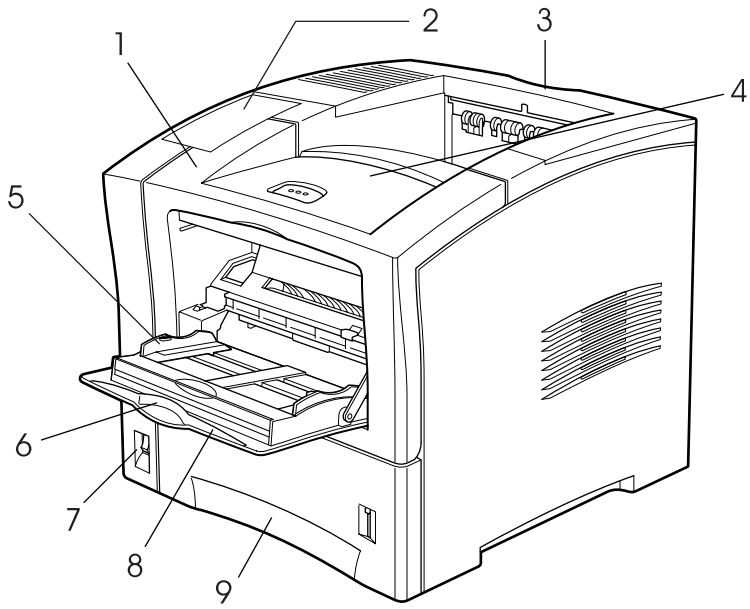
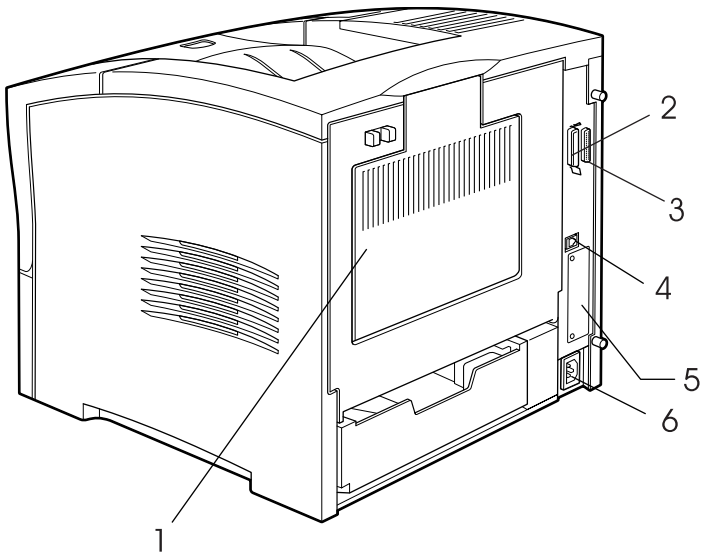


# Printer Parts



1. front cover
2. control panel
3. top cover
4. face-down tray
5. paper guide
6. extension tray
7. power switch
8. MP tray
9. lower cassette



1. rear cover
2. parallel interface connector
3. serial interface connector
4. Ethernet interface connector
5. optional Type B interface connector
6. AC inlet



# EPSON®

Laser Printer

## EPL-N2050+

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Printed on Recycled Paper.

## Reference Guide

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# Contents

Laser Printer Precautions . . . . .	1
Warnings, Cautions, and Notes . . . . .	3

## **Getting Started**

---

About This Guide . . . . .	5
About Your Printer . . . . .	6
Features . . . . .	7
Reserve Job Function . . . . .	8
Options and Consumable products . . . . .	8

## **Chapter 1 Printing with the EPL-N2050+**

---

Available Paper Types . . . . .	1-1
Labels . . . . .	1-1
Envelopes . . . . .	1-2
Colored paper . . . . .	1-2
Transparencies . . . . .	1-2
Loading Paper . . . . .	1-3
MP tray . . . . .	1-3
Standard Lower Cassette . . . . .	1-5
Optional Large Capacity Paper Unit . . . . .	1-9
Selecting a paper source . . . . .	1-10
Selecting a paper size . . . . .	1-13
Using the Printer Driver . . . . .	1-13
Selecting paper . . . . .	1-13
Selecting functions . . . . .	1-14
Using the Reserve Job Function . . . . .	1-14
Re-Print Job . . . . .	1-15
Verify Job . . . . .	1-17
Stored Job . . . . .	1-18
Confidential Job . . . . .	1-19

Offset Stacking mode . . . . .	1-23
Double-sided Printing . . . . .	1-24
Handling the Duplex Unit . . . . .	1-24
Outputting to the Multibin Unit . . . . .	1-25
To output to the Multibin Unit . . . . .	1-25
Using the Multibin Unit . . . . .	1-26
Printing on Envelopes . . . . .	1-28
To print on envelopes . . . . .	1-28
Handling the Envelope Feeder . . . . .	1-29

## **Chapter 2 Controlling the Printer**

---

Making Printer Settings . . . . .	2-1
Printer driver . . . . .	2-1
Control panel . . . . .	2-3
Control Panel Operation . . . . .	2-5
LCD panel . . . . .	2-6
Indicator lights . . . . .	2-7
Buttons . . . . .	2-9
Using the OneTouch Modes . . . . .	2-12
OneTouch mode 1 . . . . .	2-12
OneTouch mode 2 . . . . .	2-13
EPSON Status Monitor 3 . . . . .	2-14
About the EPSON Status Monitor 3 Utility . . . . .	2-14
Environment for EPSON Status Monitor 3 . . . . .	2-15
Installing the EPSON Status Monitor 3 Utility . . . . .	2-16
Accessing the EPSON Status Monitor 3 . . . . .	2-17
Getting printer status details . . . . .	2-19
Setting monitoring preferences . . . . .	2-22
Stopping monitoring . . . . .	2-23
Status Alert window . . . . .	2-24
Uninstalling the EPSON Status Monitor 3 . . . . .	2-25

## **Chapter 3 Replacing the Consumables**

---

About Replacing the Consumables . . . . .	3-1
---	-----



## **Chapter 4 SelectType Settings**

---

Using SelectType . . . . .	4-1
When to use SelectType . . . . .	4-1
How to make the settings . . . . .	4-2
SelectType menu table . . . . .	4-3
Understanding SelectType Settings . . . . .	4-5
Test Menu . . . . .	4-6
Emulation Menu . . . . .	4-7
Printing Menu . . . . .	4-7
Tray Menu . . . . .	4-11
Mail Box Menu . . . . .	4-13
Config Menu . . . . .	4-15
Setup Menu . . . . .	4-18
Quick Print Job Menu . . . . .	4-20
Confidential Job Menu . . . . .	4-20
M-Box Password Menu . . . . .	4-20
Parallel Menu . . . . .	4-21
Serial Menu . . . . .	4-23
Network Menu . . . . .	4-23
AUX Menu . . . . .	4-25
LJ4 Menu . . . . .	4-27
GL2 Menu . . . . .	4-30
PS3 Menu . . . . .	4-32
ESCP2 Menu . . . . .	4-33
FX Menu . . . . .	4-36
I239X Menu . . . . .	4-38

## **Chapter 5 Troubleshooting**

---

Introduction . . . . .	5-1
Printer Problems . . . . .	5-1
Preventing paper feed and paper jam problems . . . . .	5-1
Clearing paper jams . . . . .	5-2
Solving printer operation problems . . . . .	5-12
Solving print quality problems . . . . .	5-15
Solving printer option problems . . . . .	5-19
Status and Error Messages . . . . .	5-20

Hex Dump Mode .....	5-33
Resetting the Printer.....	5-33

**Chapter 6 Maintenance and Transportation**

---

Cleaning the Printer .....	6-1
Cleaning inside the printer .....	6-1
Cleaning the printer case .....	6-2
Transporting the Printer .....	6-2
Finding a new place for the printer .....	6-4

**Appendix A Technical Specifications**

---

Printer.....	A-1
General .....	A-1
Environmental .....	A-2
Mechanical .....	A-2
Electrical .....	A-2
Standards and Approvals .....	A-3
Paper Specifications .....	A-3
Paper that should not be used.....	A-5
Previously printed paper .....	A-6
Interface .....	A-6
Parallel interface .....	A-6
Serial interface .....	A-7
Ethernet interface .....	A-7
Options and Consumables .....	A-7
Large Capacity Paper Unit.....	A-8
Duplex Unit .....	A-9
Envelope Feeder .....	A-10
Multibin Unit .....	A-10
Shifter .....	A-11
Imaging Cartridge.....	A-11

**Appendix B Symbol Sets**

---

Introduction to Symbol Sets . . . . .	B-1
In LJ4 Emulation/EPSON GL2 Mode . . . . .	B-2
International character sets for ISO . . . . .	B-4
In ESC/P2 or FX Modes . . . . .	B-5
International character sets . . . . .	B-6
Characters available with the ESC (^) command . . . . .	B-6
In I239X Emulation Mode. . . . .	B-7

## **Appendix C Working with Fonts**

---

Adding and Selecting Fonts . . . . .	C-1
Adding more fonts . . . . .	C-1
Selecting fonts . . . . .	C-2
Printer and Screen Fonts . . . . .	C-2
Available Fonts . . . . .	C-3
EPSON BarCode Fonts . . . . .	C-7
System requirements . . . . .	C-9
Installing EPSON BarCode Fonts . . . . .	C-10
Printing with EPSON BarCode Fonts . . . . .	C-11
EPSON BarCode Font specifications . . . . .	C-15

## **Appendix D Installing and Removing Options**

---

Optional Large Capacity Paper Unit . . . . .	D-1
Installing . . . . .	D-1
Removing. . . . .	D-4
Duplex Unit . . . . .	D-6
Installing . . . . .	D-7
Removing. . . . .	D-9
Multibin Unit . . . . .	D-11
Installing . . . . .	D-11
Removing. . . . .	D-16
Shifter . . . . .	D-19
Installing . . . . .	D-19
Removing. . . . .	D-22
Envelope Feeder . . . . .	D-24
Installing . . . . .	D-24

Removing .....	D-26
Memory Modules .....	D-27
Hard Disk Drive .....	D-28
Installing .....	D-28
Removing .....	D-31
ROM Module .....	D-32
Interfaces .....	D-32

## **Appendix E Contacting Customer Support**

---

For users in Latin America .....	E-2
For users in the United Kingdom and the Republic of Ireland .....	E-2
For users in Australia .....	E-4
For users in Singapore .....	E-5
For users in Hong Kong .....	E-6
For users in Malaysia .....	E-7
For users in India .....	E-7
For users in the Philippines .....	E-8

## **Glossary**

---

## **Index**

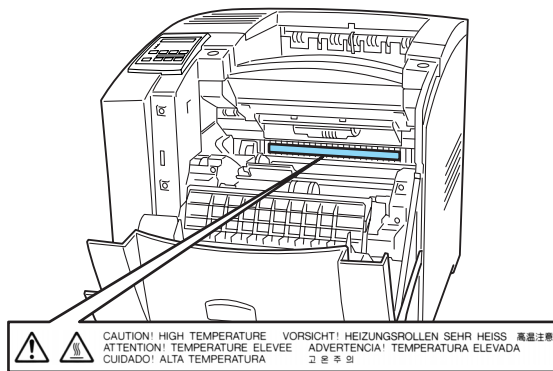
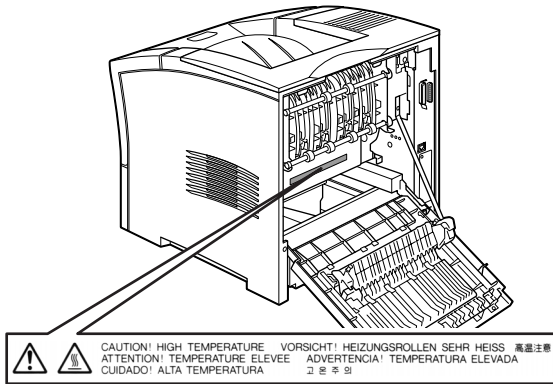
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## Laser Printer Precautions

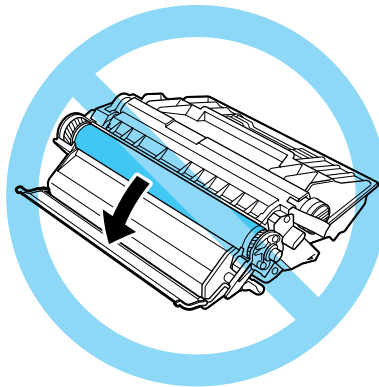
This printer uses laser technology. The following precautions apply whenever you use the printer. Even if you are familiar with other types of printers, be sure to follow these precautions carefully to ensure safe, efficient operation.

- ❑ Do not touch the areas inside the front and rear covers of the printer, which are marked with the caution labels. If the printer has been in use, these areas may be very hot.



(Visible when the imaging cartridge is removed.)

- ❑ Do not touch the components inside the printer unless instructed to do so in this guide.
- ❑ Never force the printer's components into place. Although the printer is designed to be sturdy, rough handling can damage it.
- ❑ Be sure not to scratch the surface of the drum. When you remove the imaging cartridge from the printer, always set the unit on a clean, smooth surface. Also, avoid touching the drum, since oils from your skin can permanently damage its surface and may affect print quality.
- ❑ Do not turn the cartridge upside down or stand it on its ends.
- ❑ Avoid exposing the imaging cartridge to light, and never open the drum's protective cover as this may damage the light sensitive drum. Overexposure of the drum may cause very dark or light areas to appear on printed documents and reduce its functional life.



- ❑ When handling the cartridge, always set it on a clean, smooth surface.
- ❑ Do not attempt to modify or take apart the cartridge. It cannot be refilled.

- ❑ Do not touch the toner and avoid all contact with your eyes.
- ❑ Allow the imaging cartridge to reach room temperature before installation.



**Warning:**

*Do not dispose of used imaging cartridges in fire, as they can explode and cause injury. Dispose of them according to local regulations.*

To get the best print quality, do not store the imaging cartridge in a place subject to direct sunlight, dust, salty air, or corrosive gasses (such as ammonia). Avoid locations subject to high temperatures, humidity, or abrupt changes in temperature or humidity. Also, be sure to keep the consumable components out of the reach of children.

---

## **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 about the operation of your printer.*





---

# Getting Started

The EPSON EPL-N2050+ printer combines high performance and reliability with a wide range of features.

To get started with your laser printer, please:

- ❑ Read the safety information, laser printer precautions, and important safety instructions in your *Setup Guide*.
- ❑ Use your *Setup Guide* to set up, install printer driver and test your new printer.
- ❑ Have your network administrator refer to the *Administrator's Guide* to make network settings. Also see the *Administrator's Guide* for instructions on installing network software.

Refer to this *Reference Guide* for detailed information about your printer and options.

---

## About This Guide

This guide contains the following information.

Chapter 1, "Printing with the EPL-N2050+," contains information on general printing operation, paper types, and printer options.

Chapter 2, "Controlling the Printer," explains the printer's control panel, how to use the OneTouch Modes, and how to optimize the print quality.

Chapter 3, "Replacing the Consumables," explains when and how to replace the Imaging Cartridge.

Chapter 4, “SelecType Settings,” describes the settings you can make in SelecType on the control panel. Read this chapter if you cannot modify the printer settings from your computer.

Chapter 5, “Troubleshooting,” gives helpful information for solving problems.

Chapter 6, “Maintenance and Transportation,” provides instructions on how to clean and transport your printer.

Appendix A, “Technical Specifications,” contains technical information about the printer, paper, interfaces, options and consumables.

Appendix B, “Symbol Sets,” lists the symbol sets available in each emulation mode with tables of the characters for each set.

Appendix C, “Working with Fonts,” describes the steps you need to follow to add more fonts. It also lists the available fonts with samples.

Appendix D, “Installing and Removing Options,” gives step-by-step instructions for installing and removing options.

Appendix E, “Contacting Customer Support,” explains customer support information.

---

## **About Your Printer**

Your printer is the latest in EPSON’s advanced line of network laser printers. It emulates the Hewlett-Packard® LaserJet™ 4000 series (LJ4) printer, allowing you to print using the wide variety of software programs that support HP LaserJet printers.

The printer's 600-dpi (dots per inch) resolution is enhanced by EPSON's Resolution Improvement Technology (RITech), which smooths the jagged edges of diagonal and curved lines in both text and graphics. This gives your documents a clean, crisp, professional appearance.

In addition, EPSON's Enhanced MicroGray technology provides you with better halftoning when printing graphics.

This printer is intended to be used on network environments. After your network administrator makes network settings, install the printer software as instructed by your administrator. The *Administrator's Guide* is included in the printer package.

The printer supports ECP mode in Microsoft® Windows® Me/98/95. This mode is useful for high-speed data transfer and bidirectional communication with your computer.

## **Features**

The printer comes with a full set of features that contributes to ease of use and consistent, high-quality output. The main features are described below.

### *High-quality printing*

With 1200-dpi, the printer can output print jobs at a speed of up to 20 pages per minute for A 4 size paper and 21 pages per minute for Letter size paper. You'll appreciate the professional print quality produced by your printer and its quick processing speed.

### *Wide variety of fonts*

The printer comes with a full selection of scalable TrueType® fonts, LaserJet-compatible scalable fonts, and one bitmap font in LJ4 emulation mode.

## Toner Save mode

You can reduce the amount of toner used by printing rough drafts using the Toner Save mode.

---

## Reserve Job Function

The Reserve Job function is one of the latest features to be added to your printer to meet your printing needs. By storing the data of a print job in the printer's Hard Disk Drive, you can print directly from the printer's control panel at anytime without using your computer. You can also print one copy in order to verify the content before printing multiple copies. If the content is private and confidential, you can limit access to it by setting a password to the print job. See "Using the Reserve Job Function" on page 1-14 for more information.

**Note:**

*You need an optional Hard Disk Drive installed into your printer in order to use the Reserve Job function.*

---

## Options and Consumable products

Options and consumable products are sold separately, and can be installed easily. To purchase options or consumable products contact your dealer or the customer support representative in your area. The last digit of the product number, represented by an asterisk (\*), varies by country. Be sure to mention the product number when placing your order.

## Memory

The printer comes with 16 MB of memory, which can be expanded up to 256 MB.

## *Interface*

The printer comes with a serial interface, a bi-directional parallel interface and an Ethernet interface. You can install an optional interface card as well.

## *ROM module*

The Adobe® PostScript® 3™ Kit (C83245\*) ROM module is a useful option that generates crisp output.

## *Hard Disk Drive*

The optional Hard Disk Drive (C82377\*) is a valuable addition that provides up to 6 GB of memory for print jobs.

## *Large Capacity Paper Unit*

The optional Large Capacity Paper Unit (C81329\*) is capable of holding 550 pages of various paper sizes and types. It is possible to install two units to your printer at the same time.

## *Envelope Feeder*

The optional Envelope Feeder (C81332\*) is a quick and convenient way to print on a wide variety of envelope sizes and types.

## *Duplex Unit*

The optional Duplex Unit (C81330\*) allows you to print on both sides of the paper.

## *Multibin Unit*

The optional Multibin Unit (C81333\*) has 10 mailboxes each capable of holding 45 pages of printed documents. Each mailbox can be given an individual assignment, to a person or a department. The mailboxes also have locks that can be opened with a password.

### *Shifter*

The optional Shifter (C81334\*) can be used for sorting or stacking documents up to 500 sheets.

### *Imaging Cartridge*

The Imaging Cartridge (S051070) is specially designed for your high-quality 1200-dpi printer.

## Available Paper Types

You can use many kinds of media including plain paper, envelopes, labels, and overhead projector transparencies.

The type of paper you use in your printer can affect the quality of the printed output. The smoother the paper you use, the smoother and sharper the printing looks.

For best results, store your paper in its original wrapper. The printout may be marred by moisture absorbed in the paper. Do not store paper in a humid or damp environment.

**Note:**

*Since the quality of any particular brand or type of paper may be changed by the manufacturer at any time, EPSON cannot guarantee the quality of any type of paper. Always test samples of paper stock before purchasing large quantities or printing large jobs.*

Following are some recommendations for selecting paper and other print media for the printer.

## Labels

Use only labels designed for laser printers or plain-paper copiers. Use the MP tray or the lower paper cassette to print on these materials.

To prevent the adhesive from coming in contact with printer parts, always use labels that completely cover the backing sheet so that no gaps occur between the individual labels.

Test the label sheet for leaking adhesive by pressing a sheet of paper on top of a sheet of labels. If the paper sticks to the label sheet when you lift it off, do not use the labels.

## **Envelopes**

Printing quality on envelopes may be irregular because different parts of an envelope have different thicknesses. If the printing is too light, adjust the print density in the printer driver or on the printer's control panel. When printing on envelopes, you can use the MP tray or the lower cassette. However, to print volumes of envelopes quickly, use the optional Envelope Feeder.

## **Colored paper**

You can use colored paper as long as it meets the weight limits shown in the paper specifications. Do not, however, use coated paper (paper to which a clear or colored coating has been added).

## **Transparencies**

You can use overhead projector transparencies and adhesive drafting film if they are made for use with plain-paper copiers or laser printers. Load these media into the lower cassette or the MP tray.



**Caution:**

*Printing on transparencies made for color laser printers or photocopiers may damage your printer.*



---

## Loading Paper

You can load paper into different paper sources such as the Standard Lower Cassette or optional Large Capacity Paper Unit according to your output needs.

### MP tray

The MP tray accommodates various types and sizes of paper and handles up to 100 sheets of 80 g/m<sup>2</sup>, or a stack of paper 11.5 mm thick. This tray is useful when printing on paper that you don't regularly use.

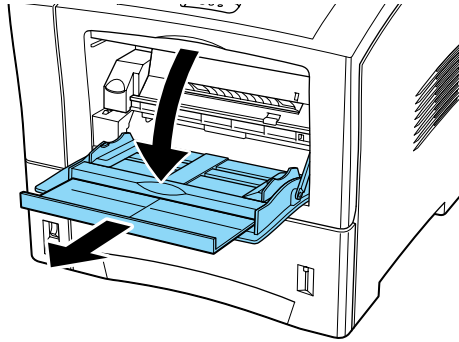
Paper Type	Paper size	Capacity
Plain Paper	A4, A5, B5, International B5, Letter (LT), Half-Letter (HLT), Legal (LGL), Executive (EXE), Government Legal (GLG), Government Letter (GLT), F4 Custom (CTM)	Up to 100 sheets
Envelopes	Monarch (MON), C10, DL, C6, C5	Up to 10 sheets

**Note:**

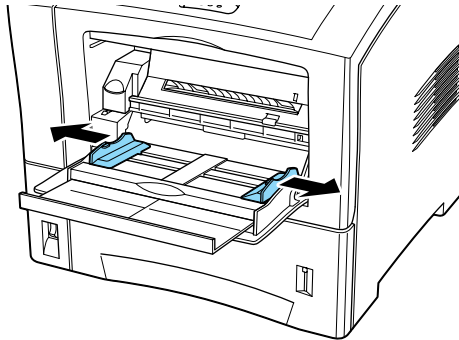
See "Tray Menu" on page 4-11 for instructions on how to select the paper size by using the Tray Menu of SelecType. You can also select the paper size in the printer driver.

Follow these steps to load paper into the MP tray:

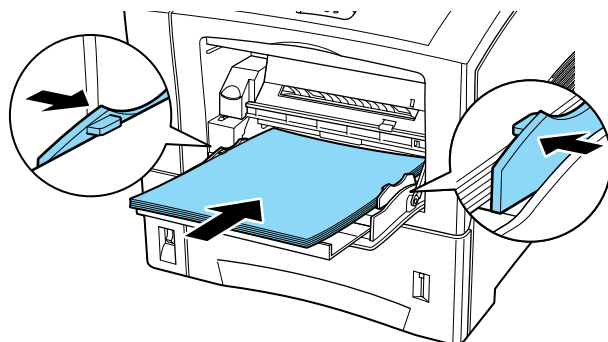
1. Pull out the extension tray to accommodate the size of the media you are loading.



