and do not insert objects through the slots.
- ❑ Use only the type of power source indicated on the printer's label. If you are not sure of the power supply specifications in your area, contact your local power company or consult your dealer.
- ❑ Connect all equipment to properly grounded electrical 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.
- ❑ The power cord should be placed to avoid abrasions, cuts, fraying, crimping, kinking, and other damage.
- ❑ 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 ampere of all devices plugged into the electrical outlet does not exceed the electrical outlet's ampere rating.



- ❑ Use only the power cord that comes with this product. Use of another cord may result in fire or electric shock.
- ❑ This product's power cord is for use with this product only. Use with other equipment may result in fire or electric shock.

## ***When maintaining the printer***

- ❑ Unplug the printer before cleaning it, and always clean it with a piece of damp cloth only.
- ❑ Do not spill liquid onto 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 service personnel under the following conditions:
  - i. If the power cord or plug is damaged.
  - ii. If liquid has entered the printer.
  - iii. If the printer has been dropped or the cabinet damaged.
  - iv. 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.
- ❑ If you 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.

Bei Anschluss des Druckers an die Stromversorgung muss sichergestellt werden, dass die Gebäudeinstallation mit einer 16 A-Sicherung abgesichert ist.

## ***When handling the paper***

- ❑ Never feed labels backward using the Micro Feed▼ button. When fed backward, labels can easily peel off the backing sheet and cause a paper jam.
- ❑ Because labels are sensitive to temperature and humidity, use them only under normal operating conditions:  

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

## ***When operating the printer***

- ❑ Adjust only those controls that are covered in the user documentation. Improper adjustment of other controls may result in damage requiring extensive repair by a qualified technician.
- ❑ Whenever you turn off the printer, wait at least five seconds before turning it back on; otherwise, you may damage it.
- ❑ Do not turn off the printer while it is printing the self test. Always press the **Pause** button to stop printing and then turn off the printer.
- ❑ Do not turn off the printer while it is printing the hex dump. Always press the **Pause** button to stop printing and then turn off the printer.

- ❑ Do not reconnect the power cord to an electrical outlet that has the wrong voltage for your printer.
- ❑ Never replace the print head yourself; you may damage the printer. Also, other parts of the printer must be checked when the print head is replaced.
- ❑ You need to move the print head by hand to 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.

## ***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, scanners, and multifunction devices in an effort to reduce air pollution caused by power generation. Their standards and logos are uniform among participating nations.



## Using the Two-Tractor System

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Your printer's paper handling system consists of a front push tractor and a rear push tractor. Both tractors are easy to load and operate, and both accommodate a wide variety of paper types, including labels and multi-part forms.

The printer automatically adjusts to the thickness of the paper loaded when the platen gap setting is set to Auto (the default) in SelecType mode. See "Using SelecType" on page 84 for more information.

You can print on continuous paper from 76.2 mm (3 inches) to 419.1 mm (16.5 inches) wide. Your printer senses the paper width automatically.

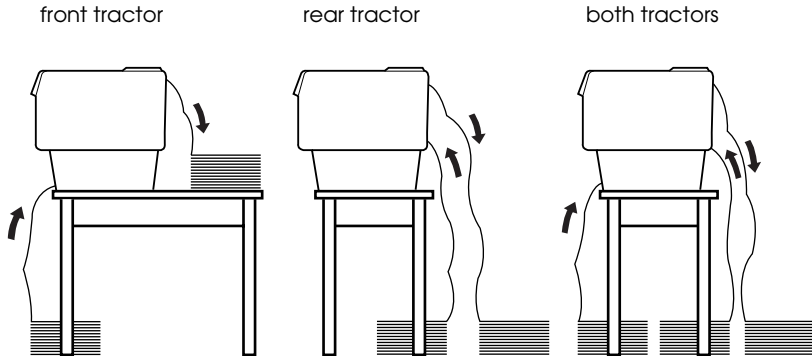
When using more than two types of paper, load the paper you use most often onto the front tractor. The front tractor, which is easier to reach, will be available for the paper you change more frequently.

**Note:**

- ❑ *Before using your paper, check that it matches the specifications described in this manual. See "Paper" on page 167 for details. Also make sure your paper has a straight edge.*
- ❑ *If continuous paper is fed past the sprocket (on the last page, for example), the paper may not feed properly.*
- ❑ *When the optional perforation cutter (#C81507X) is installed, the printable width is from 101.6 mm (4 inches) to 406.4 mm (16 inches).*

## Positioning the paper supply

You can load continuous paper from both the front and the rear, so be sure to leave enough room around the printer for the two stacks of fresh paper and for the printed stack. Make sure you align your paper supply with the paper loaded in the tractor so the paper feeds smoothly into the printer.



### Note:

- ❑ When loading paper from the front, be sure to place the paper lower than the table or stand supporting the printer. Placing the paper on the same level as the printer (or higher) may cause a paper jam.
- ❑ Make sure that your stack of printed pages does not interfere with the rear tractor's paper supply.

## ***Supported paper types***

You can use the following types of continuous paper with either the front or rear tractor:

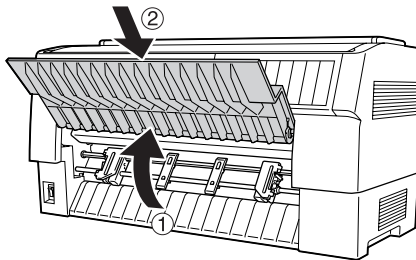
- Single-sheet continuous paper
- Multi-part continuous paper
- Labels on continuous paper
- Continuous forms with labels
- Overlapping multi-part forms

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## ***Loading Paper Onto the Front Tractor***

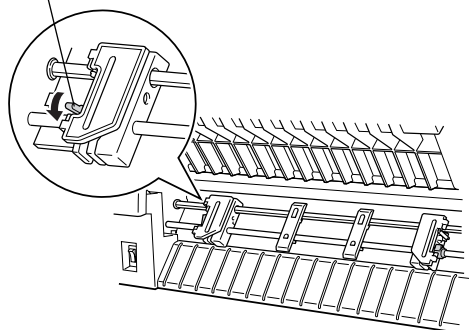
Follow these steps to load paper onto the front tractor:

1. Open the printer's front cover by lifting up the bottom edge until it locks in place, as shown below.



2. Release the sprocket lock levers on both the right and left sprockets by pulling each lever down.

sprocket lock lever

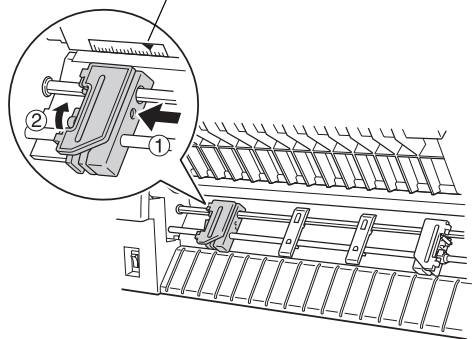


**Caution:**

*Do not try to pull on or remove the elastic cord from the tractor.*

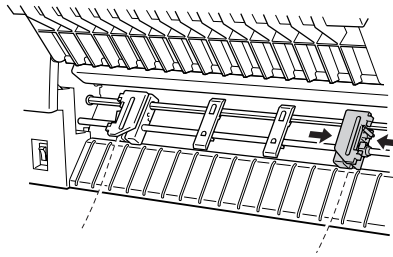
3. Position the left sprocket so that the sprocket pins are to the left of the arrow mark on the scale. Lock it into place by pushing up the sprocket lock lever.

arrow mark

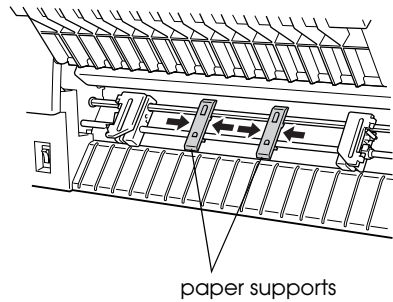




4. Now slide the right sprocket to approximately match the width of your paper. (Do not lock it in place yet.)



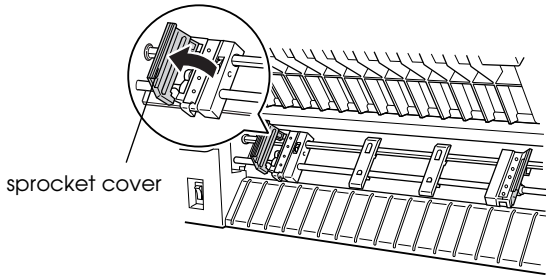
5. Slide the two paper supports so that they are spaced evenly between the two sprockets.



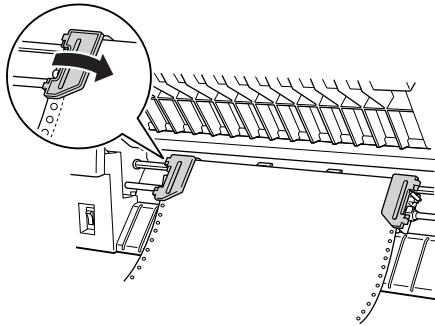
**Note:**

*To use paper that is less than four inches wide, remove the paper supports by pulling them off the tractor.*

6. Open both sprocket covers.



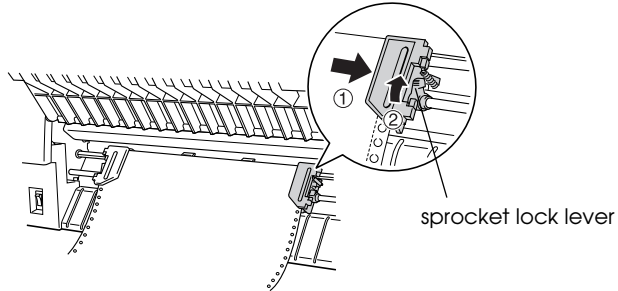
7. Be sure your paper has a clean, straight edge, and then fit the first few holes in the paper over the sprocket pins as shown below. The side of the paper that you want to print on should be facing you. Now close the sprocket covers.



**Note:**

*When loading paper from the front, be sure to place the paper lower than the table or stand supporting the printer. Placing the paper on the same level as the printer (or higher) may cause a paper jam.*

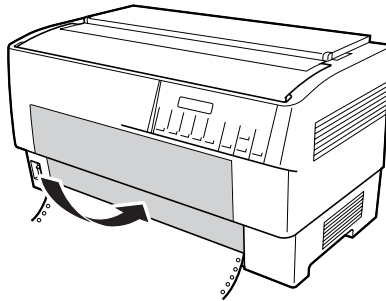
- Slide the right sprocket so that the paper is straight and has no wrinkles. Lock the sprocket in place by pushing up the sprocket lock lever. After you lock the right sprocket, it may still move slightly; this is normal.



**Note:**

*Be careful not to pull the paper too tightly when adjusting the right sprocket.*

- Pull the printer's front cover out slightly and lower it until it is closed.

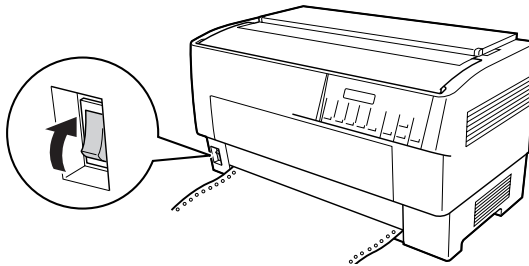




**Caution:**

- ❑ *Do not push the front cover directly down; always pull it out slightly before closing.*
  
- ❑ *Before turning on the printer, be absolutely sure you have removed all protective materials. (See the unpacking instructions that are provided with the printer for more details.) Turning on the printer while the print head cannot move may seriously damage the mechanism.*

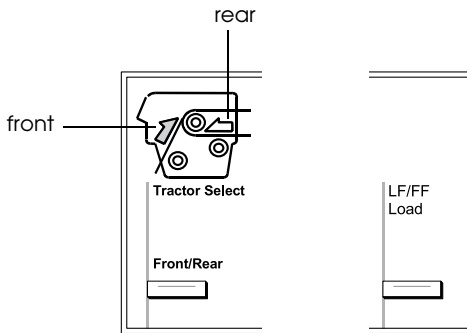
10. Turn on the printer.



You hear the print head move to the left and **Ready** appears on the LCD. Also, either the front or rear tractor arrow on the Tractor Select indicator lights up, depending on which tractor was selected when the printer was turned off last.

11. Check the Tractor Select indicator to see which tractor is selected.

If the front tractor arrow light is red, press the LF/FF Load button to load the paper.



If the rear tractor arrow light is red, press the Front/Rear button to switch to the front tractor. When the printer switches tractors, it also loads the paper automatically.

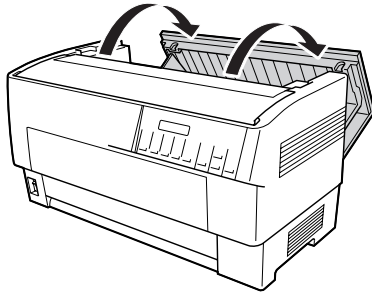
The Tractor Select indicator changes to green. The paper is now loaded to the top-of-form position. If it looks like the printing will start too high or low on the page, you can adjust the paper position. See “Adjusting the Paper Position” on page 28 for instructions.

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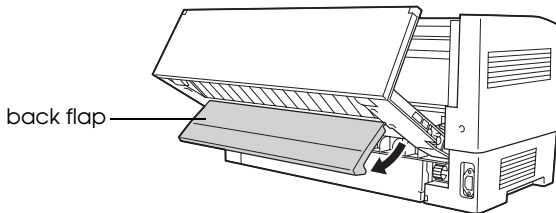
## ***Loading Paper Onto the Rear Tractor***

Follow the steps below to load paper onto the rear tractor. (You do not need to remove the paper from the front tractor first.)

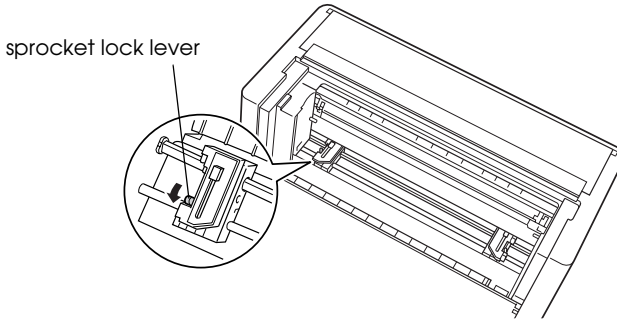
1. Open the printer's back cover.



2. Open the flap at the bottom.

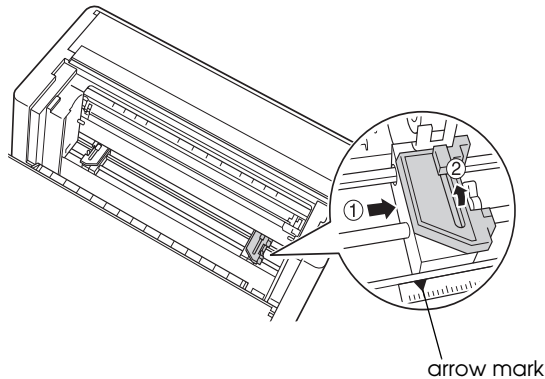


3. Release the sprocket lock levers on the rear tractor's right and left sprockets by pulling each lever forward.

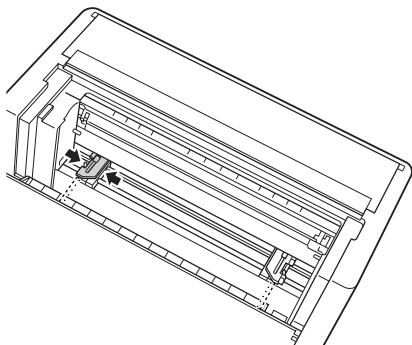


**Caution:** Do not try to pull on or remove the elastic cord from the tractor.

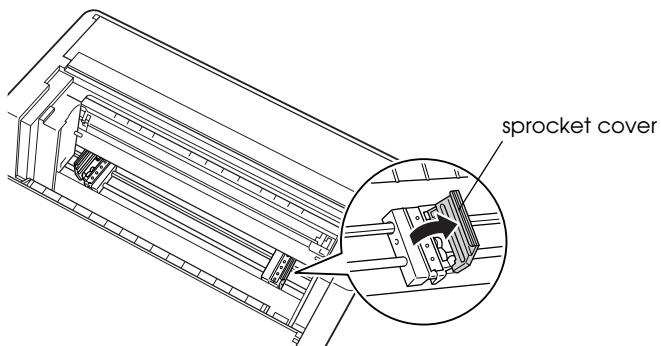
4. Position the right sprocket so that the sprocket pins are to the right of the arrow mark on the scale. Lock it in place by pushing the sprocket lock lever back.



5. Now slide the left sprocket to approximately match the width of your paper. (Do not lock it in place yet.)

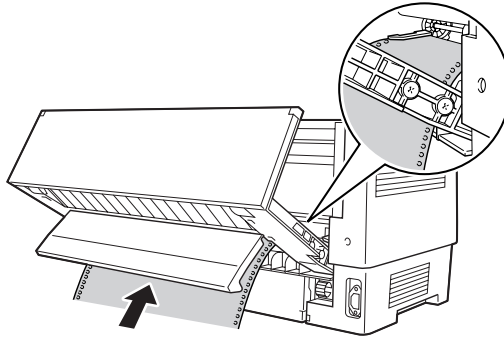


6. Open both sprocket covers.

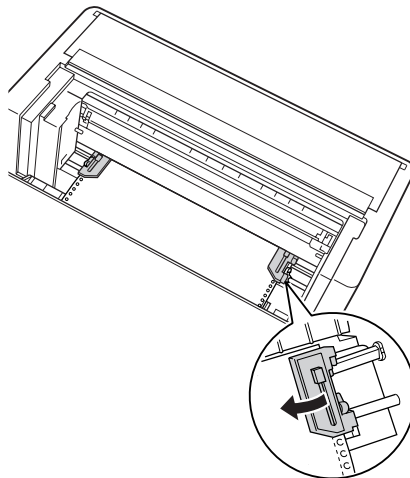




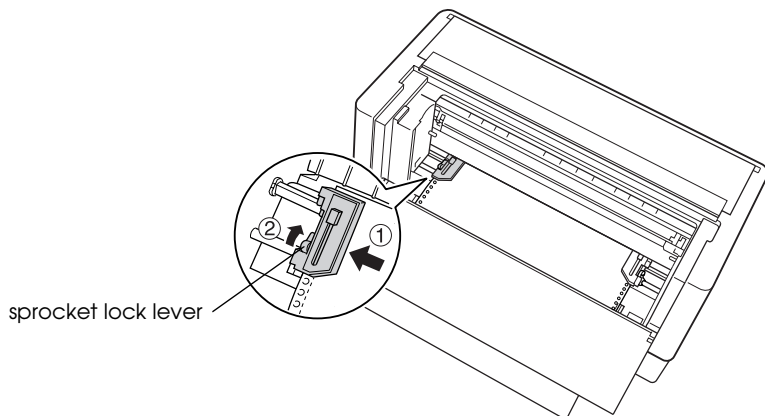
7. Make sure your paper has a clean, straight edge. With the side of the paper you want to print on facing down, feed it through the opening.



8. Fit the first few holes in the paper over the sprocket pins as shown below. Then close the sprocket covers.



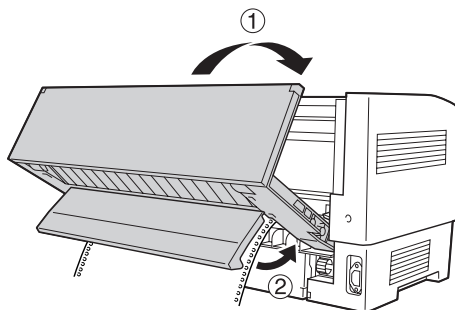
- Slide the left sprocket to remove any slack in the paper. Make sure the paper is straight and has no wrinkles. Push the sprocket lock lever back to lock the sprocket in place. After you lock the left sprocket, it may still move slightly; this is normal.



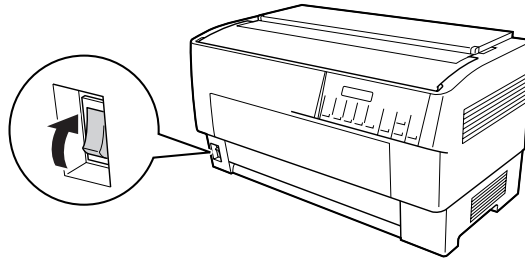
**Note:**

*Be careful not to pull the paper too tightly when adjusting the left sprocket.*

- Close the back cover and flap.



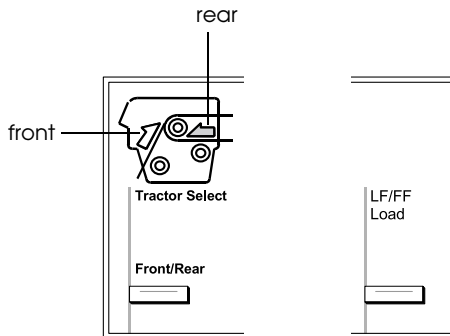
11. Turn on the printer.



You hear the print head move to the left and Ready appears on the LCD. Either the front or rear tractor arrow on the Tractor Select indicator lights up, depending on which tractor was selected when the printer was turned off last.

12. Check the Tractor Select indicator to see which tractor is selected.

If the rear tractor arrow light is red, press the LF/FF Load button to load the paper.



If the front tractor arrow light is red, press the Front/Rear button to switch to the rear tractor. When the printer switches tractors, it also loads the paper automatically.

The Tractor Select indicator changes to green. The paper is now loaded to the top-of-form position. If it looks like the printing will start too high or low on the page, adjust the paper position as described below.

---

## ***Adjusting the Paper Position***

You can adjust the top-of-form position as well as the printing position at any point on the page by using the Micro Feed, and Top of Form buttons. The printer then remembers the new top-of-form position. When you use the optional pull tractor, you can adjust the paper position as described below.

**Note:**

*The printing position (based on the top-of-form position) is controlled by your software. To change the print position, adjust your software's print settings. Use the following procedure only if your software does not allow print position adjustment.*

## Adjusting the top-of-form position

The top-of-form position is the position to which the printer feeds the paper when it loads it or performs a form feed. This position is important because it determines where the printing begins on each page. If the printing is too high or low on the page, you can adjust the top-of-form position either permanently or temporarily depending on how you use the Top of Form button.

- ❑ When you want to *permanently* change the top-of-form position, you enter the top-of-form mode using the TOP OF FORM control panel button. The printer remembers the new top-of-form position even after the printer is turned off, reset, or initialized. (The printer remembers separate top-of-form positions for the front and rear tractors.)
- ❑ When you want to *temporarily* change the top-of-form position, you adjust the position using the Micro Feed buttons without entering top-of-form mode. The printer remembers the temporary top-of-form position until the next time you load paper, switch tractors, or turn off the printer.

You can set the top-of-form position from 4.2 mm (0.17 inch) to 33.9 mm (1.33 inch) below the top edge of the paper. The default setting is 8.5 mm (0.33 inch).

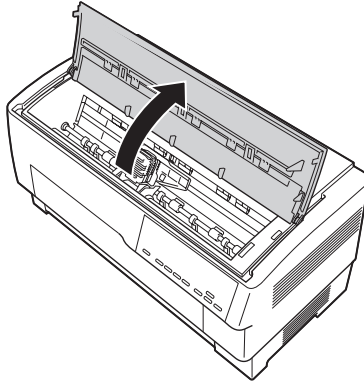
Follow the steps below to reset (permanently change) the top-of-form position.



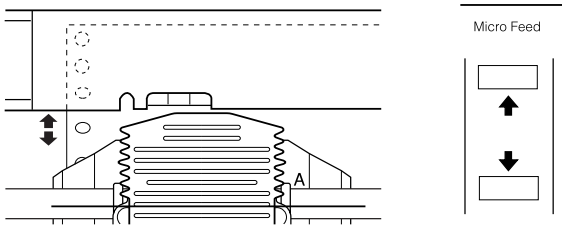
**Caution:**

*To adjust the top-of-form position when you are printing on labels, continuous forms with labels, or overlapping multi-part forms, use the Micro Feed▲ button only; do not enter the top-of-form mode. Never feed labels backward through the printer.*

1. Make sure the printer is turned on and the desired tractor is selected (the corresponding tractor arrow should be lit).
2. Open the upper cover.



3. Press the Top of Form button to enter top-of-form mode. The printer beeps once, and the Top of Form light turns on.
4. Use the Micro Feed buttons to feed the paper to the desired top-of-form position. The "A" on the ribbon protector shows you where the bottom edge of your first line of text will print. This position is based on the first printable line of text. If your software inserts a top margin of five lines, your text will actually print five lines below the top-of-form position.



5. Press the Top of Form button again to exit and save your new top-of-form position. Then close the top cover.

**Note:**

*If you enter top-of-form mode right after loading paper, you can set the loading and top-of-form positions at the same time. (When you use the optional pull tractor, you cannot adjust the loading position.)*

## **Adjusting the printing position**

You may need to adjust the printing position in the middle of a page, or to adjust the top-of-form position when using labels.

When you move the printing position, you temporarily change the top-of-form position by the same amount. For example, if you adjust the printing in the middle of the page so that it falls a half-inch lower, the next page will begin printing a half-inch lower as well. The printer remembers this temporary top-of-form position until the next time you load paper, switch tractors, or turn off the printer. To adjust the printing position or top-of-form position, follow these steps:

1. Start printing your document. When you reach the text that you want to align at a particular spot on the page, press the **PAUSE** button to stop printing.
2. Use the **Micro Feed** buttons to adjust the position where you want your next line of text to fall. Press the button once to feed the paper forward or backward in 1/216-inch increments, or hold it down to move the paper continuously.



**Caution:**

*To adjust the printing position when you are printing on labels, continuous forms with labels, or overlapping multi-part forms, use the **Micro Feed**▲ button only. Never feed labels backward through the printer. When fed backward, labels may easily peel off the backing sheet and cause a paper jam.*

3. When you are finished, press the **PAUSE** button to resume printing your document.

## ***Adjusting the label position***

To adjust the printing position for labels (for example, on a form that includes a label in addition to standard printing) you can define the label size and location using the Forms w/labels setting in Default-setting mode. By defining the position of the label, you tell the printer where it needs to raise the print head to accommodate the greater thickness as it prints over the label.

First use SelecType to turn on the Forms w/labels setting (and to define the page length, if necessary, for the paper loaded on the front or rear tractor). See page 84 for instructions.

Then use Default-setting mode as described on page 96 to choose the desired position for these settings:

- Label base position
- Label top position
- Label length
- Label left position
- Label width
- Base sheet PG (Base sheet PG position number)
- Label paper PG (Label paper PG position number)



---

## ***Tearing Off the Printed Pages***

After you finish printing, you can use the tear-off feature to advance continuous paper on the push tractor to the tear-off edge of the printer. You can then easily tear off printed sheets. When you resume printing, the printer automatically feeds paper back to the loading position.

This feature lets you save paper that would normally be lost between documents.

If the perforation between pages is not aligned with the tear-off edge, you can adjust the tear-off position using the micro-feed feature. The printer remembers this new tear-off position.



**Caution:**

*Never use the tear-off feature to reverse feed labels, overlapping multi-part forms, or continuous forms with labels.*

### ***Using the Tear Off button***

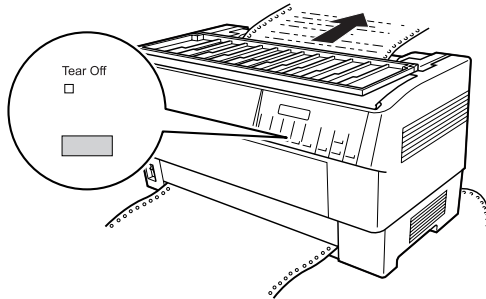
Whether or not the printer is in tear-off mode, you can use the Tear Off button to advance continuous paper to the tear-off position by following these steps:

1. Make sure printing has finished. Then press the Tear Off button. The printer advances the paper to the tear-off edge and the Tear Off light comes on.
2. Tear off all printed pages. If the perforation is not aligned with the tear-off edge, adjust the tear-off position. See “Adjusting the tear-off position” on page 34 for instructions.
3. When you resume printing, the printer feeds the paper back to the loading position and begins printing. (You can also manually feed the paper back to the loading position by pressing the Tear Off button again.)

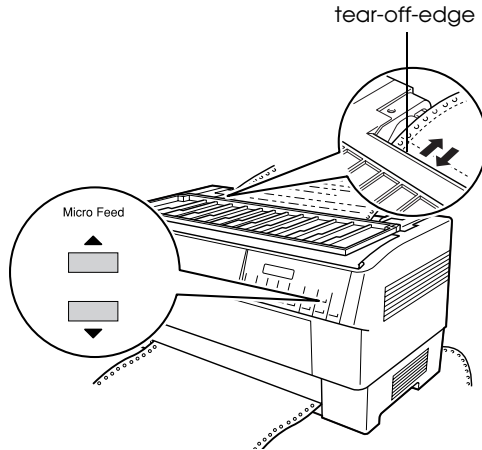
## Adjusting the tear-off position

If the paper's perforation is not aligned with the tear-off edge, follow these steps:

1. Turn on the printer and select the desired tractor.
2. Open the paper separator cover (the flap on the top part of the printer's top cover). This exposes the printer's tear-off edge.
3. Press the Tear Off button to enter the tear-off mode. The Tear Off light comes on and the printer feeds the paper's perforation to the printer's tear-off edge.



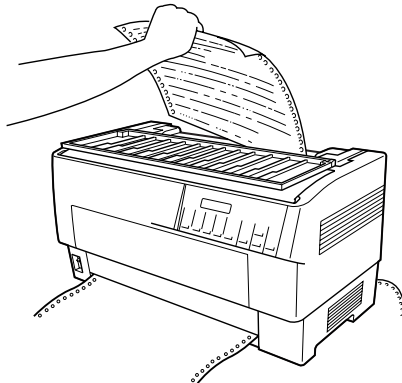
4. If the paper is not aligned with the tear-off edge, press the Micro Feed buttons to feed the paper forward or backward in 1/216-inch increments. (You can also hold down either Micro Feed button to feed the paper continuously.)



**Note:**

*You can reset the tear-off position only when you are in tear-off mode (after you press the Tear Off button once and the Tear Off light is on). The printer remembers the new tear-off position even after the printer is turned off, reset, or initialized.*

5. Tear off the page using the tear-off edge on the printer's top cover.



6. Press the Tear Off button to feed the paper back to the top-of-form position. You are now ready to print your next document.



**Caution:**

*Always tear off the printed document before you feed the paper back to the top-of-form position. Never feed paper backward more than one page.*

---

## **Switching Between Front and Rear Tractors**

You can easily switch between paper loaded on the front tractor and paper loaded on the rear tractor. The instructions below explain how to switch from the front tractor to the rear tractor, but you can follow the same steps to switch from the rear tractor to the front tractor.



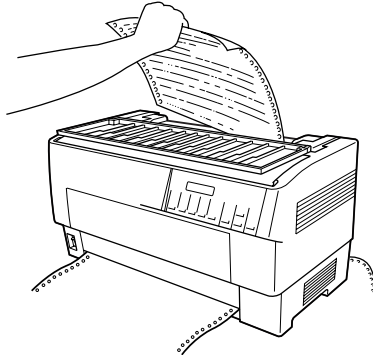
**Caution:**

*Never switch between tractors if labels are already loaded in the printer. First remove the labels by tearing off the fresh supply below the tractor and pressing LF/FF Load to eject the remaining labels.*

Before you start, make sure the printer is turned on and that the front tractor is selected (the front tractor arrow on the Tractor Select light should be on). If you are in the middle of printing a document, wait for the printer to finish printing before you switch tractors. Then follow these steps:

1. If no paper is loaded in the rear tractor, load paper to the standby position (the first five pins of the sprockets). See “Loading Paper Onto the Rear Tractor” on page 22 for instructions.

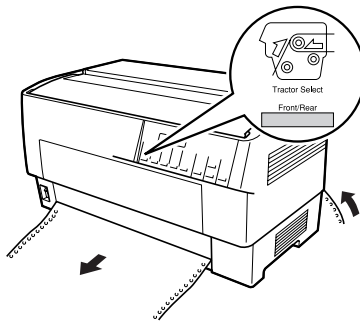
2. If you have a printed document or excess paper still in the printer, use the tear-off feature described in the previous section to tear off the document or excess paper.



**Caution:**

*Always tear off the printed document and any excess paper before switching tractors. Never feed more than one page backward through the printer.*

3. Press the Front/Rear button to switch to the rear tractor. The front-loaded paper automatically feeds back to the standby position and the rear-loaded paper advances to the top-of-form position.



---

## Changing the Paper

This section describes how to change paper on the front tractor, but you can follow the same steps when you change the paper on the rear tractor. Before you start, make sure the printer is turned on and the front tractor is selected. (If you are changing the paper on the rear tractor, select it instead.)



### **Caution:**

*Never change paper using this procedure if labels, continuous forms with labels, or overlapping multi-part forms are already loaded in the printer. Remove the labels by tearing off the fresh supply below the tractor and pressing LF/FF Load to eject the remaining labels. Then load the new paper. (See “Loading Paper Onto the Front Tractor” on page 15 or “Loading Paper Onto the Rear Tractor” on page 22) for instructions.*

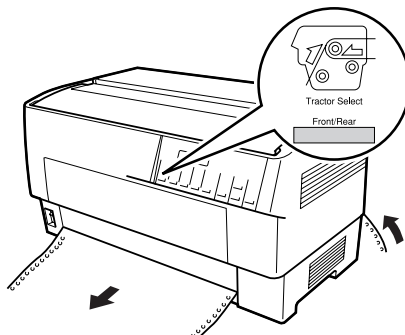
1. If you have a printed document still in the printer, use the tear-off feature to tear off the document or excess paper.



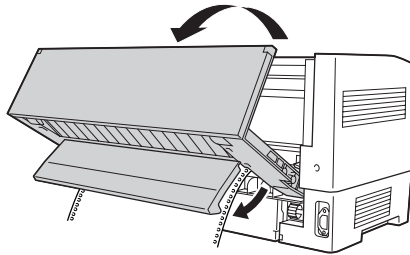
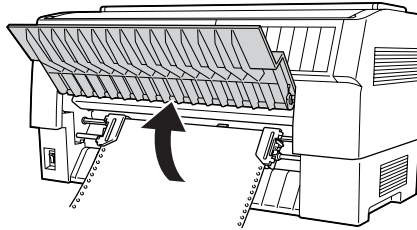
### **Caution:**

*Always tear off printed documents before changing the paper. Never feed more than one page backward through the printer.*

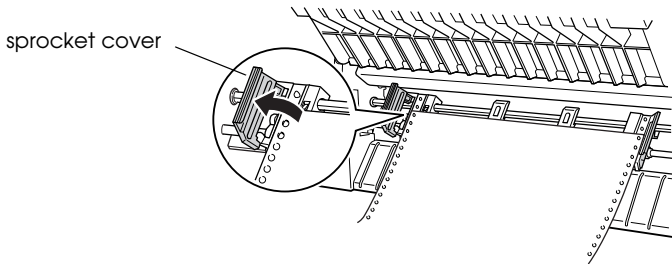
2. Press the Front/Rear button to switch to the rear tractor. The front-loaded paper automatically feeds back to the standby position.



3. Open the printer's front cover. (To change the rear-loaded paper, open the printer's back cover and flap.)



4. Open the sprocket covers and remove the paper from the tractor.



5. Load the new paper. See "Loading Paper Onto the Rear Tractor" on page 22 or "Loading Paper Onto the Front Tractor" on page 15 for instructions.

---

## **Printing on Multi-Part Forms and Labels**

Your printer can print on both single-sheet and continuous multi-part forms, as well as on labels. It can also handle a variety of paper thicknesses, from thin paper to ten sheets (or seven sheets on the rear tractor) including the original. The printer automatically adjusts to the thickness of your paper when the Platen gap setting is set to AUTO (the default) in SelecType mode. (See “Using SelecType” on page 84 for more information.)

When you print on multi-part forms and labels, the positioning of your text on the page can be critical. See “Adjusting the Paper Position” on page 28 for more information on aligning your text. You should also check both your printer and your software page length settings before you load labels or forms.

If you are using multi-part forms or labels, you may want to use the optional pull tractor. See “Using the Pull Tractor” on page 133 for details.



**Caution:**

*When printing on labels, be absolutely sure that your printing stays within the printable area of the label to prevent damage to the print head. See “Paper” on page 167 for more information on the printable area.*

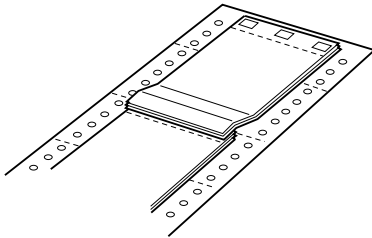


## Using multi-part forms

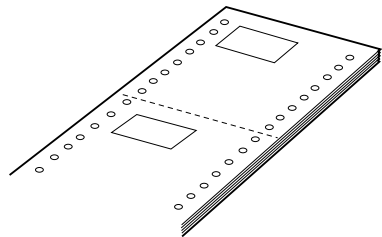
You can use multi-part (carbonless or carbon-backed) forms with up to seven sheets, including the original, on the rear tractor. On the front tractor, you can use forms with up to ten sheets.

You load continuous multi-part forms the same way you load any other type of continuous paper. Before loading multi-part forms, however, make sure the paper has a clean straight edge and does not separate or tear apart. See “Loading Paper Onto the Front Tractor” on page 15 or “Loading Paper Onto the Rear Tractor” on page 22 for instructions.

The DFX-9000 can print on multi-part forms that vary in thickness, such as forms with labels on them or forms that overlap slightly where they are glued together. These forms are thicker in the label area and in the places where they overlap or are joined together, as shown below. Before you print on forms with labels, use SelecType to make sure the Forms w/labels setting is set to On. When you use overlapping multi-part forms, set the Overlapping multipart forms setting to On and the Platen gap setting to 0 to 14, depending on the paper thickness you are using. See “Changing the settings in SelecType mode” on page 94 for details.



Overlapping multi-part forms



Continuous forms with labels

When you print on these forms, make sure that the printing fits within the printable area and that the top-of-form position is set properly. See “Paper” on page 167 for more information about the printable area.

## **Using labels**

When selecting labels for printing, always choose the type mounted on continuous paper with sprocket holes for use with a tractor.



**Caution:**

*Never use the Tear Off, Front/Rear, or Micro Feed▼ button when labels are loaded in the printer. Never feed labels backward through the printer because they can easily come off the backing and jam the printer.*

Although you must never feed labels backward, you can still use the automatic paper handling features if you follow these precautions:

- ❑ Instead of using the Tear Off button to remove printed labels, press the LF/FF Load button until the last printed label is at the point where you can tear it off easily.
- ❑ Before using the Front/Rear button to switch tractors or change paper, remove the entire supply of labels. Remove labels by tearing off the fresh supply at a perforation below the tractor. Then press the LF/FF Load button to eject the remaining labels.
- ❑ When adjusting the top-of-form or printing position, use only the Micro Feed▲ button.



**Caution:**

*Because labels are especially sensitive to extreme temperatures and humidity, use them only under normal operating conditions.*

## About Your Printer Software

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The Epson software includes the printer driver software and EPSON Status Monitor 3.

The 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.

Epson Status Monitor 3 allows you to monitor the status of your printer, alerts you when errors occur, and provides you with troubleshooting tips. Status Monitor 3 is automatically installed when you install the printer driver.

**Note:**

- ❑ *Network printers cannot be monitored with EPSON Status Monitor 3 in Windows® 95.*
- ❑ *Before proceeding, make sure you have installed the printer driver on your computer described in the User's Guide.*
- ❑ *Make sure the software setting is set to ESC/P.® The printer driver software and EPSON Status Monitor 3 can function only in ESC/P mode.*

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## **Using the Printer Driver with Windows Me, 98, and 95**

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” on page 45 for more information.

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 47 for more information.

See “Changing the Printer Settings” on page 53 to check and change printer driver settings.

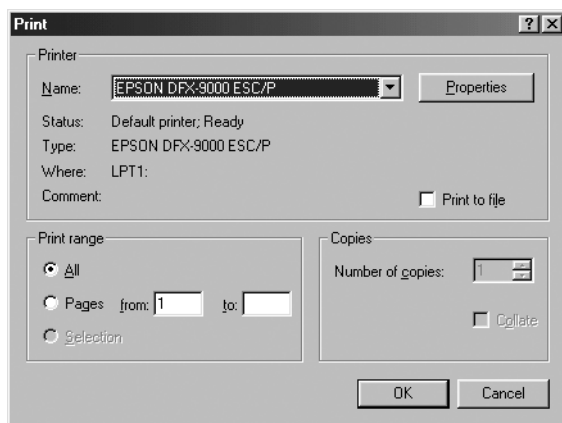
**Note:**

*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

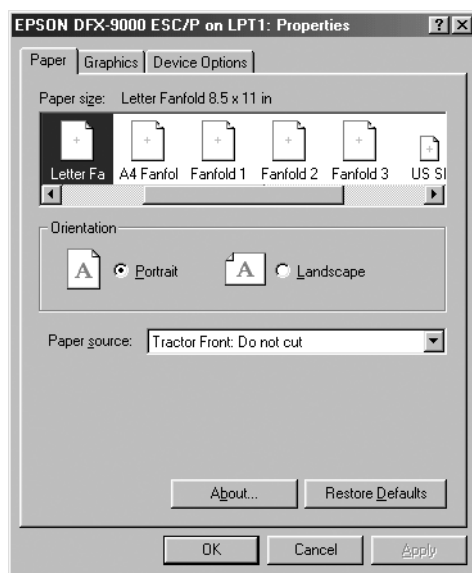
Follow these steps to access the printer driver from a Windows application:

1. Select Print Setup or Print from the File menu of your application software. In the Print or Print Setup dialog box displayed, make sure that your printer is selected in the Name drop-down list.



2. Click Printer, Setup, Properties, or Options. (The button you click depends on your application and you may need to click a combination of these buttons.)

The Properties window appears, and you see the Paper menu and tabs for the Graphics and Device Options menus. These menus contain the printer driver settings.



3. To view a menu, click the corresponding tab at the top of the window. See “Changing the Printer Settings” on page 53 for information on how to change the settings.

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

Follow these steps to access the printer driver from the Start menu:

1. Click the Start button, point to Settings, and click Printers.
2. Right-click your printer icon, and click Properties. The screen displays the Properties window, which contains the Paper, Graphics, Device Options, and Utility menus. These menus display the printer driver settings.
3. To view a menu, click the corresponding tab at the top of the window. See “Changing the Printer Settings” on page 53 for information on how to change the settings.

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## ***Using the Printer Driver with Windows XP, 2000, and 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” on page 48 for more information.

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 50 for more information.

To check and change printer driver settings, see “Changing the Printer Settings” on page 53.

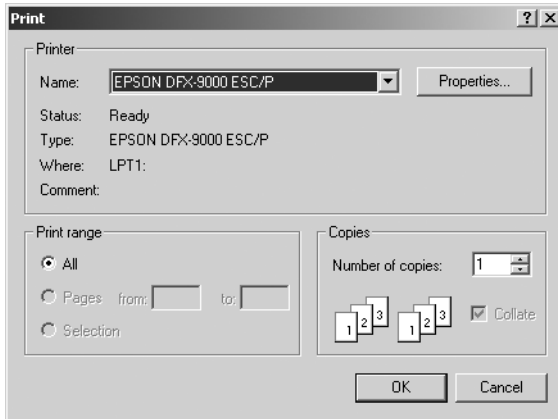
**Note:**

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

Follow these steps to access the printer driver from a Windows application:

1. Select Print Setup or Print from the File menu of your application software. In the Print or Print Setup dialog box displayed, make sure that your printer is selected in the Name drop-down list.

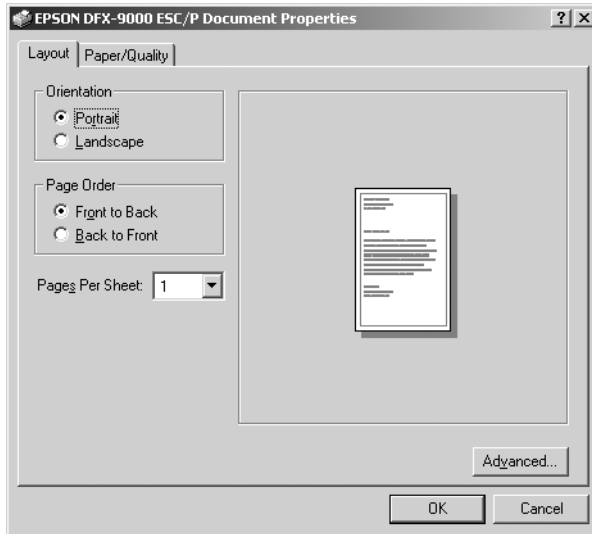


**Note:**

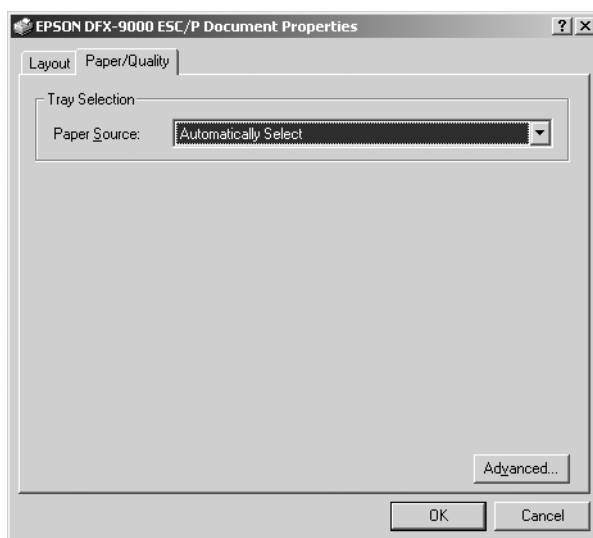
The examples in this section are from the Windows 2000 operating system. They may vary in appearance from what actually appears on your screen; however, the instructions are the same.