2. Slide both paper guides outward.



3. Load a stack of paper with the printable surface up. Then slide the paper guides against the sides of the paper.



4. Using the OneTouch mode 1 (SelcType) on the control panel, select the paper size that is loaded in the MP tray.

**Note:**

- ❑ *Be sure to adjust the paper guides to the size of paper you are loading; otherwise, the printer will not print properly.*
- ❑ *If your printouts are curled or do not stack properly when using plain paper, try turning the stack over and reloading it.*

## Standard Lower Cassette

The standard lower cassette accommodates up to 550 sheets of various types and sizes of paper. This cassette is useful for loading paper that you use regularly or in large amounts.

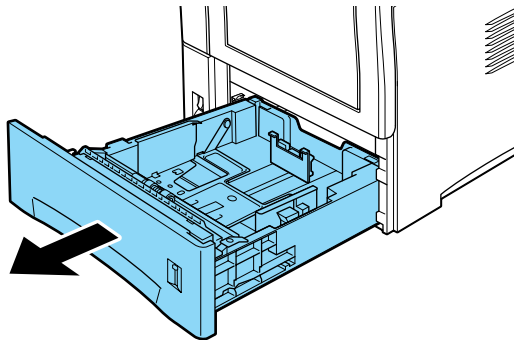
Paper Type	Paper size	Capacity
Plain Paper	A4, A5, B5, Letter (LT), Legal (LGL), Government Legal (GLG), Executive (EXE), Custom	Up to 550 sheets (with 80g/m <sup>2</sup> paper) or 60mm height

**Note:**

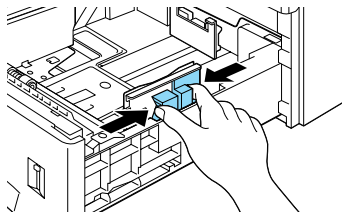
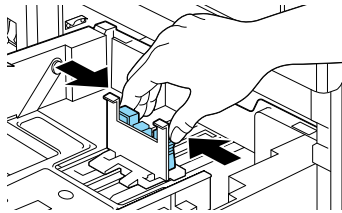
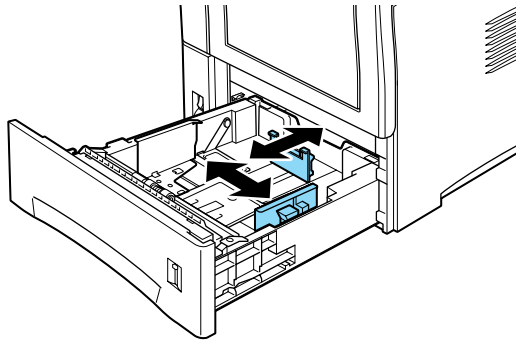
- ❑ See “Tray Menu” on page 4-11 for instructions on how to select the paper size by using the Tray Menu of SelecType. You can also select the paper size in the printer driver.
- ❑ If your printouts are curled or do not stack properly when using plain paper, try turning the stack over and reloading it.

Follow these steps to load paper into the standard lower cassette:

1. Turn on the printer.
2. Pull the paper cassette out until it stops.



- Adjust the three paper guides by squeezing the guide locks together with your thumb and index finger to accommodate the paper you are loading.



**Note:**

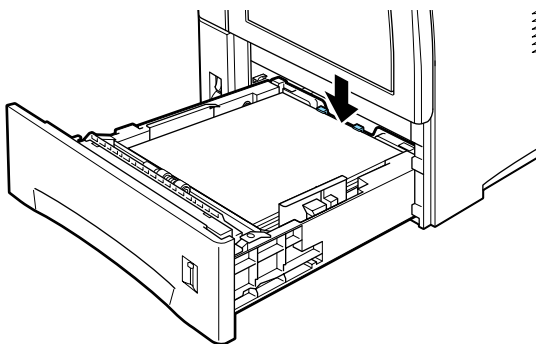
You can load paper longer than A4 size such as Legal, Government Legal and Custom sizes by extending the rear wall of the paper cassette. To extend the rear wall, completely remove the paper cassette from the printer. Then, extend the rear wall to the appropriate size while pushing on the square blue button located near the rear of the cassette.

4. Fan a stack of paper to prevent the sheets from sticking together, and tap it on a flat surface to even the edges.

**Note:**

If your printouts are curled or do not stack properly when using plain paper, try turning the stack over and reloading it.

5. Load the stack of paper into the cassette with the printable surface down. Make sure that the stack of paper fits into the cassette.



**Caution:**

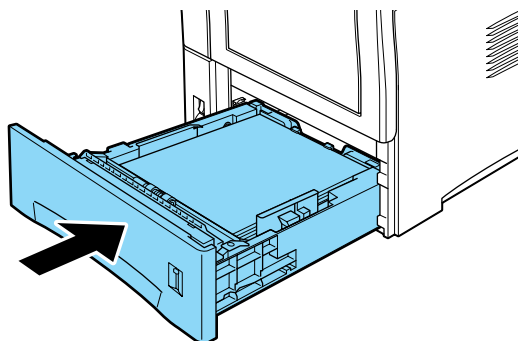
Loading too much paper, exceeding the limit line on the paper guide of the cassette, may cause paper jams.

6. Make sure that the paper guides are properly adjusted against the sides of paper.

**Note:**

- ❑ *It is important that you adjust the paper guides to the correct position, because the printer automatically senses the size of paper loaded in the cassette from the position of the paper guides.*
- ❑ *When printing on custom paper, you need to set the paper size using the control panel.*

7. Push in the paper cassette all the way.



## ***Optional Large Capacity Paper Unit***

The optional Large Capacity Paper Unit accommodates various types and sizes of paper. It is useful for loading paper that you use regularly or in large amounts. One unit holds 550 sheets of standard paper, and up to two optional Large Capacity Paper Units can be installed, allowing you to load a total of 1100 sheets of paper.

Paper Type	Paper size	Capacity
Plain Paper	A4, A5, B5, Letter (LT), Legal (LGL), Government Legal (GLG), Executive (EXE), Custom	Up to 550 sheets (with 80g/m <sup>2</sup> paper) or 60 mm height

**Note:**

- ❑ See “Tray Menu” on page 4-11 for instructions on how to select the paper size by using the Tray Menu of SelecType. You can also select the paper size in the printer driver.
- ❑ Use the included stickers with paper sizes printed on them to identify the paper size loaded in each cassette.
- ❑ To use the optional Large Capacity Paper Unit, select it as the paper source in the printer driver’s Option menu.

The paper-loading procedure for the optional Large Capacity Paper Unit is the same as the standard lower cassette. See “Standard Lower Cassette” on page 1-5 for detailed information.

**Note:**

When printing on the same size but a different type of paper, set the tray type and Paper Source settings to Auto in the SelecType or the printer driver, then select the paper type.

## Selecting a paper source

By default, the paper source is set to Auto Selection or Auto and automatically feeds paper from the paper source containing paper matching the paper size setting.

If you want to use a specific paper source, change the paper source setting in one of the following ways.



### **Using the printer driver**

Access the printer driver and select the paper source that you want to use in the paper source item. For more information, see printer driver's online help.

### **Using OneTouch mode 1**

Access OneTouch mode 1 on the printer's control panel and select the paper source that you want to use in the paper source item. For more information, see "OneTouch mode 1" on page 2-12.

### **Using SelecType**

Access the SelecType mode on the printer's control panel and select the paper source that you want to use in the paper source item. For more information, see "Printing Menu" on page 4-7.

## **Manually feeding paper**

You can feed paper manually. Manual feeding can be helpful when you want to check the print quality after each page is printed.

Manual feeding is almost the same as automatic paper feeding except that only a single page is printed each time you press the On Line button on the printer's control panel.

### **Note:**

- ❑ *You can change the paper source, paper size, orientation, or Output tray using the Printing menu of the printer's driver or SelecType. For more information, see the printer driver's online help or "Printing Menu" on page 4-7. To see the current SelecType settings, print a status sheet.*
- ❑ *To use the MP tray to load custom size paper, see "Loading custom size paper" on page 1-11.*

## **Loading custom size paper**

The custom size limits are described below.

The MP Tray supports custom sizes of:

min 76.2 mm × 127 mm (3 in. × 5 in.)  
max 215.9 mm × 355.6 mm (8.5 in. × 14 in.)

The standard lower cassette supports custom sizes of:

min 98.4 mm × 148.5 mm (3.9 in. × 5.8 in.)  
max 215.9 mm × 355.6 mm (8.5 in. × 14 in.)

The custom size limits for the options are described below.

The Envelope Feeder supports custom sizes of:

min 98.4 mm × 148.5 mm (3.9 in. × 5.8 in.)  
max 178 mm × 254 mm (7.0 in. × 10.1 in.)

The Large Capacity Paper Unit supports custom sizes of:

min 98.4 mm × 148.5 mm (3.9 in. × 5.8 in.)  
max 215.9 mm × 355.6 mm (8.5 in. × 14.0 in.)

Make your custom paper size settings in one of the following methods.

To print on a custom size paper, you need to specify the paper size on the printer driver's Basic Settings menu. Select User Defined Size from the Paper box, then choose a Unit and type the paper width and paper length settings for your custom paper. Click OK to save your custom paper size.

To make this setting from the printer's control panel, access OneTouch mode 1 or the Printing Menu of SelecType and set the paper size to  $\square$ CTM (custom). See "OneTouch mode 1" on page 2-12 or "Printing Menu" on page 4-7 for further details.

## **Selecting a paper size**

By default, the paper size is set to A4 by the printer driver. If you are printing on paper of other size, change the paper size setting using the printer driver's Basic Settings menu. For more information on using the printer driver, see the driver's online help.

You can also change the paper size setting from the printer's control panel using OneTouch mode 1 or Printing Menu of SelecType. See "OneTouch mode 1" on page 2-12 or "Printing Menu" on page 4-7 for further details.

---

## **Using the Printer Driver**

Use the printer driver to easily and conveniently make new printer settings. Most users may never need to use anything other than their application software and the printer driver to make printer settings. You can access the printer driver through an application's print command, or by choosing your printer in your operating system's printers folder or program group. Be aware that application software settings override printer driver settings. This function is one way to select the paper source and type. For more detailed information refer to the printer driver's online help.

## **Selecting paper**

Simply access the printer driver on your computer and select the paper source that you want to use.

## Selecting functions

Various functions can be selected through the printer driver. Simply access the printer driver on your computer and make the settings that your print job requires.

---

### Using the Reserve Job Function

The Reserve Job function allows you to store the data of print jobs in the printer's Hard Disk Drive so you can print directly from the printer's control panel. It has four features; Re-Print Job, Verify Job, Stored Job, and Confidential Job. Follow instructions below to use the Reserve Job function.

**Note:**

*You need an optional Hard Disk Drive (HDD) installed into your printer in order to use the Reserve Job function. Make sure that the Hard Disk Drive is correctly recognized by the printer driver before you start using the Reserve Job function. See "Making HDD setting" on page D-31 for more information.*

The printer functions differently according to the type of Reserve Job you are using. Refer to the tables below for detailed information.

Type of Reserve Job	Maximum number of jobs stored in the HDD	When the maximum number is reached	When the HDD is full
Re-Print Job	64 (Re-Print Job + Verify Job)	automatically deleted from the oldest one to store the new job	the printer automatically deletes Re-Print Jobs or Verify Jobs from the oldest one and stores the new job
Verify Job			
Stored Job	64	needs to be deleted	
Confidential Job	64	manually by user	

Type of Reserve Job	When printing is complete	When the printer is turned off or All Reset is performed
Re-Print Job	data remains in the HDD	data is cleared
Verify Job		
Stored Job		data remains in the HDD
Confidential Job	data is cleared	data is cleared

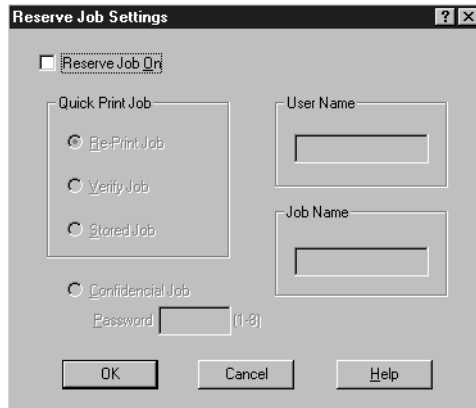
## **Re-Print Job**

The Re-Print Job feature allows you to store the data of a print job in the printer's Hard Disk Drive so that you may print the same data at any time as many times as you need from the printer's control panel. However, once you turn off the printer or reset the printer by using **Reset All**, the stored data of Re-Print Jobs will be cleared.

Follow these steps to use the Re-Print Job feature:

1. Access the printer driver through the File menu of the application you are using.
2. Go to the Basic Settings menu. Specify the number of copies to be printed, and select the Collate check box.

3. Go to the Optional Settings menu, and click the Reserve Jobs Settings button. The Reserve Jobs Settings dialog box opens.



4. Select the Reserve Job On check box and the Re-Print Job radio button.
5. Enter the user name and job name in the corresponding text boxes.
6. Click OK. The printer prints the data of your print job, and stores the data in the Hard Disk Drive at the same time.

### ***Printing and deleting the stored data of a Re-Print Job***

You can print or delete the data stored in the printer's Hard Disk Drive at any time from the printer's control panel by using the Quick Print Job Menu of SelecType.

#### *Using the Quick Print Job Menu*

Follow these steps to print or delete the stored data using the Quick Print Job Menu of SelecType:

1. Press the MENU button on the printer's control panel to enter the SelecType mode. You can also enter the SelecType mode by pressing the SelecType (ALT) button three times. The indicator light next to MENU comes on.
2. Press MENU repeatedly until Quick Print Job Menu appears on the LCD panel.
3. Specify the user name by pressing the Item button repeatedly until your user name appears on the LCD panel. Press Enter.
4. Select the job name by pressing the Item button repeatedly until the desired job name appears on the LCD panel. Press Enter.
5. Specify the number of copies by pressing the Value button. To delete the print job, press Item button. Delete appears on the LCD panel.
6. Press Enter to start printing or to delete the data. The printer automatically exits the SelecType mode when the printing is complete.

**Note:**

*You can cycle backward through available options by holding down ALT (SelecType) while pressing the button under the setting you want to change.*

## **Verify Job**

The Verify Job feature allows you to print one copy in order to verify the content before printing multiple copies to avoid printing unwanted copies.

Follow these steps to use the Verify Job feature:

1. Access the printer driver through the File menu of the application you are using.

2. Go to the Basic Settings menu. Specify the number of copies to be printed, and select the Collate check box.
3. Go to the Optional Settings menu, and click the Reserve Jobs Settings button. The Reserve Jobs Settings dialog box opens.
4. Select the Reserve Job On check box and the Verify Job radio button.
5. Enter the user name and job name in the corresponding text boxes.
6. Click OK. The printer prints one copy of your print job, and at the same time stores the data with information on the number of remaining copies to be printed in the Hard Disk Drive.

### ***Printing and deleting the stored data of a Verify Job***

You can print or delete the data stored in the printer's Hard Disk Drive at any time from the printer's control panel by using the Quick Print Job Menu of SelecType. See "Using the Quick Print Job Menu" on page 1-16 for instructions.

### ***Stored Job***

The Stored Job feature is useful if you print the same data regularly, such as an invoice. You can print only from the control panel by using SelecType. The stored data remains in the Hard Disk Drive even if you turn off the printer or reset the printer by using Reset All.

Follow these steps to store print data using the Stored Job feature:

1. Access the printer driver through the File menu of the application you are using.
2. Go to the Basic Settings menu. Specify the number of copies to be printed, and select the Collate check box.



3. Go to the Optional Settings menu, and click the Reserve Jobs Settings button. The Reserve Jobs Settings dialog box opens.
4. Select the Reserve Job On check box and Stored Job radio button.
5. Enter the user name and job name in the corresponding text boxes.
6. Click OK. The printer stores the data in the Hard Disk Drive.

### ***Printing and deleting the stored data of a Stored Job***

You can print or delete the data stored in the printer's Hard Disk Drive at any time from the printer's control panel by using the Quick Print Job Menu of SelecType. See "Using the Quick Print Job Menu" on page 1-16 for instructions.

### ***Confidential Job***

The Confidential Job feature is useful when you want to print private or confidential data. You can limit access to the data by setting a password to it.

Follow these steps to store print data using the Confidential Job feature:

1. Access the printer driver through the File menu of the application you are using.
2. Go to the Basic Settings menu. Specify the number of copies to be printed, and select the Collate check box.
3. Go to the Optional Settings menu, and click the Reserve Jobs Settings button. The Reserve Jobs Settings dialog box opens.
4. Select the Reserve Job On check box and Confidential Job radio button.

5. Enter the user name and job name in the corresponding text boxes.
6. Set the password for the job by entering a 4-digit number in the password text box.

**Note:**

- Passwords must be 4-digit numbers.
  - Only numbers from 1 through 8 can be used for passwords.
  - It is recommended that you keep passwords in a safe place as you are required to enter the correct password when printing a Confidential Job.
7. Click OK. The printer stores the data in the Hard Disk Drive.

## **Printing and deleting the stored data of a Confidential Job**

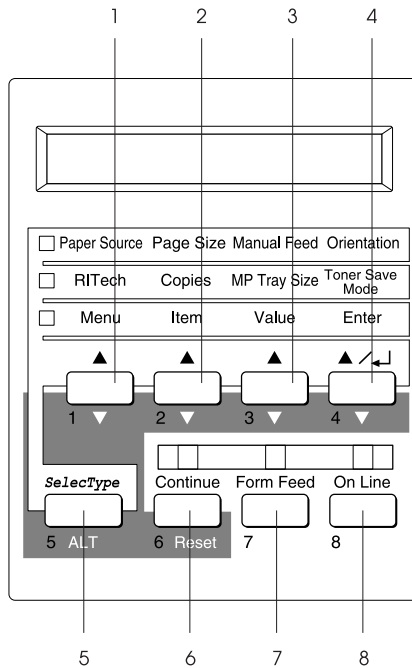
You can print or delete the data of a Confidential Job stored in the printer's Hard Disk Drive at any time from the printer's control panel by using the Confidential Job Menu of SelecType.

### *Using the Confidential Job Menu*

Follow these steps to print the stored data using the Confidential Job Menu of SelecType:

1. Click the MENU button on the printer's control panel to enter the SelecType mode. You can also enter the SelecType mode by pressing the SelecType (ALT) button three times. The indicator light next to Menu comes on.
2. Press Menu repeatedly until Confidential Job Menu appears on the LCD panel.
3. Specify the user name by pressing the Item button repeatedly until your user name appears on the LCD panel. Press Enter.

4. Enter the correct password by using the eight buttons on the control panel as numeric keys as shown in the illustration below.



**Note:**

- ❑ Passwords are 4-digit numbers.
- ❑ Passwords consist of numbers from 1 through 8.

5. If the printer finds one or more print jobs that have the password you entered, one of the job names appears on the LCD panel.  
If there is no Confidential Job stored in the Hard Disk Drive that has the password you entered, `Password Error` appears on the LCD panel for two seconds and the printer returns to the Online mode. Make sure you have the correct password for the print job, and repeat the printing procedure from step 1.
6. Select the job name by pressing the `Item` button repeatedly until the desired job name appears on the LCD panel. Press `Enter`.
7. Specify the number of copies by pressing the `Value` button. To delete the print job, press `Item` button. `Delete` appears on the LCD panel.
8. Press `Enter` to start printing or to delete the data.  
The printer automatically exits the `SelecType` mode when the printing is complete.

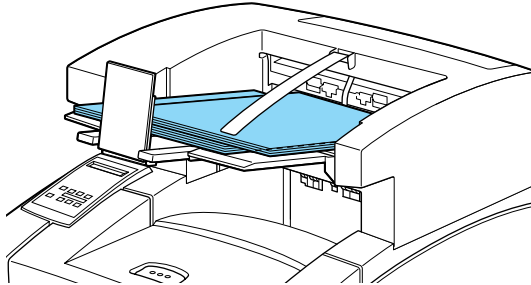
**Note:**

*You can cycle backward through available options by holding down ALT (SelecType) while pressing the button under the setting you want to change.*

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## Offset Stacking mode

In the Offset Stacking mode, individual print jobs or multiple copies are output simultaneously to the optional Shifter. The print jobs are separated by shifting the output slightly to the left and then to the right. This offset stacking allows individual users to easily find their own print job.



The Offset Stacking mode supports the following paper sizes.

A4, Letter, A5, B5, Legal, Half Letter, 1B5, Government Letter, Government Legal, Executive, F4, Monarch, COM10, C5, DL, Custom (min 98.4 mm × 148.5 mm max 215.9 mm × 355.6mm)

Select the Offset Stacking mode in one of the following ways.

### **Using the printer driver**

Select Offset Stacking in the printer driver. For more information on using the printer driver, see the driver's online help.

### **Using the SelecType**

See "Printing Menu" on page 4-7 for information on selecting the Offset Stacking mode with the SelecType settings.

### **Note:**

- ❑ *The Offset Stacking mode works with the optional Shifter.*

- ❑ *To use Offset Stacking mode, set Out Bin to Shifter and Offset Stacking to On in the Printing Menu of SelectType.*

---

## **Double-sided Printing**

The optional Duplex Unit enables you to print on both sides of the paper.

As an ENERGY STAR<sup>®</sup> partner, EPSON recommends the use of double-sided printing function. Refer to the *Setup Guide* for more information on the ENERGY STAR<sup>®</sup> program.

## **Handling the Duplex Unit**

The Duplex Unit supports the following paper sizes:

A4, B5, Letter, Government Letter, Legal, Government Legal, Executive, F4

This option supports following custom size:

min 182.0 mm × 257.0 mm (7.2 in. × 10.1 in.)  
max 215.9 mm × 355.6 mm (8.5 in. × 14.0 in.)

To use the Duplex Unit, select Duplex Print Unit in your printer driver's menu.



**Caution:**

*You cannot use labels, envelopes, or transparencies with the Duplex Unit.*

---

## Outputting to the Multibin Unit

The optional Multibin Unit has 10 mailboxes, each capable of holding 45 pages of printed documents. Only A4 and Letter size documents can be output to the unit. Each mailbox can be given an individual assignment, to a person or a department. When outputting to the Multibin Unit you select the mailbox number. One is the number for the first mailbox from the top, and your printout goes directly to the private mailbox. You can output to a mailbox, and lock it to prevent other people from retrieving the printout.

**Note:**

- The Multibin Unit cannot be installed at the same time as the Shifter.*
- Be careful not to output too many documents to a particular mailbox. Doing so may cause a paper jam in the Multibin Unit.*
- Your Administrator should control the use of passwords, and take care of paper jams in the Multibin Unit.*

## To output to the Multibin Unit

After installing the optional Multibin Unit, you can use it by accessing the printer driver or through the SelecType menu. Access `Out. Bin` and select any of the one through 10 mailboxes. When making these selections, it is also possible to lock the mailbox and assign it a 4-digit password, without which the printouts in the tray are not accessible.

**Note:**

*Printouts other than A4 or Letter size are output to the face-down tray even if they are directed to the Multibin Unit. Be especially careful when printing confidential materials.*

## Using the Multibin Unit

If the mailbox one, the first from the top, is assigned to you, only you have access to the printouts output to the mailbox through your confidential password. You can also send printouts to your own mailbox. This is a valuable feature if you are not able to immediately retrieve your document from the output tray. To do this you need to select your own mailbox in the printer driver or the Mail Box Menu of SelecType.

Passwords used for opening the mailboxes are programmed into the printer. To access a particular mailbox, press the **Open** button on the Multibin Unit. The LED lights on the front of the Multibin Unit light up indicating the mailboxes that do not have their passwords enabled, and **Open Mailbox** is displayed on the LCD panel. Those mailboxes can be opened without a password. To open mailboxes that have their passwords enabled, press the **Open** button. **Enter Password = XXXX** is displayed on the Control Panel. Enter the password using the eight buttons on the Control Panel. The Xs will be replaced with - (hyphens). If the password is correct, you can open the mailbox. Take out your documents and close the mailbox. If you don't open the mailbox, it's locked again automatically in 20 seconds after pressing the **Open** button. If no mailboxes have their passwords enabled, **Enter Password = XXXX** is not displayed.