2. Click Printer, Setup, Properties, or Options. (The button you click depends on your application and you may need to click a combination of these buttons.) The Document Properties window appears, and you see the Layout and Paper/Quality menus. These menus contain the printer driver settings.



3. To view a menu, click the corresponding tab at the top of the window. See “Changing the Printer Settings” on page 53 to change the settings.



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

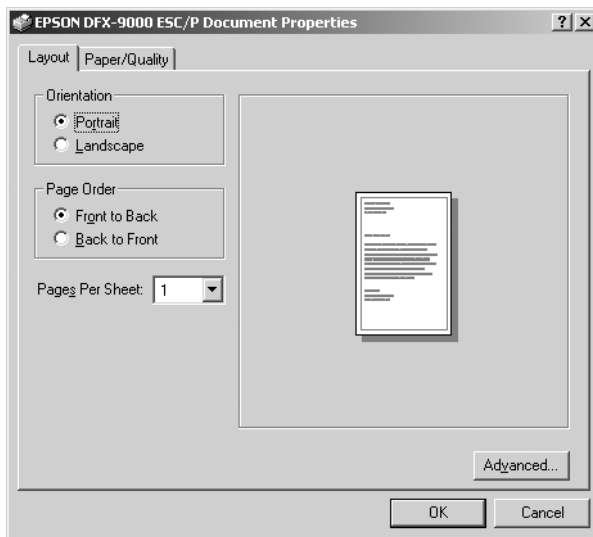
Follow these steps to access the printer driver from the Start menu:

1. For Windows 2000 or NT<sup>®</sup> 4.0, click Start, point to Settings, and click Printers.

For Windows XP Professional, click Start, then click Printers and Faxes.

For Windows XP Home Edition, click Start, point to Control Panel, and click Printers and Faxes.

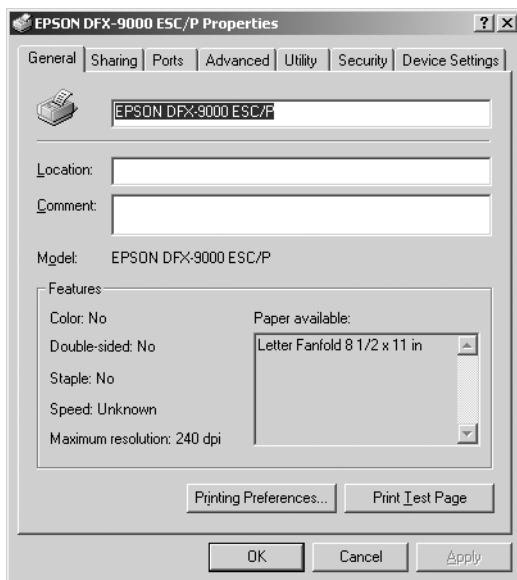
2. Right-click your printer icon, and click Printing Preferences (in Windows XP or 2000) or Document Defaults (in Windows NT 4.0). The screen displays the Default Document Properties window, which contains the Layout and Paper/Quality menus. These menus display the printer driver settings.



**Note:**

*The example screens are from the Windows 2000 operating system. They may vary in appearance from what actually appears on your screen; however, the instructions are the same.*

When you click Properties in the menu displayed by right-clicking the printer icon, the Properties window appears, which includes menus used to make the printer driver settings.



3. To view a menu, click the corresponding tab at the top of the window. See "Changing the Printer Settings" on page 53 for information on how to change the settings.

---

## Changing the Printer Settings

The following tables show the settings you can change for your printer through the printer driver. Note that not every setting is available in all versions of Windows.

Change any settings as necessary, then click OK to apply the settings. (If you need to cancel your changes, click Cancel or Restore Defaults.)

### Printer settings

Settings	Explanations
Paper Size	Select the size of the paper you want to use. If you do not see your paper size, use the scroll bar to scroll through the list. If your paper size is not included in the list, see "Defining a Custom Paper Size" on page 55 for instructions.
Orientation	Select <b>Portrait</b> or <b>Landscape</b> .
Paper Source	Select the paper source you want to use.
Resolution/ Graphics Resolution	Select 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 <b>Fine</b> , which is the default setting, or select another dithering pattern depending on the kind of printout you want.
Intensity	Move the slider to make your printout lighter or darker.
Print Quality	Select a print quality option from the Print Quality list. If you set <b>Hi-speed</b> to <b>On</b> , the printer enters bidirectional printing mode and printing speed will increase. Setting <b>Hi-speed</b> to <b>Off</b> will return the printer to unidirectional printing mode. Printing speed will decrease, but printing precision will improve. Printing with the default settings uses the settings stored in the printer.

Settings	Explanations
Halftone Setup.../Halftone Color Adjustment...	Click this 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 the <b>Help</b> button in this dialog box.
Halftoning	Select the type of halftoning to use when printing graphics. To let the printer determine the best halftone quality, use <b>Auto Select</b> .
Printer Fonts Support	<p>Select a character table group to use. You can select one of three character table groups, <b>Standard</b>, <b>Expanded</b>, and <b>None</b> (Bit Image printing).</p> <p>When <b>Standard</b> or <b>Expanded</b> is selected, the printer uses the device fonts. <b>Expanded</b> includes more fonts than <b>Standard</b>.</p> <p>When <b>None</b> is selected, the printer uses bit map images instead of the device fonts.</p> <p>For details on which fonts are included in each table, see "Electronic" on page 164.</p>
Print Text as Graphics*	Select <b>Off</b> when the printer uses the device fonts and select <b>On</b> when the printer does not use the device fonts.
Metafile Spooling*	Select whether to use EMF spooling.
Paper Order*	Select whether to print from front to back or back to front.
Pages Per Sheet*	Select the number of pages that you want to print onto a single page.
Copy Count*	When you select more than one in the Number of copies box, this check box appears and you can select whether to collate the pages of the copies.
Advanced Printing Features*	Select <b>Enable</b> or <b>Disable</b> for the metafile Spooling.
Print Optimizations*	Select <b>Disable</b> when the printer uses the device fonts and select <b>Enable</b> when the printer uses the device fonts.

\* For details, see Windows help.

## *Defining a Custom Paper Size*

If your paper is not included in the Paper Size drop-down list, you can add the size to the list.

### **For Windows Me, 98, and 95:**

Click Custom or User Defined Size and enter the paper size in the dialog box that appears.

### **For Windows XP, 2000, and Windows NT 4.0:**

1. For Windows 2000 or Windows NT 4.0, click Start, point to Settings, and click Printers.

For Windows XP Professional, click Start, and click Printers and Faxes.

For Windows XP Home Edition, click Start, and click Control Panel, then click Printers and Faxes.

2. Click the EPSON DFX-9000 ESC/P icon.
3. Select Server Properties from the file menu.
4. Check the Create a New Form checkbox.
5. Type a name for the form in the Form name box.
6. Enter the paper size in the Form description (measurements) box.
7. Click Save From and then click OK.

## Monitoring settings

Settings	Explanations
EPSON Status Monitor 3	You can access EPSON Status Monitor 3 when you click this button. To monitor the printer, make sure the <b>Monitor the printing status</b> check box is selected.
Monitoring Preferences	Click this button to open the Monitoring Preferences dialog box where you can make settings for EPSON Status Monitor 3. See "Setting up Status Monitor 3" on page 57 for more information.

---

## Using EPSON Status Monitor 3

EPSON Status Monitor 3 allows you to monitor your printer's status, alerts you when printer errors occur, and provides troubleshooting instructions when needed.

EPSON Status Monitor 3 is available only when:

- The printer is connected directly to the host computer via the parallel port [LPT1] or the USB port.
- Your system is configured to support bidirectional communication.

Status Monitor 3 is installed when you install the printer driver as described in the *User's Guide*.

**Note:**

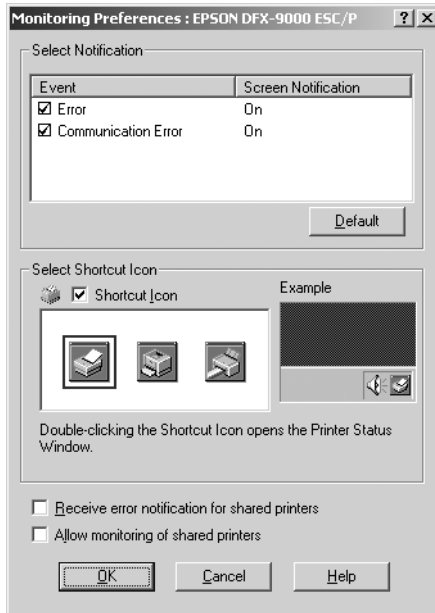
*If you install the driver using the "Point and Print" method, Status Monitor 3 may not function properly. If you want to use it, reinstall the driver as described in the User's Guide.*

Before using Status Monitor 3, be sure to read the README file on the printer software CD-ROM. This file contains the latest information on the utility.



## Setting up Status Monitor 3

1. Open the Utility menu as described on page 44 (Windows Me, 98, and 95) or page 47 (Windows XP, 2000, and Windows NT).
2. Click the Monitoring Preferences button. The Monitoring Preferences dialog box appears.



### 3. The following settings are available:

Select Notification	Displays the error item check box On/Off status. Turn on this check box to display the selected error notification.
Select Shortcut Icon	The selected icon is displayed on the taskbar. The setting's example is shown on the right window. By clicking the shortcut icon, you can access the Monitoring Preferences dialog box easily.
Receive error notification for shared printers	Error notification for a shared printer can be received when this check box is selected.
Allow monitoring of shared printer	When this check box is selected, a shared printer can be monitored by other PCs.

**Note:**

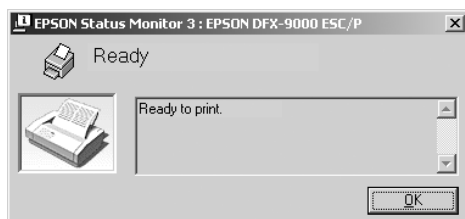
Click the Default button to restore the defaults for all the settings.

## Accessing Status Monitor 3

Do one of the following to access Status Monitor 3:

- Double-click the printer-shaped shortcut icon on the taskbar. To add a shortcut icon to the taskbar, go to the Utility menu and follow the instructions.
- Open the Utility menu, then click the EPSON Status Monitor 3 icon.

You see the following printer status window:



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# Setting Up Your Printer on a Network

## Sharing the printer

This section describes how to share the printer on a standard Windows network.

The computers on a network can share a printer that is directly connected to one of them. The computer that is directly connected to the printer is the printer server, and the other computers are the clients which need permission to share the printer with the printer server. The clients share the printer via the printer server.

Your version of Windows and your access rights on the network determine which settings you need to make for the printer server and clients.

### Setting the printer server

- For Windows Me, 98, or 95, see page 60.
- For Windows XP, 2000, or Windows NT 4.0, see page 62.

### Setting the clients

- For Windows Me, 98, or 95, see page 65.
- For Windows XP or 2000, see page 67.
- For Windows NT 4.0, see page 70.

### Note:

- When sharing the printer, be sure to set EPSON Status Monitor 3 so that the shared printer can be monitored on the printer server. See "Setting up Status Monitor 3" on page 57.*

- ❑ *When you are a Windows-shared printer user in a Windows Me or 98 environment, on the server, double-click the Network icon in Control panel and make sure that the “File and printer sharing for Microsoft Networks” component is installed. Then, on the server and clients, make sure that the “IPX/SPX-compatible Protocol” or the “TCP/IP Protocol” is installed.*
- ❑ *The printer server and clients should be set on the same network system, and they should be under the same network management beforehand.*
- ❑ *The examples shown on the following pages may look different than the ones on your screen, depending on the version of Windows you are using.*

## **Setting up your printer as a shared printer**

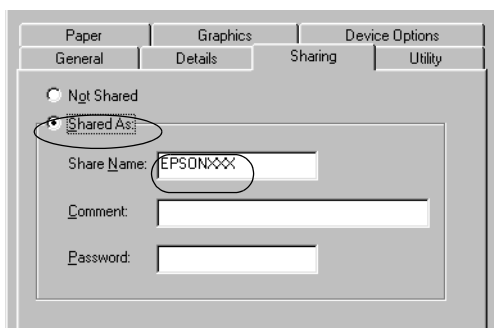
### **With Windows Me, 98, or 95**

Follow these steps to set the printer server on Windows Me, 98, or 95:

1. Click Start, point to Settings, and click Control Panel.
2. Double-click the Network icon.
3. Click File and Print Sharing on the Configuration menu.
4. Select the I want to be able to allow others to print to my printer(s) checkbox, then click OK.
5. Click OK to accept the settings.

**Note:**

- ❑ When “Insert the Disk” appears, insert the Windows Me, 98, or 95 CD-ROM in the computer. Click OK and follow the on-screen instructions.
  - ❑ When the prompt to restart the computer appears, restart the computer and continue with the settings.
6. Double-click the Printers icon on the control panel.
  7. Right-click your printer icon, and click Sharing in the menu that appears.
  8. Select Shared As, type the name in the Share Name box, and click OK. Type a Comment and Password if needed.



**Note:**

- ❑ Do not use spaces or hyphens for the share name, or an error may occur.
- ❑ When sharing the printer, be sure to set Status Monitor 3 so that the shared printer can be monitored on the printer server. See “Setting up Status Monitor 3” on page 57.

You need to set the client computers so that they can use the printer on a network. See the following pages for details:

- ❑ “With Windows Me, 98, or 95” on page 65
- ❑ “With Windows XP or 2000” on page 67
- ❑ “With Windows NT 4.0” on page 70

### ***With Windows XP, 2000, or Windows NT 4.0***

Follow the steps below to set the printer server for Windows XP, 2000, or NT 4.0:

***Note:***

*You must access Windows XP, 2000, or NT 4.0 as the Administrator of the local machine.*

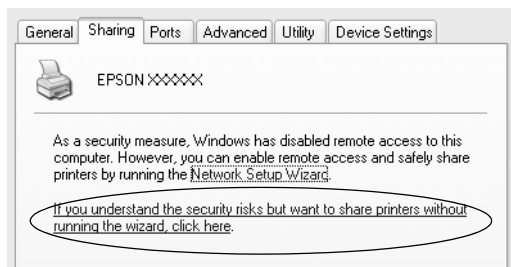
1. For a Windows 2000 or NT 4.0 printer server, click Start, point to Settings, and click Printers.

For a Windows XP Professional printer server, click Start, then click Printers and Faxes.

For Windows XP Home Edition printer server, click Start, click Control panel, then click Printers and Faxes.

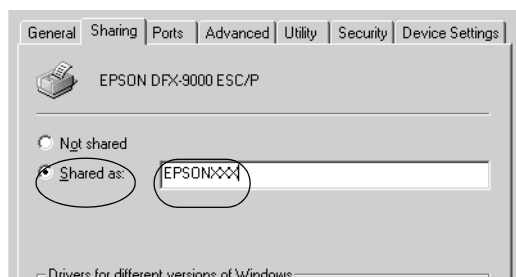
2. Right-click your printer icon, and click Sharing in the menu that appears.

For Windows XP, if the following menu appears, click either Network Setup Wizard or If you understand the security risks but want to share printers without running the wizard, click here.

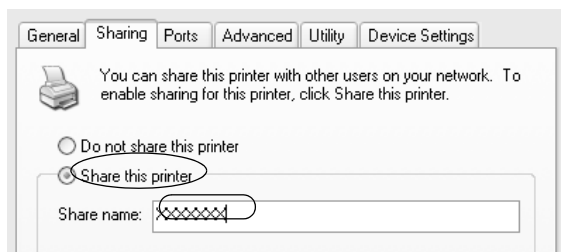


Then follow the on-screen instructions.

3. For a Windows 2000 or Windows NT 4.0 printer server, select Shared as (for Windows 2000) or Shared (for Windows NT 4.0), then type the name in the Share name box and click OK.



For a Windows XP printer server, select Share this printer, then type the name in the Share name box and click OK.



**Note:**

*Do not use spaces or hyphens for the share name, or an error may occur.*

Now you need to set the client computers so that they can use the printer on a network.

## **Setting the clients**

This section describes how to install the printer driver on the client computers by accessing the shared printer on a network.

**Note:**

- ❑ *Make sure you have set up the printer server as described on page 60 (Windows Me, 98, or 95) or page 62 (Windows XP, 2000, or NT 4.0).*
- ❑ *This section describes how to access the shared printer on a standard network system using the server (Microsoft workgroup). If you cannot access the shared printer due to the network system, ask the administrator of the network for assistance.*



- ❑ *This section describes how to install the printer driver by accessing the shared printer from the Printers folder. You can also access the shared printer from Network Neighborhood or My Network on the Windows desktop.*
- ❑ *If you want to be able to use Status Monitor 3 on the clients, you have to install both the printer driver and Status Monitor 3 on each client from the CD-ROM.*

See the following sections for details:

- ❑ With Windows Me, 98, or 95, below
- ❑ “With Windows XP or 2000” on page 67
- ❑ “With Windows NT 4.0” on page 70

### ***With Windows Me, 98, or 95***

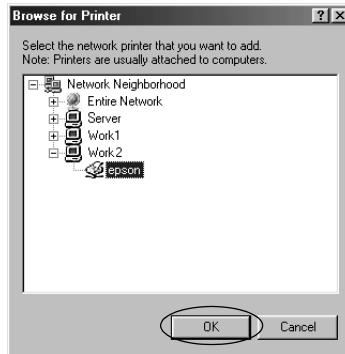
Follow these steps to set Windows Me, 98, or 95 clients:

1. Click Start, point to Settings, and click Printers.
2. Double-click the Add Printer icon, then click Next.
3. Select Network printer, then click Next.
4. Click Browse. You see the Browse for Printer dialog box.

***Note:***

*You can also type “\\(the name of the computer that is locally connected to the shared printer)\(the shared printer’s name)” in the Network path or queue name.*

5. Click the computer or server that is connected to the shared printer, and the name of the shared printer. Then click OK.



**Note:**

*The name of the shared printer may be changed by the computer or server it is connected to. If you need to confirm the name of the shared printer, ask the administrator of the network.*

6. Click Next.

If the printer driver is installed in the client beforehand, you need to select the new printer driver or the current printer driver. When the prompt to select the printer driver appears, select the printer driver according to the message.

If the printer server is running Windows Me, 98, or 95, go to the next step. For other Windows versions, go to "Installing the printer driver from the CD-ROM" on page 72.

7. Check the name of the shared printer, and select whether to use the printer as the default printer or not. Click OK, and then follow the on-screen instructions.

**Note:**

*You can change the shared printer's name so that it appears only on the client computer.*

## ***With Windows XP or 2000***

Follow the steps below to set Windows XP or 2000 clients. You must have Administrator rights; check with your Network Administrator.

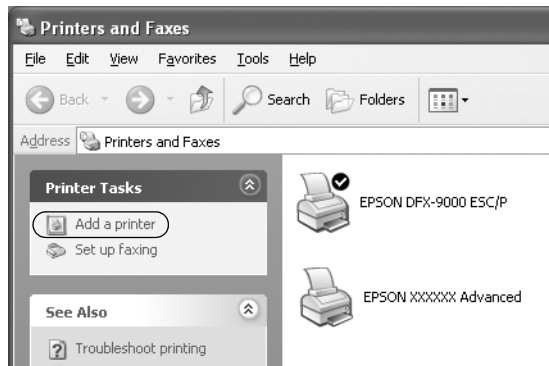
1. For Windows 2000 clients, click Start, point to Settings, and click Printers.

For Windows XP Professional clients, click Start, and click Printers and Faxes.

For Windows XP Home Edition clients, click Start, click Control panel, then click Printers and Faxes.

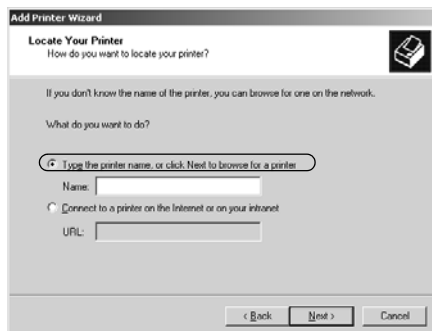
2. For Windows 2000, double-click the Add Printer icon, then click Next.

For Windows XP, click the Add a printer in the Printer Tasks menu.



3. Select Network printer (for Windows 2000) or A network printer, or a printer attached to another computer (for Windows XP), then click Next.

- For Windows 2000, select Type the printer name, or click Next to browse for a printer, then click Next.



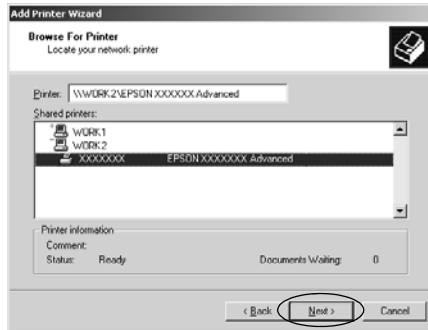
**Note:**

*You can also type the shared printer's name or network path in the Name box, such as "\\(the name of the computer that is locally connected to the shared printer)\(the shared printer's name)."*

For Windows XP, select Browse for a printer, then click Next.



5. Click the icon of the computer or server that is connected to the shared printer, and the name of the shared printer. Then click Next.



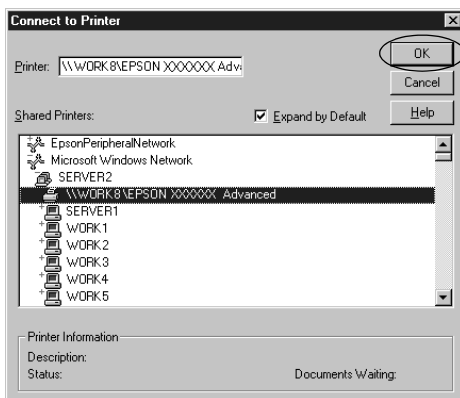
**Note:**

- ❑ *The name of the shared printer may be changed by the computer or server that is connected to the shared printer. Confirm the name of the shared printer by asking the administrator of the network.*
  - ❑ *If the printer driver is installed in the client beforehand, you need to select either the new printer driver or the current printer driver. When the prompt to select the printer driver appears, select the printer driver according to the message.*
  - ❑ *If the printer server is running Windows XP or 2000, go to the next step.*
  - ❑ *If the printer server is not running Windows XP or 2000, go to "Installing the printer driver from the CD-ROM" on page 72.*
6. For Windows 2000, select whether to use the printer as the default printer or not, then click OK.

For Windows XP, if another driver is already installed, select whether to use the printer as the default printer or not, then click OK.



4. Click the icon of the computer or server that is connected to the shared printer and the name of the shared printer. Then click OK.