## Enabling and Disabling Passwords

You can use the Mail Box Menu of SelecType to set passwords for the mailboxes in the Multibin Unit. The mailbox passwords can be set to **Enable** (locked) or **Disable** (unlocked). When a mailbox password is set to **Enable** you have to enter the correct password to open the mailbox. When a password is enabled **MBn Disable Password** is displayed on the LCD panel, indicating that you can disable the password.



## Changing the Password

To change the password for a mailbox in the Multibin Unit, use the M-Box Password Menu of SelecType. After entering the Selectype mode and selecting the M-Box Password menu, follow the directions below to change the password.

### Selecting the Mailbox

Select a mailbox by using the item button. MailboxN Password (N: bin 1 to 10) appears on the LCD panel.

### Entering the Current Password

Press the Enter button. Enter Password = XXXX is displayed if a password has been enabled for the mailbox. You may then enter your current password. Xs in the display change to - (hyphens) one by one. If a wrong password is entered, Password Error appears.

If no password has been enabled, New Password = XXXX is displayed. Enter your new password.

### Entering the New Password

When New Password = XXXX appears, enter the new password by using any four of the eight available buttons.

#### **Note:**

*To make it easier to remember, numbers from 1 to 8 are given to the buttons. Be sure to keep your password in a safe place to refer to in case you forget it.*

### Confirming the New Password

Confirm your password by entering the password again. When Confirmation = XXXX is displayed, enter your password again. If the password is incorrectly entered, Password Error appears. Password Enabled appears for a few seconds if the password is correctly entered. The new password is stored in the printer's memory.

**Note:**

*To avoid confusion, it is advisable to put the name of each user on the corresponding mailbox.*

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## **Printing on Envelopes**

The optional Envelope Feeder enables you to print on the following envelopes:

Monarch, Commercial 10, DL, C5

This option supports following sizes:

min 98.4 mm × 148.5 mm (3.9 in. × 5.8 in.)

max 178.0 mm × 254.0 mm (7.0 in. × 10.0 in.)

### **To print on envelopes**

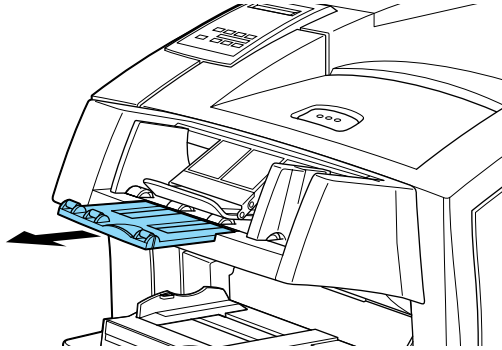
When printing on envelopes, you can use the MP tray or the lower cassette. However, to print volumes of envelopes quickly, use the optional Envelope Feeder. To use the Envelope Feeder, select Envelope Feeder as the optional paper source in the printer driver or select **ENV** in the Printing Menu of SelecType.

**Note:**

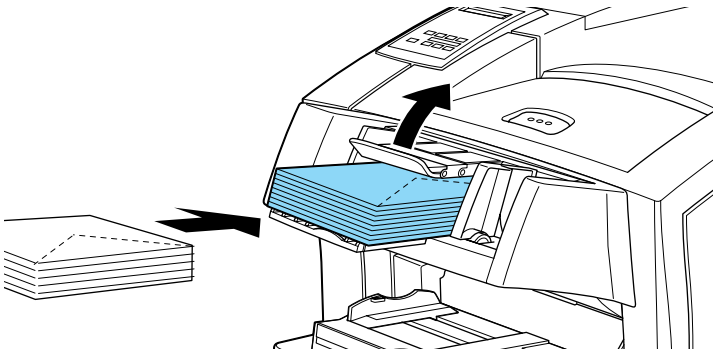
*Because thickness and surface characteristics are especially important when printing on envelopes, test a sample for print quality and proper feeding before you buy a large number of envelopes.*

## Handling the Envelope Feeder

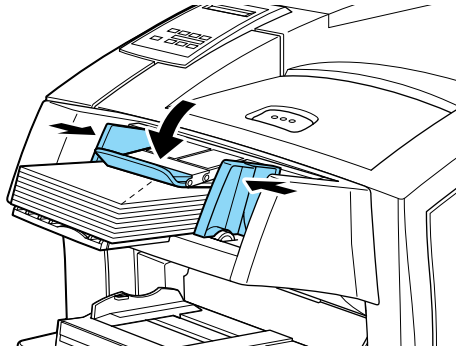
1. Pull out the optional Envelope Feeder extension.



2. Raise the bar, and load envelopes into the Envelope Feeder with their flaps folded and facing down, as shown below.



3. Slide the paper guides against the sides of envelope and lower the bar onto the envelopes to feed them properly.



**Note:**

*Make sure to adjust the paper guides to the size of envelope you are loading in order to print properly.*

# Controlling the Printer

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## Making Printer Settings

You can control the operation of your printer from your computer by using the printer driver software packaged with the printer. Operation can also be controlled from the printer's control panel by using the OneTouch modes and SelecType menus. You should use your printer driver to make printer settings whenever you can, since settings made in the printer driver override the settings you make from the control panel.

## Printer driver

Use the printer driver to make every day printer settings easily and conveniently. You can access the printer driver through the Print command of the application you are using, or from Windows by choosing the Printers folder or program group. Be aware that settings you make in your application software override printer driver settings. See the printer driver's online help for more information.

Use the printer driver also to utilize the Reserve Job function which allows you to store the data of print jobs in the printer memory and print directly from the printer's control panel at anytime. See "Using the Reserve Job Function" on page 1-14 for more information.

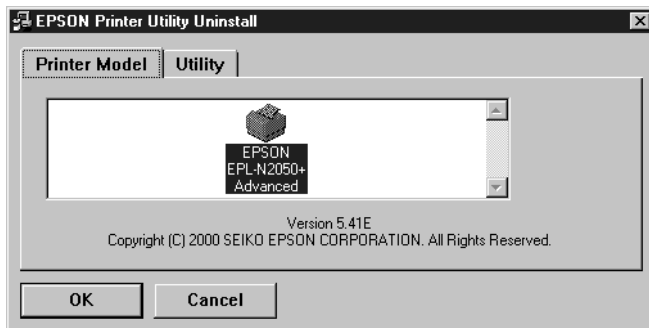
Install the printer software into your computer as instructed in the *Setup Guide*. The *Administrator's Guide* is also included in this printer package to guide your network administrator when setting up the printer for use on a network.

## Uninstalling the printer driver

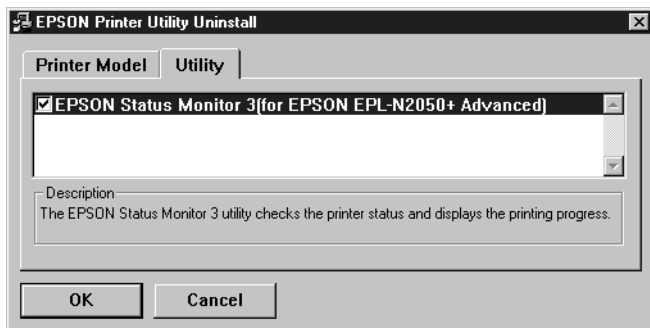
It is necessary to uninstall the printer driver that has been installed into your computer if you are re-installing the driver or installing a newer version of the driver.

Follow these steps to uninstall the printer driver:

1. Exit all application programs currently running on your computer.
2. Click the Windows' Start button. Go to the Settings menu, and click Control Panel.
3. Double click the Add/Remove Programs icon.
4. Select EPSON Printer Driver/Utility and click the Add/Remove button.  
In Windows 2000, first click Change or Remove Programs, and select EPSON Printer Driver/Utility. Then, click the Change/Remove button.
5. In the window that appears, click the Printer Model tab, and select the EPSON EPL-N2050+ Advanced icon.



6. If you have installed the EPSON Status Monitor 3 utility software, click the Utility tab and make sure that the check box for EPSON Status Monitor 3 (for EPSON EPL-N2050+ Advanced) is selected. Then, click OK.



7. When the dialog box for uninstalling Status Monitor 3 appears, click OK. This automatically uninstalls Status Monitor 3.
8. When the dialog box for uninstalling the printer driver appears, click OK. This automatically uninstalls the printer driver.
9. When the uninstallation is complete, click OK.

## **Control panel**

Use the control panel's OneTouch modes or SelecType menus to make printer settings when you cannot make a setting in your application software or printer driver.

The OneTouch modes are the easiest way to make several basic settings from the printer's display panel. For more information, see "Using the OneTouch Modes" on page 2-12.

The SelecType menus have more detailed options than the OneTouch modes, but it may take a few extra steps to make those settings. See “Using SelecType” on page 4-1 for more information.

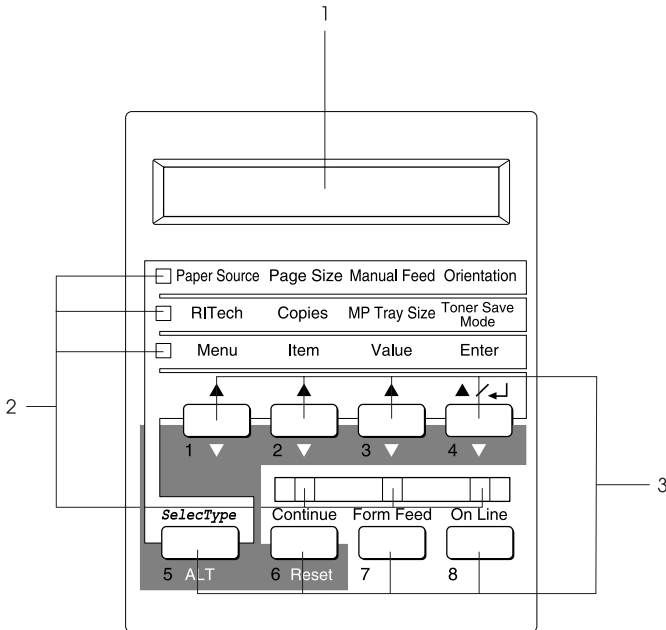
The control panel is also used when you print the data of print jobs stored in the printer memory by using the Reserve Job function. See “Using the Reserve Job Function” on page 1-14 for more information.



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# Control Panel Operation

The control panel is made up of three elements: a liquid crystal display (LCD) panel, indicator lights, and buttons. The LCD panel and indicator lights tell you the current status of the printer, and you can use the buttons to select settings and functions. However, settings made in applications or the printer driver usually override these settings.



1. LCD panel
2. indicator lights

### 3. buttons

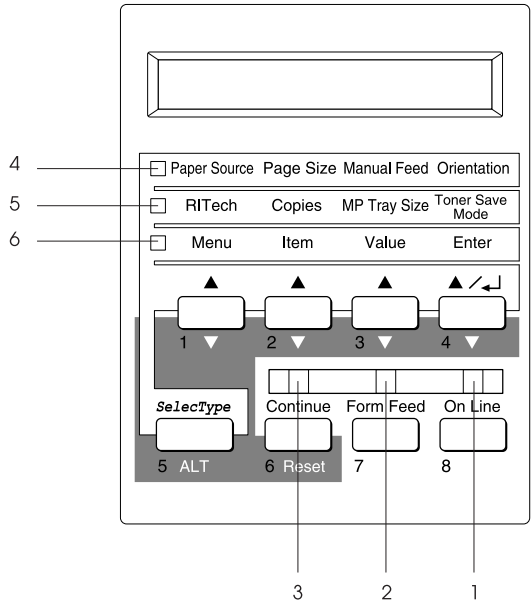
## **LCD panel**

The LCD panel shows the following:

- ❑ Status messages, such as `Warning UP`, indicating the printer's current status.
- ❑ Error messages, such as `Paper Out`, identifying maintenance procedures you must perform or error conditions you need to correct.
- ❑ SelectType menus, such as `Emulation`, allowing you to control printer modes, font selection, paper handling, and many other printer functions.

For information on problem-solving and routine maintenance, see "Printer Problems" on page 5-1 and "Cleaning the Printer" on page 6-1. For more information on SelectType, see "Using SelectType" on page 4-1.

# Indicator lights



1 On Line

On when the printer is online, indicating the printer can receive and print data. When the printer is offline, this light is off. The light flashes as the system switches between online and offline status.

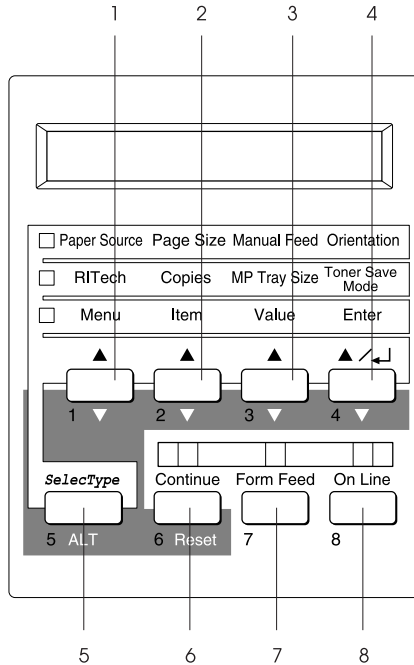
2 Form Feed

On when data is received and stored in the printer buffer (printer memory reserved for receiving data), but not yet printed. Flashing indicates the printer is processing data. When no data remains in the printer buffer, this light turns off.

- |   |                 |  |
|---|-----------------|--|
| 3 | Continue        | Flashes when an error is detected or a maintenance procedure must be performed. Check the LCD panel for error or maintenance messages when this light is flashing. |
| 4 | OneTouch mode 1 | On when the printer is in OneTouch mode 1. See "Using the OneTouch Modes" on page 2-12 for details.  |
| 5 | OneTouch mode 2 | On when the printer is in OneTouch mode 2. See "Using the OneTouch Modes" on page 2-12 for details.  |
| 6 | SelecType       | On when the printer is in SelecType mode. See "Using SelecType" on page 4-1 for more information.  |

# Buttons

This section explains how to use the control panel buttons.



## 1 Menu

Selects the corresponding OneTouch mode setting listed above this button if in OneTouch mode 1 or 2, or selects the SelectType menu if in SelectType mode. Press this button when the printer is online to enter SelectType mode.

- |   |                    |   |
|---|--------------------|---|
| 2 | Item               | Selects the corresponding OneTouch mode setting listed above this button if in OneTouch mode 1 or 2, or selects the function available within the current menu after entering the SelecType mode.   |
| 3 | Value              | Selects the corresponding OneTouch mode option listed above this button if in OneTouch mode 1 or 2, or selects the value available for the current item, after entering the SelecType mode menu.  |
| 4 | Enter              | Selects the corresponding OneTouch mode option listed above this button if in OneTouch mode 1 or 2, or activates the setting currently shown on the LCD panel when in SelecType mode. Press this button two times when the printer is online to print the status sheet.   |
| 5 | SelecType<br>(ALT) | Selects OneTouch mode or SelecType mode. Press this button once to enter OneTouch mode 1. Press this button again to enter OneTouch mode 2. Press this button once more to enter SelecType mode. Pressing this button while in SelecType mode turns the printer back to on-line status. See "Using SelecType" on page 4-1 for more information. |

- |   |                            |  |
|---|----------------------------|--|
| 6 | Continue<br>(Reset)        | Enables the printer to resume printing after certain maintenance-required conditions or errors have been cleared. If the Continue light is flashing, read the status or error message on the LCD panel and correct the problem following instructions described in "Status and Error Messages" on page 5-20. If used in combination with the ALT button, the printer is reset. |
| 7 | Form Feed                  | When the printer is offline and data remains in the printer's memory (Form Feed light is on), prints out the data and clears the buffer.   |
| 8 | On Line                    | Switches the printer between online and offline status.  |
|   | ALT + Menu, Item, or Value | Returns the setting shown to the previous value in each group.   |

These eight buttons are used as numeric keys to enter passwords when you print the Confidential Jobs of the "Using the Reserve Job Function" on page 1-14 as well as passwords for mailboxes of the Multibin Unit.

- |   |                     |                           |
|---|---------------------|---------------------------|
| 1 | Menu                | Used as the number 1 key. |
| 2 | Item                | Used as the number 2 key. |
| 3 | Value               | Used as the number 3 key. |
| 4 | Enter               | Used as the number 4 key. |
| 5 | SelectType<br>(ALT) | Used as the number 5 key. |

- |   |                     |                           |
|---|---------------------|---------------------------|
| 6 | Continue<br>(Reset) | Used as the number 6 key. |
| 7 | Form Feed           | Used as the number 7 key. |
| 8 | On Line             | Used as the number 8 key. |

---

## Using the OneTouch Modes

The OneTouch modes allow you to make the most common printer settings from the display panel when printing from an application or operating system that does not support your printer driver. Be sure to use the printer driver to make these settings whenever you can, since settings made in the software always override OneTouch mode settings.

To make OneTouch modes settings, access one of the modes as described below and press the button located under the setting you want to change to cycle forward through the available options. You can also cycle backward through available options by holding down ALT (SelecType) while pressing the button under the setting you want to change.

### OneTouch mode 1

To enter OneTouch mode 1, press the SelecType button (repeatedly if necessary) until the light next to Paper Source comes on. The current OneTouch mode 1 settings for Paper Source, Page Size, Manual Feed, and Orientation are shown on the display panel in this order.





### *Paper Source*

Specifies whether paper feeds into the printer from the MP tray, the optional Envelope Feeder or from the standard or optional lower cassette. If you select *Auto*, the paper source containing the paper that matches the setting in the Page Size menu will be used.

### *Page Size*

Specifies the image size.

### *Manual Feed*

Turns Manual Feed on or off. For details on the Manual Feed mode, see “Manually feeding paper” on page 1-11.

### *Orientation*

Specifies whether the page is printed in portrait or landscape orientation.

## **OneTouch mode 2**

To enter OneTouch mode 2, press the *SelectType* button (repeatedly if necessary) until the indicator light next to *RItech* comes on. The current OneTouch mode 2 settings for *RItech*, *Copies*, *MP Tray Size*, and *Toner Save Mode* are shown on the display panel in this order.



### *RItech*

Turns the *RItech* setting on or off. *RItech* produces smoother and crisper lines, text and graphics.

## *Copies*

Specifies the number of copies to be printed, up to 999.

## *MP Tray Size*

Allows you to specify the paper size for the MP tray.

## *Toner Save Mode*

Turns the Toner Save Mode on or off. When turned on, the printer saves toner by substituting a gray shade for the black inside characters. The characters are outlined in full black on the right and lower edges.

---

# ***EPSON Status Monitor 3***

## ***About the EPSON Status Monitor 3 Utility***

EPSON Status Monitor 3 is a utility program that monitors your printer and gives you information about its current status, including the amount of remaining toner. If a print error occurs, the Status Monitor 3 also provides you with a message describing the error. The Status Monitor 3 utility is accessed from within the printer driver after it is installed into your computer. See the following section for more information.

Before using Status Monitor 3, be sure to read the printer driver's README file. This file contains the latest information on the printer driver and Status Monitor 3.

# Environment for EPSON Status Monitor 3

## Operating systems

EPSON Status Monitor 3 supports Windows 95/98/2000/Me, and Windows NT 4.0.

## Protocols

The protocols that must be installed to run EPSON Status Monitor 3 vary depending on your operating system and printer type. The following table divides printers into four categories: Local printers; LPR printers, which use TCP/IP (generally in a Windows NT network environment); NetWare printers, which use Novell's IPX/SPX protocol in a NetWare environment; and Windows shared printers.

Use this table to determine what protocols you need to install according to your operating system and printer type, then see the corresponding section for your operating system.

	Local Printer	LPR Printer (TCP/IP)	NetWare Printer (IPX/SPX)	Windows Shared Printers
Windows Me/98/95	LPT	EPSON LPR <sup>1</sup>	NetWare <sup>3</sup>	LPT
Windows 2000/NT 4.0	LPT	TCP/IP & LPR <sup>2</sup>	NetWare <sup>3</sup>	LPR <sup>2</sup> & LPT

EPSON LPR<sup>1</sup> = EpsonNet Direct Print

LPR<sup>2</sup> = Windows NT LPR protocol

NetWare<sup>3</sup> = Necessary protocols already installed

### Note:

- ❑ *To set up the printer for use with TCP/IP, be sure that the TCP/IP protocols are installed in your computer and correctly set. See your operating system's online help to install the TCP/IP protocol. To set up the printer for use with NetWare, see your NetWare documentation.*

- ❑ *If you configure more than one printer for one NetWare print queue, Status Monitor cannot monitor the printer that is assigned to that queue.*
- ❑ *Novell NetWare Client32 for Windows 95 and IntranetWare Client for Windows NT are available.*

## **Installing the EPSON Status Monitor 3 Utility**

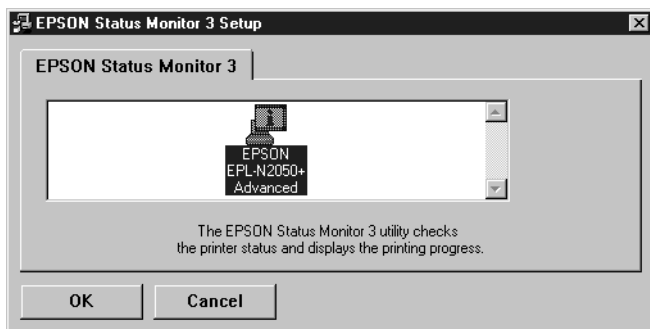
Follow these steps to install the EPSON Status Monitor 3 utility program:

1. Insert the printer software CD-ROM in the CD-ROM drive. The Installation Program screen appears as shown below:



If it does not, double-click the My Computer icon. Click the CD-ROM icon, then select Open from the file menu. Then double-click Epssetup.exe.

2. In the Installation Program screen, double-click Install EPSON Status Monitor 3. Alternatively, you can install by selecting Install EPSON Status Monitor 3 and then clicking the arrow at the top right.
3. In the dialog box that appears, make sure that your printer's icon is selected, and click OK. This automatically installs the utility program.



4. When the installation is complete, click OK.

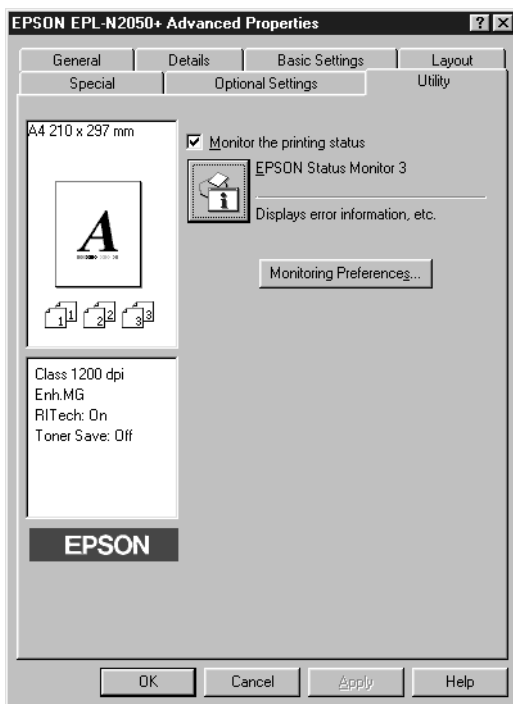
## **Accessing the EPSON Status Monitor 3**

EPSON Status Monitor 3 monitors the printer during printing and while the EPSON Status Monitor 3 dialog box is open.

Follow these steps to access the EPSON Status Monitor 3:

1. Double-click the My Computer icon.
2. Double-click the Printers folder.

3. Right-click the icon for your printer, and click Properties (Windows Me/98/95) or Printing Preference (Windows 2000). If you are using Windows NT 4.0, you can choose either Document Defaults or Properties.
4. Click the Utility tab.



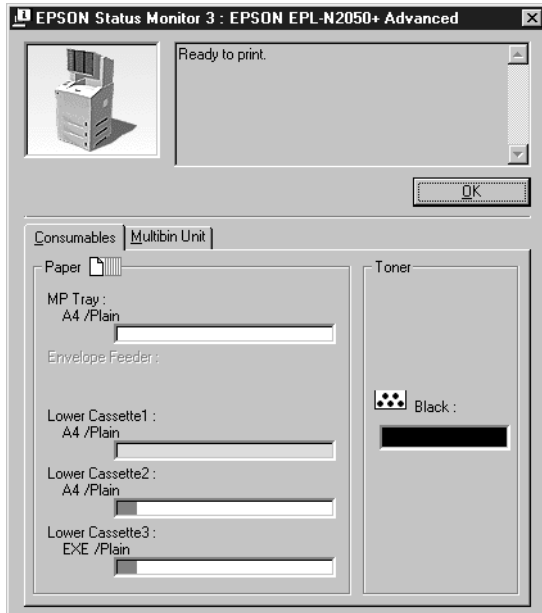
5. Click the EPSON Status Monitor 3 icon to start the EPSON Status Monitor 3 utility.