**Note:**

- ❑ You can also type “\\(the name of the computer that is locally connected to the shared printer)\(the shared printer’s name)” in Network path or queue name.
- ❑ The name of the shared printer may be changed by the computer or server that is connected to the shared printer. Confirm the name of the shared printer by asking the administrator of the network.
- ❑ If the printer driver is installed in the client beforehand, you need to select the new printer driver or the current printer driver. When the prompt to select the printer driver appears, select the printer driver according to the message.
- ❑ If the printer server is running Windows NT 4.0, go to the next step.
- ❑ If the printer server is not running Windows NT 4.0, go to “Installing the printer driver from the CD-ROM” on page 72.

5. Select whether to use the printer as the default printer or not, then click OK.
6. Click Finish.

## ***Installing the printer driver from the CD-ROM***

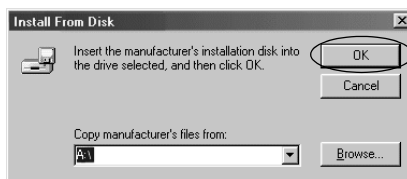
This section describes how to install the printer driver on the client computers, which is necessary when the server and clients use different versions of Windows.

### ***Note:***

*If the computers of the server and clients use the same OS, you do not have to install the printer drivers from the CD-ROM.*

When installing on clients running Windows XP, 2000, or NT 4.0, you must have the correct Administrator rights.

1. Access the shared printer. A prompt may appear. Click OK and follow the on-screen instructions to install the printer driver from the CD-ROM.
2. Insert the CD-ROM. When you see the EPSON Installation Program dialog box, cancel the dialog box by clicking Cancel. Then type the appropriate drive and folder names in which the printer driver for clients is located, and click OK.





When installing drivers in Windows XP or 2000, “Digital Signature is not found.” may appear. Click Yes (for Windows 2000) or Continue Anyway (for Windows XP) and continue installing.

The folder name depends on the version of Windows being used.

<b>Client's Version</b>	<b>Folder Name</b>
Windows 95	\<Language>\WIN95
Windows 98	\<Language>\WIN98
Windows Me	\<Language>\WINME
Windows XP, 2000	\<Language>\WIN2000
Windows NT 4.0	\<Language>\WINNT40

3. Select the name of the printer, and click OK. Then follow the on-screen instructions.

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## Canceling Printing

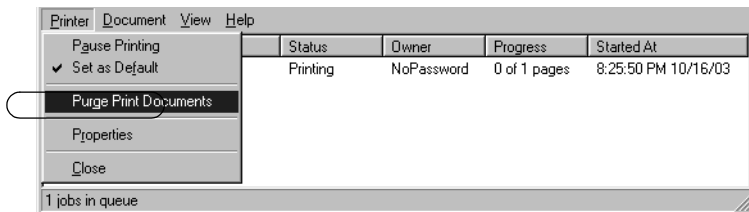
If the printouts are not what you expected or contain incorrect or garbled characters or images, you may need to cancel printing. When the printer icon is displayed on the taskbar, follow these steps to cancel printing:

1. Double-click the printer icon on the task bar, then click Purge Print Documents on the Printer menu.



2. When canceling all printing documents, select Purge Print Documents (For Windows Me or 98) or Cancel All Documents (For Windows XP, 2000, or Windows NT 4.0) on the Printer menu.

When canceling a particular document, select the document you want to cancel and choose Cancel Printing (For Windows Me or 98) or Cancel (For Windows XP, 2000, or Windows NT 4.0) on the Document menu.




The print job is canceled.

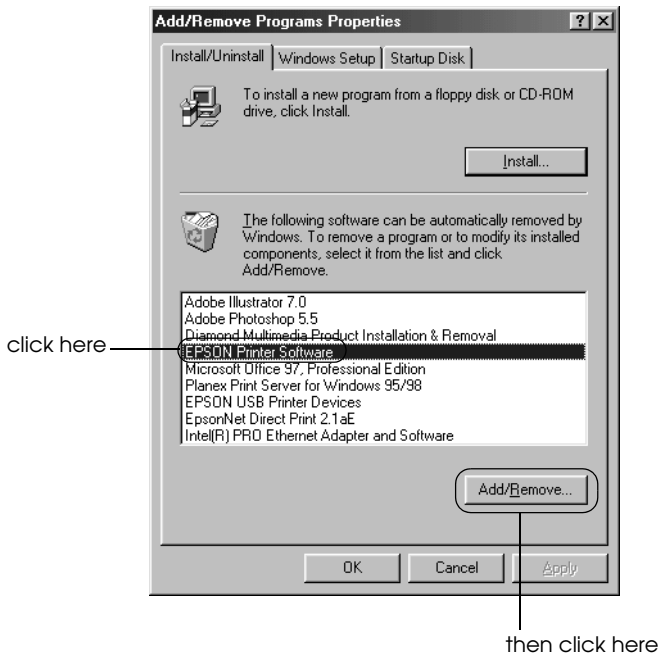
You can also cancel printing from the printer's control panel by pressing the Font (Item▲) and Pitch (Item▼) buttons simultaneously. This also resets the printer's defaults, however. (See page 97 for more information.)

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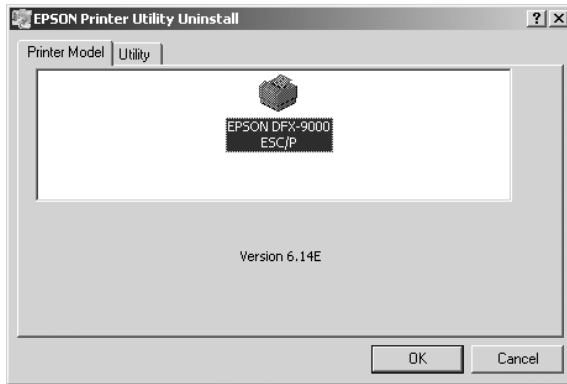
## Uninstalling the Printer Software

If you need to reinstall or upgrade the printer driver, first uninstall the current printer driver.

1. Quit all applications.
2. Click Start and select Control Panel; or click Start, Settings, and then Control Panel.
3. Double-click the Add/Remove Programs (or Change or Remove Programs) icon.
4. Select EPSON Printer Software, and click the Add/Remove or Change/Remove button.



5. Click the Printer Model tab, select the EPSON DFX-9000 ESC/P icon, then click OK.



6. If you want to uninstall Monitored Printers, click Yes in the displayed dialog box.

**Note:**

*You can uninstall only the Monitored Printers utility of EPSON Status Monitor 3. When the utility is uninstalled, you cannot change the setting of Monitored Printers from EPSON Status Monitor 3.*

7. If you want to uninstall EPSON Status Monitor 3, click Yes in the displayed dialog box.
8. Follow the on-screen instructions.

## Uninstalling the USB device driver

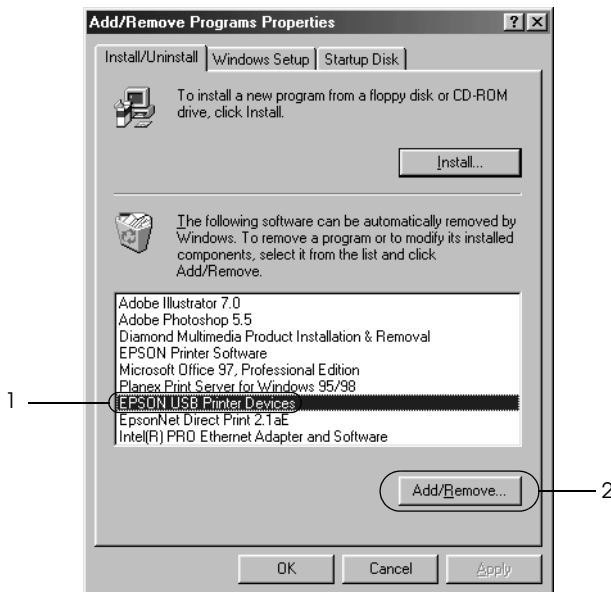
When you connect the printer to your computer with a USB interface cable, the USB device driver is also installed. If you uninstall the printer driver, you also need to uninstall the USB device driver.

### Note:

*Uninstall the printer driver before uninstalling the USB device driver. After you uninstall the USB device driver, you cannot access any other Epson printers connected with a USB interface cable.*

Follow these steps to uninstall the USB device driver:

1. Follow steps 1 through 3 of “Uninstalling the Printer Software” on page 75.
2. Select EPSON USB Printer Devices, and click Add/Remove (or Change/Remove).



**Note:**

- ❑ *EPSON USB Printer Devices appears only when the printer is connected to Windows Me or 98 with a USB interface cable.*
  
- ❑ *If the USB device driver was not installed correctly, EPSON USB Printer Devices may not appear. Follow these steps to run the "Epusbun.exe" file on the CD-ROM:*
  - 1. Insert the CD-ROM in your computer's CD-ROM drive.*
  - 2. Access the CD-ROM drive.*
  - 3. Double-click the \<Language>\WIN98 or \<Language>\WINME folder.*
  - 4. Double-click the Epusbun.exe icon.*

3. Follow the on-screen instructions.

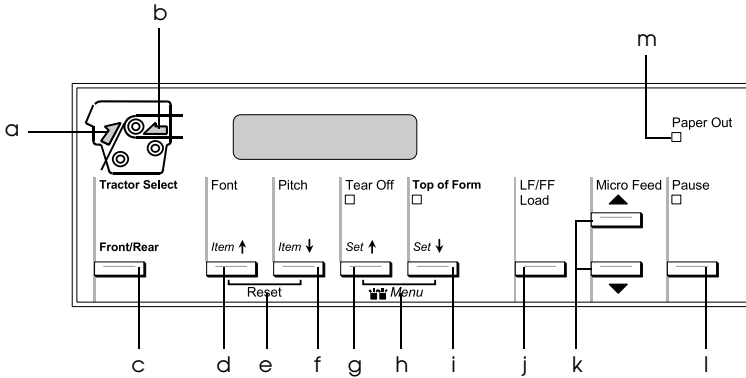
See the *User's Guide* to reinstall a printer driver.

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## Control Panel

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### Buttons and Lights



**a** Front Tractor Select indicator

On when the front tractor is selected. The light is green when paper is loaded, or red when the tractor is out of paper.

**b** Rear Tractor Select indicator

On when the rear tractor is selected. The light is green when paper is loaded, or red when the tractor is out of paper.

c Front/Rear button

Selects the front or rear tractor. If you have been using paper loaded on one tractor, first remove the printed output before pressing this button to switch the tractor.

d Font (Item $\uparrow$ ) button

- Selects one of the fonts. To select a font, see “Selecting a Font and Pitch” on page 83.
- In SelecType mode or Default-setting mode, the button works as an Item $\uparrow$  button. You can press the Item $\uparrow$  button to select the previous menu. See “Controlling Your Printer’s Settings” on page 84 for details.

e Reset

When you press both the Font and Pitch buttons simultaneously, the printer clears its buffer and restores its default settings.

f Pitch (Item $\downarrow$ ) button

- Selects one of the pitch settings. To select a pitch, see “Selecting a Font and Pitch” on page 83.
- In SelecType or Default-setting mode, the button works as an Item $\downarrow$  button. You can press the Item $\downarrow$  button to select the next menu. See “Controlling Your Printer’s Settings” on page 84 for details.



g Tear Off (Set▲) button

- ❑ Feeds continuous paper forward to the tear-off position.
- ❑ In SelecType or Default-setting mode, the button works as the Set▲ button. You can press the Set▲ button to select the previous value of a setting item. See “Controlling Your Printer’s Settings” on page 84 for details.

Tear Off light

On when the paper is in the tear-off position.

h Menu

When you press the Tear Off and Top of Form buttons at the same time, the printer enters or exits SelecType mode and you can set the various printer settings. See “Changing the settings in SelecType mode” on page 94 for details.

i Top of Form (Set▼) button

- ❑ Enters the top-of-form position mode and sets the new top-of-form position after it has been adjusted with the Micro Feed buttons.
- ❑ In SelecType or Default-setting mode, the button works as the Set▼ button. You can press the Set▼ button to select the next value of a setting item. See “Controlling Your Printer’s Settings” on page 84 for details.

Top of Form light

On when the printer is in top-of-form and tear-off mode.

- j LF/FF Load button
- Loads continuous paper when the printer is out of paper.
  - Feeds paper line by line when pressed briefly.
  - Advances continuous paper to the next top-of-form position when held down for a few seconds.
- k Micro Feed buttons
- Adjust the paper position, such as the top-of-form position and tear-off position.
- l Pause button
- Stops printing temporarily, and resumes printing when pressed again.
- Pause light
- On when the printer is paused.
  - Flashes when the print head overheats.
- m Paper Out light
- On when the printer is out of paper.
  - Flashes when paper jams or the printer fails to eject paper.

---

## Selecting a Font and Pitch

While you normally select the font and pitch for your documents in the application program you are using, you can also select them from the printer's control panel, as described below.

**Note:**

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

*The pitches available depend on the font you select:*

Font	Pitch
High Speed Draft	10, 12, 15, 17, 20
Draft	10, 12, 15, 17, 20, Proportional
Roman	10, 12, 15, 17, 20, Proportional
Sans Serif	10, 12, 15, 17, 20, Proportional

1. Make sure that the printer is not printing.
2. Press the **Font** button. The first available font is displayed on the LCD. Press the **Font** button until the font you want to use is displayed. The LCD returns to its original state in a few seconds and the font you selected is set.
3. Press the **Pitch** button. The first available pitch is displayed on the LCD. Press the **Pitch** button until the pitch you want to use is displayed. The LCD returns to its original state in a few seconds and the pitch you selected is set.

---

## Controlling Your Printer's Settings

When you need to change your print settings, you can usually use your application software. The DFX-9000 provides three additional ways to change printer settings:

- SelecType mode (see below)
- Default-setting mode (see page 96)
- Epson Remote Configuration Manager utility. (See the *Remote Configuration Manager Utility User's Guide* for instructions. This manual is included on your printer software CD-ROM and was installed in the Epson Remote Configuration Manager program group on your computer when you installed the printer software.)

### Using SelecType

The settings you can change in SelecType mode are shown in the following table and explained in detail after the table.

Setting	Options (default in bold)
Language	<b>English</b> , French, German, Italian, Spanish, Portuguese
Print settings	Press the Set↓ (Top of Form) button to print all current settings.
Page length for rear tractor	3 inches, 3.5 inches, 4 inches, 5.5 inches, 6 inches, 7 inches, 8 inches, 8.5 inches, <b>11 inches</b> , 70/6 inches, 12 inches, 14 inches, 17 inches
Page length for front tractor	3 inches, 3.5 inches, 4 inches, 5.5 inches, 6 inches, 7 inches, 8 inches, 8.5 inches, <b>11 inches</b> , 70/6 inches, 12 inches, 14 inches, 17 inches
Skip over perforation	<b>Off</b> , On
Line spacing	<b>1/6 inch</b> , 1/8 inch

<b>Setting</b>	<b>Options (default in bold)</b>
Left margin	<b>0 column</b> to 80 columns
Right margin	1 column to <b>136 columns</b>
Platen gap	<b>Auto</b> , 0 to 14
Auto tear off	<b>Off</b> , On
Auto line feed	<b>Off</b> , On
Print direction	<b>Bi-D</b> , Uni-D
Software	<b>ESC/P</b> , IBM PPDS
0 slash	<b>Off</b> , On
I/F (Interface) mode	<b>Auto</b> , Parallel, Serial, USB, Optional
Auto I/F (Interface) wait time	<b>10 seconds</b> , 30 seconds
Parallel I/F bi-directional mode	Off, <b>On</b>
Packet mode	<b>Auto</b> , Off
Serial baud rate	<b>19200 BPS</b> , 9600 BPS, 4800 BPS, 2400 BPS, 1200 BPS, 600 BPS, 300 BPS
Serial parity	<b>None</b> , Odd, Even, Ignore
Serial data length	<b>8-bit</b> , 7-bit
Character table	<p>Standard version: <b>PC437</b>, PC850, PC860, PC863, PC865, PC861, BRASCIi, Abicomp, Roman8, ISO Latin 1, PC858, ISO 8859-15, Italic U.S.A., Italic France, Italic Germany, Italic U.K., Italic Denmark 1, Italic Sweden, Italic Italy, Italic Spain 1</p> <p>NLSP version: <b>PC437</b>, PC850, PC860, PC863, PC865, PC861, BRASCIi, Abicomp, Roman8, ISO Latin 1, PC858, ISO 8859-15, PC437 Greek, PC853, PC855, PC852, PC857, PC866, PC869, MAZOWIA, Code MJK, ISO 8859-7, ISO Latin 1T, Bulgaria, PC774, Estonia, ISO 8859-2, PC866 LAT., PC866 UKR, PC APTEC, PC708, PC720, PCAR864, PC771, PC437 Slovenia, PC MC, PC1250, PC1251, Italic U.S.A., Italic France, Italic Germany, Italic U.K., Italic Denmark 1, Italic Sweden, Italic Italy, Italic Spain 1</p>

<b>Setting</b>	<b>Options (default in bold)</b>
Auto CR (IBM PPDS) <sup>*1</sup>	<b>Off</b> , On
IBM character table (IBM PPDS) <sup>*1</sup>	<b>Table 2</b> , Table 1
Buzzer	Off, <b>On</b>
Low-noise mode	<b>Off</b> , On
Auto cut mode <sup>*2</sup>	<b>Off</b> , On
Auto cut/back mode <sup>*2</sup>	<b>Off</b> , On
Overlapping multipart forms	<b>Off</b> , On
Continuous forms with labels	<b>Off</b> , On
Skip over binding	<b>Off</b> , On
Get IP address <sup>*3</sup>	Panel, Auto, PING
IP address <sup>*4</sup>	000.000.000.000 to 255.255.255.255
Subnet mask <sup>*3</sup>	000.000.000.000 to 255.255.255.255
Default gateway <sup>*3</sup>	000.000.000.000 to 255.255.255.255
Save settings? <sup>*3</sup>	Yes, No

<sup>\*1</sup> Available only in IBM PPDS emulation mode.

<sup>\*2</sup> Available only when the optional perforation cutter (#C81570X) is installed.

<sup>\*3</sup> Available only when the optional Print Server is installed.

<sup>\*4</sup> Available only when the optional Print Server is installed and the Get IP address setting is set to Panel or PING.

<sup>\*5</sup> Appears when you press the Menu buttons (Tear Off and Top of Form) in SelecType mode.

### *Page length for rear tractor*

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

### *Page length for front tractor*

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

### *Skip over perforation*

When you turn on this feature, 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 most application program margin settings override margin settings from the control panel, you should use this setting only if you cannot set your top and bottom margins using your application.

### *Line spacing*

You can select 1/6 inch or 1/8 inch for line spacing.

### *Left margin*

This setting allows you to set the margin (in columns) from the left edge. The margin is set in columns of 10 cpi, regardless of the pitch that is currently selected.

### *Right margin*

This setting allows you to set the margin (in columns) from the right edge. The margin is set in columns of 10 cpi, regardless of the pitch that is set.

## *Platen gap*

This setting allows you to set the paper thickness. When you select **Auto**, the printer automatically adjusts the platen for the thickness of the paper loaded. If you want to set it manually, select 0 to 14. When using overlapping multi-part forms, select 0 to 14 according to the paper thickness you use.

## *Auto tear off*

When auto tear off is on and you are using continuous paper with the front or rear push tractor, the printer automatically advances the paper perforation to the tear-off position, where you can easily tear off the printed page(s). When the printer receives data again, it automatically moves the paper back to the top-of-form position and starts printing, so you can use all of the next page.

When auto tear off is off and you are using continuous paper with the front or rear push tractor, you need to move the perforation to the tear-off position manually by pressing the **Tear Off** and **Micro Feed** buttons. See “Tearing Off the Printed Pages” on page 33 for more information.

## *Auto line feed*

When auto line feed is on, the printer accompanies each carriage return (CR) code received with a line feed (LF) code.

## *Print direction*

You can select bidirectional printing (Bi-D) or unidirectional printing (Uni-D). Printing is normally bidirectional; however, unidirectional printing allows for precise vertical printing alignment.



## *Software*

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

## *0 slash*

The zero character has a slash (∅) 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.

## *I/F (Interface) mode*

The printer has built-in parallel, serial, and USB interfaces in addition to a slot for an optional Type B interface card. You can choose Auto (automatic), Parallel, Serial, USB, or Optional for the interface mode. When you select Auto, the printer automatically selects the interface that is receiving data, and uses that interface until the end of the print job. The Auto setting allows you to share the printer among multiple computers without changing the interface mode.

If only one computer is connected to the printer, you can select Parallel, Serial, USB, or Optional—depending on which interface your computer uses—to lock the other ports, if necessary.

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

When the printer is in the auto interface mode and it receives no data from the currently selected interface for the amount of time specified with this setting, it determines which interface is receiving data and switches to that interface. You can specify either 10 seconds or 30 seconds for the auto interface wait time.

### *Parallel I/F bi-directional mode*

The Parallel Interface bidirectional transfer mode is used when this feature is on. If bidirectional transfer mode is unnecessary, turn this off.

### *Packet mode*

Make sure to select Auto when you print from Windows applications using the printer driver included on the printer software CD-ROM that comes with the printer. Turn this feature off if you have connection troubles while printing from applications based on other operating systems such as DOS.

### *Serial baud rate*

This setting is available only when data is transferred via a serial interface. Use this option to set the data transfer rate (baud) for the serial interface. The baud rate is measured in bits per second (bps). See your computer manual and software documentation for the proper setting.

### *Serial parity*

This setting is available only when data is transferred via a serial interface. The parity bit is added to data and detects errors on the data. When this option is set to None, the parity bit is not added to data. When this option is set to Ignore, the parity is added to data, but the printer receives the data even if an error is detected.

### *Serial data length*

This setting is available only when data is transferred via a serial interface. Set the data length of the serial interface to 8-bit or 7-bit. See your computer manual and software documentation for the proper setting.

## *Character table*

You can select among various character tables including several international character sets for the italic character table. This setting is used when you print without using the printer driver.

When using the printer driver, change the settings on the printer driver. For details, see “Changing the Printer Settings” on page 53.

## *Auto CR (IBM PPDS)*

This setting is available only in IBM PPDS emulation mode. When auto carriage return is on, each line feed (LF) code or ESC J code is accompanied by a carriage return (CR) code so the printer moves the next printing position to the left margin. When this setting is off, you must send a CR code after the line feed code to move the printing position to the left margin.

## *IBM character table (IBM PPDS)*

This setting is available only in IBM PPDS emulation mode. You can select Table 2 or Table 1 for the IBM character table.

## *Buzzer*

The printer beeps when an error occurs. See “Using the Error Indicators” on page 101 for more information on printer errors. If you do not want the printer to beep when an error occurs, turn off this setting.

## *Low-noise mode*

When this mode is set to On, printing is quieter but slower.

## *Auto cut mode*

This function is available only when the optional perforation cutter (#C81570X) is installed in the printer. When this setting is set to *On*, the perforation cutter cuts each page at the perforation automatically. Note the following when you turn on this function:

- Make sure the paper is at least 4 inches long.
- Do not change the top of form position using the *Top of Form* button.
- Do not feed the paper using the *Micro Feed* buttons.
- Never cut labels, continuous paper with labels, and overlapping multi-part forms.
- If you set the cutting method through the printer driver's paper source setting, it overrides *Auto cut mode*.

## *Auto cut/back mode*

This function is available only when the optional perforation cutter (#C81570X) is installed in the printer. When you turn on this feature, the printer automatically cuts each page at the perforation and feeds the paper to the top-of-form position while it is printing.

## *Overlapping multipart forms*

When this setting is set to *On*, you can print on overlapping multi-part forms that vary in thickness.

## *Continuous forms with labels*

When this setting is set to *On*, you can print on continuous forms with labels. You can choose the label position in *Default-setting mode*. See "Adjusting the label position" on page 32 for details.

### *Skip over binding*

When this setting is set to On, the print head avoids the binding area along the right and left edges of multi-part forms during paper feeding. This makes paper feeding easier and prevents paper jams.

### *Get IP address*

This setting is available only when the optional Print Server is installed. You can select the method of getting the IP address. Select Panel to get the IP address from the control panel. See “Setting the IP address from the control panel” on page 159 for details. For information on the settings when this feature is set to Auto or Ping, see the manual for the Print Server that you use.

### *IP address*

This setting is available only when the optional Print Server is installed and the Get IP address setting is set to Panel or Ping. You can set the printer’s IP address with this setting.

### *Subnet mask*

This setting is available only when the optional Print Server is installed. You can set the printer’s subnet mask with this setting.

### *Default gateway*

This setting is available only when the optional Print Server is installed. You can set the printer’s default gateway with this setting.

### *Save settings?*

This menu appears when you press the Menu buttons (Tear Off and Top of Form) in SelecType mode. When you select Yes, the current settings are saved.

## Changing the settings in SelectType mode

The following table shows the basic functions for the control panel buttons while you are in SelectType mode.

Button	Basic function
Tear Off and Top of Form (Menu) buttons	Enters or exits SelectType mode.
Item▲ (Font) button	Selects the previous menu parameter.
Item▼ (Pitch) button	Selects the next menu parameter.
Set▲ (Tear Off) button	Selects the previous value in the selected menu.
Set▼ (Top of Form) button	Selects the next value in the selected menu.

Follow these steps to enter SelectType mode and change the settings:

1. Make sure paper is loaded.
2. Press the Menu buttons (Tear Off and Top of Form) to enter SelectType mode. The LCD displays the currently selected language.
3. If the language you want is not selected, press the Set▲ (Tear Off) or Set▼ (Top of Form) button until the LCD displays the language you want.
4. Press the Item▼ (Pitch) button to set the desired language.

**Note:**

*The language you select is also used for other settings, modes, and test printouts, such as Default-setting mode and printing a Hex Dump.*

5. You see Print Settings on the LCD. Press the Set▼ (Top of Form) button to print the current settings.

6. Press the Item▲ (Font) or Item▼ (Pitch) button to select the menu parameters you want to change.

**Note:**

*You can scroll the menu settings by holding the Item▲ (Font) or Item▼ (Pitch) button for a few seconds.*

7. Press the Set▲ (Tear Off) or Set▼ (Top of Form) button to select the values within the selected parameter until you find the desired setting.

**Note:**

*You can scroll the values by holding the Set▲ (Tear Off) or Set▼ (Top of Form) button for a few seconds.*

8. After setting the selected parameter to the desired setting, you can either continue to make changes to other parameters by pressing the Item▼ or Item▲ button, or exit SelecType mode.
9. When you finish making settings, press and hold down the Menu buttons (Tear Off and Top of Form).
10. The LCD displays Save Setting. If you want to save the settings, select Yes by pressing the Set▲ (Tear Off) button. If you do not want to save the settings, select No by pressing the Set▼ (Top of Form) button.

The printer exits SelecType mode.

**Note:**

*If you turn off the printer before exiting SelecType mode, any changes you may have made are canceled and not saved.*

## Using Default-setting Mode

In Default-setting mode, you can adjust the print position for continuous forms with labels and choose which control panel buttons to lock in Lock-out mode.

### Continuous forms with labels

You may need to change the printing position for continuous forms with labels if you are printing on a page that contains one or more labels in addition to regular printing. First use SelecType to turn on the Forms w/labels setting. Then use Default-setting mode and select the following settings to define the position of the label(s) relative to the base page.

Setting	Options (default in bold)
Label base position	<b>Paper left edge</b> , First dot
Label top position (the top edge of the label, from the top of the page)	<b>0</b> to 4752/216 (Enter a value in 1/216-inch increments for 0 to 22 inches)
Label length (the length of the label from top to bottom)	<b>0</b> to 4752/216 (Enter a value in 1/216-inch increments for 0 to 22 inches)
Label left position (the left edge of the label from the left edge of the page)	<b>0</b> to 1440/120 (0 to 12" in 1/120-inch increments)
Label width (the width of the label from one side to the other)	<b>0</b> to 1440/120 (0 to 12" in 1/120-inch increments)
Base sheet PG position number	<b>0</b> to 14*
Label paper PG position number	<b>0</b> to 14**

\* Adjusts the platen gap for printing on label carrier (base sheet).

\*\* Adjusts the platen gap for printing on labels affixed to label carrier.



## Lock-out mode

When you select the Panel lock out menu in Default-setting mode, you can change which buttons are locked during Lock-out mode:

Button function	Settings (default in bold)
Pause	<b>Unlock</b> , Lock
Micro Feed	Unlock, <b>Lock</b>
Load	<b>Unlock</b> , Lock
LF	Unlock, <b>Lock</b>
FF	Unlock, <b>Lock</b>
Top of Form	Unlock, <b>Lock</b>
Tear Off	<b>Unlock</b> , Lock
Font	Unlock, <b>Lock</b>
Pitch	Unlock, <b>Lock</b>
Front/Rear	Unlock, <b>Lock</b>
Menu	Unlock, <b>Lock</b>
Reset	Unlock, <b>Lock</b>

## Changing settings in Default-setting mode

The following table shows the functions of the control panel buttons while you are in Default-setting mode.

Button	Function
Item▲ (Font) button	Selects the previous menu parameter.
Item▼ (Pitch) button	Selects the next menu parameter.
Set▲ (Tear Off) button	Select the previous value in the selected menu.
Set▼ (Top of Form) button	Select the next value in the selected menu.

Follow these steps to enter Default-setting mode and change the settings:

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



**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 Font button and turn on the printer. Setting mode appears on the LCD panel, indicating that the printer is in Default-setting mode.

**Note:**

*The instructions and current settings are printed in the language you selected in SelecType mode. If you need a different language, choose the one you want using SelecType mode. (See page 94 for details.)*

3. Select one of the three main menus by pressing the Set $\blacktriangle$  (Tear Off) or Set $\blacktriangledown$  (Top of Form) button.

**Note:**

*You can scroll the menus by holding the Set $\blacktriangle$  (Tear Off) or Set $\blacktriangledown$  (Top of Form) button for a few seconds.*

4. If you select Print Settings, press the Item $\blacktriangledown$  (Pitch) button to print the current settings.

If you select Form w/labels or Panel lock out, press the Item $\blacktriangle$  (Font) or Item $\blacktriangledown$  (Pitch) button to select the setting you want to change and go to the next step.

**Note:**

*You can scroll the menu by holding the Item $\blacktriangle$  (Font) or Item $\blacktriangledown$  (Pitch) button for a few seconds.*

5. Press the Set▲ (Tear Off) or Set▼ (Top of Form) button to select the values within the selected parameter until you find the desired setting.

**Note:**

*You can scroll the values by holding the Set▲ (Tear Off) or Set▼ (Top of Form) button for a few seconds.*

6. After setting the selected parameter to the desired setting, you can either continue to make changes to other parameters by pressing the Item▼ button or the Item▲ button, or exit Default-setting mode.
7. When you finish making settings, turn off the printer to exit Default-setting mode and save the settings.

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## ***Locking the Control Panel Buttons***

You can restrict the use of buttons on the control panel using Lock-out mode. When Lock-out mode is turned on, only the Pause, Load, and Tear Off buttons work.

If you want to lock other buttons (or leave the Pause, Load or Tear Off buttons functional), you can specify which buttons are locked during Lock-out mode.

First see “Changing settings in Default-setting mode” on page 97 for instructions on how to change the Lock-out mode settings. Then follow these steps to turn on Lock-out mode:

1. Make sure 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. Hold down both the Font and Pitch buttons and then turn on the printer. It beeps twice, indicating that Lock-out mode has been turned on.

To turn off Lock-out mode, repeat steps 1 and 2. The printer beeps once to tell you that Lock-out mode has been turned off.

# Problem Solving

## Diagnosing the Problem

If you are having trouble with the printer, try to diagnose and solve the problem as described in this chapter. If you have a specific problem relating to print quality or printer operation, see “Problems and Solutions” on page 106. For problems that may be related to USB connections, see “Correcting USB Problems” on page 119.

## Using the Error Indicators

If your printer stops working and the control panel lights are on or flashing and a message appears on the LCD panel, or the printer beeps, use the following table to diagnose and fix the problem. If you cannot fix your printer problem using this table, see “Problems and Solutions” on page 106.

LCD message and panel light status	Beep pattern	Problem
		Solution
Error: Paper out <ul style="list-style-type: none"><li>● Paper Out</li><li>● Pause</li></ul>	●●●	No paper is loaded on the selected tractor.
		Load paper in the printer or select a different tractor by pressing the <b>Front/Rear</b> button.
	●●●	The paper is not loaded correctly.
		Remove your paper and reload it correctly.
Error: No paper loaded <ul style="list-style-type: none"><li>● Paper Out</li><li>● Pause</li></ul>	●●●	Continuous paper is not fed to the standby position.
		Tear off the printed page at the perforation; then press the <b>LF/FF Load</b> button. The printer feeds the paper to the standby position.

LCD message and panel light status	Beep pattern	Problem
		Solution
Error: Paper jam ☹ Paper Out ● Pause	●●●	Paper is jammed in the printer.
		See "Clearing Paper Jams" on page 123.
Error: Switching not completed ● Pause	●●●	The printer fails to change the paper.
		Cut the paper at the top of it and press the <b>Pause</b> or <b>Front/Rear</b> button.
Error: Ribbon jam ● Pause	●●●	Ribbon has jammed.
		Remove and re-install the ribbon cartridge. See page 127 for instructions.
Error: Ribbon out ● Pause	●●●	Ribbon is not installed.
		Install the ribbon cartridge and press the <b>Pause</b> button. See page 127 for instructions.
Error: Cover open ● Pause	●●●	The printer's top cover is open.
		Close the cover.
Print head hot Please wait ☹ Pause	—	The print head is overheated.
		Wait a few minutes; printing resumes automatically once the print head cools.
Error: xx Turn off printer ☹ Paper Out ☹ Pause ☹ Tear Off/Set▲ ☹ Top of Form/Set▼ ☹ Front ☹ Rear	●●●●●	An unknown printer error has occurred.
		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.*

## **EPSON Status Monitor 3**

EPSON Status Monitor 3 displays status messages and shows the current status of the printer. If a problem occurs while printing, an error message appears in the Progress Meter window. For more information, see page 56.

### **Printing a Self Test**

If you are having trouble printing, you can print a self test to help 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 is probably caused by 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” on page 106 for possible causes and solutions to the problem.

Follow these steps to perform a self test:

1. Make sure the printer is turned off and that paper is loaded on the front or rear tractor.



**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, turn on the printer while holding down the LF/FF Load button. To run the test using the printer's NLQ font, hold down the Top of Form button while you turn on the printer. Either self test can help you determine the source of your printing problem; however, the draft self test prints faster than the NLQ test.

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

**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. Tear off the page if necessary, and then turn off the printer.



**Caution:**

*Do not turn off the printer while it is printing the self test. Always press the PAUSE button to stop printing and 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 it receives from the computer as hexadecimal values.

**Note:**

*The Hex Dump feature is designed for use with a DOS-based PC.*



Follow these steps to print a hex dump:

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 the Top of Form and LF/FF Load buttons and then 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.

```
1B 40 20 54 68 69 73 20 69 73 20 61 6E 20 65 78 .@ This is an ex
61 6D 70 6C 65 20 6F 66 20 61 20 68 65 78 20 64 ample of a hex d
75 6D 70 20 70 72 69 6E 74 6F 75 74 2E 0D 0A ump printout...
```

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. If characters are printable, they appear in the right column as ASCII characters. Nonprintable codes, such as control codes, are represented by dots.

4. To turn off hex dump mode, press the Pause button, and then turn off the printer.



**Caution:**

*Do not turn off the printer while it is printing the hex dump. Always press the Pause button to stop printing and then turn off the printer.*

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## ***Problems and Solutions***

Most problems you may encounter while operating your printer have simple solutions. Use the information in this section to find the source of and solution to printer problems that occur:

- ❑ “Power supply problems” on page 107
- ❑ “Paper loading or feeding problems” on page 108
- ❑ “Printing position problems” on page 110
- ❑ “Printing or printout quality problems” on page 112
- ❑ “Network problems” on page 118

You can also use the self test to determine whether the printer or the computer is causing the problem. See “Printing a Self Test” on page 103 for instructions on printing a self test. To pinpoint communication problems, experienced users may want to use the printer’s hex dump mode described in “Printing a Hex Dump” on page 104.

To clear a paper jam, see “Clearing Paper Jams” on page 123.

## 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 when you turn on the printer.**

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

## ***Paper loading or feeding problems***

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

<b>Cause</b>	<b>What to do</b>
Continuous paper is not loaded properly.	See “Loading Paper Onto the Front Tractor” on page 15 or “Loading Paper Onto the Rear Tractor” on page 22 for instructions on loading continuous paper with the tractor you want to use.
The wrong tractor may be selected.	Check if the correct tractor arrow is lit on the Tractor Select indicator.  If the wrong tractor is selected, be sure paper is loaded to the standby position on the tractor you want to use. Then press the <b>FRONT/REAR</b> button to switch to that tractor.
The printer may be out of paper.	Load paper onto the tractor. The tractor arrow on the Tractor Select indicator should be green.

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

<b>Cause</b>	<b>What to do</b>
You have not torn off the printed pages before pressing the <b>LF/FF LOAD</b> button.	Tear off the printed pages at the perforation. Then press the <b>LF/FF LOAD</b> button to feed the paper backward to the standby position.

**When you switch between front and rear tractors, the paper jams or the printer does not feed the paper back to the standby position.**

<b>Cause</b>	<b>What to do</b>
The printer may have reverse fed too many pages.	Use the tear off feature to tear off the printed document or any excess paper so that the printer needs to reverse feed only one page. Then press the Front/Rear button to switch tractors.
You may be trying to switch tractors when labels are loaded in the printer.	Labels jam when they are fed backward, so always remove any labels loaded in the printer before you switch tractors. To remove labels loaded in the printer, tear off the fresh supply below the tractor and press the LF/FF Load button to eject the remaining labels.

**When you switch between front and rear tractors, the printer does not load paper onto the selected tractor.**

<b>Cause</b>	<b>What to do</b>
The printer may be out of paper.	Load paper onto the tractor. The tractor arrow on the Tractor Select indicator should be green.

## Printing position problems

### Wrong top-of-form position

#### Your printing appears too high or too 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 SelecType mode. See "Changing the settings in SelecType mode" on page 94 for details.
The top margin or top-of-form position setting is incorrect.	<p>Check and adjust the margin or top-of-form position settings in your application software. See the printable area specifications in "Printable area" on page 177.</p> <p>You can also adjust the top-of-form position using the buttons on the control panel. However, settings made in Windows applications override settings made with the control panel. See "Adjusting the top-of-form position" on page 29 for details.</p>
The printer driver settings you want to use are not selected in your software.	Choose the correct printer driver setting from the Windows desktop or in your application before printing.

## ***Wrong tear-off position***

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

<b>Cause</b>	<b>What to do</b>
The tear-off position setting is incorrect.	Adjust the tear-off position using the buttons on the control panel. See “Adjusting the top-of-form position” on page 29 for details.
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 paper you are using.	Check the page length settings for the front or rear tractor using the printer’s SelecType mode. See “Changing the settings in SelecType mode” on page 94 for details.

**The Tear Off button doesn’t work.**

<b>Cause</b>	<b>What to do</b>
The pull tractor is installed.	Remove the pull tractor.

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

### **The printer is on but it doesn't print.**

<b>Cause</b>	<b>What to do</b>
The interface cable is broken or twisted.	Check that the interface cable is not broken or twisted. If you have another interface cable, replace the cable and check whether the printer works correctly.
The printer is not connected directly to your computer.	When you use a printer changer, printer buffer, or an extension cable, the printer does not print correctly due to the combination of these devices. Make sure that the printer works correctly when it is connected to your computer without these devices.
The printer driver is not installed correctly.	Check that the printer driver is installed properly. If necessary, reinstall the printer driver.
Paper is jammed or the ribbon or guard mechanism is stuck.	Turn the printer off, open the printer cover and remove the jammed paper or fix the ribbon guard. See "Clearing Paper Jams" on page 123.
The USB setting is incorrect.	See "Correcting USB Problems" on page 119 for details.
The printer is hung up (stopping in abnormal situations).	Turn the printer off and wait a while. Then turn the printer on again, and start printing.



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

Cause	What to do
The printer is paused.	Press the PAUSE button to resume.
The interface cable is not plugged in securely.	Make sure both ends of the cable are securely plugged into the printer and the computer. If the cable is connected correctly, run a self test as described in "Printing a Self Test" on page 103.
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 "Electronic" on page 164 and your computer documentation.
Your software is not properly set up for your printer.	Select your printer from the Windows desktop or in your application. You may need to install or reinstall the printer software as described in the <i>User's Guide</i> .

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

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 remove and reinstall the ribbon cartridge as described on page 127.

## The printout is pale or faint.

Cause	What to do
The ribbon is worn out.	Replace the ribbon cartridge as described on page 127.

## 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 on page 127.
The ribbon is worn out.	Replace the ribbon cartridge as described on page 127.

## 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. Also, other parts of the printer must 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 so that the printer automatically adds a line feed code to each carriage return. See "Changing the settings in SelecType mode" on page 94 for details.

## 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, because the printer's auto line feed setting is on.	Turn off the auto line feed setting using the printer's SelecType mode. See "Changing the settings in SelecType mode" on page 94 for details.
The line space setting in your application software is incorrect.	Adjust the line space setting in your application software.

## 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 use the correct interface cable and that the communications protocol is correct. See "Electronic" on page 164 and your computer documentation.
The wrong character table is selected in your software.	Select the correct character table using your software or SelecType mode. The character table setting in your software overrides settings made in the SelecType mode.
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 configured correctly for your printer. See your application documentation. If necessary, install or reinstall the printer driver software as described in the <i>User's Guide</i> .

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Software settings override settings you make using the default-setting mode or the control panel buttons.

Use your application software to select the font.

### **Vertical printed lines are not aligned.**

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**Cause****What to do**

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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" on page 123.

## ***Option problems***

### **The perforation cutter is installed and the printer does not feed continuous paper properly.**

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**Cause****What to do**

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The perforation cutter's connector is not plugged securely into the printer.

Turn off the printer, then check the perforation cutter connector.

## The perforation cutter is installed and the paper is not cut properly.

Cause	What to do
The wrong paper source is selected in the printer driver.	Select the paper source you want to use in the printer driver.
You didn't turn on Auto cut mode in SelecType.	Use SelecType to set the Auto cut mode to On. Note that if you select a different setting through the printer driver, it overrides the Auto cut mode setting.
You didn't set the page length to match your paper.	Use SelecType to set the Page length for Rear tractor or Page length for Front tractor to match your paper.

## Paper jams, does not feed smoothly.

Cause	What to do
The perforation cutter is not correctly installed.	Remove the perforation cutter and then reinstall it, making sure the mounting notches and pins fit together properly. See "Installing the pull tractor" on page 133 for instructions.

## Network problems

### Cannot configure the network interface or cannot print from the network.

Cause	What to do
The printer settings or network settings may be wrong.	<p>First, check to see if you can print a status sheet, as described in the manual for the Print Server you are using. If you can print a status sheet, check the network settings; otherwise, set the interface mode of the printer's control panel to <i>Auto</i>.</p> <p>See if print jobs from other computers are being printed through the network.</p> <p>When a job is printed, the printer or your computer may have a problem. Check the connection between the printer and your computer, as well as the printer driver settings and your computer settings.</p> <p>When a job is not printed, the network settings may be incorrect. Ask your network administrator for help.</p>

---

## **Correcting USB Problems**

If you are having difficulty using your printer with a USB connection, read the information in this section.

*Make sure that your computer is a Windows XP, Me, 98, or 2000 pre-installed model*

Your computer must be a Windows XP, Me, 98, or 2000 pre-installed model. You may not be able to install or run the USB printer driver on a computer that is not equipped with a USB port or which has been upgraded from Windows 95 to Windows XP, Me, 98, or 2000.

For details about your computer, contact your dealer.

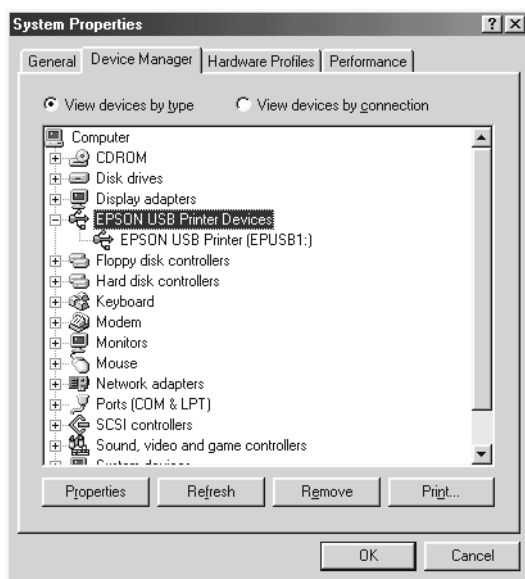
*Make sure that EPSON USB Printer Devices appears on the Device Manager menu (for Windows Me and 98 only)*

If you canceled the plug-and-play driver installation before the procedure was complete, either the USB printer device driver or the printer driver may be incorrectly installed.

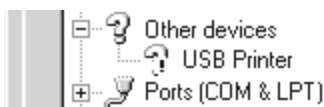
Follow these steps to check the installation and reinstall the drivers:

1. Turn the printer on, and plug the USB cable into the printer and the computer.
2. Right-click the My Computer icon on your desktop, then click Properties.
3. Click the Device Manager tab.

If your drivers are correctly installed, EPSON USB Printer Devices should appear on the Device Manager menu.



If EPSON USB Printer Devices does not appear on the Device Manager menu, click the plus (+) sign beside Other devices to view the installed devices.