**Note:**

*Clearing the Monitor the printing status check box during normal operation causes the Status Alert window to stop monitoring some errors. See "Status Alert window" on page 2-24 for more information on this function.*

## Getting printer status details

You can monitor printer status and obtain information on consumable products on the Consumables menu on the EPSON Status Monitor 3 dialog box.



Printer image:

The image at the upper left shows the printer status graphically.

Text box:

The text box next to the printer image displays the current status of the printer. When a problem occurs, the most probable solution is displayed.

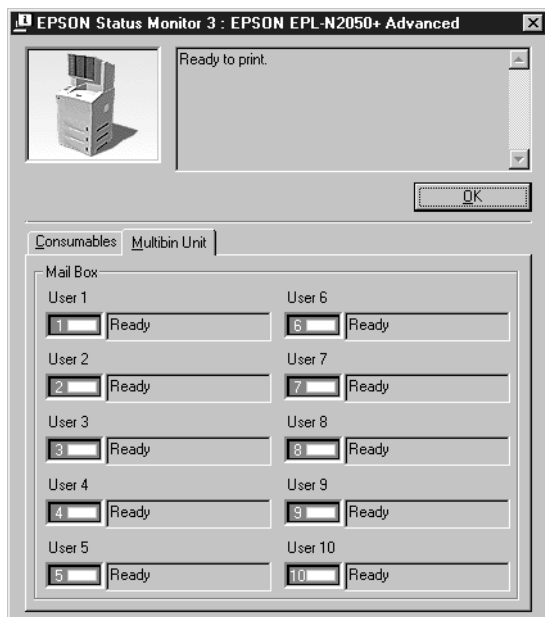
OK button:

Clicking this button closes the dialog box.

**Paper:** Displays the paper size, paper type, and the approximate amount of paper remaining in the paper source. Information for the optional cassettes are displayed only if they are installed.

**Toner:** Indicates the amount of remaining toner. The toner icon flashes if toner is low (10 percent or less).

You can obtain information on the Multibin Unit on the Multibin Unit menu on the EPSON Status Monitor 3 dialog box.



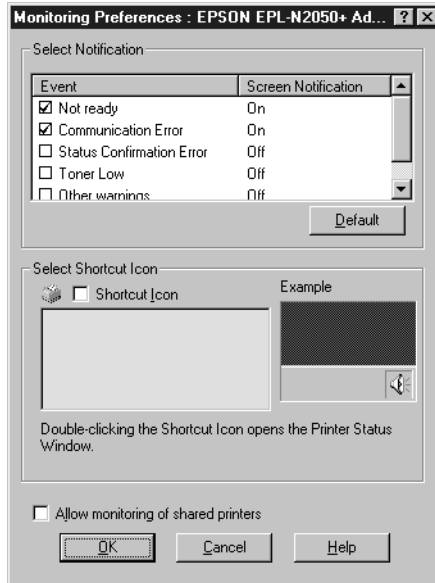
**Printer image:** The image at the upper left shows the printer status graphically.



Text box:	The text box next to the printer image displays the current status of the printer. When a problem occurs, the most probable solution is displayed.
OK button:	Clicking this button closes the dialog box.
Mail Box:	Displays the Mail Box names and status.
Mail Box name:	If the Mail Box name is not registered or the Status Monitor 3 cannot get the Mail Box information, the default name is displayed.
Mail Box status:	When the Multibin is full, "Paper Full" is displayed and flashes. When the Multibin is not full, "Ready" is displayed.
Password lock:	The key mark appears in the box under the Mail Box name if you have set a password for the Mail Box.

## Setting monitoring preferences

To make specific monitoring settings, click the Monitoring Preferences button in the Utility tab of the printer driver. The Monitoring Preferences dialog box appears.



The following settings and buttons appear in the dialog box:

- Select Notification: Use the check boxes in this area to select the types of error that you wish to be notified about.
- Default button: Restores default settings.
- Select Shortcut Icon: To use the shortcut icon, select the **Shortcut Icon** check box and choose an icon. The icon you select appears on the right side of the task bar. Once the shortcut icon is in the task bar, you can double-click it to open the Status Monitor 3 dialog box. Alternatively, you can right-click the shortcut icon and select **Monitoring Preferences** to open the **Monitoring Preferences** dialog box, and **EPSON EPL-N2050+ Advanced** to open the **EPSON Status Monitor 3** dialog box.
- Allow monitoring of shared printers check box: To monitor a shared printer, check this box. You need to make this setting on the server machine.
- OK button: Saves new changes.
- Cancel button: Cancels any changes.
- Help button: Opens online help for the **Monitoring Preferences** dialog box.

## ***Stopping monitoring***

The EPSON Status Monitor 3 monitors the printer during printing and while the EPSON Status Monitor 3 dialog box is open.

To monitor during printing only, close the EPSON Status Monitor 3 dialog box.

To stop all monitoring completely, clear the Monitor the Printing Status check box in the printer driver's Utility tab. You may want to do this to speed up printing or if you don't need to monitor the printer at all.

If you clear the Monitor the Printing Status check box, the Status Alert window no longer comes up to notify you when an error occurs. However, you can still find out the current printer status by clicking the EPSON Status Monitor 3 icon in the printer driver's Utility tab.

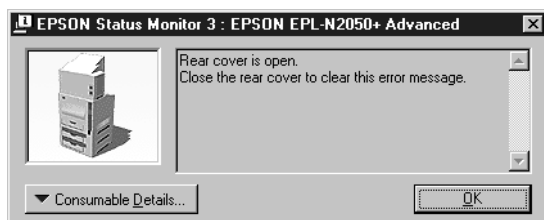
**Note:**

*The Monitor the Printing Status check box is displayed in the Utility tab of Document Defaults in Windows NT 4.0, or in the Utility tab of Printing Preference in Windows 2000.*

## Status Alert window

This window indicates what type of error has occurred and offers you a possible solution. It closes automatically once the problem is cleared.

The Status Alert window opens under the conditions you select in the Monitoring Preferences dialog box.



If you wish to see information about printer consumables, click the Consumable Details button. Once this button is clicked, the Status Alert window will not disappear even after a problem is cleared. To close the box you need to click the OK button.

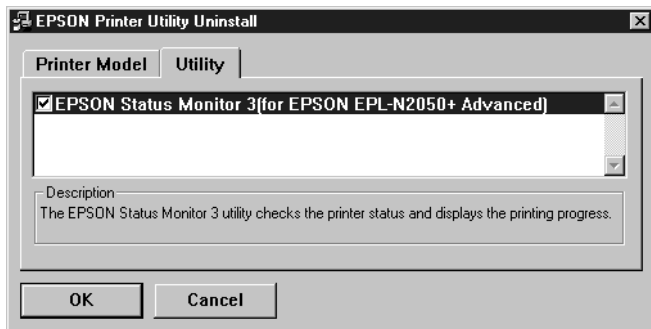
## ***Uninstalling the EPSON Status Monitor 3***

Follow these steps to uninstall the EPSON Status Monitor 3 utility software:

1. Exit all application programs currently running on your computer.
2. Click the Windows' Start button. Go to Settings menu, and click Control Panel.
3. Double click the Add/Remove Programs icon.
4. Select EPSON Printer Driver/Utility and click the Add/Remove button.  
In Windows 2000, first click Change or Remove Programs, and select EPSON Printer Driver/Utility. Then, click the Change/Remove button.
5. In the window that appears, click the Printer Model tab.



6. Click any empty space next to the printer model icons so that none of the models is selected. Then, click the Utility tab.
7. In the Utility tab, select the check box for EPSON Status Monitor 3 (for EPSON EPL-N2050+ Advanced), and click OK.



8. When the dialog box for uninstalling Status Monitor 3 appears, click OK. This automatically uninstalls Status Monitor 3.
9. When the uninstallation is complete, click OK.

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# Replacing the Consumables

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## About Replacing the Consumables

If your printed images become faint, access the SelecType Setup menu and use the Toner function to find out approximately how much toner remains in the imaging cartridge.

To determine the amount of toner remaining in the Imaging Cartridge simply count the asterisks between the E (empty) and the F (full) on the display. Each asterisk represents about 25% of the total toner capacity. If you see only one asterisk on the display indicating that there is less than 25% toner left, prepare a replacement imaging cartridge.

Replace the cartridge with the Imaging Cartridge (S051070) even if the cartridge you remove has a different part number. Order the cartridge (S051070) that is specially designed for your high-quality 1200-dpi printer.



**Caution:**

*We recommend the use of genuine EPSON Imaging Cartridges. Products not manufactured by EPSON may cause damage to your printer, which is not covered by EPSON's warranties.*

**Note:**

*Make sure to reset the toner counter after replacing the imaging cartridge to resume printing.*

### Replacing the Imaging Cartridge

Follow these steps to replace the imaging cartridge:

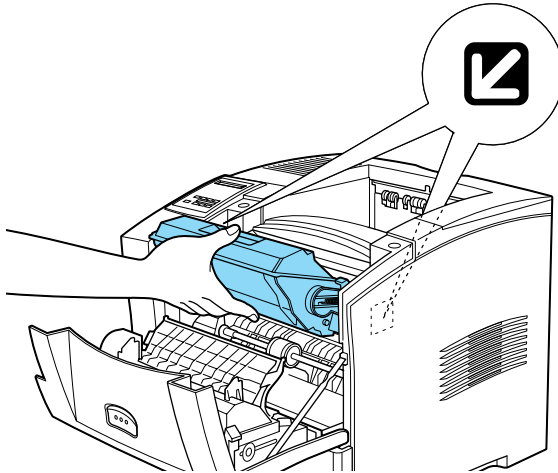
1. Push the button on the front cover of the printer and open it as shown below.



**Warning:**

*Do not touch the hot areas marked with the caution labels inside the front cover. Touching these areas may cause burns or injuries.*

2. Grasp the imaging cartridge at its center and pull it toward you at an upward angle. The cartridge slides out easily and does not need to be forced.



3. Dispose of the used imaging cartridge according to local regulations.



**Warning:**

*Do not dispose of used imaging cartridges in fire, as they can explode and cause injury. Dispose of them according to local regulations.*

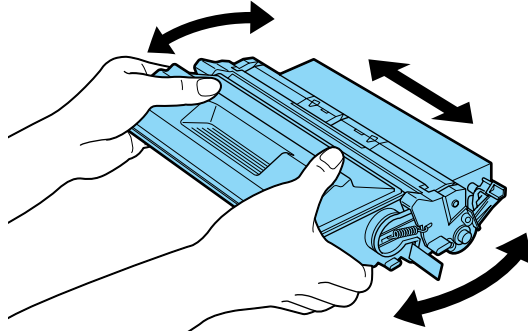


**Caution:**

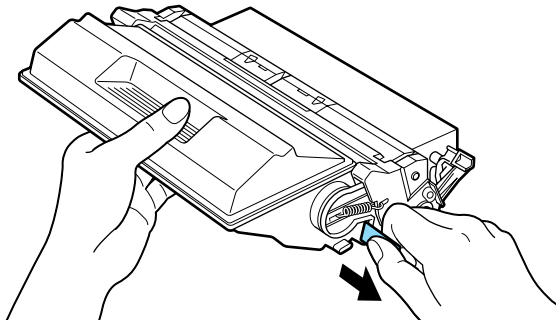
*Do not turn the imaging cartridge upside down. Do not expose the imaging cartridge to light any longer than necessary.*



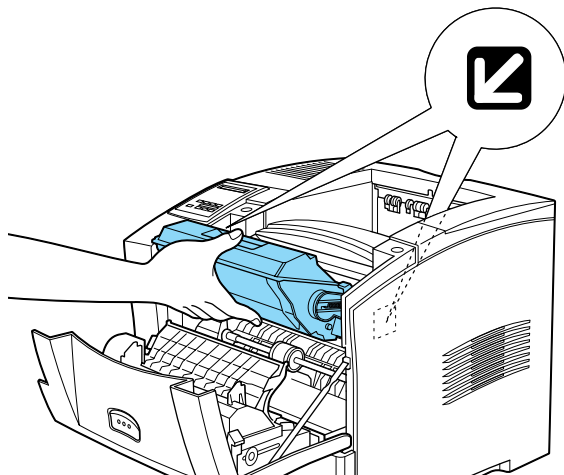
4. Remove the new imaging cartridge from its package.
5. While holding the new imaging cartridge horizontally, gently shake it a few times to distribute the toner evenly.



6. Pull the protective strip located on the right side of the cartridge all the way out completely with firm, even pressure.



- Note the arrows on the left and right sides inside the printer. Slide the new imaging cartridge, in the direction of the arrows, at a slight downward angle into the printer. Push the cartridge into the printer until it is securely placed in its proper position.



- Close the front cover of the printer by pushing it upward until it clicks into place.



**Caution:**

*To avoid spilling toner, do not tilt the imaging cartridge.*



**Warning:**

*Do not touch the hot areas marked with the caution labels inside the front cover. Touching these areas may cause burns or injuries.*

### *Resetting the toner counter*

After replacing the imaging cartridge, you need to reset the toner counter in order to continue using the printer.

Follow these steps to reset the toner counter:

1. Press the Menu button until the Setup Menu is displayed on the LCD panel.
2. Press the Item button to display Toner Count Clear in the menu.
3. Press Enter.  
Your toner counter is now reset.



# SelectType Settings

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## Using SelectType

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### When to use SelectType

Normally, use SelectType only for settings you cannot make in the application programs you are using or the printer driver, including the following:

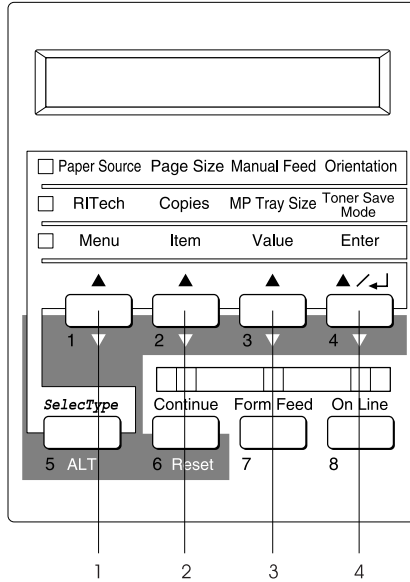
- ❑ Changing the emulation modes and selecting the IES (Intelligent Emulation Switching) mode
- ❑ Specifying a channel and configuring the interface
- ❑ Choosing the size of the memory buffer used to receive data

Keep in mind the following when using SelectType settings:

- ❑ A number of SelectType settings can be made directly using the OneTouch modes.
- ❑ To see the current SelectType settings, print a status sheet.

# How to make the settings

Use the buttons on the printer's control panel to enter SelectType mode. SelectType settings appear on the LCD panel.



1. Menu
2. Item
3. Value
4. Enter

**Note:**

You can directly access certain menu items using the OneTouch modes. For more information, see "Using the OneTouch Modes" on page 2-12.

1. Press the **Menu** button to enter **SelecType** mode. You can also enter **SelecType** mode by pressing the **SelecType** (**ALT**) button three times. The indicator light next to **Menu** comes on.
2. Use the **Menu**, **Item**, and **Value** buttons to display settings as described below:

To display menus, press **Menu**.

To display items in a menu, press **Item**.

To display values for an item, press **Value**.

An asterisk (\*) appears beside the currently active value.

Press **ALT** in combination with each button to display menus, items, or values in reverse order.

See “**SelecType menu table**” on page 4-3 for a list of **SelecType** menus and items.

3. To activate a new setting, press **Enter**. An asterisk (\*) appears beside the setting.
4. To exit the **SelecType** mode, press **On Line** or **SelecType**.

See “**Using SelecType**” on page 4-1 for a detailed description of **SelecType** settings.

## ***SelecType menu table***

The following table shows the order in which **SelecType** menus and menu items appear on the display panel.

Press the MENU button to display the next menu. Press the ALT and MENU buttons to display the previous menu.

<b>Menu</b>	<b>Items</b>
Test Menu	Status Sheet, Reserve Job List**, Network Status Sheet, Aux Status Sheet*, PS3 Status Sheet*, PS3 Font Sample*, LJ4 Font Sample, ESCP2 Font Sample, FX Font Sample, I239X Font Sample
Emulation Menu	Parallel, Serial, Network, AUX*
Printing Menu	Paper Source, Page Size, Wide A4, Orientation, Out Bin, Copies, Manual Feed, Resolution, Skip Blank Page, Auto Eject Page, Duplex*, Binding*, Start Page*, Offset Stacking*
Tray Menu	MP Mode, MP Tray Size, ENV Tray Size*, LC1 Size, LC2 Size*, LC3 Size*, MP Type, LC1 Type, LC2 Type*, LC3 Type*
Mail Box Menu*	MB1 Enable (or Disable) Password to MB10 Enable (or Disable) Password
Config Menu	RTech, Toner Save, Density, Top Offset, Left Offset, T Offset B*, L Offset B*, Size Ignore, Auto Cont, Page Protect, Image Optimum, Paper Type
Setup Menu	Time Out, Lang, Toner, Toner Out, Toner Count Clear, Total Pages, SelectType Init
Quick Print Job Menu**	-
Confidential Job Menu***	-
M-Box Password Menu*	Mailbox1 Password to Mailbox10 Password
Parallel Menu	Parallel I/F, Speed, Bi-D, Buffer Size
Serial Menu	Serial I/F, Word Length, Baud Rate, Parity, Stop Bit, DTR, DSR, Xon/Xoff, Buffer size
Network Menu	Network I/F, Network Config, Get IPAddress*, IP Byte1*, IP Byte2*, IP Byte3*, IP Byte4*, SM Byte1*, SM Byte2*, SM Byte3*, SM Byte4*, GW Byte1*, GW Byte2*, GW Byte3*, GW Byte4*, Buffer Size



<b>Menu</b>	<b>Items</b>
AUX Menu*	AUX I/F, AUX Config*, Get IPAddress*, IP Byte1*, IP Byte2*, IP Byte3*, IP Byte4*, SM Byte1*, SM Byte2*, SM Byte3*, SM Byte4*, GW Byte1*, GW Byte2*, GW Byte3*, GW Byte4*, NetWare*, AppleTalk*, NetBEUI*, AUX Init*, Buffer Size
LJ4 Menu	Font Source, Font Number, Pitch, Height, SymSet, Form, Source SymSet, Dest SymSet CR Function, LF Function, Tray Assign
GL2 Menu	GLMode, Scale, Origin, Pen, End, Join, Pen0, Pen1, Pen2* to Pen6*
PS3 Menu*	Error Sheet
ESCP2 Menu	Font, Pitch, Condensed, T.Margin, Text, CG Table, Country, Auto CR, Auto LF, Bit Image, ZeroChar
FX Menu	Font, Pitch, Condensed, T.Margin, Text, CG Table, Country, Auto CR, Auto LF, Bit Image, ZeroChar
I239X Menu	Font, Pitch, Code Page, T.Margin, Text, Auto CR, Auto LF, Alt. Graphics, Bit Image, ZeroChar, CharacterSet

\* These Items appear only when the corresponding option is installed.

\*\* This Item appears only when there is print job data stored in the printer's Hard Disk Drive to be printed by using the Quick Print Job Menu.

\*\*\*This Item appears only when there is print job data stored in the printer's Hard Disk Drive to be printed by using the Confidential Job Menu.

---

## ***Understanding SelecType Settings***

Read this section for a complete description of the settings available on the SelecType menus.

## Test Menu

From this menu you can perform an internal test printing which includes information on the printer's current settings and available fonts.

Press the Item button to select a sheet or font sample, then press Enter to print. There are no settings to select by pressing Value button.



**Caution:**

*When you print these samples, user-defined data stored in the printer, such as downloaded fonts, may be erased depending on which sample you print.*

*Status Sheet, PS3 Status Sheet\*, AUX Status Sheet\*\**

Prints a sheet describing the current printer settings. Use this option to check whether your printer is working correctly.

*LJ4 Font Sample, ESCP2 Font Sample, FX Font Sample, I239X Font Sample, PS3 Font Sample\**

Prints a sample of the fonts available for your selected printer emulation.

\* Available only when the Adobe PostScript 3 ROM is installed.

\*\* Available only when an optional interface card is installed.

*Network Status Sheet*

Prints parameters in the internal network settings.

*Reserve Job List*

Prints list of print jobs stored in the printer's Hard Disk Drive that can be printed by using the Quick Print Job Menu.

## Emulation Menu

Use this menu to select the printer emulation mode. You can specify different emulations for each interface; in other words, for each computer you connect the printer to. Since each emulation mode has its own specific options, make settings in the LJ4, ESCP2, FX, GL2, or I239X menus, as necessary. The values you can set are the same for every interface.

Item	Values (default is in bold)
Parallel	<b>Auto</b> , LJ4, ESCP2, FX, I239X, PS3*, GL2
Serial	<b>Auto</b> , LJ4, ESCP2, FX, I239X, PS3*, GL2
Network	<b>Auto</b> , LJ4, ESCP2, FX, I239X, PS3*, GL2
AUX**	<b>Auto</b> , LJ4, ESCP2, FX, I239X, PS3*, GL2

\* Available only when the Adobe PostScript 3 Kit is installed.

\*\* Available only when an optional interface card is installed.

## Printing Menu

This menu allows you to make standard print settings, such as Paper Source and Page Size, even when printing from an application or operating system that does not support your printer driver. Be sure to use the printer driver to make these settings whenever you can, since settings made in the application software always override SelecType settings.

Most of the items in the Printing menu can be accessed directly through the OneTouch Modes. These items are listed on your printer's display panel beside the OneTouch Mode indicator lights. See "Using the OneTouch Modes" on page 2-12 for more information.

Item	Values (default is in bold)
Paper Source	<b>Auto</b> , MP, ENV*, LC1, LC2*, LC3*
Page Size	<b>A4</b> , A5, B5, LT, HLT, LGL, GLT, GLG, EXE, F4, MON, C10, DL, C5, C6, IB5, CTM
Wide A4	<b>Off</b> , On
Orientation	<b>Port</b> , Land
Out Bin	<b>Face-down</b> , Shifter*, Mailbox1*, Mailbox2* to Mailbox10*
Copies	<b>1</b> to 999
Manual Feed	<b>Off</b> , On
Resolution	<b>600</b> , 1200, 300
Skip Blank Page	<b>Off</b> , On
Auto Eject Page	<b>Off</b> , On
Duplex*	<b>Off</b> , On
Binding*	<b>Long Edge</b> , Short Edge
Start Page*	<b>Front</b> , Back
Offset Stacking*	<b>Off</b> , On

\* These values appear only when the corresponding options are installed.

## Paper Source

Specifies whether paper feeds into the printer from the MP tray, the optional Envelope Feeder, the standard lower cassette, or from the optional Large Capacity Paper Cassette.

If you select **Auto**, paper feeds from the paper source containing paper that matches your **Page Size** setting.

**Note:**

*You can also make this setting directly from OneTouch Mode 1.*

### Page Size

Specifies the paper size.

**Note:**

*You can also make this setting directly from OneTouch Mode 1.*

### Wide A4

Enables you to print 80 columns on A4 size paper in portrait orientation when you print from a DOS application. Selecting this setting changes the right and left margins from 4 mm to 3.4 mm.

### Orientation

Specifies whether the page is printed in portrait or landscape orientation. For example, this page is printed in portrait orientation.

**Note:**

*You can also make this setting directly from OneTouch Mode 1.*

### Out Bin

Specifies the output destination if you have installed either the optional Shifter or Multibin.

### Copies

Designates the number of copies to be printed, up to 999.

**Note:**

*You can also make this setting directly from OneTouch Mode 2.*

## *Manual Feed*

Allows you to select the manual feed mode for all the paper sources. See “Manually feeding paper” on page 1-11 for details on manual feed mode.

### **Note:**

*You can also make this setting directly from OneTouch Mode 1.*

## *Resolution*

Switches the resolution between 600, 1200 and 300 dpi.

## *Skip Blank Page*

Enables you to skip blank pages when printing. This setting is not available when you print in the GL2, ESC/P 2, FX, or I239X modes.

## *Auto Eject Page*

Sets whether or not to output paper when the time-out limit is reached according to the **Time Out** setting in the Setup menu. Default is off, or paper is not printed when the time-out limit is reached. This item is not available in the PCL6 mode.

## *Duplex*

Turns duplex printing on or off. This item is available only when the optional Duplex Unit is installed.

## *Binding*

Specifies the binding direction of the printout. This item is available only when the optional Duplex Unit is installed.

## *Start Page*

Specifies whether printing starts from the front or back side of the page. This item is available only when the optional Duplex Unit is installed.

## *Offset Stacking*

Lets you separate each set of printed copies when output paper to the optional Shifter. When this setting is on, print jobs are consecutively ejected to slightly different locations on the Shifter. This process is repeated, resulting in each set of printed copies or print jobs being offset from the previous set.

## **Tray Menu**

Use this menu to make the paper size and paper type settings for each paper source.

Tray size settings specify the paper size you load in the MP tray. Tray type settings are for selecting the paper type loaded in the MP tray or lower cassettes 1 (LC1) through 3 (LC3). LC2 and LC3 stand for paper cassettes of the optional Large Capacity Paper Units.

Item	Values (default is in bold)
MP Mode	<b>Normal</b> , Last
MP Tray Size	<b>A4</b> , A5, LT, B5, HLT, LGL, GLT, GLG, EXE, F4, MON, C10, DL, C5, C6, IB5
ENV Tray Size*	<b>C5</b> , DL, C10, MON
LC1 Size	<b>A4</b> , A5, LT, B5, LGL, GLG, EXE
LC2 Size**	<b>A4</b> , A5, LT, B5, LGL, GLG, EXE
LC3 Size**	<b>A4</b> , A5, LT, B5, LGL, GLG, EXE
MP Type	<b>Plain</b> , Letterhead, Recycled, Color, Trnspncy, Labels
LC1 Type	<b>Plain</b> , Letterhead, Recycled, Color, Trnspncy, Labels
LC2 Type**	<b>Plain</b> , Letterhead, Recycled, Color, Trnspncy, Labels
LC3 Type**	<b>Plain</b> , Letterhead, Recycled, Color, Trnspncy, Labels

\* This item appears only when the optional Large Envelope Feeder is installed.

\*\* These items appear only when the corresponding optional Large Capacity Paper Units are installed.

**Note:**

*Be sure to set the paper type when you load pre-punched transparencies in the paper tray.*

### MP Mode

When **Normal** is selected, the MP tray has the highest priority as the paper source. If you select **Last**, the MP tray has the lowest priority.



### *MP Tray Size*

Allows you to select the paper size for the MP tray.

**Note:**

*You can also make this setting directly from OneTouch Mode 2.*

### *Env Tray Size*

Allows you to select the envelope size for the Envelope Feeder. This item is available only when the optional Envelope Feeder is installed.

### *LC1 Size, LC2 (option) Size, LC3 (option) Size*

Displays the actual paper size loaded in standard lower paper cassette or optional Large Capacity Paper Unit.

### *MP Type*

Lets you set the paper type loaded in the MP tray.

### *LC1 Type, LC2 (option) Type, LC3 (option) Type*

Lets you select the paper type loaded in the standard or optional paper cassette.

## **Mail Box Menu**

This menu allows you to enable or disable passwords for each mailbox in the optional Multibin Unit. The opposite status of the mailboxes, MB1 Password Enable (or Disable) to MB10 Password Enable (or Disable), is displayed.

<b>Items</b>
MB1 Enable Password or MB1 Disable Password
MB2 Enable Password or MB2 Disable Password
MB3 Enable Password or MB3 Disable Password

Items
MB4 Enable Password or MB4 Disable Password
MB5 Enable Password or MB5 Disable Password
MB6 Enable Password or MB6 Disable Password
MB7 Enable Password or MB7 Disable Password
MB8 Enable Password or MB8 Disable Password
MB9 Enable Password or MB9 Disable Password
MB10 Enable Password or MB10 Disable Password

### *MB1 Enable Password ~ MB10 Enable Password*

These items are displayed when the mailbox password is disabled.

### *MB1 Disable Password ~ MB10 Disable Password*

These items are displayed when the mailbox password is enabled.

## Config Menu

This menu allows you to control certain printer settings such as Toner Save, RITech, and Density.

Item	Values (default is in bold)
RITech	<b>On</b> , Off
Toner Save	<b>Off</b> , On
Density	1, 2, <b>3</b> , 4, 5
Top Offset	-99.0 ... <b>0.0</b> ... 99.0 mm in 0.5 increments
Left Offset	-99.0 ... <b>0.0</b> ... 99.0 mm in 0.5 increments
T Offset B*	-99.0 ... <b>0.0</b> ... 99.0 mm in 0.5 increments
L Offset B*	-99.0 ... <b>0.0</b> ... 99.0 mm in 0.5 increments
Size Ignore	<b>Off</b> , On
Auto Cont	<b>Off</b> , On
Page Protect	<b>Auto</b> , On
Image Optimum	<b>Auto</b> , Off, On
Paper Type	<b>Normal</b> , Thick, Trnspncy

\* Available only when the corresponding options are installed.

### RITech

When you select **On**, the RITech setting is turned on and you can produce smoother and crisper lines, text, and graphics.

**Note:**

*You can also make this setting directly from OneTouch Mode 2.*

### Toner Save

When you select **On**, the printer saves toner by substituting a gray shade for the black inside of characters. The characters are outlined in full black on the right and lower edges.

**Note:**

*You can also make this setting directly from OneTouch mode 2.*

## Density

You can adjust the print density to make your printout lighter (1) or darker (5).

**Note:**

*Increasing the print density increases toner consumption. If you select darker print, you may need to replace the Imaging Cartridge more often.*

## Top Offset

Makes fine adjustments to the vertical printing position of the page.



**Caution:**

*Make sure that the printed image does not extend beyond the edge of the paper. Otherwise, you may damage the printer.*

## Left Offset

Makes fine adjustments to the horizontal printing position of the page. This is useful for fine adjustments when using the manual feed mode.



**Caution:**

*Make sure that the printed image does not extend beyond the edge of the paper. Otherwise, you may damage the printer.*

## T Offset B

Adjusts the vertical printing position on the back side of the paper when printing on both sides. Use this if the printout on the back side is not where you expected. This item is available only when the optional Duplex Unit is installed.

## *L Offset B*

Adjusts the horizontal printing position on the back side of the paper when printing on both sides. Use this if the printout on the back side is not where you expected. This item is available only when the optional Duplex Unit is installed.

## *Size Ignore*

If you want to ignore a paper size error, select *On*. When you turn this item on, the printer keeps printing even if the image size exceeds the printable area for the specified paper size, and ignores *Page Set* errors and *Check Page Size* messages. This may cause smudges because of toner that is not transferred onto the paper properly. When this item is turned off, the printer stops printing if a paper size error occurs.

## *Auto Cont*

When you turn this setting on, the printer automatically continues printing after a certain period of time when one of the following errors occurs: *Paper Set*, *Print Overrun*, *Mem Overflow*, or *Can't Print Duplex*. When this option is off, you must press the *Continue* button to resume printing.

## *Page Protect*

Allocates additional printer memory for printing data, as opposed to receiving it. You may need to turn this setting on if you are printing a very complex page. If a *Print Overrun* error occurs, change the setting to *On* and reprint your data. This reduces the amount of memory reserved for receiving data so your computer may take longer to send the print job, but it will allow you to print complex jobs. *Page Protect* usually works best if set to *Auto*. You will need to increase your printer's memory if memory errors continue to occur.

### **Note:**

*This setting is activated after changing the Emulation mode or executing Reset All.*

## Image Optimum

When this mode is on, the quality of graphics is reduced. It reduces the amount of graphics data when the data reaches the memory limit, allowing complex documents to be printed.

## Paper Type

Allows you to use various types of paper. This is useful for irregular size plain paper over 80g/m<sup>2</sup> and envelopes. Always use Normal unless print quality problems occur.

## Setup Menu

This menu allows you to customize various printer modes, select an LCD panel display language, determine the total number of pages printed to date, and check the toner counter.

Item	Values (default is in bold)
Time Out	0, 5 ... <b>60</b> ... 300 seconds in 1 second increments
Lang	<b>English</b> , Français, Deutsch, ITALIANO, ESPAÑOL, SVENSKA, Dansk, Nederl., SUOMI, Português
Toner	E****F, E*** F, E** F, E* F, E F
Toner Out	<b>Continue</b> , Stop
Toner Count Clear	-
Total Pages	0 to 99999999
SelecType Init	-

\* These appear only when the corresponding option is installed.

## Time Out

Sets the length of time the printer waits when it is online and no new data is received. When this time is up, the printer searches for new print data on other channels.

## *Lang*

Specifies the language displayed on the LCD panel and that printed on the status sheet.

## *Toner*

Displays the amount of toner left in the Imaging Cartridge as shown below.

E\*\*\*\* F (100-76%)

E\*\*\* F (75-51%)

E\*\* F (50-26%)

E\* F (25-1%)

E F (0%)

## *Toner Out*

Allows you to set the printer's operation when the Toner Counter indicates *Toner Out*. When *Toner Out* is set to *Stop* an error message is displayed. Setting *Toner Out* to *Stop* is recommended when the printer is connected to a network where print quality cannot be closely monitored. When set to *Continue*, an error message is not displayed and printing continues even though the Toner Counter indicates *Toner Out*.

## *Toner Count Clear*

Resets the Toner Counter when you replace the Imaging Cartridge.

## *Total Pages*

Displays the total number of sheets printed by the printer.

## *SelectType Init*

Erases all the SelectType settings you have changed with the exception of interface settings, and resets them to their defaults.

## **Quick Print Job Menu**

This menu allows you to perform or delete print jobs stored in the printer's memory by using the Quick Print Job feature (Re-Print Job, Verify Job, Stored Job) of the Reserve Job function. See "Using the Quick Print Job Menu" on page 1-16 for more information.

## **Confidential Job Menu**

This menu allows you to perform or delete print jobs stored in the printer memory by using the Confidential Job feature of the Reserve Job function. You need to enter correct password to print the data. See "Using the Confidential Job Menu" on page 1-20 for more information.

## **M-Box Password Menu**

This menu allows you to change the password assigned to each mailbox in the Multibin Unit.

<b>Item</b>
Mailbox1 Password
Mailbox2 Password
Mailbox3 Password
Mailbox4 Password
Mailbox5 Password
Mailbox6 Password
Mailbox7 Password



<b>Item</b>
Mailbox8 Password
Mailbox9 Password
Mailbox10 Password

## Parallel Menu

These settings control communication between the printer and the computer when using a parallel interface.

<b>Item</b>	<b>Values (default is in bold)</b>
Parallel I/F	<b>On</b> , Off
Speed	<b>Fast</b> , Normal
Bi-D	Nibble, <b>ECP</b> , Off
Buffer Size	<b>Normal</b> , Maximum, Minimum

### Parallel I/F

Allows you to activate or deactivate the parallel interface.

### Speed

Specifies the pulse width of the ACKNLG signal when receiving data in the Compatibility mode or Nibble mode. When this option is set to **Fast**, the pulse width is about 1  $\mu$ s. When this option is set to **Normal**, the pulse width is about 10  $\mu$ s.

### Bi-D

Allows you to specify the bidirectional communication mode. When you select **Off**, bidirectional communication is disabled.

## Buffer Size

Determines the amount of memory to be used for receiving data from the parallel interface and for printing data. If set to **Maximum**, more memory is allocated for receiving data. If set to **Minimum**, more memory is allocated for printing data.

### **Note:**

- ❑ *To make new settings effective, press the ALT and Reset buttons simultaneously until Reset All appears on the LCD panel. Alternatively, turn off the printer for more than 5 seconds, then turn it back on.*
  
- ❑ *Resetting the printer erases all print jobs. Make sure the On Line light is not flashing when you reset the printer.*

## Serial Menu

Item	values (default is in bold)
Serial I/F	<b>On</b> , Off
Word Length	<b>8</b> , 7
Baud Rate	300, 600, 1200, 2400, 4800, <b>9600</b> , 19200, 38400, 57600, 76800, 115200
Parity	<b>None</b> , Even, Odd
Stop Bit	<b>1</b> , 2
DTR	<b>On</b> , Off
DSR	<b>Off</b> , On
Xon/ Xoff	<b>On</b> , Off, Robust
Buffer Size	Normal, Maximum, <b>Minimum</b>

## Network Menu

These items are for making network settings. Have your network administrator make these settings while referring to the *Administrator's Guide*.

Item	Values (default is in bold)
Network I/F	<b>On</b> , Off
Network Config	<b>No</b> , Yes
Get IPAddress	Panel, <b>Auto</b> , PING
IP Byte 1	0 ... <b>192</b> ...255
IP Byte 2	0 ... <b>168</b> ...255
IP Byte 3	0 ... <b>192</b> ...255
IP Byte 4	0 ... <b>168</b> ...255
SM Byte 1	0 to <b>255</b>
SM Byte 2	0 to <b>255</b>

Item	Values (default is in bold)
SM Byte 3	0 to <b>255</b>
SM Byte 4	<b>0</b> to 255
GW Byte 1	0 to <b>255</b>
GW Byte 2	0 to <b>255</b>
GW Byte 3	0 to <b>255</b>
GW Byte 4	0 to <b>255</b>
Buffer Size	<b>Normal</b> , Maximum, Minimum

**Note:**

- ❑ *To make new settings effective, press the ALT and Reset buttons simultaneously until Reset All appears on the LCD panel. Alternatively, turn off the printer for more than 5 seconds, then turn it back on.*
  
- ❑ *Resetting the printer erases all print jobs. Make sure the On Line light is not flashing when you reset the printer.*

# AUX Menu

This menu allows you to control the optional interface settings.

Item	Values (default is in bold)
AUX I/F	<b>On</b> , Off
AUX Config*	<b>No</b> , Yes
Get IPAddress*	Panel, Auto, PING
IP Byte 1*	0 to 255
IP Byte 2*	0 to 255
IP Byte 3*	0 to 255
IP Byte 4*	0 to 255
SM Byte 1*	0 to 255
SM Byte 2*	0 to 255
SM Byte 3*	0 to 255
SM Byte 4*	0 to 255
GW Byte 1*	0 to 255
GW Byte 2*	0 to 255
GW Byte 3*	0 to 255
GW Byte 4*	0 to 255
NetWare*	On, Off
AppleTalk*	On, Off
NetBEUI*	On, Off
AUX Init*	-
Buffer Size	<b>Normal</b> , Maximum, Minimum

\* These appear only when the corresponding option is installed.

## Buffer Size

Determines the amount of memory to be used for receiving data and printing data. If set to Maximum, more memory is allocated for receiving data. If set to Minimum, more memory is allocated for printing data.

### **Note:**

- ❑ *After changing this setting, reset the printer to make the new setting effective. To reset the printer, while pressing the ALT button hold down the Reset button for more than ten seconds until Reset All is displayed. Alternatively, turn off the printer, then after 5 seconds, turn it back on.*
- ❑ *Resetting the printer erases all print jobs. Make sure the On Line light is not flashing when you reset the printer.*

## LJ4 Menu

These settings control the fonts and symbol sets when in LJ4 mode.

Item	Values (default is in bold)
Font Source	<b>Resident</b> , Download, ROM A*, ROM B*
Font Number	<b>0</b> to 65535 (depending on your settings)
Pitch	0.44 ... <b>10.00</b> ... 99.99 cpi in 0.01 increments
Height	4.00 ... <b>12.00</b> ... 999.75 pt in 0.25 increments
SymSet	<b>IBM-US</b> , Roman-8, Roman-9, ECM94-1, 8859-2 ISO, 8859-9 ISO, 8859-10 ISO, 8859-15 ISO, PcBit775, IBM-DN, PcMultiling, PcE.Europe, PcTk437, PcEur858, Pc1004, WiAnsi, WiE.Europe, WiTurkish, WiBALT, DeskTop, PsText, VeInternati, VeUS, MsPublishin, Math-8, PsMath, VeMath, PiFont, Legal, UK, ANSI ASCII, Swedis2, Italian, Spanish, German, Norweg1, French2, Windows, McText, Pclcelandic, Pclt774, PcTurk1, PcPortugues, PcEt850, PcTurk2, PcCanFrench, PcS1437, PcNordic, 8859-3 ISO, 8859-4 ISO, WiBaltic, WiEstonian, WiLatvian, Mazowia, CodeMJK, BpBRASCIi, BpAbicomp, PcGk437, PcGk851, PcGk869, 8859-7 ISO, WiGreek, Europe3, PcCy855, PcCy866, Pclt866, PcUkr866, Pclit771, 8859-5 ISO, WiCyrillic, Bulgarian, Hebrew7, 8859-8 ISO, Hebrew8, PcHe862, Arabic8, PcAr864, 8859-6 ISO, OCR A, OCR B
Form	5 ... <b>60/64*</b> ... 128 lines
Source SymSet	0 ... <b>277</b> ... 3199
Dest SymSet	0 ... <b>277</b> ... 3199
CR Function	<b>CR</b> , CR+LF
LF Function	<b>LF</b> , CR+LF
Tray Assign	<b>4K</b> , 5S, 4

\* Depending on whether Letter (60) or A4 (66) paper has been selected.

**Note:**

*If you normally use the HP LaserJet 4 printer driver when printing, you should change settings using this driver whenever you can. Printer driver settings always override the LJ4 Menu options.*

### Font Source

Sets the default font source.

### Font Number

Sets the default font number for the default font source. The available number depends on the settings you made.

### Pitch

Specifies the default font pitch if the font is scalable and of fixed-pitch. You can select from 0.44 to 99.99 cpi (characters per inch), in 0.01-cpi increments. This item may not appear depending on the `Font Source` or `Font Number` settings.

### Height

Specifies the default font height if the font is scalable and proportional. You can select from 4.00 to 999.75 points, in 0.25-point increments. This item may not appear depending on the `Font Source` or `Font Number` settings.

### SymSet

Selects the default symbol set. If the font you selected in `Font Source` and `Font Number` is not available in the new `SymSet` setting, the `Font Source` and the `Font Number` values are automatically replaced with the default value, `IBM-US`.



## *Form*

Selects the number of lines for the selected paper size and orientation. This also causes a line spacing (VMI) change, and the new VMI value is stored in the printer. This means that later changes in *Page Size* or *Orientation* settings cause changes in the *Form* value, based on the stored VMI.

## *Source SymSet, Dest SymSet*

Available only in certain locations where printers are sold with a special ROM module installed to handle specific languages.

## *CR Function*

When *CR Function* is set to *CR*, the printer does not perform a line feed (LF) command with each carriage return (CR). When set to *CR+LF*, the printer performs a line feed to each carriage return it receives. Select *CR+LF* for this item if you find lines of text are overlapping in your printout.

## *LF Function*

When *LF Function* is set to *LF*, the printer does not perform a carriage return (CR) command with each line feed (LF) or form feed (FF). When set to *CR+LF*, the printer performs a carriage return to each line feed or form feed it receives. Select *CR+LF* for this item if the printer does not print characters beyond the right margin.

## *Tray Assign*

Changes the assignment for the paper source select command. When *4* is selected, the commands are set as compatible with the HP LaserJet 4. When *4K* is selected, the commands are set as compatible with the HP LaserJet 4000, 5000, and 8000. When *5S* is selected, the commands are set as compatible with the HP LaserJet 5Si.

## GL2 Menu

This menu lets you set the printer to emulate a plotter, allowing you to use software which requires a plotter for output. The **LJ4GL2** mode is similar to the GL/2 mode supported in the HP LaserJet 4 mode. The **GLlike** mode emulates some of the HP-GL plotter commands and includes all the commands found in HP's GL/2 mode, as well as two additional commands.

These settings are available only when the printer is in GL2 mode.

Item	Values (default is in bold)
GLMode	<b>LJ4GL2</b> , GLlike,
Scale	<b>Off</b> , A0, A1, A2, A3
Origin	<b>Corner</b> , Center
Pen	<b>Pen0</b> , Pen1, Pen2*, Pen3*, Pen4*, Pen5*, Pen6*
End	<b>Butt</b> , Square, Triangular, Round
Join	<b>Mitered</b> , Miteredbeveled, Triangular, Round, Beveled, None
Pen 0 through 6	0.05 ... <b>0.35</b> ... 5.00 mm in 0.05 increments

\* Available only when in the **GLlike** mode.

### GLMode

Specifies whether the printer uses a direct emulation of the GL/2 plotter language, or the HP LaserJet 4 emulation of GL/2.

### Scale

Specifies the original output size from the plotter's software. The actual output size will be reduced to the Page Size set in the Printing Menu.

### *Origin*

Specifies whether the logical origin of the “plotter” is from the corner or the center of the paper.

### *Pen*

Allows you to choose a pen which you can then set the thickness for in the *Pen 0* through *Pen 6* menu item. The *LJ4GL2* mode supports two pens (0 and 1), while the *GLlike* mode supports seven pens (0 through 6).

### *End*

Specifies the way in which lines end.

### *Join*

Specifies the way in which lines are joined.

### *Pens 0 through 6*

Allows you to set the thickness of the “pens” used to make the printout. *Pen 0* and *Pen 1* are available in the *LJ4GL2* mode, and *Pen 0* through *Pen 6* are available in the *GLlike* mode.

## **Before you start printing in the *GL/2* mode**

You may need to change the following print options in your application, depending on your output needs. Check these settings to make sure they match the data you are trying to print.

<b>Print Options</b>	<b>Settings</b>
Paper size	Printer's paper size setting
Driver (plotter selection)	HP-GL/2 or HP-GL
Pen configuration	Pen thickness
Plot origin	Center or Corner

Orientation	GL1like offers landscape only LJ4GL2 offers landscape and portrait
-------------	---

If you need to configure the printer settings, first switch to the GL/2 emulation mode, then change the settings using the printer driver, or SelecType. See “Emulation Menu” on page 4-7 for information on how to change the emulation mode.



**Caution:**

*Settings or data saved in the printer RAM (such as downloaded fonts) may be erased when you change the emulation mode.*

## PS3 Menu

These settings are available only when the optional Adobe PostScript 3 ROM module is installed. Refer to the *Setup Guide* for installation instructions. See also your Adobe PostScript 3 Kit documentation.

Item	Values (default is in bold)
Error Sheet	<b>Off</b> , On

### Error Sheet

When you select On, the printer prints out an error sheet.

# ESCP2 Menu

This menu allows you to make settings which affect the printer when it is in ESCP 2 emulation mode.

Item	Values (default is in bold)
Font	<b>Courier</b> , Prestige, Roman, Sans serif, Roman T, Orator S, Sans H, Script, OCR A, OCR B
Pitch	<b>10</b> , 12, 15 (cpi), Prop.
Condensed	<b>Off</b> , On
T.Margin	0.40 ... <b>0.50</b> ... 1.50 in. in 0.05 increments
Text	1... <b>62/66</b> *... 81 lines
CGTable	<b>PcUSA</b> , Italic, PcMultilin, PcPortugue, PcCanFrenc, PcNordic, PcTurkish2, Pclcelandic, PcE.Europe, BpBRASCI, BpAbicomp, Roman-8, PcEur858, ISO Latin1, 8859-15ISO, PcS1437, PcTurkish1, 8859-9 ISO, Mazowia, CodeMJK, PcGk437, PcGk851, PcGk869, 8859-7 ISO, PcCy855, PcCy866, PcUkr866, PcLit771, Bulgarian, Hebrew7, Hebrew8, PcHe862, PcAr864
Country	<b>USA</b> , France, Germany, UK, Denmark, Sweden, Italy, Spain1, Japan, Norway, Denmark2, Spain2, LatinAmeric, Korea, Legal
Auto CR	<b>On</b> , Off
Auto LF	<b>Off</b> , On
Bit Image	<b>Dark</b> , Light, BarCode
ZeroChar	<b>0</b> , (or the zero character with a slash)

\* Depends on whether Letter (62) or A4 (66) paper has been selected.