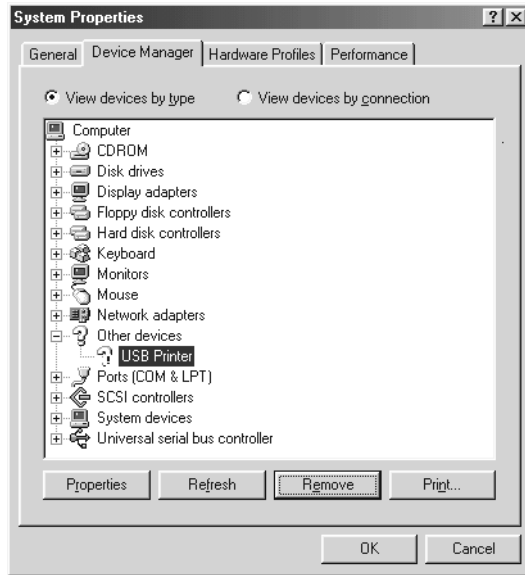


If USB Printer appears under Other devices, the USB printer device driver is not installed correctly. If EPSON DFX-9000 appears, the printer driver is not installed correctly.

If USB Printer, or EPSON DFX-9000 does not appear under Other devices, click Refresh or unplug the USB cable from the printer, then plug it into the printer again.



4. Under Other devices, select USB Printer or EPSON DFX-9000 and click Remove. Then, click OK.



5. When the following dialog box appears, click OK. Then click OK again to close the System Properties dialog box.



6. Turn off the printer and restart your computer. Then, reinstall the drivers from the beginning, following the instructions in the *User's Guide*.

## *Printer does not work correctly with the USB cable*

If your printer does not work correctly with the USB cable, try one or more of these solutions:

- ❑ Make sure that the cable you are using is a standard, shielded USB cable.
- ❑ If you are using a USB hub, connect the printer to the first tier of the hub, or connect the printer directly to the computer's USB port.
- ❑ For Windows Me or 98, try reinstalling the USB printer device driver and the printer software. First, uninstall EPSON Printer Software using the Add/Remove (or Change/Remove) Programs utility in the Control Panel, then uninstall EPSON USB Printer Devices. Next, reinstall the software as described in the *User's Guide*. If EPSON USB Printer Devices is not registered in the Add/Remove Programs list, access the CD-ROM and double-click `epusbun.exe` in `\<Language>\WINME` or `\<Language>\WIN98` folder. Then follow the on-screen instructions.

---

## ***Clearing Paper Jams***

Follow these steps to clear a paper jam:

1. Turn off the printer.
2. Open the front cover or back cover (depending on the tractor you are using).
3. Tear off the fresh supply at the perforation.
4. Gently pull the paper out of the printer. Remove any remaining pieces of paper.
5. Close the printer cover and turn on the printer. Make sure the Paper Out light is not flashing and the Pause light is off.

---

## ***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.

During bidirectional adjustment, the printer prints three sheets of alignment patterns, labeled High Speed Draft, Draft, and NLQ (near letter quality). As described below, you select the best alignment pattern from each sheet.

***Note:***

*The setting instructions are printed in the language you chose in SelecType mode. If you want a different language, see "Changing the settings in SelecType mode" on page 94 for instructions.*

Follow these steps to perform the bidirectional adjustment:

1. Make sure paper is loaded, then turn off the printer.



**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 PAUSE button and turn on the printer. The printer enters the bidirectional adjustment mode and prints instructions and the first set of alignment patterns.
3. As described in the instructions, compare the alignment patterns and select the aligned pattern number with the best alignment by pressing the Font (Item▲) or Pitch (Item▼) button. The LCD shows the pattern number that is selected at the time. Press the Set▼ (Top of Form) button to fix the selected pattern number and print the next set of alignment patterns.
4. Select the pattern with the best alignment for each of the remaining sets of alignment patterns.
5. After you select the best pattern in the final set of alignment patterns and save it by pressing the Set▼ (Top of Form) button, turn off the printer to exit bidirectional adjustment mode.

---

## Restoring the Printer's Default Settings

If you encounter problems while printing, you may need to reset the printer's default settings. Press the Font (Item▲) and Pitch (Item▼) buttons at the same time to stop printing, clear any print job being received from the active interface, and clear errors that may have occurred at the interface.

This operation restores the printer's settings to their default values.

### Note

*If you just want to cancel printing, and don't want to restore the default settings, see "Canceling Printing" on page 74.*

---

## Where To Get Help

If your Epson printer is not operating properly and you cannot solve the problem using the troubleshooting information, see the contact information below. Epson provides technical assistance 24 hours a day through the electronic support services and automated telephone services listed below.

Service	Access
World Wide Web	From the Internet, you can reach Epson Support at <a href="http://support.epson.com">http://support.epson.com</a> . At this site, you can download drivers and other files, look at product documentation, access troubleshooting information, and receive technical advice through e-mail.
Automated Telephone Services	A variety of automated help services are available 24 hours a day, seven days a week. To use these services, you must have a touch tone telephone and call <b>(800) 922-8911</b> . Use the following Epson SoundAdvice <sup>SM</sup> Express Code to quickly select the DFX-9000 in SoundAdvice: <b>70620</b> .

To speak to a technical support representative, dial:

- U.S.: **(562) 276-4322**, 6 AM to 6 PM, Pacific Time, Monday through Friday.
- Canada: **(905) 709-2170**, 6 AM to 6 PM, Pacific Time, Monday through Friday.

Toll or long distance charges may apply. Before you call, please have the following information ready:

- Product name (Epson DFX-9000)
- Product serial number (located on the back of the printer)
- Proof of purchase (such as a store receipt) and date of purchase
- Computer configuration
- Description of the problem

You can purchase ribbon cartridges, paper, and accessories from an Epson-authorized reseller. For product information and to find the nearest authorized reseller, please call 800-GO-EPSON (800-463-7766) or browse our catalog of products at [www.epson.com](http://www.epson.com), select the product you are interested in, and click "Where to Buy." To purchase online, please visit the Epson Store<sup>S</sup> at [www.epsonstore.com](http://www.epsonstore.com) (U.S. sales only). In Canada, please call (800) 463-7766 for a reseller referral.

## Ribbon Cartridge

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.

Your printer uses the following ribbon cartridge:

Epson black ribbon cartridge: S015384

## Replacing the Ribbon Cartridge

Follow the steps below to replace the ribbon cartridge.

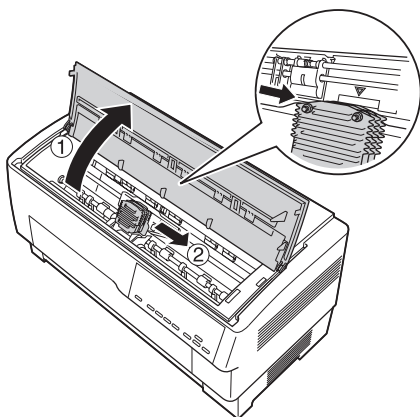


**Warning:**

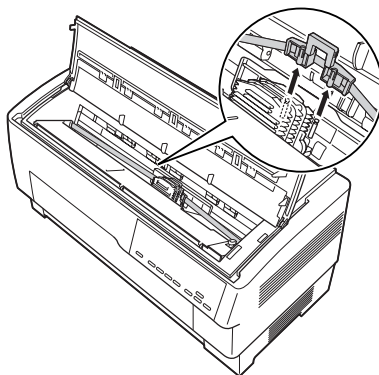
*If the printer has been used recently, the print head may be hot. Let it cool before attempting to replace the ribbon.*

1. Make sure the printer is not printing. (Press the Pause button if necessary.)
2. Turn off the printer.

3. Open the top cover and slide the print head to the ▽ mark.

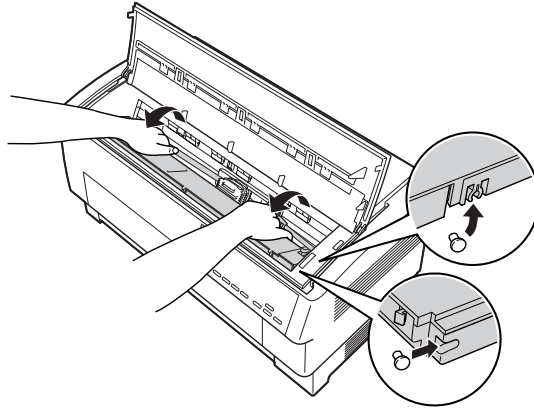


4. Lift the ribbon guide off the print head as shown below.



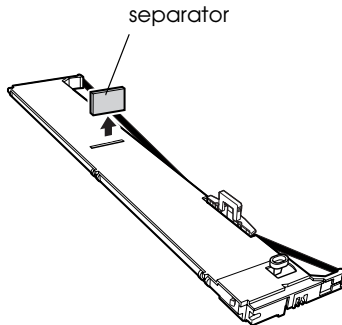


5. Pull up the ribbon cartridge as shown below to release it from the printer's mounting pins. Remove the cartridge by lifting it up and away from you.

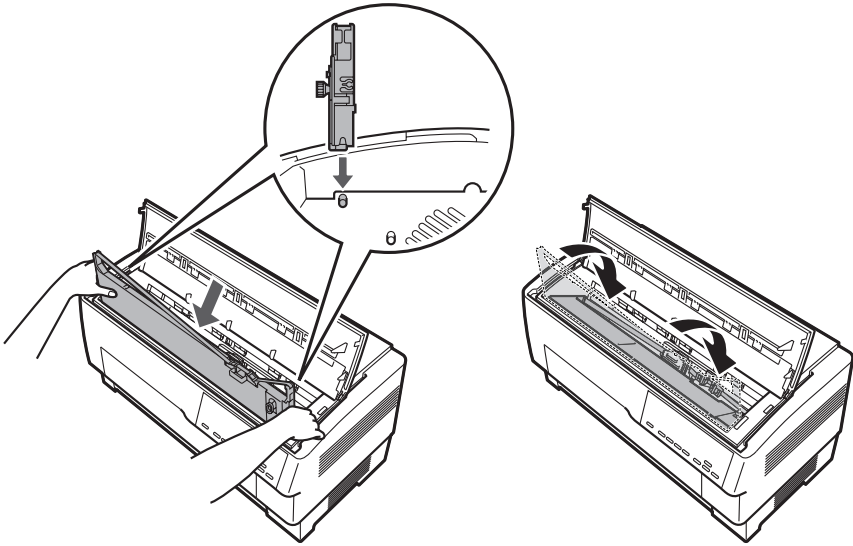


**Caution:** *Make sure you don't pull on the flat white cable beneath the ribbon cartridge.*

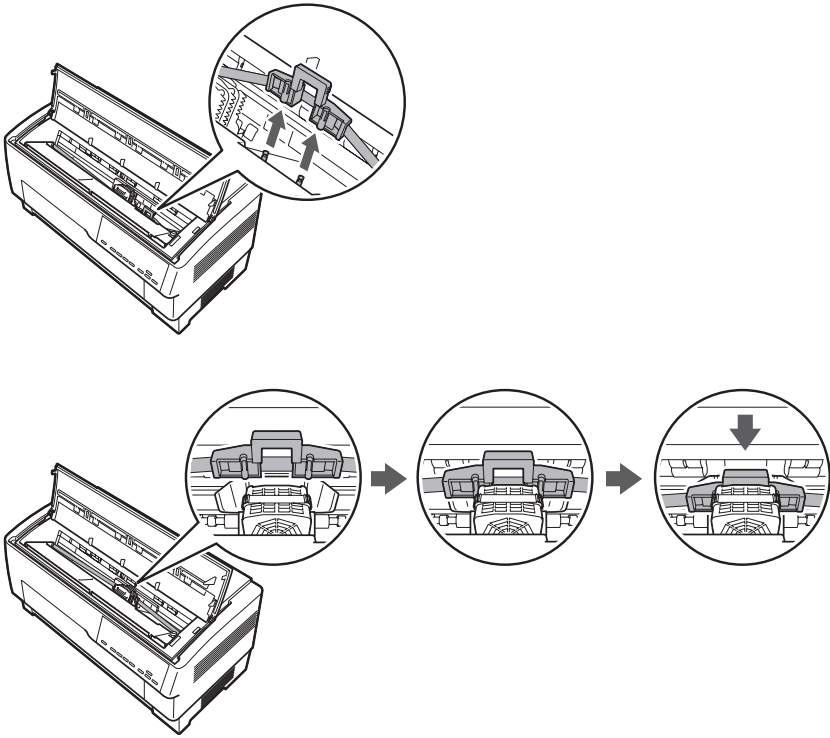
6. Unpack the new ribbon cartridge. Remove the plastic separator from the middle of the cartridge and discard it.



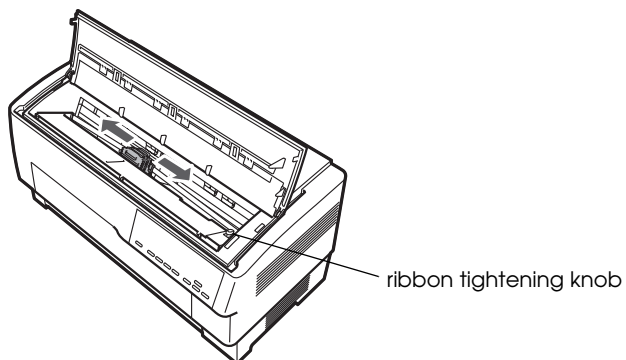
7. Holding the sides of the cartridge, place the notch on each end onto the metal posts inside the printer. Then tilt the cartridge down into the printer until it clicks into place.



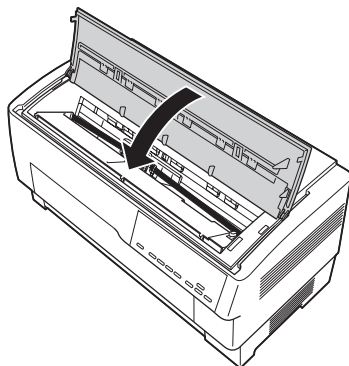
8. Lift up the black plastic ribbon guide and slide it down behind the print head until it clicks into place. Do not twist or crease the ribbon.



- Slide the print head back and forth to make sure it moves freely. If not, lift up the ribbon guide and try again.



- Turn the ribbon-tightening knob to remove any slack.
- Close the top cover.



---

## Using the Pull Tractor

The optional pull tractor (C800382) provides optimum continuous paper handling. The pull tractor is especially useful with continuous multi-part forms and labels. For best results, use the pull tractor with either the printer's front or rear built-in tractor, as described in this section.

**Note:**

*When the pull tractor is installed, the tear-off feature is not available.*

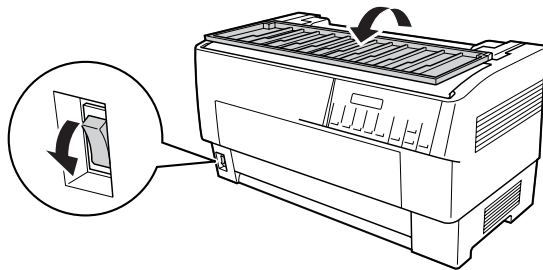
## Installing the pull tractor

To install the pull tractor, you need a cross-head screwdriver.

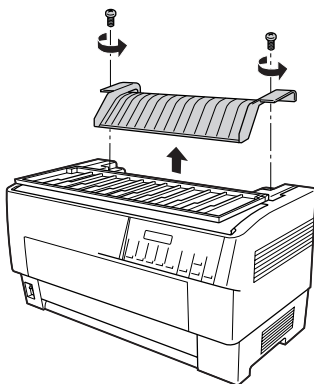
**Note:**

*If you are going to be using the pull tractor with the built-in rear tractor, you should load paper onto the rear tractor before installing the pull tractor. See "Loading Paper Onto the Rear Tractor" on page 22 for instructions.*

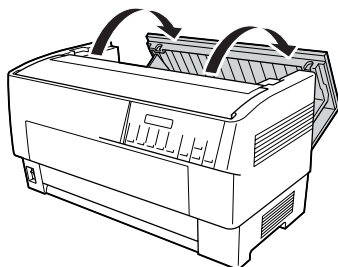
1. Turn off the printer and open the paper separator cover.



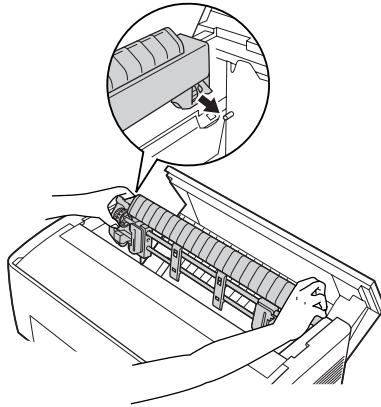
2. Use a cross-head screwdriver to remove the two screws securing the paper separator to the printer. Then lift it off the printer.



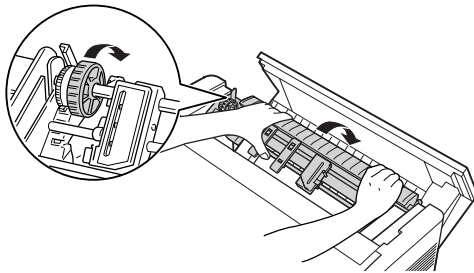
3. Close the paper separator cover and open the printer's back cover.



4. Holding the pull tractor with its gears to the left, fit the tractor's front notches over the mounting shaft of the printer.



5. Then tilt the pull tractor back until its rear latches click into place over the printer's rear mounting pins.



6. Close the printer's back cover.

## ***Using the pull tractor with the front tractor***

If you are using labels or multi-part forms with more than seven parts (including the original), you should use the pull tractor with the printer's built-in front tractor.

You can switch between the front and rear tractors at any time when you are using the pull tractor. Just press the **Front/Rear** button and then use the **LF/FF LOAD** button to feed the paper the additional distance to the pull tractor. (Labels require special handling. See "Using labels" on page 42 for details.)

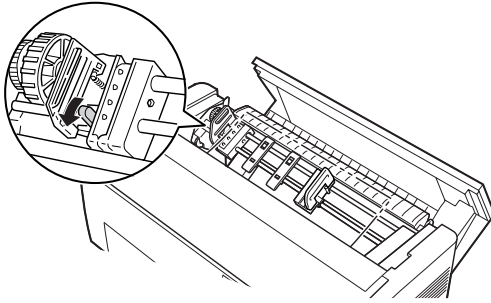
To tear off documents, press the **LF/FF LOAD** button to advance the paper to a point where it can be torn off.

To use the pull tractor with the front tractor, follow these steps:

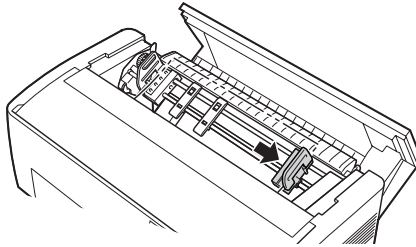
1. Turn on the printer and open the back cover.
2. Make sure paper is loaded on the front tractor to the top-of-form position. If paper is already loaded on the tractor but it is in the standby position, press the **Front/Rear** or **LF/FF LOAD** button (depending on which tractor is selected) to load the paper to the top-of-form position. (If no paper is loaded on the front tractor, load paper. See "Loading Paper Onto the Front Tractor" on page 15 for instructions.)
3. Once you have paper loaded on the printer's front tractor, use the **LF/FF LOAD** button to advance the paper to the pull tractor.



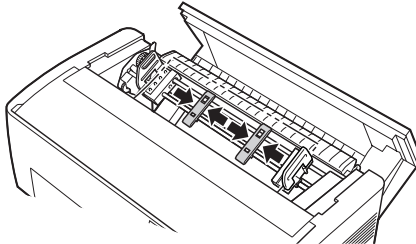
4. Release both sprocket lock levers on the pull tractor by pulling them toward you. Then open both sprocket covers.



5. Adjust the sprockets to match the width of your paper.



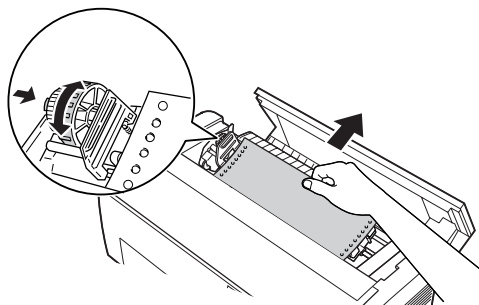
6. Slide the two paper supports so they are spaced evenly between the two sprockets.



**Note:**

*When you use paper that is less than four inches wide, remove the paper supports by pulling them off the tractor.*

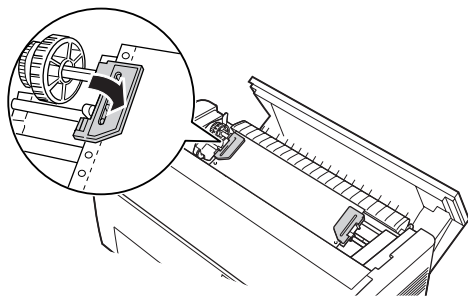
7. Fit the sprocket holes of the paper over the sprocket pins. If there is slack in the paper or if the holes in the paper do not align properly with the sprocket pins, pull the paper slightly and use the pull tractor knob to adjust the position of the paper as shown below. Slide the knob to the right first, and then turn it as necessary.



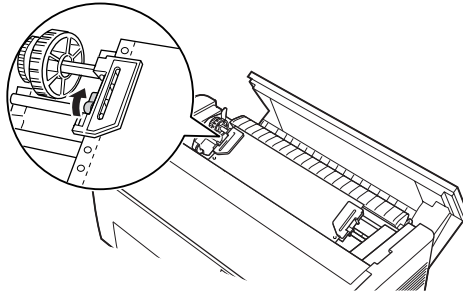
**Caution:**

*Be sure the sprockets on the built-in front tractor and the optional pull tractor are aligned.*

8. Close the sprocket covers.



9. Adjust the two sprockets until the paper is straight and smooth, and then lock the sprockets into place.



**Caution:**

*Be sure the sprockets are not too far apart. Your paper could jam if they pull the paper too tightly or tear the edges of the paper holes. To remove any excess tension in your paper, release the right sprocket and lock it again.*

10. Adjust the top-of-form position, if necessary. See “Adjusting the top-of-form position” on page 29 for instructions.
11. Close the back cover. Press the LF/FF LOAD button to feed the paper out the back of the printer. Make sure the edge of the first sheet emerges below the paper separator.

## Using the pull tractor with the rear tractor

If you are using labels or multi-part forms with more than seven sheets (including the original), do not use the rear tractor; use the front tractor. See “Using the pull tractor with the front tractor” on page 136 for details.

You can switch between the front and rear tractors at any time when you are using the pull tractor. Just press the Front/Rear button and then use the LF/FF Load button to feed the paper the additional distance to the pull tractor.

To tear off printed pages, press the LF/FF Load button to advance the paper to a point where it can be torn off.