## Font

Selects the font used for printing.

## *Pitch*

Selects the pitch (the horizontal spacing) of the font in fixed pitch, measured in cpi (characters per inch). You can also choose proportional spacing.

## *Condensed*

Turns condensed printing on or off.

## *T. Margin*

Sets the distance from the top of the page to the baseline of the first printable line. The distance is measured in inches.

## *Text*

Sets the page length in lines. For this option, a line is assumed to be 1 pica (1/6 inch). If you change the *Orientation*, *Page Size*, or *T. Margin* settings, the page length setting automatically returns to the default for each paper size.

## *CGTable*

Use the character generator (CG) table option to select the graphics character table or the italics table. The graphics table contains graphic characters for printing lines, corners, shaded areas, international characters, Greek characters, and mathematical symbols. If you select *Italic*, the upper half of the character table is defined as italic characters.

## *Country*

Use this option to select one of the fifteen international symbol sets. See “International character sets” on page B-6 for the list of symbol sets.

### *Auto CR*

Specifies whether the printer performs a carriage-return/line-feed (CR-LF) operation whenever the printer position goes beyond the right margin. If this setting is off, the printer does not print any characters beyond the right margin and does not perform any line wrapping until it receives a carriage-return character. This function is handled automatically by most applications.

### *Auto LF*

If you set this option to `Off`, the printer does not send an automatic line-feed (LF) command with each carriage-return (CR). If this is set to `On`, a line-feed command is sent with each carriage-return. Set to `On` if your text lines overlap.

### *Bit Image*

The printer is able to emulate the graphics densities set with the printer commands. If you select `Dark`, the bit image density is high, and if you select `Light`, the bit image density is low.

If you select the `BarCode` setting, the printer converts bit images to bar codes by automatically filling in any vertical gaps between dots. This produces unbroken vertical lines that can be read by a bar code reader. This mode will reduce the size of the image being printed, and may also cause some distortion when printing bit image graphics.

### *ZeroChar*

Specifies whether the printer prints a slashed or unslashed zero. This is useful for distinguishing between an uppercase O and a numeric 0 when printing program listings, for example.

# FX Menu

This menu allows you to make settings which affect the printer when it is in FX emulation mode.

Item	Values (default is in bold)
Font	<b>Courier</b> , Prestige, Roman, Sans Serif, Script, Orator S, OCR A, OCR B
Pitch	<b>10</b> , 12, 15 cpi, Prop.
Condensed	<b>Off</b> , On
T.Margin	0.40 ... <b>0.50</b> ... 1.50 in. in 0.05 in. increments
Text	1... <b>62/66*</b> ... 81 lines
CGTable	<b>PcUSA</b> , Italic, PcMultilin, PcPortugue, PcCanFrenc, PcNordic, PcTurkish2, Pclcelandic, PcE.Europe, BpBRASCII, BpAbicomp, Roman-8, PcEur858, ISO Latin1, 8859-15 ISO
Country	<b>USA</b> , France, Germany, UK, Denmark, Sweden, Italy, Spain1, Japan, Norway, Denmark2, Spain2, LatinAmeric
Auto CR	<b>On</b> , Off
Auto LF	<b>Off</b> , On
Bit Image	<b>Dark</b> , Light, BarCode
ZeroChar	<b>0</b> , (or the zero character with a slash)

\* Depending on whether Letter (62) or A4 (66) paper has been selected

## Font

Selects the font.

## Pitch

Selects the pitch (the horizontal spacing) of the font in fixed pitch, measured in cpi (characters per inch), or you can choose proportional spacing.



## *Condensed*

Turns condensed printing on or off.

## *T. Margin*

Sets the distance from the top of the page to the baseline of the first printable line. The distance is measured in inches. The smaller the value, the closer the printable line is to the top.

## *Text*

Sets the page length in lines. For this option, a line is assumed to be 1 pica (1/6 inch). If you change the *Orientation*, *Page Size*, or *T. Margin* settings, the page length setting automatically returns to the default for each paper size.

## *CGTable*

Use the character generator (CG) table option to select the graphics character table or the italics table. The graphics table contains graphic characters for printing lines, corners, shaded areas, international characters, Greek characters, and mathematical symbols. If you select *Italic*, the upper half of the character table is defined as italic characters.

## *Country*

Use this option to select one of the fifteen international symbol sets. See "International character sets" on page B-6 for the list of symbol sets.

## *Auto CR*

Specifies whether the printer performs a carriage-return/line-feed (CR-LF) operation whenever the printer position goes beyond the right margin. If this setting is off, the printer does not print any characters beyond the right margin and does not perform any line wrapping until it receives a carriage-return character. This function is handled automatically by most applications.

## *Auto LF*

If you set this option to `Off`, the printer does not send an automatic line-feed (LF) command with each carriage return (CR). If this is set to `On`, a line-feed command is sent with each carriage return. Set to `On` if your text lines overlap.

## *Bit Image*

The printer is able to emulate the graphics densities set with the printer commands. If you select `Dark`, the bit image density is high, and if you select `Light`, the bit image density is low.

If you select `BarCode`, the printer converts bit images to bar codes by automatically filling in any vertical gaps between dots. This produces unbroken vertical lines that can be read by a bar code reader. This mode will reduce the size of the image being printed, and may also cause some distortion when printing bit image graphics.

## *ZeroChar*

Selects whether the printer prints a slashed or unslashed zero.

## **I239X Menu**

I239X mode emulates IBM 2390/2391 Plus commands. For detailed information on most of the settings and parameters in the table below, refer to the previous section.

These settings are available only when the printer is in I239X mode.

Item	Values (default is in bold)
Font	<b>Courier</b> , Prestige, Gothic, Orator, Script, Presentor, Sans serif
Pitch	<b>10</b> , 12, 15, 17, 20, 24 (cpi), Prop.
Code Page	<b>437</b> , 850, 858, 860, 863, 865
T.Margin	0.30 ... <b>0.40</b> ... 1.50 in. in 0.05 increments
Text	1... <b>63/67*</b> ... 81 lines
Auto CR	<b>Off</b> , On
Auto LF	<b>Off</b> , On
Alt. Graphics	<b>Off</b> , On
Bit Image	<b>Dark</b> , Light
ZeroChar	<b>0</b> , (or the zero character with a slash)
Character Set	1, <b>2</b>

\* Depends on whether Letter (63) or A4 (67) paper has been selected.

### Code Page

Selects the character tables. Character tables contain the characters and symbols used by different languages. The printer prints text based on the selected character table.

### Alt. Graphics

Turns the Alternate Graphics option on or off.

### Character Set

Selects character table 1 or 2.



# Troubleshooting

---

## Introduction

This chapter provides information necessary to keep the printer in optimum condition. This chapter explains how to:

- ❑ Solve problems you may encounter
- ❑ Understand status and error messages
- ❑ Use the Hex Dump Mode to analyze communication errors

A complete description of the status, error, and warning messages shown on the printer's LCD panel is also included.

---

## Printer Problems

### **Preventing paper feed and paper jam problems**

To prevent frequent paper feed or paper jam problems, use this checklist of corrective measures.

- ❑ Use a higher-quality paper, one that is not too thin or coarse.
- ❑ Fan a stack of paper and tap it on a flat surface to even its edges before you load it.
- ❑ Be sure that you do not load too much paper in the paper sources.

- ❑ Be sure to adjust the paper guides so that the paper can feed smoothly.
- ❑ Never let the paper output to any output tray exceed its capacity.
- ❑ Make sure that you are using the correct paper size and the paper meets the specifications for this printer.
- ❑ Make sure you load paper with the correct side up. Most packages of paper indicate the top side of the paper with an arrow on the side of the package.
- ❑ If your printouts are curled or do not stack properly when using plain paper, try turning the stack over and reloading it.

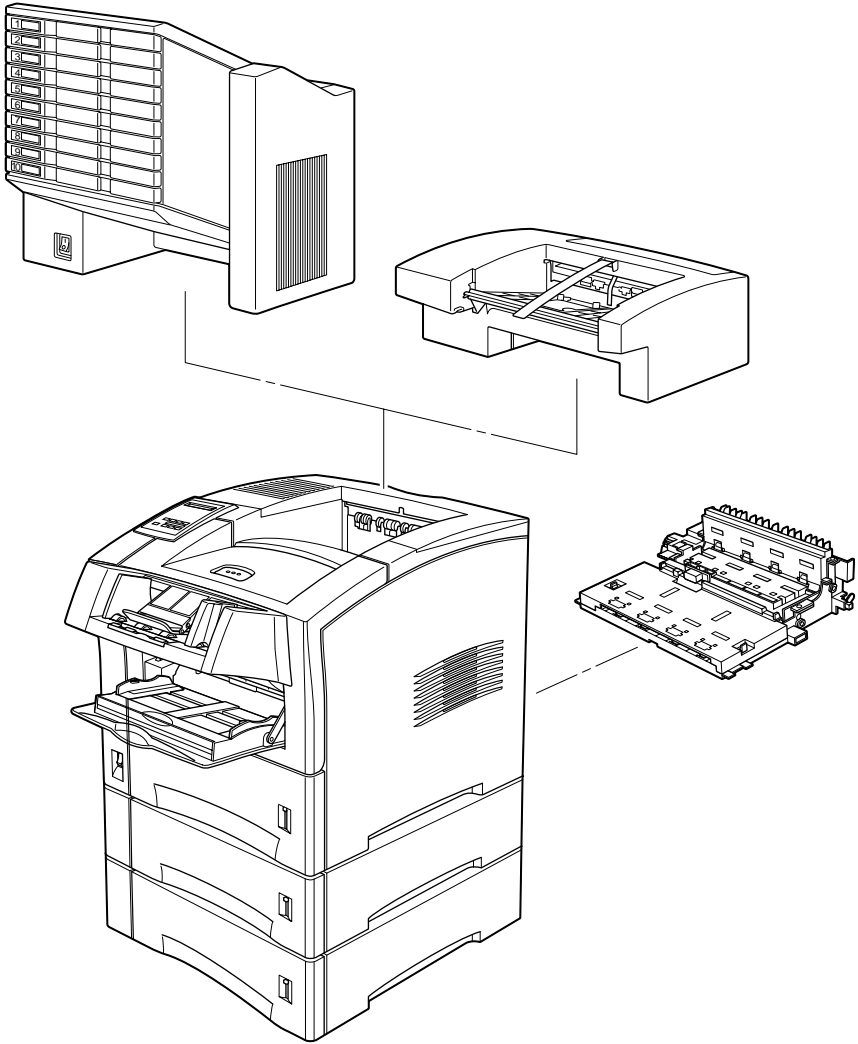
## ***Clearing paper jams***

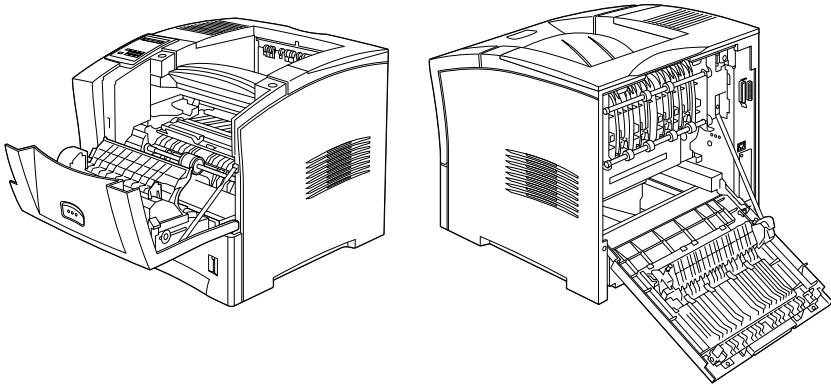
When a paper jam occurs, *Paper Jam xxxx* or *Feed Jam* message appears on the LCD panel. See the messages in this section for instructions on clearing paper jams in each location.

***Note:***

*Check for jams at all paper sources or paths indicated on the LCD panel. The printer cannot resume printing until all the jams are cleared.*

# Troubleshooting Access Points





---

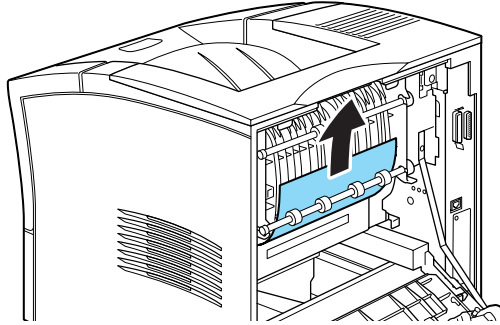
### Exiting Paper Jam

This message indicates that there may be a paper jam in the output area or at the photoconductor unit.

1. Open the rear cover.



2. Remove any paper you find jammed inside the printer.



3. Close the rear cover.

Check this location also when outputting to the optional Multibin Unit or the Shifter.

When the paper jam is cleared completely, the jammed page's print data is automatically reprinted.

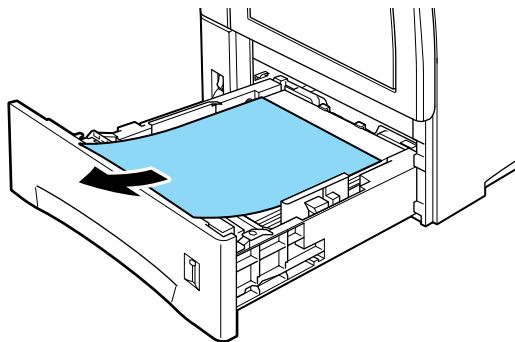
---

### Feed Jam

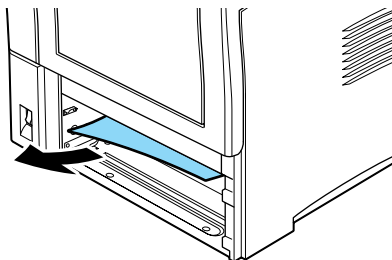
This message indicates that there is paper jammed in the paper feed slots.

1. Pull out the paper cassette.

- Carefully remove any paper you find jammed inside the paper feed slots.



- Remove the stack of paper from the paper cassette. Even its edges by tapping it on a flat surface. Then reinsert it into the cassette making sure that the paper is evenly aligned and the top of the stack is below the maximum paper mark.
- If the control panel still indicates a paper jam, then completely remove the cassette, as shown in the illustration below.



- Carefully remove any sheets that have fed part way into the printer.
- Reinsert the paper cassette back into the printer.
- Open and close the front cover.

8. If necessary, repeat this process with the paper cassettes in the optional Large Capacity Paper Units.



**Caution:**

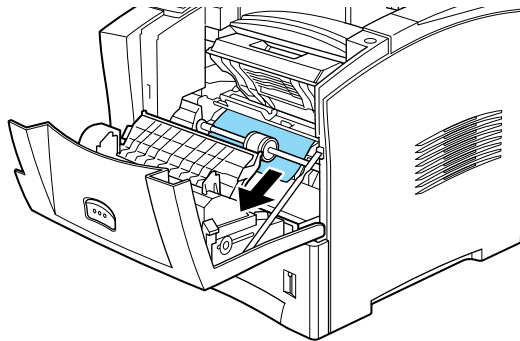
*If you completely removed paper cassettes, be sure to put them back into their original position. Changing the position of the cassettes may cause improper paper feeding.*

---

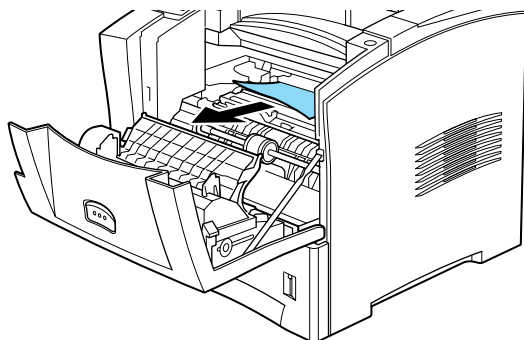
## Paper Jam

This message indicates that there is paper jammed inside the front cover. To clear the paper jam follow the instructions below.

1. Open the front cover.
2. Remove any wrinkled or folded paper you find jammed inside the printer.



3. Remove the Imaging Cartridge and remove any jammed paper. See “Replacing the Imaging Cartridge” on page 3-1 for instructions on removing the Imaging Cartridge.



**Caution:**

*When removing jammed paper, make sure you lift the metal flap and pull the paper out towards the front of the printer.*



**Warning:**

*When opening the printer, do not touch the hot areas marked with caution labels inside the front and rear covers.*

4. Reinsert the Imaging Cartridge.
5. Close the front cover.

When the paper jam is cleared completely, the jammed page's print data is automatically reprinted.

---

#### Paper Jam in Duplex

This message indicates that there is paper jammed inside the Duplex unit.

1. Open the rear cover.

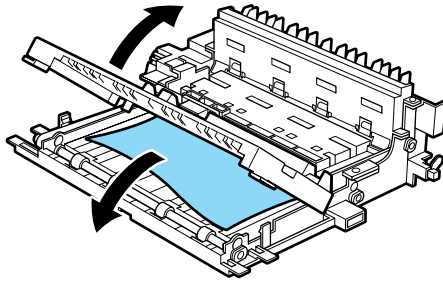
2. Remove any wrinkled or folded paper you find jammed inside the printer.



**Warning:**

*When opening the printer, do not touch the hot areas marked with caution labels inside the front and rear covers.*

3. If necessary, remove the Duplex Unit. For instructions on removing the Duplex Unit, see “Duplex Unit” on page D-6.
4. Remove any paper you find jammed in the Duplex Unit. If necessary open the Duplex Unit as shown in the illustration below.

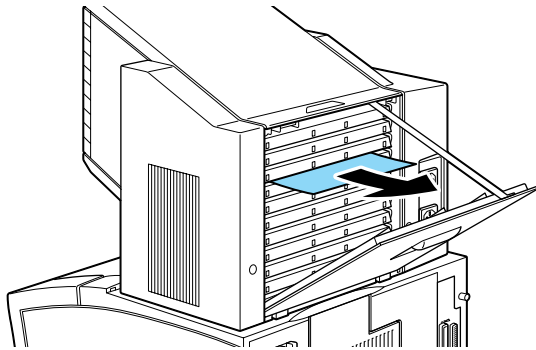


5. Remove any paper you find inside the Duplex Unit.
6. Reinstall the Duplex Unit. For instructions on reinstalling the Duplex Unit, see “Duplex Unit” on page D-6.
7. Close the rear cover.

When the paper jam is cleared completely, the jammed page's print data is automatically reprinted.

This message indicates that there is paper jammed inside the Multibin Unit.

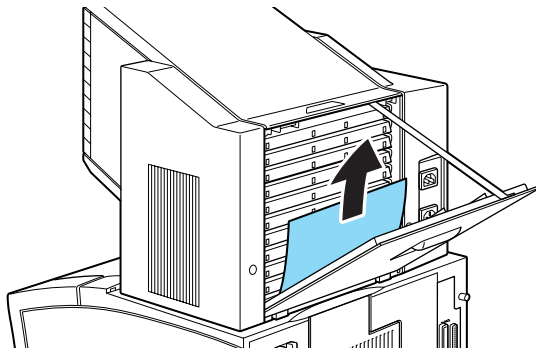
1. Open the rear cover of the Multibin Unit.
2. Remove any paper you find jammed inside the Multibin Unit.
3. Check the mailboxes for any jammed paper and remove it. You may need to open locked mailboxes. If necessary open the Multibin Unit as shown in the illustration below.



**Note:**

*To open locked mailboxes you may need to contact the administrator.*

4. Remove any paper you find jammed in the Multibin Unit.



5. Open and close the rear cover.

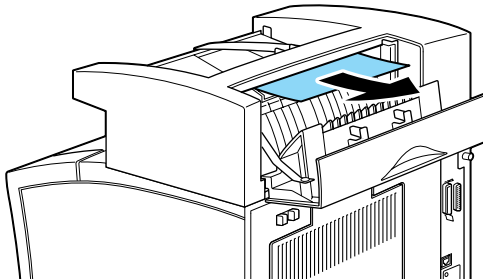
When the paper jam is cleared completely, the jammed page's print data is automatically reprinted.

---

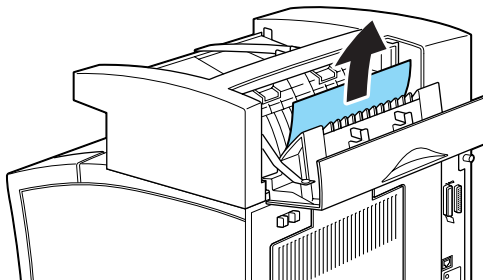
### Paper Jam in Shifter

This message indicates that there is paper jammed inside the Shifter.

1. Open the rear cover of the Shifter.
2. Remove any paper you find jammed inside the Shifter as shown in the illustration below.



3. Remove any paper you find inside the Shifter as shown in the illustration below.



4. Open and close the front cover and the rear cover.

When the paper jam is cleared completely, the jammed page's print data is automatically reprinted.

## ***Solving printer operation problems***

---

### **The LCD panel stays blank when you turn the printer on.**

Turn off the printer and check the power cord connections between the printer and the electrical outlet. Then turn the printer back on.

If the electrical outlet is controlled by an outside source such as a wall switch, make sure the switch is turned on, or plug another electrical device into the outlet to check whether the outlet is operating properly.

---

### **The On Line light is on but nothing prints.**

Your computer may not be properly connected to the printer. Refer to the connecting instructions in the *Setup Guide*.

The interface cable may not be securely plugged in. Check both ends of the cable between the printer and the computer.

Make sure that your interface cable meets the specifications for the printer and your computer.

If you are using the parallel interface, set the Speed setting (in the Parallel menu) to match the value that the computer requires.

Make sure that your printer is selected in your application software.



The Imaging Cartridge may be empty. Replace it following the instructions described in “Replacing the Imaging Cartridge” on page 3-1.

---

**The printer doesn't print and the On Line light is off.**

Press the On Line button once to put the printer online (the On Line light turns on).

---

**The font selected in the application software won't print.**

The selected font is not installed in your printer. Be sure you have installed the correct font. See “Adding and Selecting Fonts” on page C-1 for more information.

---

**Some or all of the output is garbled.**

Make sure that both ends of the interface cable are plugged in securely.

Make sure you use a double-shielded, twisted-pair parallel interface cable no longer than 1.8 meters in length.

The Image Optimum setting may be set to `Auto` or `On`. If it is, certain unexpected fonts may be printed to increase the printing speed. Turn the Image Optimum setting off in the printer driver or `SelecType Config Menu`.

The emulation setting for that port may not be correct. Specify the correct emulation mode on the `SelecType Emulation Menu`.

---

If the printer still does not print correctly, contact your dealer or a qualified service representative.

---

### **The position of the printout is not correct.**

Make sure that you are using the correct page length and margin settings, such as T. Margin or Text, in your application software.

Set the paper guides to fit the paper size you have loaded.

---

### **Graphics don't print correctly.**

Make sure that your application software is set for the printer emulation you are using. For example, if you are using the LJ4 emulation mode, make sure that your software program is set to use a LaserJet 4000 printer.

Graphics require large amounts of memory. See "Memory Modules" on page D-27 for more information.

---

### **SelectType does not function as expected.**

Settings made in the application software or the printer driver override SelectType settings. Use those settings instead of SelectType settings whenever possible.

Your settings may have been changed by your software program. Perform a factory reset (initialize) with the `SelectType Init` function on the SelectType Setup Menu. See "Using SelectType" on page 4-1 for more information.

---

You may not have reset the printer after making settings. Press the ALT and Continue buttons at the same time to reset the printer and enable the new settings.

---

### **The front cover will not close completely**

The Imaging Cartridge is not installed correctly. To properly install the cartridge, see “Replacing the Imaging Cartridge” on page 3-1.

## ***Solving print quality problems***

If you encounter any one of the following problems with your printout, try the solutions listed for each problem.

---

### **Dark or dirty background**

Lighten the Density setting using the printer driver or the SelecType Config Menu.

Clean the paper path inside the printer with a clean, soft, and lint-free cloth. See “Cleaning the Printer” on page 6-1.