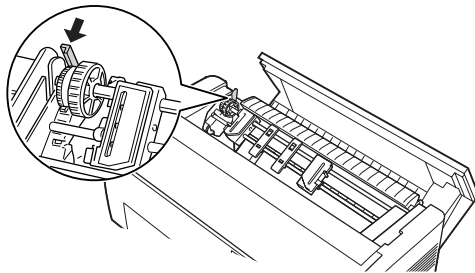
The following steps explain how to load paper using the optional pull tractor (already installed) with the printer’s built-in rear tractor. If you have not yet installed the pull tractor, load paper onto the rear tractor and then install the pull tractor. See “Installing the pull tractor” on page 133 for instructions.

1. Turn off the printer, then open the back cover.

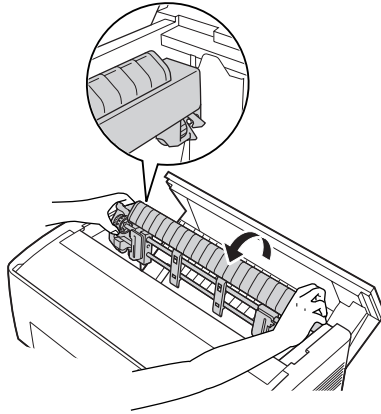
**Note:**

*If paper is loaded on the rear tractor, in either the top-of-form or standby position, skip to step 6.*

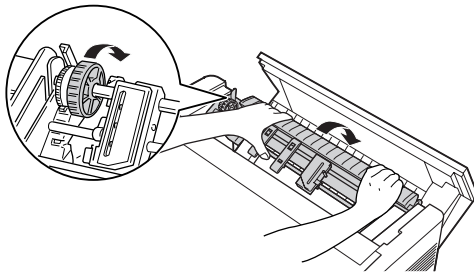
2. Pull the levers on the pull tractor toward you to release the pull tractor.



3. Tilt the tractor forward so that its pins rest on the metal frame of the printer.



4. Load paper onto the rear tractor by following steps 3 through 10 of “Loading Paper Onto the Rear Tractor” on page 22.
5. Then tilt the pull tractor back until the rear latches click into place over the printer’s rear mounting pins.



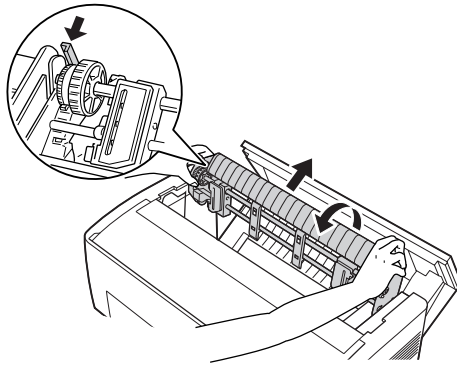
6. Turn on the printer, and use the LF/FF Load button to advance the paper to the pull tractor.

Now follow steps 4 through 11 of “Using the pull tractor with the front tractor” on page 136.

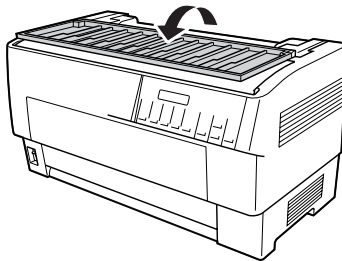
## Removing the pull tractor

To remove the pull tractor you'll need a cross-head screwdriver and the paper separator that was originally installed on the printer.

1. Remove any paper installed on the tractor and turn off the printer.
2. Open the back cover and locate the levers that lock the pull tractor in place on the printer. Pull these levers forward to release the pull tractor. Then lift the tractor up and out of the printer.



3. Close the back cover and open the paper separator cover.



4. Use a cross-head screwdriver to remove the two screws securing the paper separator to the printer. Then remove the paper separator that came with the pull tractor.
5. Using the two screws, reinstall the original paper separator and close the paper separator cover.

---

## ***Using the Perforation Cutter***

The optional perforation cutter (#C81507X) makes using continuous paper easier by cutting off the perforation of your printed documents for you. When you use the perforation cutter, be sure to set the page length to match your paper.

The perforation cutter comes with the perforated paper output attachment and the perforated paper output tray. See “Attaching the perforated paper output attachment and output tray” on page 148 to attach the perforated paper output attachment and the output tray.

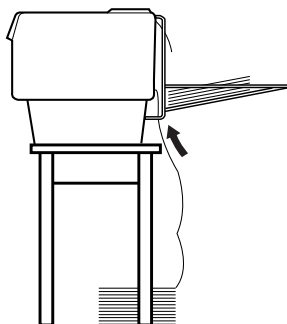


***Caution:***

- When the perforation cutter is installed, never cut labels, overlapping multi-part forms, or continuous forms with labels.*
- Make sure that the paper thickness and perforation between pages are within the specified ranges. See the paper specifications in Appendix A.*
- Make sure the paper is at least 4 inches long and no wider than 16 inches.*
- When using multi-part forms with the perforation cutter, make sure that you use multi-part forms with seven parts (one original and six copies) or less.*

If you plan to load continuous paper from the rear tractor, be sure to leave enough room around the printer for the attached perforated paper output attachment and the output tray, and for the stack of fresh paper. Make sure you align your paper supply with the paper loaded in the tractor so the paper feeds smoothly into the printer.

The following illustration shows one way to position your paper with the rear tractor loaded.



## ***Installing the perforation cutter***

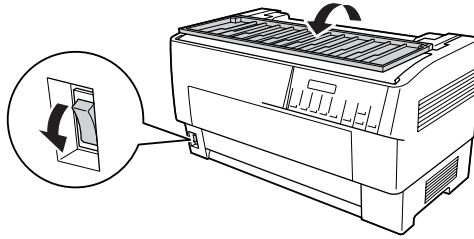
The steps below show you how to install the perforation cutter. You will need a cross-head screwdriver.

### ***Note:***

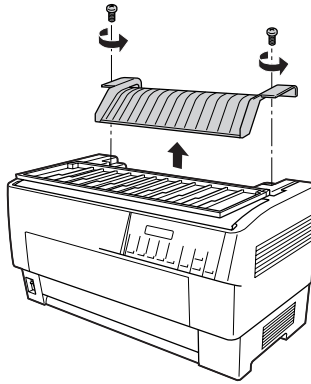
*If you plan to use the perforation cutter with the built-in rear tractor, you need to load paper onto the rear tractor before you install the perforation cutter. See “Loading Paper Onto the Rear Tractor” on page 22 for instructions.*



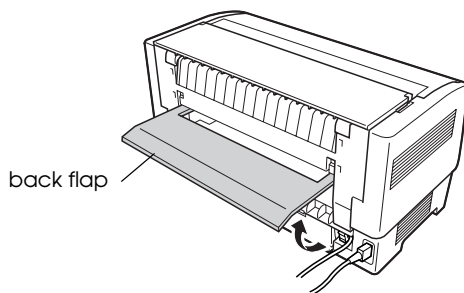
1. Turn off the printer and open the paper separator cover.



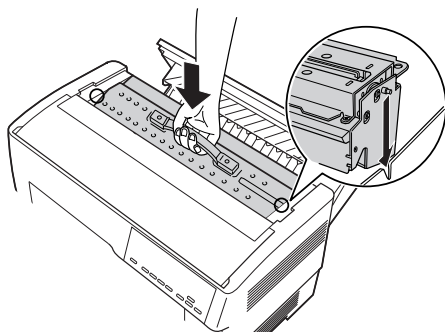
2. Use a cross-head screwdriver to remove the two screws securing the paper separator to the printer. Then lift off the paper separator. Store the paper separator and screws for later use.



3. Close the paper separator cover. Then open the back flap and lock it in place.

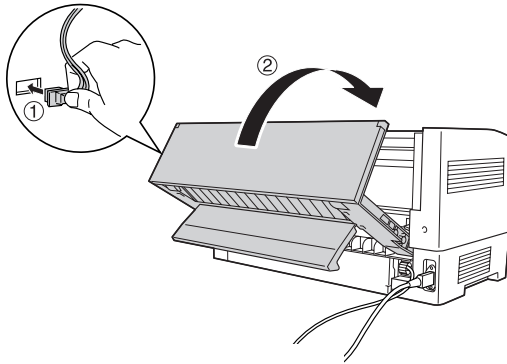


4. Open the back cover.
5. Hold the perforation cutter by its handle with the connector facing to the right. Then lower the perforation cutter into the space at the back of the printer, fitting the pins on the sides of the perforation cutter into the notches in the printer.

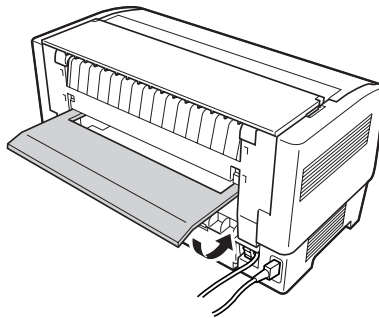


6. After the perforation cutter is in place, push back the perforation cutter handle flat.

7. Plug the perforation cutter's connector securely into the connector inside the printer. Then close the back cover.



8. Close the back flap.



## ***Attaching the perforated paper output attachment and output tray***

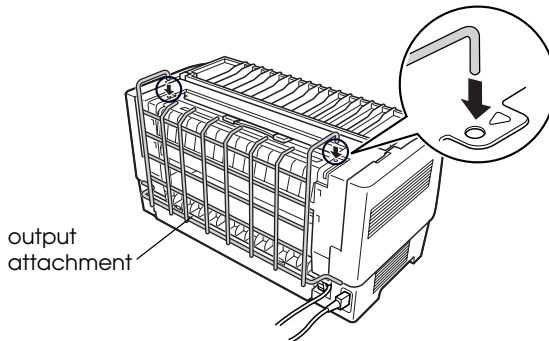
The perforation cutter comes with the perforated paper output attachment and the perforated paper output tray for stacking printed sheets. You can stack up to 200 sheets of paper or 100 multi-part forms on the output tray.

### ***Note:***

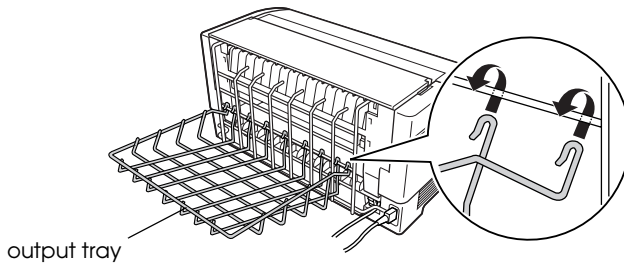
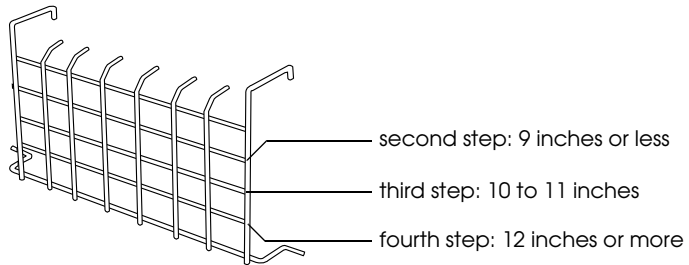
- Stacked pages may flip over on the output tray.*
- Do not allow the printer to stack more than 200 sheets of paper or 100 multi-part forms on the output tray.*
- Remove the output tray when you will be printing hundreds of pages and will not need to cut the printed pages.*

To attach the perforated paper output attachment and the output tray, follow these steps:

1. Open the paper separator cover and attach the output attachment as shown below.



2. Close the paper separator cover and position the output tray on the output attachment to accommodate the page length of paper you use:



You are now ready to use the perforation cutter as described in the next section.



**Caution:**

- ❑ You cannot open the top cover while the perforated paper output attachment and the output tray is attached. If you want to open the top cover, you need to remove them first.
- ❑ When you are ready to reload the paper onto the rear tractor, first remove the perforation cutter. See “Removing the perforation cutter” on page 152 for instructions.

## ***Using the perforation cutter***

This section describes how to use the perforation cutter with continuous paper. Before printing with the perforation cutter installed, set the page length to match your paper using your software or SelecType mode. See “Changing the settings in SelecType mode” on page 94 for details.

### ***Note:***

- The perforation cutter requires that the paper have perforations; for best results, the paper should be fan-folded.*
- The last page may not be ejected completely. If this happens, gently pull it out of the printer.*
- The perforation cutter cannot cut the last 11 inches of continuous paper.*

## ***Cutting off a printed document***

You can cut off a printed document using one of the following methods:

- ❑ If you set the cutting method through the printer driver, the printer driver setting overrides the SelecType settings.

You can select the following from the printer driver's paper source settings:

Tractor Front: Do not cut  
Tractor Front: Cut last page only  
Tractor Front: Cut each page  
Tractor Rear: Do not cut  
Tractor Rear: Cut last page only  
Tractor Rear: Cut each page

- ❑ Set the Auto cut mode setting to On in SelecType mode. See page 94 for instructions.
- ❑ Select the printer's tear-off mode as follows:
  1. Make sure printing has finished. Open the paper separator cover. You see the perforation cutter's tear-off edge.
  2. Press the **Tear Off** button to enter tear-off mode. The printer feeds the paper's perforation to the perforation cutter's tear-off edge.
  3. If the paper is not aligned with the tear-off edge, adjust the tear-off position by pressing the **Micro Feed** buttons.
  4. Press the **Tear Off** button again. The printer cuts off your printed document and feeds the fresh paper back to the top-of-form position.

## ***Switching tractors***

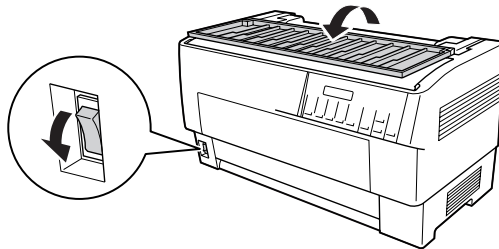
To switch tractors when the perforation cutter is installed, follow these steps:

1. Make sure the printer is turned on. If you are in the middle of printing a document, wait for the printer to finish printing before you switch tractors.
2. If no paper is loaded in the tractor you want to use, load paper. See “Loading Paper Onto the Front Tractor” on page 15 or “Loading Paper Onto the Rear Tractor” on page 22 for instructions.
3. Press the Front/Rear button to switch to the other tractor. The printer cuts off the printed document, feeds the paper on the tractor backward to the standby position, and then advances the paper on the other tractor to the loading position.

## ***Removing the perforation cutter***

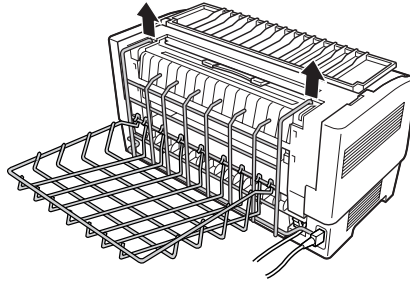
To remove the perforation cutter, follow the steps below. Then store it in its original box and packing materials.

1. Cut off any printed document in the printer as described in the previous section.
2. Turn off the printer and open the paper separator cover.

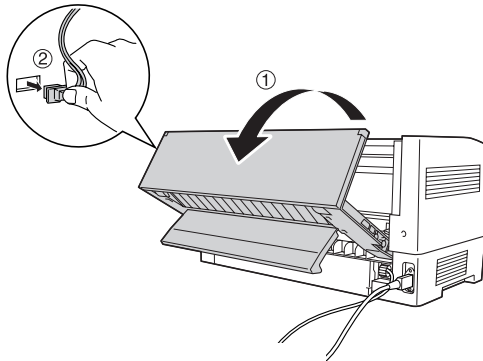




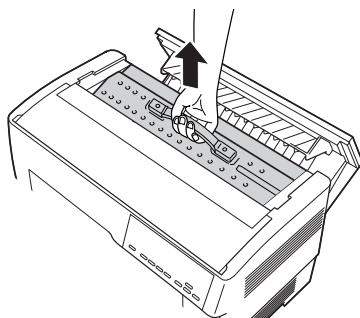
3. Remove the perforated paper output attachment and the output tray from the printer.



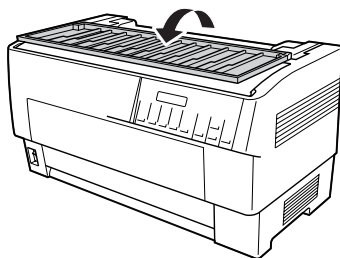
4. Open the back cover. Then unplug the paper cutter's connector from the printer.



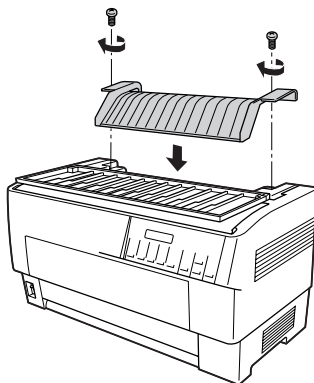
5. Grasp the handle on the perforation cutter and lift it up and out of the printer.



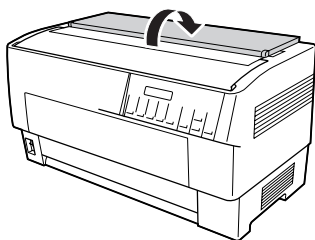
6. Close the back cover and open the paper separator cover.



7. Reattach the paper separator using the two screws that you removed before.



8. Close the paper separator cover.



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## ***Using Interface Cards***

You can use optional interface cards to supplement your printer's built-in USB, serial, and parallel interfaces. The Epson interface cards below are compatible with your printer. (Not all of these interfaces are available worldwide.)

<b>Number</b>	<b>Name</b>
C82305*/C82306*	Serial interface
C82307*/C82308*	32KB intelligent serial interface
C82312*	LocalTalk interface
C82313*	32KB IEEE-488 interface
C82314*	Coax interface
C82315*	Twinax interface
C82345*	IEEE-1284 parallel interface
C82434*	EpsonNet 10/100 Base Tx Int. Print Server 5

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

If you are not sure whether you need an optional interface or would like to know more about interfaces, contact your Epson dealer.

**Note:**

Your printer has an auto interface mode function that allows you to connect to more than one interface at a time. See "Changing the settings in SelecType mode" on page 94 for details.

Coax and twinax interfaces enable the printer to communicate with an IBM minicomputer or mainframe via coax or twinax protocol. This allows Epson printers to function as local IBM printers without the addition of any other circuitry or components.

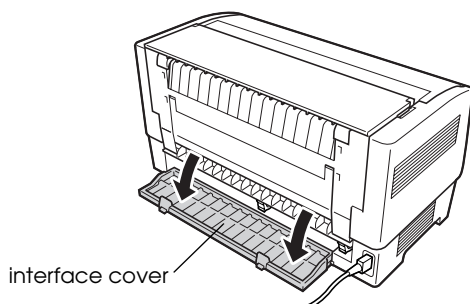
## ***Installing an interface card***

Follow the steps below to install an optional interface card.

**Note:**

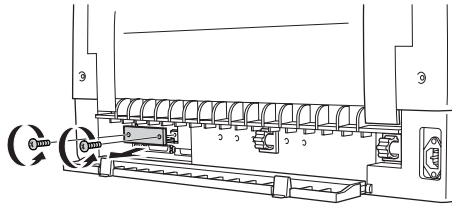
If you install an optional interface card, be sure to select the interface you use in SelecType mode. See "Changing the settings in SelecType mode" on page 94 for details.

1. Turn off both your printer and your computer. Then remove all power and interface cables from the printer.
2. Open the interface cover on the back of the printer.

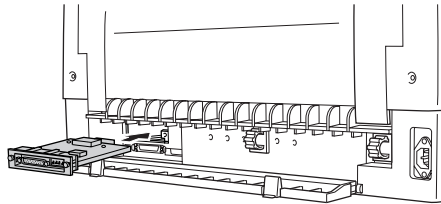


3. Be sure to set any switches and jumpers on the card, as necessary. (See the interface card's manual for details.)

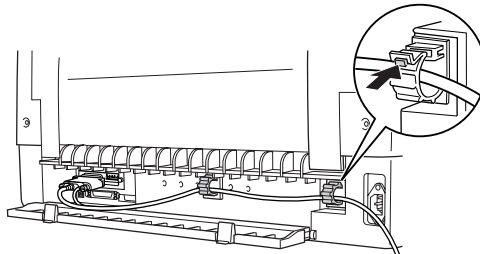
4. Use a screwdriver to remove the screws securing the interface shield plate; remove the shield plate.



5. Slide the interface card into the grooves in the interface slot. Push it in firmly to make sure it connects to the printer's internal socket.



6. Secure the interface card using the screws that came with it.
7. Plug the connector cable into the interface card as shown.



8. Plug the other end of the cable into your computer.

9. Close the interface cover.
10. Plug the power cord into your printer and an electrical outlet.

## ***Using a serial interface card***

To use a serial interface card (C82305\* or C82306\*), see the sections below to set the correct baud rate, handshake timing, and error handling. For all other data transfer conventions, such as word structure and communications protocol, see your interface card manual.

### ***Selecting a baud rate***

You can select from the following baud rates: 300, 600, 1200, 2400, 4800, 9600, and 19200 bps (bits per second). To set the baud rate, see the bit-rate selection table in your interface card manual.

### ***Handshake timing***

When the unused area for data in the input buffer drops to 256 bytes, the printer outputs an X-OFF code or sets the DTR flag to 1 (MARK) to indicate that it cannot receive data. When the unused area increases to 512 bytes, the printer outputs an X-ON code or sets the DTR flag to 0 (SPACE) to indicate that it is ready to receive data.

### ***Error handling***

When the printer detects a parity error, it prints an asterisk (\*). The printer ignores all other errors, including framing and overrun errors.

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## ***Using a Print Server***

You can use this printer as a network printer by installing the EpsonNet 10/100 Base Tx Int. Print Server 5 (C82434\*) in the printer's parallel interface port. See the Administrator's Manual packaged with this option for instructions on installation and use.

### ***Setting the IP address from the control panel***

Follow these steps to get the IP address using the control panel:

1. Turn on the printer.
2. Press the Menu (Tear Off and Top of Form) buttons to enter SelecType mode.
3. Press the Item▲ (Font) or Item▼ (Pitch) button to select the Get IP address setting and set the setting to Panel using the Set▲ (Tear Off) or Set▼ (Top of Form) button.
4. Press the Item▼ (Pitch) button to select the IP byte 1.
5. Change the number for the IP byte 1 using the Set▲ (Tear Off) or Set▼ (Top of Form) button.
6. Press the Item▼ (Pitch) button to select the next byte and change the number using the Set▲ (Tear Off) or Set▼ (Top of Form) button.
7. Repeat step 6 until the number for the IP byte 4 is set.
8. Set the numbers for SM byte 1 to 4 and GW byte 1 to 4 as you did for the IP byte.
9. Confirm the numbers that you selected for the IP byte 1 to 4, SM byte 1 to 4, and GW byte 1 to 4 are correctly set.

10. When you finish, press the Menu buttons (Tear Off and Top of Form).
11. The LCD displays Save Setting. If you want to save the settings, select Yes by pressing the Set▲ (Tear Off) button. If you do not want to save the settings, select No by pressing the Set▼ (Top of Form) button.
12. Turn off the printer.

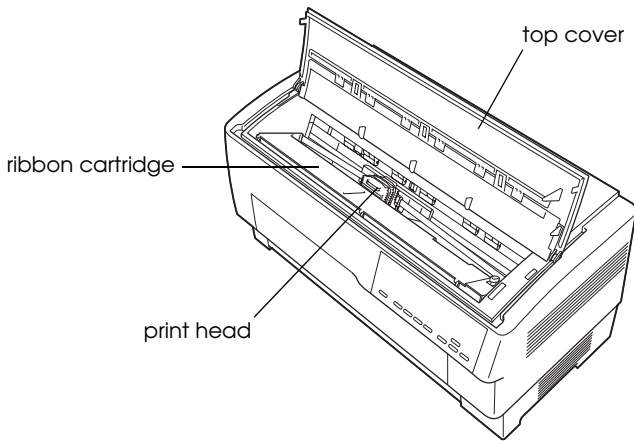
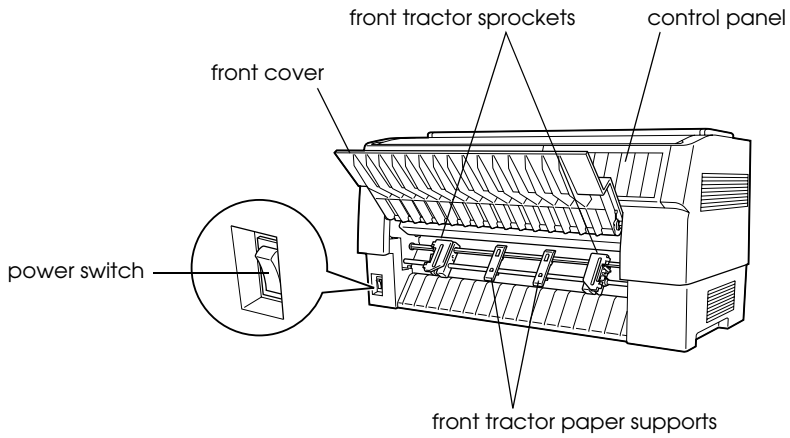


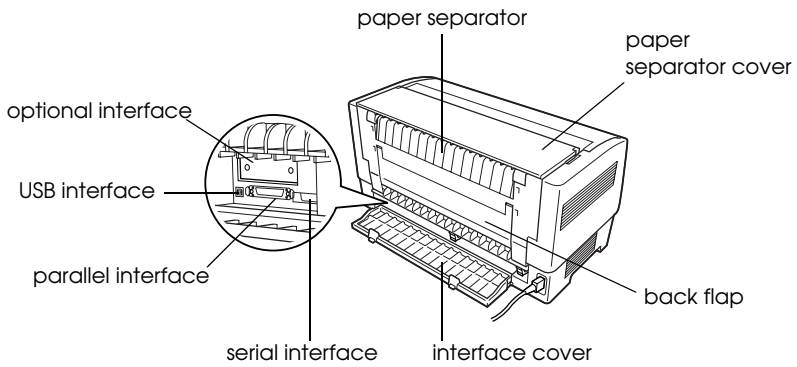
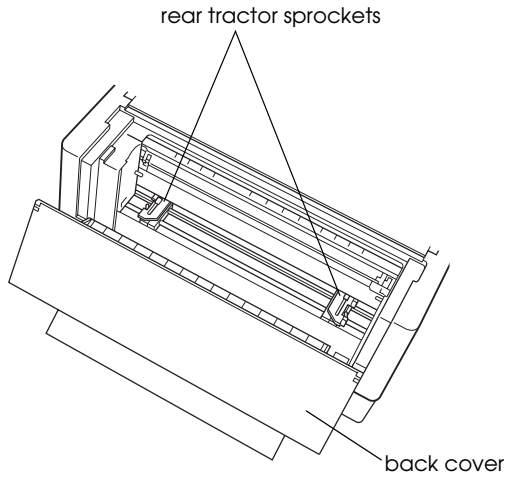
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**Product Information**

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**Printer Parts**





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## **Printer Specifications**

### **Mechanical**

Printing method:	36-pin impact dot matrix (9 × 4, staggered)	
Printing speed:	High speed draft	1550 cps at 10 cpi
	Draft	1320 cps at 10 cpi
	NLQ	330 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-inch or programmable in 1/432-inch increments	
Printable columns:	136 columns (at 10 cpi)	
Resolution:	Maximum 240 × 144 dpi (NLQ)	
Paper feed methods:	Push tractor (front, rear)	
	Push and pull tractor (front, rear); requires additional tractor	
Paper feed speed:	Continuous	381 mm/second 15 inches/second
	Intermittent	25 msec/line at 1/6 inch line spacing
Reliability:	Total print volume	133 million lines (except print head) MTBF 20,000 POH (25% duty)
	Print head life	200 million strokes/wire approx. 400 million characters (Draft, 10 cpi, 14 dots/character)

Dimensions and weight:	Height	363 mm (14.3 inches)
	Width	700 mm (27.6 inches)
	Depth	378 mm (14.9 inches)
	Weight	approx. 34 kg (75 lb)
Ribbon:	Black ribbon cartridge	S015384
	Ribbon life	approx. 15 million characters (draft, 10 cpi, 14 dots/character)
Acoustic noise:	Approx. 58 dB (A) (ISO 7779 pattern)	

## ***Electronic***

Interfaces:	Standard bidirectional, 8-bit, parallel with IEEE 1284 nibble mode support USB (ver 1.1) RS-232C serial Slot for optional Type B interface card
Buffer:	128KB
Fonts:	Bitmap fonts Bar code fonts EAN-13, EAN-8, Interleaved 2 of 5, UPC-A, UPC-E, Code 39, Code 128, POSTNET

Character  
tables:

Standard

One italic and 12 graphics character tables:

Italic table,  
PC 437 (US, Standard Europe),  
PC 850 (Multilingual),  
PC 860 (Portuguese),  
PC 861 (Icelandic), PC 865 (Nordic),  
PC 863 (Canadian-French), BRASCII, Abicomp,  
ISO Latin 1, Roman 8, PC 858, ISO 8859-15

Expanded

One italic and 38 graphics character tables:

Italic table,  
PC 437 (US, Standard Europe),  
PC 850 (Multilingual),  
PC 860 (Portuguese),  
PC 861 (Icelandic), PC 865 (Nordic),  
PC 863 (Canadian-French), BRASCII, Abicomp,  
ISO Latin 1, Roman 8, PC 858, ISO 8859-15, PC 437  
Greek,  
PC 852 (Eastern Europe),  
PC 853 (Turkish), PC 855 (Cyrillic),  
PC 857 (Turkish), PC 866 (Russian),  
PC 869 (Greek), MAZOWIA (Poland),  
Code MJK (CSFR),  
ISO 8859-7 (Latin/Greek),  
ISO Latin 1T (Turkish),  
Bulgaria (Bulgarian),  
PC 774 (LST 1283: 1993),  
Estonia (Estonian), PC 771 (Lithuanian),  
ISO 8859-2, PC 866 LAT. (Latvian),  
PC 866 UKR (Ukranian),  
PC437 Slovenia, PC MC, PC1250,  
PC1251, PC APTEC (Arabic),  
PC 708 (Arabic), PC 720 (Arabic),  
PC AR 864 (Arabic)

Character sets: 13 international character sets and one legal character set: USA, France, Germany, UK, Denmark I, Sweden, Italy, Spain I, Japan, Norway, Denmark II, Spain II, Latin America, Legal

## ***Electrical***

Rated voltage range: 100 to 240 V  
Input voltage range: 90 to 264 V  
Rated frequency range: 50 to 60 Hz  
Input frequency range: 49.5 to 60.5 Hz  
Rated current: 4.8 A (maximum 14.5 A)  
Power consumption: Approx. 185 W (ISO/IEC 10561 letter pattern)  
Approx. 9.5 W in sleep mode

## ***Environmental***

<b>Printer status</b>	<b>Temperature</b>	<b>Humidity (without condensation)</b>
Operating (plain paper)	5 to 35°C (41 to 95°F)	10 to 80% RH
Operating (recycled paper, envelope, label, or roll paper)	15 to 25°C (59 to 77°F)	30 to 60% RH
Storage	-30 to 60°C (-22 to 140°F)	0 to 85% RH

# Paper

**Note:**

- ❑ Use recycled paper, labels, continuous forms with labels, and overlapping multi-part forms only under these normal temperature and humidity conditions:

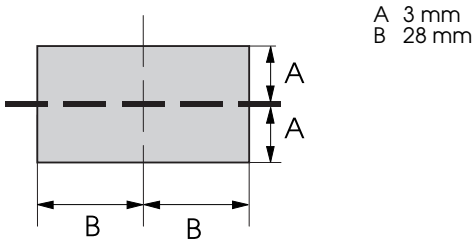
Temperature: 15 to 25°C (59 to 77°F)

Humidity: 30 to 60% RH

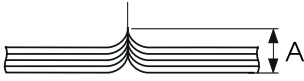
- ❑ Do not load paper that is curled, folded, or crumpled.

## Continuous paper (Single sheets and multi-part forms)

- ❑ Use only continuous paper with less than 5 mm diameter punch holes.
- ❑ The ratio of the cut/uncut length at the perforation should be between 2:1 and 5:1.
- ❑ If the horizontal and vertical perforation cuts cross, do not print in the area illustrated below.

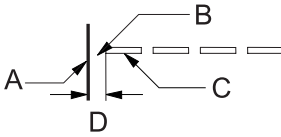


- ❑ The thickness of the perforation part when extended should be 2 mm or less.



A 2 mm or less

- ❑ The perforation between pages should not extend all the way to the edges of the paper. Uncut length on the edges should be 1 mm or more.



A paper edge

B uncut part

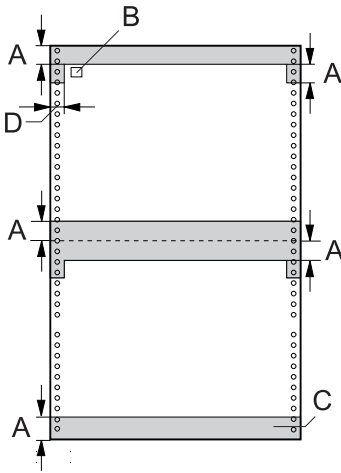
C cut part

D 1 mm or more

- ❑ When using pre-printed paper, the reflectance of the pre-printed color should be 60% or less.



- When using pre-printed paper, make sure the printing does not appear in the shaded area illustrated below.



- A 12 mm
- B first dot
- C Shaded should not be pre-printed
- D 5 mm

*Continuous paper (single sheets):*

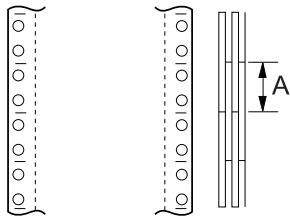
		Rear entry / Front entry	
		Minimum	Maximum
<b>Width</b>	(mm)	76.2	419.1
	(inch)	3	16.5
<b>Length</b>	(mm)	76.2	558.8
	(inch)	3	22
<b>Thickness</b>	(mm)	0.065	0.10
	(inch)	0.0025	0.0039
<b>Weight</b>	(g/m <sup>2</sup> )	52	82
	(lb)	14	22
<b>Quality</b>		Plain paper and recycled paper with point gluing or paper stapling on both sides	

*Continuous paper (multi-part forms):*

		Rear entry		Front entry	
		Minimum	Maximum	Minimum	Maximum
<b>Width</b>	(mm)	76.2	419.1	76.2	419.1
	(inch)	3	16.5	3	16.5
<b>Length</b>	(mm)	76.2	558.8	76.2	558.8
	(inch)	3	22	3	22
<b>Copies</b>		1 original + 6 copies		1 original + 9 copies	
<b>Thickness</b>	(mm)	0.12	0.53	0.12	0.79
	(inch)	0.0047	0.021	0.0047	0.031
<b>Weight</b>	(g/m <sup>2</sup> )	41	56	41	56
	(lb)	11	15	11	15
<b>Quality</b>		Carbonless or carbon-backed multi-part forms with point gluing or paper stapling on both sides			

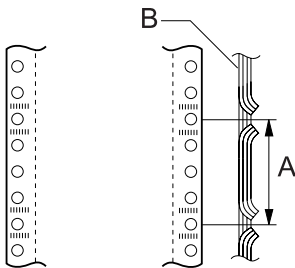
- ❑ Do not load thick paper, such as multipart forms with more than seven parts, on the rear tractor.
- ❑ Form sheets of continuous multi-part forms should be securely joined together along the left and right edges by crimping or spot-gluing. See the illustration below for details.

### spot-gluing on both sides



A 25.4 mm (1 inch) or less

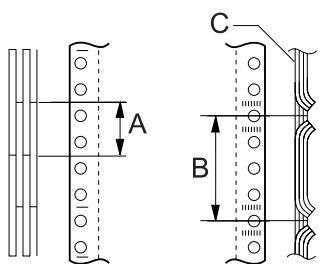
### crimping on both sides



A 76.2 mm (3 inches) or less

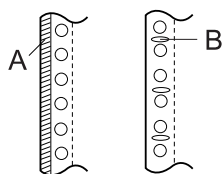
B printing side

## spot-gluing and crimping on opposing sides



- A 25.4 mm (1 inch) or less
- B 76.2 mm (3 inches) or less
- C printing side

- ❑ Do not use continuous multi-part forms that are joined with metal staples, one side crimping, tape-staples, or bar-gluing.



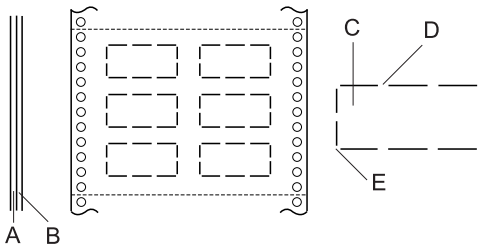
- A bar-gluing
- B metal stapling

## Labels

		Rear entry / Front entry	
		Minimum	Maximum
<b>Width of backing sheet</b>	(mm)	76.2	419.1
	(inch)	3	16.5
<b>Length of backing sheet</b>	(mm)	76.2	558.8
	(inch)	3	22
<b>Thickness of backing sheet</b>	(mm)	0.07	0.09
	(inch)	0.0028	0.0035
<b>Total thickness</b>	(mm)	0.16	0.19
	(inch)	0.0063	0.0075
<b>Label weight</b>	(g/m <sup>2</sup> )	64	
	(lb)	17	
<b>Quality</b>		Plain paper or the same quality labels	

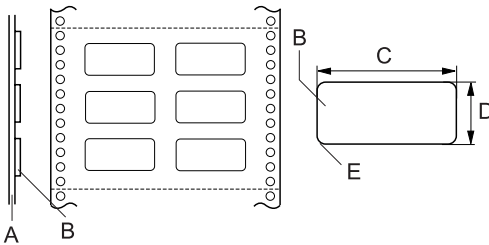
- Use only labels on continuous backing sheets.
  
- Epson recommends using labels whose backing sheet is entirely covered with label material.

Labels whose backing sheet is entirely covered with label material:



- A backing sheet
- B label sheet
- C label
- D There should be several uncut areas on each side
- E Corners should not be cut

Labels whose backing sheet is not covered with label material:

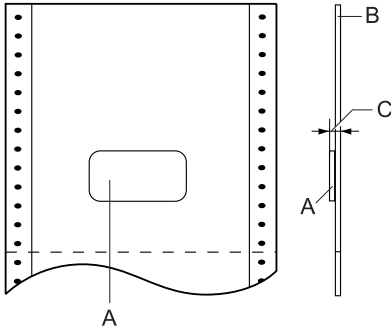


- A backing sheet
- B label
- C 63.5 mm (2.5 inches) or more
- D 23.8 mm (15/16 inch) or more
- E 2.5 mm (0.1 inch) or more

### Continuous forms with labels

		Rear entry		Front entry	
		Minimum	Maximum	Minimum	Maximum
Width of backing sheet	(mm)	76.2	419.1	76.2	419.1
	(inch)	3	16.5	3	16.5
Length of backing sheet	(mm)	76.2	558.8	76.2	558.8
	(inch)	3	22	3	22

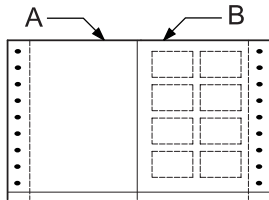
		Rear entry		Front entry	
		Minimum	Maximum	Minimum	Maximum
<b>Total thickness</b>	(mm)	0.065	0.53	0.065	0.79
	(inch)	0.0025	0.021	0.0025	0.031



A label

B backing sheet

C total thickness:  
 0.53 mm (0.021 inch) or  
 less (rear entry)  
 0.79 mm (0.031 inch) or  
 less (front entry)

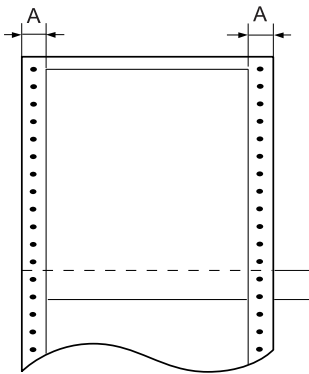


A continuous paper

B label paper

## Overlapping multi-part forms

		Rear entry		Front entry	
		Minimum	Maximum	Minimum	Maximum
<b>Width of backing sheet</b>	(mm)	76.2	419.1	76.2	419.1
	(inch)	3	16.5	3	16.5
<b>Length of backing sheet</b>	(mm)	76.2	558.8	76.2	558.8
	(inch)	3	22	3	22
<b>Total thickness</b>	(mm)	0.13	0.53	0.13	0.79
	(inch)	0.0051	0.021	0.0051	0.031



A 13 mm (0.51 inch) or more

B From the perforation to the bottom of the previous overlapping form:  
13.3 mm (0.52 inch) or less

C From the perforation to the top of the next overlapping form:  
3.3 mm (0.13 inch) or more

D From the perforation to the bottom edge of the glue point area:  
17 mm (0.67 inch) or less

E Total thickness including glue point dilation:  
0.53 mm (0.021 inch) or less (rear entry)  
0.79 mm (0.031 inch) or less (front entry)

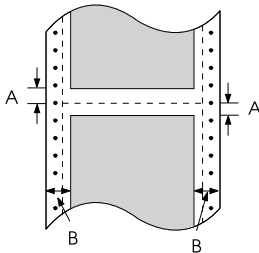


## Printable area

### Note:

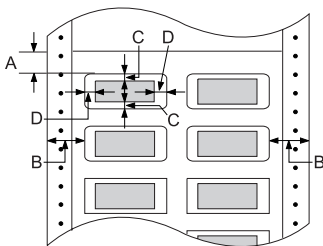
- ❑ When you use paper that is less than 101.6 mm (4 inches) wide, the left margin is fixed at 13 mm (0.51 inch) regardless of paper type. Setting the left margin to larger than that may cause a problem when beginning on a new line or cause a skew.
- ❑ When you use continuous paper with labels that is more than 16 inches (406.4 mm) wide while the optional pull tractor is installed, the left margin can be set to 18 mm (0.71 inch) or more.
- ❑ When loading paper with the front tractor, set the Page length for front tractor setting to 6 inches or more.

### Continuous paper



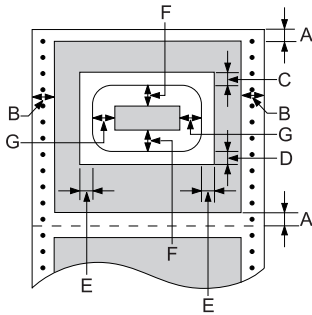
- A The minimum top and bottom margins (above and below the perforation) are 4.2 mm (0.17 inch).
- B The minimum left and right margins are 13 mm (0.51 inch).

### Labels



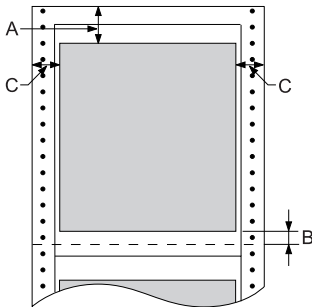
- A The minimum top margin is 2.2 mm (0.09 inch)
- B The minimum left and right margins are 13 mm (0.51 inch)
- C The minimum top and bottom margins for labels are 2 mm (0.08 inch)
- D The minimum left and right margins for labels are 3 mm (0.12 inch)

## Continuous forms with labels



- A The minimum top and bottom margins are 4.2 mm (0.17 inch)
- B The minimum left and right margins are 13 mm (0.51 inch)
- C The minimum top margin for labels is 20.2 mm (0.8 inch)
- D The minimum bottom margin for labels is 16.6 mm (0.65 inch)
- E The minimum left and right margins for labels are 30.9 mm (1.22 inches)
- F The minimum top and bottom margins for labels are 2 mm (0.08 inch)
- G The minimum left and right margins for labels are 3 mm (0.12 inch)

## Overlapping multi-part forms



- A The minimum top margin is 26.3 mm (1.04 inch)
- B The minimum bottom margin is 16.6 mm (0.65 inch)
- C The minimum left and right margins are 16 mm (0.63 inch)

---

## **Command Lists**

Your printer supports the following Epson ESC/P control codes and IBM PPDS 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.

General operation:

ESC @, ESC U, ESC EM F/B/C/A/V

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 l, 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 |

## ***IBM PPDS emulation control codes***

This printer emulates the IBM Proprinter using the commands below.

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

Bar code:

ESC [f, ESC [p

Download:

ESC = (draft mode only)

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## ***Standards and Approvals***

Universal (UPS) model:

Safety

UL60950

CSA C22.2 No. 60950

EN 60950

EMC

FCC part 15 subpart B class B

CAN/CSA-CEI/IEC CISPR22 Class B

EN 55022 Class B

EN 55024

EN 61000-3-2

EN 61000-3-3

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## ***Cleaning the Printer***

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

1. Remove any paper loaded in the printer, and turn it off. Make sure all the covers are closed.
2. Remove the ribbon cartridge. If an optional pull tractor or perforation cutter is installed, remove it.
3. Use a soft brush to carefully brush away all dust and dirt from the outer case.
4. If the outer case is still dirty or dusty, clean it with a soft, clean cloth dampened with mild detergent dissolved in water. Keep the printer cover and front cover closed to prevent water from getting inside the printer.



### ***Caution:***

- Never use alcohol 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 oils can damage the printer mechanism. Contact your Epson dealer if you think lubrication is needed.

---

## Transporting the Printer

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

Follow the steps below to repack the printer in its original packing materials.



**Warning:**

*You 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.*

1. Remove any paper loaded in the printer. Make sure the printer is turned off.
2. Unplug the power cord from the electrical outlet; then disconnect the interface cable from the printer.
3. Remove the ribbon cartridge. If any options are installed, remove them and pack them in their original boxes.
4. Make sure the print head is not hot. Then remove the ribbon cartridge.
5. Make sure that all covers of the printer are closed.
6. Repack the printer, ribbon cartridge, and power cord in their original packing materials and place them in the printer's original box.





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