Clean internal printer components by printing several pages with only one character per page.

There may be a problem with the Imaging Cartridge. Remove the cartridge, gently shake it from side to side, and then reinstall it. If this does not solve the problem, replace the Imaging Cartridge as described in “Replacing the Imaging Cartridge” on page 3-1.

---

## **Horizontal black or white bands appear in the printout, or the printer prints a blank page**

Install a new Imaging Cartridge as described in “Replacing the Imaging Cartridge” on page 3-1.

---

## **Uneven darkness**

Take out the Imaging Cartridge, shake it from side to side, and reinstall it.

Your paper may be moist or damp. The printer is sensitive to moisture absorbed by the paper. Do not store paper in a humid or damp environment.

Install a new Imaging Cartridge following the instructions described in “Replacing the Imaging Cartridge” on page 3-1. Then print several pages to check the print quality.

---

## **Toner smudges**

Remove the Imaging Cartridge, gently shake it from side to side to distribute the toner, and wipe the bottom of it with a clean, dry cloth.

Clean the paper path inside the printer using a clean, soft, and lint-free cloth.

Clean internal printer components by printing several pages with only one character per page.

If the problem remains, replace the Imaging Cartridge following the instructions described in “Replacing the Imaging Cartridge” on page 3-1.

---

### **Missing areas on printed image**

Your paper may be moist or damp. The printer is sensitive to moisture absorbed by the paper. The higher the moisture content in the paper, the lighter the printed output. Do not store paper in a humid or damp environment.

You may not be using the correct type of paper for your printer. If the surface of your paper is too rough, printed characters appear distorted or broken. Smooth, high-quality copier paper is recommended for best results. See “Available Paper Types” on page 1-1 and “Printer” on page A-1 for information on choosing paper.

---

### **Completely blank pages**

Check the amount of toner in the imaging cartridge by using SelectType Toner option in the Setup Menu. If a message on the LCD panel indicates that the amount of toner is low (E\* F) or toner out (E F), replace the imaging cartridge. See “Replacing the Imaging Cartridge” on page 3-1 for more information.

Check that the Imaging Cartridge is installed properly as described in “Replacing the Imaging Cartridge” on page 3-1.

The problem may be with your application software or interface cable. Print out a status sheet by pressing the Enter button on the control panel twice while the printer is online. If the status sheet is also blank, the problem may be with the printer. Turn off the printer and contact your dealer.

---

## **Printed image is light or faint**

Darken the Density setting using the printer driver or the SelecType Config Menu.

Your paper may be moist or damp. The printer is sensitive to moisture absorbed by the paper. The higher the moisture content in the paper, the lighter the printed output. Do not store your paper in a humid or damp environment.

Take out the Imaging Cartridge, gently shake it from side to side to distribute the toner, and then reinstall it. If the problem persists, replace the Imaging Cartridge following the instructions described in “Replacing the Imaging Cartridge” on page 3-1.

The Toner Save mode may be on. Turn off the Toner Save mode using the printer driver, OneTouch mode 2, or SelecType Config Menu.

---

## **Image is too dark**

The Density setting may be incorrect. Change the Density setting on the printer driver’s Panel menu. You can also change this setting from the printer’s control panel using SelecType. See “Using SelecType” on page 4-1 for details.

If the problem persists, replace the Imaging Cartridge following the instructions described in “Replacing the Imaging Cartridge” on page 3-1.

---

## **Non-printed side of the page is dirty**

Toner may have spilled in the paper feed path. Remove the Imaging Cartridge and then clean the paper path of the printer using a soft, lint-free cloth. See “Cleaning the Printer” on page 6-1 for more information.



**Warning:**

*When opening the printer, do not touch the hot areas marked with the caution labels inside the printer.*

## **Solving printer option problems**

---

### **Paper does not feed from the optional Large Capacity Paper Unit**

Make sure that you have selected the proper paper cassette in your application software.

There may be no paper in the unit. Load it with paper.

Make sure that the Large Capacity Paper Unit is properly installed as described in “Installing” on page D-1.

Make sure you have not loaded the paper cassette with too many sheets of paper. A cassette can hold a maximum of 550 sheets of 80g/m<sup>2</sup> paper.

---

### **Even with additional memory installed, complex pages don't print and the Mem Overflow message still appears.**

The Page Protect setting in the printer driver or SelectType may need to be changed.

You may not have enough memory installed. If you are printing at 1200 dpi, lowering the resolution setting to 600 dpi may solve the problem.

---

## **Status and Error Messages**

This section contains an alphabetical list of status, error, and warning messages that appear in the LCD panel.

---

### **Can't Print Duplex**

The printer cannot work in double-sided printing feature. Make sure you are using an appropriate type and size of paper for the Duplex Unit.

#### *Check Duplex-P Size*

This message appears when the size of the paper you loaded doesn't match the one selected in the printer driver's Basic Settings tab or SelecType. Load the correct size of paper, or change the paper size setting. Then, open the Duplex Unit cover and remove any jammed paper. Close the cover of the Duplex Unit, and press the CONTINUE button. The printer resumes printing.

---

### **Check Paper Size**

The paper size setting in the printer driver, or in SelecType, is different from the size of paper loaded in the printer. Load the correct size of paper in the printer and then press the CONTINUE button to clear the message. Or, try changing the paper setting in SelecType or the paper size setting in the printer driver.



---

## **Check Paper Type**

The paper type setting in the printer driver, or in SelecType, is different from the type of paper loaded in the printer. Load the correct type of paper in the printer; then press the Continue button to clear the message. Or, try changing the tray type setting in SelecType or the paper type setting in the printer driver.

---

## **Collate was disabled**

The printer does not have sufficient memory or space on the Hard Disk Drive to collate print jobs. Only one set of copies will be printed. Reduce the contents of print jobs, add more memory, or install the optional Hard Disk Drive to your printer.

Press the Continue button to clear the message.

---

## **DM Error 201**

An error has occurred with the optional Duplex Unit. Turn off the printer and check if the optional Duplex Unit is installed correctly. Then, turn the printer back on.

If the message still appears, call your dealer or a qualified service representative.

---

## **Duplex Mem Overflow**

There is not enough memory for duplex printing. The printer prints only on the top side and ejects the paper. To correct this error, follow the directions below.

If `Auto Cont` is `Off` in the `SelecType Config` menu, (1) press `Continue` or (2) reset the printer by pressing the `ALT` and `Reset` at the same time.

If `Auto Cont` is `On` in the `SelecType Config` menu, the error is corrected automatically.

---

## **Exiting Paper Jam**

This message indicates that there may be a paper jam inside the rear cover.

---

## **Format Error ROM x**

A format error has occurred with the ROM A or B. Replace the ROM A or B with a new ROM unit, for instructions on replacing the ROM, see “ROM Module” on page D-32.

---

## **Form Feed**

When the printer is offline and data remains in the printer's memory, press the `Form Feed` button to print out the data and clear the buffer. After printing, `Ready` appears on the LCD panel.

---

## Front Cover Open

The front cover is open. Close the cover by pushing it into the printer.



**Warning:**

*Do not touch the hot areas indicated on the caution labels inside the printer.*

If you still cannot close the cover, the imaging cartridge may not be installed correctly. Reinstall the imaging cartridge following the instructions described in “Replacing the Imaging Cartridge” on page 3-1.

---

## Image Optimum

The printer cannot print at the requested quality level because of insufficient memory, and the printer reduces the quality automatically so that it can continue printing. Check to see if the printout is acceptable. If not, add more memory (for a permanent solution) or temporarily set Device Resolution to Low (600 dpi or 300 dpi) and Page Protect to Auto in the driver.

---

## Install Imaging Crtg

The imaging cartridge is not correctly installed. See “Replacing the Imaging Cartridge” on page 3-1 for information on how to reinstall it.

---

## **Install LC**

The paper cassette of the Large Capacity Paper Unit is not installed. Replace the paper cassette correctly and press Continue.

---

## **Invalid Aux I/F Card**

The printer cannot read the installed optional interface card. Turn off the printer, then remove the card. Reinstall a proper card.

---

## **Invalid HDD**

Either the Hard Disk Drive is damaged or it cannot be used with this printer. Turn off the power and remove the Hard Disk Drive.

---

## **Invalid PS3**

A PostScript3 ROM module not supported by this printer is installed, or a supported module is installed incorrectly. See "ROM Module" on page D-32 to make sure you are using the correct PostScript3 module, or to reinstall the module.

---

## **Invalid ROM x**

The ROM module in Slot A or B is not installed correctly or is invalid for this printer. Make sure you are using a proper ROM module or reinstall the module.

---

### **Job Cancel**

The print job sent to your printer is canceled.

---

### **LC Unit Error 101**

An error occurred with the optional Large Capacity Paper Unit.

Turn off the printer, and make sure the Large Capacity Paper Unit is properly installed. Then, turn the printer back on.

If the message still appears, contact your dealer or a qualified service representative.

---

### **Maintenance Req xxxx**

xxxx: Any number is indicated

Some part, such as the fuser or a cassette inside the printer should be replaced. Contact your dealer and inform them of the number (xxxx) that appears.

---

### **Manual Feed xxx yyy**

Manual Feed mode is specified for the current print job. Make sure the paper size indicated by yyy is loaded in xxx paper source, then press On Line.

If you do not want to print this job in manual mode, press Continue. The printer feeds paper according to the paper source setting.

For detailed information on the Manual Feed mode, see “Manually feeding paper” on page 1-11.

---

## **Mem Overflow**

The printer has insufficient memory available for the current task. To correct the error, press Continue. If the message remains, press Alt and Reset buttons at the same time.

You can also clear this error by turning the printer off and back on again. However, it may be necessary to reduce the number or size of fonts, reduce the number or size of graphics, lower the resolution, or add more memory to the printer.

---

## **Menus Locked**

SelectType, which is usually accessible from the printer's control panel, has been disabled. To change this setting, consult your printer's administrator.

---

## **Multibin Error 501**

An error occurred with the optional Multibin Unit. Make sure the Multibin Unit is turned on. Turn off the printer and wait for 5 seconds, then turn it back on. If the message still appears, contact your dealer or a qualified service representative.

---

### **Multibin x Full**

The mailbox (1 to 10) on the optional Multibin Unit is full of documents or it is not closed. Remove the documents from the indicated mailbox or close the box, and press Continue.

---

### **Need Memory**

Your printer lacks the amount of the printer memory required to print the current job. Reduce the images or text on the print job, or install an optional memory module. See “Memory Modules” on page D-27.

---

### **Offline**

The printer is not ready to print. Press the On Line button.

---

### **Outbin Select Error**

The printer cannot feed paper to the output tray you selected, because of a paper size discrepancy or some other problem. The printed sheet is fed to the face-down tray.

---

---

### **Paper Out xxx yyy**

There is no paper in the specified paper source (xxx). Load paper of the indicated size (yyy) into the paper source. See "Loading Paper" on page 1-3 for instructions on loading paper.

---

### **Paper Set xxx yyy**

The paper loaded in the paper source (xxx) does not match the required paper size (yyy). Replace the paper with the correct size of paper and press Continue.

---

### **Print Overrun**

The time required to process data exceeds the print engine speed because the volume of data is too great. Press Continue to resume printing. If this message appears again, change the Page Protect setting in SelecType Config menu.

---

### **PS3 Hard disk not sufficient**

Writing to the Hard Disk Drive is no longer possible as the amount of space available on the Hard Disk Drive for PostScript3 is full.



---

## **RAM Check**

The printer is checking the RAM.

---

## **Ready**

The printer is ready to receive data and print.

---

## **Reserve Job Canceled**

The printer failed to store the data of your print job sent to the printer by using the Reserve Job function. The total number of print jobs stored in the printer's memory exceeds the limit, or the printer has no more memory available to store a new job. To store a new print job, delete pre-existing stored jobs to make sufficient memory available to store the new job. If you have any Confidential Jobs stored in the printer's memory, printing those Confidential Jobs makes some memory available.

---

## **Reset**

The printer's current interface has been reset and the buffer is cleared. However, other interfaces are still active and retain their settings and data.

---

## **Reset All**

All printer settings have been reset to the user default configuration, or to the last settings that were saved.

---

## **Reset to Save**

You have changed the SelecType setting but the new setting is not activated immediately after exiting SelecType. To activate the new setting, do one of the following: (1) exit SelecType by pressing Continue or On Line (the new setting is activated after the current print job is finished), or (2) reset the printer by pressing ALT and Reset at the same time.

---

## **ROM Check**

The printer is checking the ROM.

---

## **Self Test**

The printer is performing a quick internal check.

---

## **Service Req xyyy**

A controller error or a print engine error has been detected. Write down the error number listed on the LCD panel (xyyy) and turn off the printer. Wait at least five seconds and then turn it back on. If the error message still appears, turn off the printer, unplug the power cord, and contact a qualified service representative.

---

### **Shifter Full**

The optional Shifter Unit is full. Remove the print job from the Shifter and press Continue.

---

### **Shifter Error 701**

The Shifter unit is malfunctioning. Check it for paper jams or other obvious problems. After visually checking the Shifter unit, remove it and re-install it correctly. See “Shifter” on page D-19 for information on removing and installing the Shifter. If the message remains, contact your dealer or a qualified service representative.

---

### **Standby**

The printer is in its low power state; however, it is still online if the On Line light is on.

---

### **Toner Low**

The printer is almost out of toner. Prepare a new Imaging Cartridge to replace the current one.

---

---

## **Toner Out**

You must replace the imaging cartridge. See “Replacing the Imaging Cartridge” on page 3-1 for information on how to replace it. This message is not displayed when Toner OUT is set to Continue in the SelectType.

Press Continue to print one more page.

---

## **Warming Up**

The printer is warming up. When the printer is ready, this message will change to Ready.

---

## **Write Error ROM x**

A write error has occurred with the ROMx (A or P). Replace the ROMx (A or P) with a new ROM unit, for instructions on replacing the ROM, see “ROM Module” on page D-32.

---

## **Writing ROM x**

This message appears when the printer is accessing data stored in the ROM A or P. You can continue printing when accessing is complete, which normally requires about three minutes.

---

## Hex Dump Mode

Hex Dump Mode (also called data dump) is a special feature that makes it easy for experienced users to find the cause of communication problems between the printer and the computer. In the Hex Dump Mode, the printer produces an exact printout of the codes it receives.

**Note:**

*If the EPSON Status Monitor 3 is installed into your computer, it is necessary to clear Monitor the printing status check box in the Utility menu of the printer properties, or uninstall the Status Monitor 3 utility software before entering the Hex Dump Mode.*

Follow these steps to print in the Hex Dump mode:

1. Make sure the paper is loaded and the printer is off.
2. Hold down the Form Feed button while you turn on the printer. Make sure you hold the button down until you see the message `Hex Dump` on the LCD panel.
3. Run any program that causes the printer to print. Your printer prints out all the codes it receives in hexadecimal format.

To turn off the Hex Dump Mode, turn off the printer or reset it by pressing and holding the ALT and Continue buttons at the same time. When `Reset All` appears on the LCD panel, release the buttons.

---

## Resetting the Printer

There are two ways to reset (return to a fixed set of conditions) the printer.

## Reset

Reset the settings for the current emulation mode and interface by holding down ALT and Reset until `Reset` appears on the LCD panel. You can reset the printer anytime as long as no data is being sent on the interface. However, be careful not to hold down ALT and Reset for more than five seconds, as this will cause the printer to perform `Reset All`.

## Reset All

Reset the settings for all emulation modes and interfaces by holding down ALT and Reset until `Reset All` appears on the LCD panel. You can also reset all emulation modes and interfaces by turning the printer off and back on.

### **Note:**

- ❑ *Reset All clears all print jobs received from all interfaces with the exception of those stored in the printer's memory by using Reserve Job function. Be careful not to disrupt other user's print jobs.*
- ❑ *Print jobs stored in the printer memory, when using any of four features of Reserve Job functions (Re-print, Verify, Stored, and Confidential), remain even if you perform Reset. However, only those jobs stored by using the Stored Job feature remain if you perform Reset All.*
- ❑ *When you initialize the SelectType settings, select `SelectType Init` in the SelectType Setup menu.*
- ❑ *To initialize the network password and network settings refer to the administrator's guide.*

## Cleaning the Printer

The printer needs only minimal cleaning. If you notice a decline in print quality, clean the inside of the printer and the feeder inside the top and rear covers as described in this section. Be sure to use a clean dry cloth when cleaning the MP Tray feeder roller.

Follow the steps below to clean the inside of the printer and the paper feeder.

### Cleaning inside the printer

Follow these steps to clean the inside of the printer:

1. Make sure the printer is turned off.
2. Open the front cover.



**Warning:**

*Opening the printer cover exposes the fuser and paper path parts marked with caution labels. Don't touch the fuser as it may be hot if the printer has been in use. Wait until the printer cools down before you clean the inside.*

3. Remove the imaging cartridge from the printer.
4. Carefully remove any dirt inside with a soft cloth.
5. Reinstall the imaging cartridge.
6. Close the front cover.

7. Open the rear cover
8. Remove the optional Duplex Unit if it is installed.
9. Carefully remove any dirt inside with a soft cloth.
10. Reinstall the Duplex Unit
11. Close the rear cover.

**Note:**

*If a large amount of toner is spilled, call a qualified service representative.*

## **Cleaning the printer case**

If the printer's outer case is dirty or dusty, turn off the printer and clean it with a soft, clean cloth dampened with a mild detergent.



**Caution:**

*Never use alcohol or thinner to clean the printer cover; these chemicals can damage the imaging cartridge, its components and the printer case. Be careful not to get water on the printer mechanism or any electronic components.*

---

## **Transporting the Printer**

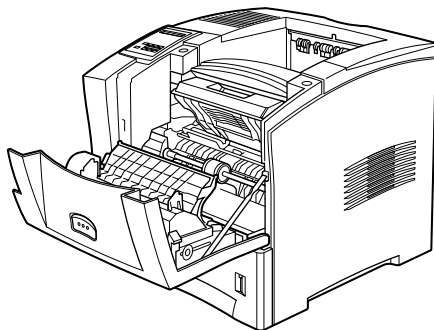
If you need to transport your printer, carefully repack it using the original box and packing materials.

Follow these steps to repack the printer:

1. Turn off the printer.
2. Unplug the power cord from the electrical outlet.



3. Open the front cover.



4. Remove the imaging cartridge. For instructions on how to remove the imaging cartridge, see “Replacing the Imaging Cartridge” on page 3-1.



**Caution:**

- Whenever you ship or transport the printer, remove the imaging cartridge and place it in a plastic bag. Seal the bag to prevent the fine toner particles from spilling over the printer or your clothing.
  - Do not expose the imaging cartridge to light any longer than necessary.
5. Remove all installed options. See Appendix D, “Installing and Removing Options.”
  6. Attach the protective materials to the printer; then repack the printer in its original box.

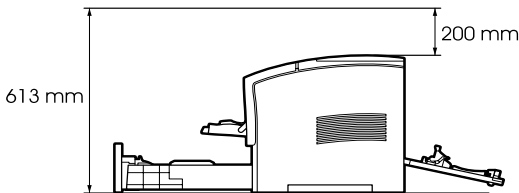
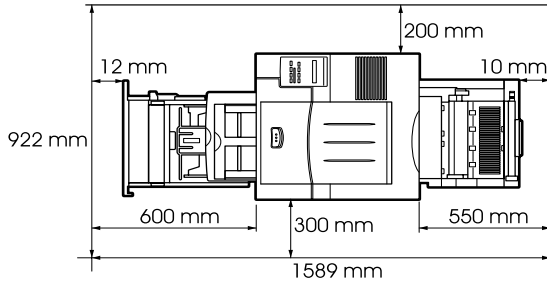


**Caution:**

*The printer weighs about 26 kg (57.4 lb). Always carry it with two or more people.*

## Finding a new place for the printer

When relocating the printer, allow adequate space around the printer for easy operation and maintenance as shown in the illustrations below.



To install any of the following options, you will need the indicated amount of additional space.

**Large Capacity Paper Unit** adds 140 mm (5.5 in.) per unit to the printer's height.

**Multibin Unit** adds 360 mm (14.2 in.) to the printer's height.

**Shifter** adds 220 mm (8.7 in.) to the printer's height.



**Caution:**

- ❑ *Place the printer where you can easily unplug the power cord.*
- ❑ *Leave adequate room around the printer to allow for sufficient ventilation.*
- ❑ *Avoid locations that are subject to direct sunlight, excessive heat, moisture, or dust.*
- ❑ *Keep the entire computer and printer system away from potential sources of interference, such as loudspeakers or the base units of cordless telephones.*
- ❑ *Avoid using an electrical outlet that is controlled by wall switches or automatic timers. Accidental disruption of power may erase valuable information stored in your computer's memory and in the printer memory.*
- ❑ *Avoid using outlets that other appliances are plugged into.*
- ❑ *Use a grounded outlet that matches the printer's power plug. Do not use an adapter plug.*
- ❑ *Only use an outlet that meets the power requirements for this printer.*



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# Technical Specifications

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## Printer

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### General

Printing method	Laser beam scanning and dry electrophotographic process
Resolution	1200 × 1200 dpi
Printing speed	Up to 20 pages per minute with A4 or 21 pages per minute with Letter depending on the font and quantity of data
First print	13.3 seconds maximum with A4 (from the lower cassette 1)
Warm-up time	65 seconds maximum at rated voltage
Paper feed	Automatic or manual feed
Paper feed alignment	Center alignment for all sizes
Input paper supply (80g/m <sup>2</sup> paper)	Up to 100 sheets in the MP tray Up to 550 sheets in the Lower Cassettes
Paper output	Face down
Paper output capacity (80g/m <sup>2</sup> paper)	500 sheets
Internal emulation	HP LaserJet4000 PCL5e emulation (LJ4 mode) HP LaserJet 4000 PCL6 emulation HP-GL/2 emulation (GL2 mode) ESC/P 24-pin printer emulation (ESC/P 2 mode) ESC/P 9-pin printer emulation (FX mode) IBM Proprinter emulation (I239X mode)
Optional language	Adobe PostScript 3
Resident fonts	80 scalable fonts, and one bitmap font (in LJ4 and PCL6 mode)
RAM	16 MB, expandable up to 256 MB

## Environmental

Temperature	Operation: 5 to 35°C (41 to 95°F) Storage: 0 to 35°C (32 to 95°F)
Humidity	Operation: 15 to 85% RH Storage: 15 to 80% RH
Altitude	3100 meters (10000 feet) maximum

## Mechanical

### Dimensions and weight

Height	413 mm (16.3 in.)
Width	422 mm (16.6 in.)
Depth	439 mm (17.3 in.)
Weight	Approx. 28 kg (16.1 lb) including the Imaging Cartridge
Durability	5 years or 600000 sheets, whichever comes first

## Electrical

	120 V model	230 V model
Voltage	108 V to 132 V	198 V to 264 V
Rated frequency	50 Hz 60 Hz	
Rated current	7 A	4 A
Power consumption	Less than 800 W	
Power consumption * in Standby mode	Less than 20 W	

\* With no option installed

### **Note:**

*Check the label on the right side of the printer for the voltage of your printer.*

---

## Standards and Approvals

U.S.model:

Safety	UL 1950 CSA C22.2 No. 950
EMC	FCC Part 15 Subpart B Class B CSA C108.8 Class B

European model:

Low Voltage Directive 73/23/EEC	EN 60950
EMC Directive 89/336/EEC	EN 55022 Class B EN 61000-3-2 EN 61000-3-3 EN50082-1 IEC60801-2 IEC60801-3 IEC60801-4

Australian model:

EMC	AS/NZS 3548 Class B
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## Paper Specifications

**Note:**

*Since the quality of any particular brand or type of paper may be changed by the manufacturer at any time, EPSON cannot guarantee the quality of any type of paper. Always test samples of paper stock before purchasing large quantities or printing large jobs.*

paper types	Plain paper, recycled paper, labels, envelopes, transparencies, colored paper, card stock, letter head, preprinted paper
-------------	--

**Note:**

Use recycled paper under normal temperature and humidity conditions only. Poor quality paper may reduce print quality, cause paper jams and other problems.

**Paper weight:**

Simplex 60 to 216 g/m<sup>2</sup>, 16 to 58 lb

Duplex 60 to 105 g/m<sup>2</sup>, 24 to 28 lb

**Paper size:**

Paper  
A4 (210 mm × 297 mm)  
A5 (148 mm × 210 mm)  
B5 (182 mm × 257 mm)  
Letter (8.5 × 11 in.)  
Half-Letter (5.5 × 8.5 in.)  
Legal (8.5 × 14 in.)  
Government Letter (8.5 × 10.5 in.)  
Government Legal (8.5 × 13 in.)  
Executive (7.25 × 10.5 in.)  
F4 (210 mm × 330 mm)  
Custom (76.2 × 127 mm to 215.9 × 355.6 mm)

Envelopes  
Monarch (3 7/8 × 7 1/2 in.)  
Commercial 10 (4 1/8 × 9 1/2 in.)  
DL (110 mm × 220 mm)  
C6 (114 mm × 162 mm)  
C5 (162 mm × 229 mm)  
International B5 (176mm × 250mm)





**Caution:**

- ❑ Only load the paper sizes listed above.
- ❑ Available paper types and sizes depend on the paper source being used. See “Available Paper Types” on page 1-1 for more information.

Printable area                      4 mm minimum margin on all sides.  
(3.4 mm minimum left and right margin  
when you print with wide A4 setting.)

**Note:**

*Printable area varies according to the emulation mode.*

## **Paper that should not be used**

You cannot use the following paper in this printer. The following paper may cause printer damage, paper jams, or poor print quality.

- ❑ Special media for ink jet printers
- ❑ Paper that has been printed on by any other laser printer, black-and-white laser printers, color copiers, or black-and-white copiers
- ❑ Paper that has been printed on by an ink jet printer or thermal transfer printer
- ❑ Carbon paper, no carbon paper, thermal-sensitive paper, pressure-sensitive paper, or acid paper
- ❑ Overly thick or thin paper
- ❑ Moist or damp paper
- ❑ Labels that easily peel off
- ❑ Glued or stapled paper, paper with paper clips

- ❑ Coated paper or special-surface colored paper
- ❑ Paper too smooth or too slick, paper too coarse, or paper that is different on the front and back
- ❑ Paper that has binder holes or is perforated
- ❑ Paper that is folded, curled, wavy, or torn
- ❑ Paper that is an irregular shape, or paper that does not have right angle corners

### ***Previously printed paper***

Do not use paper that has been printed on previously, as it may cause poor print quality, paper jams, or damage the printer.

---

## ***Interface***

### ***Parallel interface***

Use only IEEE 1284-B compliant parallel connector.

## Serial interface

Interface type	RS-232C
Transmission System	Asynchronous communication
Baud Rate	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 76800, 115200
Parity	none, even, odd
Start bit	1
Stop bit	1, 2
Data length	7, 8
Hardware protocol	DTR, DSR
Software protocol	Xon / Xoff ( Robust is supported)
Connector	17LE-13250-27 (D57) DDK equivalent

## Ethernet interface

You can use an IEEE 802.3 10BASE-T/100BASE-TX straight-through shield twisted pair modular cable via RJ45 connector.

---

## Options and Consumables

**Note:**

*The last digit of the product number, represented by an asterisk (\*), varies by country.*

## Large Capacity Paper Unit

Product code	C81329*
Paper size	
lower cassette	A4, A5, B5, Legal, Government Legal, Letter, Executive, Custom
Paper weight	60 to 216 g/m <sup>2</sup> (16 to 58 lb)
Paper feed	Automatic feed delivery system
Cassette capacity	
lower cassette	Up to 550 sheets (80 g/m <sup>2</sup> or 20 lb paper)
Feeding speed	14.5 seconds or less for the first A4 size sheet; (cassette 2) 15.7 seconds for the first A4 size sheet; (cassette 3) 20 pages per minute for subsequent A4 size sheets
Paper type	Plain paper, such as copier paper, and recycled paper Transparencies Labels Envelopes
Power supply	5 Vdc and 24 V supplied by the printer
Dimensions and weight	
Height	175 mm (6.89 in.)
Width	422 mm (16.61 in.)
Depth	433 mm (17.05 in.)
Weight	10.3 kg (22.5 lb)

## Duplex Unit

Product code	C81330*
Paper size	Letter, A4, Legal, Government Letter, Government Legal, B5, F4, Executive, Custom (min 182.0 mm × 257.0 mm, max 215.9 mm × 255.6 mm)
Paper weight	60 to 105 g/m <sup>2</sup> (16 to 28 lb)
Feeding speed	20.8 seconds or less for the first A4 size sheet; 3.5 pages per minute for subsequent A4 size sheets (from lower cassette 1 to face-down tray)
Power supply	5 Vdc and 24V supplied by the printer
Dimensions and weight	
Height	98 mm (3.9 in.)
Width	315 mm (12.4 in.)
Depth	250 mm (9.8 in.)
Weight	1.2 kg (2.6 lb)

## **Envelope Feeder**

Product code	C81332*
Paper size	Monarch, Commercial 10, DL, C5, Custom (min 98.4 mm × 148.5 mm, max 178.0 mm × 254.0 mm)
Capacity	Up to 75 envelopes or 24 mm height
Power supply	5 Vdc and 24 V supplied by the printer
Dimensions and weight	
Height	116 mm (4.6 in.)
Width	289 mm (11.4 in.)
Depth	290 mm (11.4 in.)
Weight	1.8 kg (4.0 lb)

## **Multibin Unit**

Product code	C81333*
Paper size	A4, Letter
Paper type	Plain paper, Transparencies, Labels
Paper weight	60 to 105 g/m <sup>2</sup> (16 to 28 lb)
Power supply	AC 90-140V, 198-264V 50/60Hz
Power Consumption	115V: less than 74W 230V: less than 69W
Dimensions and weight	
Height	364 mm (14.3 in.)
Width	403 mm (15.9 in.)
Depth	360 mm (14.2 in.)
Weight	Unit 9.2 kg (20.3 lb)

## **Shifter**

Product code	C81334*
Paper size	A4, Letter, Legal, Government Legal, B5, A5, Executive, Half Letter, Monarch, COM10, C5, DL, Custom (min 98.4 mm × 215.9 mm, max 148.5 mm × 355.6 mm)
Dimensions and weight	
Height	142 mm (5.6 in.)
Width	422 mm (16.6 in.)
Depth	293 mm (11.5 in.)
Weight	2.5 kg (5.5 lb)

## **Imaging Cartridge**

Product code	S051070
Storage temperature	0° to 35°C (32° to 95°F)
Storage humidity	15 to 80% RH
Shelf life	24 months after production
Life	Up to 15000 pages under the following conditions: Letter or A4 size paper, continuous printing, and 5% print ratio.

The number of pages you can print with an imaging cartridge varies depending on the type of printing. If you print a few pages at a time or print dense text exceeding the 5% print ratio, your cartridge may print fewer pages.





# Symbol Sets

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## Introduction to Symbol Sets

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Your printer can access a variety of symbol sets. Many of these symbol sets differ only in the international characters specific to each language.

**Note:**

*Since most software handle fonts and symbols automatically, you would probably never need to adjust the printer's settings. However, if you are writing your own printer control programs, or if you are using older software that cannot control fonts, refer to the following sections for symbol set details.*

When you are considering which font to use, you should also consider which symbol set to combine with the font. Available symbol sets vary depending on which emulation mode you use and which font you choose.

---

## In LJ4 Emulation/EPSON GL2 Mode

The following symbol sets are available in LJ4 emulation mode.

Symbol set name: **76 typefaces + Line Printer are available for the following symbol sets:**

IBM-US (10U),  
Roman-8 (8U)\* (includes another 19 sets),  
Roman-9 (4U), ECM94-1 (0N),  
8859-2 ISO (2N), 8859-9 ISO (5N),  
8859-10 ISO (6N), 8859-15 ISO (9N),  
IBM-DN (11U), PcMultilingual (12U),  
PcEur858 (13U), Legal (1U)

**76 typefaces are available for the following symbol sets:**

PcBlt775 (26U), PcE.Europe (17U), PcTk437 (9T), Pc1004 (9J),  
WiAnsi (19U), WiE.Europe (9E),  
WiTurkish (5T), WiBALT (19L),  
DeskTop (7J), PsText (10J),  
VeInternational (13J), VeUS (14J),  
MsPublishing (6J), Math-8(8M),  
PsMath(5M), VeMath(6M),  
PiFont (15U), Windows (9U),  
McText (12J)

**Line Printer is available for:**

Roman Extension (0E)

**Symbol Set SWA and Symbol Set SWM are available for:**

Symbol (19M)

**More WingBats SWM is available for:**

Wingdings (579L)

**OCR A is available for:**

OCR A (0O)

**OCR B is available for:**

OCR B (1O), OCR B Extension (3Q)

**Code 39 (2 types) is available for:**

Code 39 (0Y)

**EAN/UPC (2 types) is available for:**

EAN/UPC (8Y)

\* The other 19 sets are the following: ANSI ASCII, Norweg1, French, HP German, Italian, JIS ASCII, Swedis 2, Norweg 2, UK, French 2, German, HP Spanish, Chinese, Spanish, IRV, Swedish, Portuguese, IBM Portuguese, and IBM Spanish. These are partial variations of the Roman-8 set.

The 76 typefaces refer to those listed below:

Courier SWC  
Dutch 801 SWC  
Zapf Humanist 601 SWC  
Ribbon 131 SWC  
Clarendon Condensed SWC  
Swiss 742 SWC  
Swiss 742 Condensed SWC  
Incised 901 SWC  
Original Garamond SWC  
Audrey Two SWC  
Flareserif 821 SWC  
Swiss 721 SWM  
Dutch 801 SWM  
Swiss 721 SWA

Swiss 721 Narrow SWA  
Zapf Calligraphic 801 SWA  
ITC Avant Garde SWA  
ITC Bookman SWA  
Century Schoolbook SWA  
Dutch 801 SWA  
ITC Zapf Chancery SWA Italic  
Letter Gothic SWC  
Courier SWA

## ***International character sets for ISO***

The following are the available international character sets for ISO.

Character sets:           ANSI ASCII (0U),  
                              Norweg 1 (0D), French (0F),  
                              HP German (0G), Italian (0I),  
                              JIS ASCII (0K), Swedis 2 (0S),  
                              Norweg 2 (1D), UK (1E),  
                              French 2 (1F), German (1G),  
                              HP Spanish (1S), Chinese (2K),  
                              Spanish (2S), IRV (2U),  
                              Swedish (3S), Portuguese (4S),  
                              IBM Portuguese (5S),  
                              IBM Spanish (6S)

## In ESC/P2 or FX Modes

	Pc 437 (U.S./Standard Europe)	Pc 850(Multilingual), Pc 860(Portuguese), Pc 863(Canadian-French), Pc 865(Nordic), Roman-8, 8859-15 ISO	Pc 857(Turkish), Pc 861(Icelandic), Pc 852(East Europe), BpBRASCI, I, Abicomp, ISOLatin1	Pc858	OCR A
<b>Courier SWC</b>	available	available	available	available	not available
<b>EPSON Prestige</b>	available	available	not available	available	not available
<b>EPSON Roman</b>	available	available	not available	available	not available
<b>EPSON Sans serif</b>	available	available	not available	available	not available
<b>Swiss 721 SWM*</b>	available	available	available	available	not available
<b>Letter Gothic SWC</b>	available	available	available	available	not available
<b>Dutch 801 SWM*</b>	available	available	available	available	not available
<b>EPSON Script</b>	available	available	not available	available	not available
<b>OCR A</b>	not available	not available	not available	not available	available
<b>OCR B</b>	available	not available	not available	available	not available

\* Available only in ESC/P2 mode.

### Note:

- Swiss 721 SWM is a type face compatible with RomanT.*
- Letter Gothic SWC is a type face compatible with OratorS.*
- Dutch 801 SWM is a type face compatible with SansH.*

## International character sets

You can select one of the following international character sets using the Remote Control Panel utility or the ESC R command:

Character sets:           USA, France, Germany, UK,  
                              Japan, Denmark1, Denmark2,  
                              Sweden, Italy, Spain1, Spain2,  
                              Norway, Latin America,  
                              Korea\*, Legal\*

\* Available for ESC/P 2 emulation only

## Characters available with the ESC (^ command

To print the characters in the table below, use the ESC (^ command.

CODE	0	1	7
0		▶	
1	☺	◀	
2	☹	↕	
3	♥	!!	
4	♦	¶	
5	♣	§	
6	♠	—	
7	•	±	
8	■	↑	
9	○	↓	
A	◉	→	
B	♂	←	
C	♀	↵	
D	♪	↔	
E	♫	▲	
F	♬	▼	△

---

## ***In I239X Emulation Mode***

The available symbol sets in the I239X mode are Pc437, Pc850, Pc858, Pc860, Pc863 and Pc865. See “In ESC/P2 or FX Modes” on page B-5.

The available fonts are EPSON Sans Serif, Courier SWC, EPSON Prestige, EPSON Gothic, EPSON Presentor, EPSON Orator, and EPSON Script.





# Working with Fonts

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## Adding and Selecting Fonts

---

To select a font, use your application program.

Font problems are uncommon but the following may occur.

- ❑ The printer substitutes a font other than the one you selected in your application program.
- ❑ The printed page does not exactly match what is displayed on the computer's monitor.

These kinds of problems usually occur if you use an emulation other than LJ4 or when you are trying to print fonts that are not installed in the printer. If you have font problems, read "Printer and Screen Fonts" to find out how to fix them.

## Adding more fonts

Fonts that reside on your computer's hard disk can be downloaded, or transferred, to the printer so they can be printed. Downloaded fonts, also called soft fonts, remain in printer memory until you turn off the printer or otherwise reinitialize it. If you plan on downloading many fonts, make sure your printer has sufficient memory.

## **Downloading fonts**

Most font packages make it easy to install fonts by providing their own installer. The installer gives you the option of having the fonts automatically downloaded whenever you start your computer or having fonts downloaded only when you need to print a particular font.

If you're running Windows, you can also install fonts from within the Fonts window. (To access this window, open the control panel and click the Fonts icon.) Once installed, the fonts are available in all your Windows applications.

## **Selecting fonts**

Select fonts from the font list in your application whenever possible. See your software documentation for instructions.

If you are sending unformatted text to the printer directly from DOS or if you are using a simple software package that does not include font selection, you can select fonts by using LJ4, ESC/P 2, FX, or I239X menus in the SelecType.

---

## **Printer and Screen Fonts**

Fonts are installed on both the printer and the computer. The printer fonts, which reside in printer memory, are used by the printer to print text. Screen fonts, which are stored in your computer, are used to display text on screen to represent the fonts that will be printed.

Two separate sets of fonts are needed because the monitor and the printer have different requirements for producing fonts. The monitor normally uses bitmap fonts that are specially designed for the screen's resolution. A bitmap is a dot-by-dot representation of an image or character. The printer, however, uses an outline font that is created from a mathematical formula that describes the outline of each character. Using outline fonts allows the printer to render any character in the requested size.



**Note:**

*The distinction between printer and screen fonts is not as important when you are using TrueType<sup>®</sup> fonts, which are included with Windows. TrueType is an outline font format that can be used by both the printer and the screen.*

---

## **Available Fonts**

The following table lists the fonts that are installed on your printer. The names of all the fonts appear in your software's font list if you are using the driver provided with the printer. If you are using a different driver, all of these fonts may not be available.

The fonts provided with the printer are shown below, according to the emulation mode.

## LJ4/GL2 mode

Font name	Family	HP equivalent
Courier SWC	Medium, Bold, Italic, Bold Italic	Courier
Dutch 801 SWC	Medium, Bold, Italic, Bold Italic	CG Times
Zapf Humanist 601 SWC	Medium, Bold, Italic, Bold Italic	CG Omega
Ribbon 131 SWC	-	Coronet
Clarendon Condensed SWC	-	Clarendon Condensed
Swiss 742 SWC	Medium, Bold, Italic, Bold Italic	Univers
Swiss 742 Condensed SWC	Medium, Bold, Italic, Bold Italic	Univers Condensed
Incised 901 SWC	Medium, Bold, Italic	Antique Olive
Original Garamond SWC	Medium, Bold, Italic, Bold Italic	Garamond
Audrey Two SWC	-	Marigold
Flareserif 821 SWC	Medium, Extra Bold	Albertus
Swiss 721 SWM	Medium, Bold, Italic, Bold Italic	Arial
Dutch 801 SWM	Medium, Bold, Italic, Bold Italic	Times New
Swiss 721 SWA	Medium, Bold, Italic, Bold Italic	Helvetica
Swiss 721 Narrow SWA	Medium, Bold, Italic, Bold Italic	Helvetica Narrow
Zapf Calligraphic 801 SWA	Medium, Bold, Italic, Bold Italic	Palatino Roman

<b>Font name</b>	<b>Family</b>	<b>HP equivalent</b>
ITC Avant Garde SWA	Medium, Bold, Italic, Bold Italic	ITC Avant Garde Gothic
ITC Bookman SWA	Medium, Bold, Italic, Bold Italic	ITC Bookman
Century Schoolbook SWA	Medium, Bold, Italic, Bold Italic	New Century Schoolbook
Dutch 801 SWA	Medium, Bold, Italic, Bold Italic	Times
ITC Zapf Chancery SWA Italic	-	ITC Zapf Chancery Medium Italic
Symbol Set SWM	-	Symbol
Symbol Set SWA	-	SymbolPS
More WingBats SWM	-	Wingdings
ITC Zapf Dingbats SWA	-	ITC Zapf Dingbats
Letter Gothic SWC	Medium, Bold, Italic	Letter Gothic
Courier SWA	Medium, Bold, Italic, Bold Italic	CourierPS
Line Printer	-	Line Printer
OCR A	-	-
OCR B	-	-
Code39	9.37 pitch, 4.68 pitch	-
EAN/UPC	Bold, Medium	-

When selecting fonts in your software program, choose the font name listed in the HP equivalent column.

**Note:**

*Depending on the print density, or on the quality or color of the paper, OCR A, OCR B, Code 39, FAN/UPC fonts may not be readable. Print a sample and make sure the fonts can be read before printing large quantities.*

**ESC/P 2 and FX modes**

Font name	Family
Courier SWC	Medium, Bold
EPSON Prestige	-
EPSON Roman	-
EPSON Sans serif	-
Swiss 721 SWM*	Medium, Bold
Letter Gothic SWC	Medium, Bold
Dutch 801 SWM*	Medium, Bold
EPSON Script	-
OCR A	-
OCR B	-

\* Available only in ESC/P2 mode.

**Note:**

*Depending on the print density, or on the quality or color of the paper, OCR A and OCR B fonts may not be readable. Print a sample and make sure the fonts can be read before printing large quantities.*

## I239X mode

Font name	Family
Courier SWC	Medium, Bold
EPSON Prestige	-
EPSON Gothic	-
EPSON Orator	-
EPSON Script	-
EPSON Presentor	-
EPSON Sans serif	-
OCR B	-

**Note:**

*Depending on the print density, or on the quality or color of the paper, OCR B font may not be readable. Print a sample and make sure the font can be read before printing large quantities.*

You can print font samples for viewing by using the SelecType Test menu. Follow these steps to print font samples:

1. Make sure that paper is loaded.
2. Press MENU while the printer is online.
3. Press Item until the font sample you want appears.
4. Press Enter. A Font Sample sheet is printed.

---

## EPSON BarCode Fonts

EPSON BarCode Fonts let you easily create and print many types of barcodes.

Normally, barcode creation is a laborious process requiring you to specify various command codes, such as Start bar, Stop bar and OCR-B, in addition to the barcode characters themselves. However, EPSON BarCode Fonts are designed to add such codes automatically, allowing you to easily print barcodes that conform to a variety of barcode standards.

EPSON BarCode Fonts support the following types of barcodes:

<b>Barcode standard</b>	<b>EPSON BarCode</b>	<b>OCR-B</b>	<b>Check digit</b>	<b>Comments</b>
EAN	EPSON EAN-8	Yes	Yes	Creates EAN (abbreviated version) barcodes
	EPSON EAN-13	Yes	Yes	Creates EAN (standard version) barcodes
UPC-A	EPSON UPC-A	Yes	Yes	Creates UPC-A barcodes
UPC-E	EPSON UPC-E	Yes	Yes	Creates UPC-E barcodes
Code39	EPSON Code39	No	No	Printing of OCR-B and check digits can be specified with the font name
	EPSON Code39 CD	No	Yes	
	EPSON Code39 CD Num	Yes	Yes	
	EPSON Code39 Num	Yes	No	
Code128	EPSON Code128	No	Yes	Creates Code128 barcodes



Barcode standard	EPSON BarCode	OCR-B	Check digit	Comments
Interleaved 2 of 5 (ITF)	EPSON ITF	No	No	Printing of OCR-B and check digits can be specified with the font name
	EPSON ITF CD	No	Yes	
	EPSON ITF CD Num	Yes	Yes	
	EPSON ITF Num	Yes	No	
Codabar	EPSON Codabar	No	No	Printing of OCR-B and check digits can be specified with the font name
	EPSON Codabar CD	No	Yes	
	EPSON Codabar CD Num	Yes	Yes	
	EPSON Codabar Num	Yes	No	

## System requirements

To use EPSON BarCode Fonts, your computer system should meet the following requirements:

Printer: EPSON AL-C8500/AL-C2000/EPL-C8200/EPL-C8000/EPL-5800/EPL-5700/EPL-5700i/EPL-5700L/EPL-N1600/EPL-N4000  
EPL-N2750/EPL-N2700/EPL-N4000+/  
EPL-N2050/EPL-N2050+ or later printers which have EPSON BarCode Fonts

Computer: IBM PC series or IBM compatible with an i386SX or higher CPU

- Operating system: Microsoft Windows Me/98/95, Windows 2000, Windows NT 4.0
- Hard disk: 15 to 30 KB free space, depending on the font.
- Printer driver: EPSON AL-C8500, AL-C2000, EPSON EPL-5800 Advanced, EPSON EPL-5700 Advanced, EPSON EPL-N1600 Advanced, EPSON EPL-N4000 Advanced, EPSON EPL-C8000 Advanced, EPSON EPL-N2750 Advanced, EPL-N2700 Advanced, EPL-C8200 Advanced, EPL-N4000+ Advanced, EPL-N2050 Advanced, EPL-N2050+ Advanced or later drivers which have EPSON BarCode Fonts

**Note:**

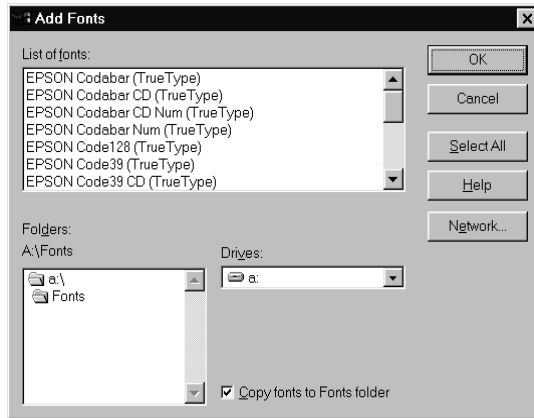
*EPSON BarCode Fonts can only be used with EPSON printer drivers.*

## **Installing EPSON BarCode Fonts**

Follow these steps to install EPSON BarCode Fonts. The procedure described here is for installation in Windows NT 4.0; the procedure for other Windows operating systems is nearly the same.

1. Turn on the computer and start Windows.
2. Insert the CD-ROM or floppy disk containing the EPSON BarCode Fonts into the appropriate drive.
3. Click Start, point to Settings, then click Control Panel.
4. Double click Fonts.

5. From the File menu, select Install New Font.



6. Select the appropriate CD-ROM or floppy drive, then select the BarCode Fonts folder from the Folders list.
7. In the List of fonts box, select the BarCode Font you want to install, or click the Select All button to install all EPSON BarCode Fonts.
8. Click OK. The selected EPSON BarCode Fonts are installed in the Windows Fonts folder.

## ***Printing with EPSON BarCode Fonts***

Follow these steps to create and print barcodes using EPSON BarCode Fonts. The application featured in these instructions is Microsoft WordPad. The actual procedure may differ slightly when printing from other applications.

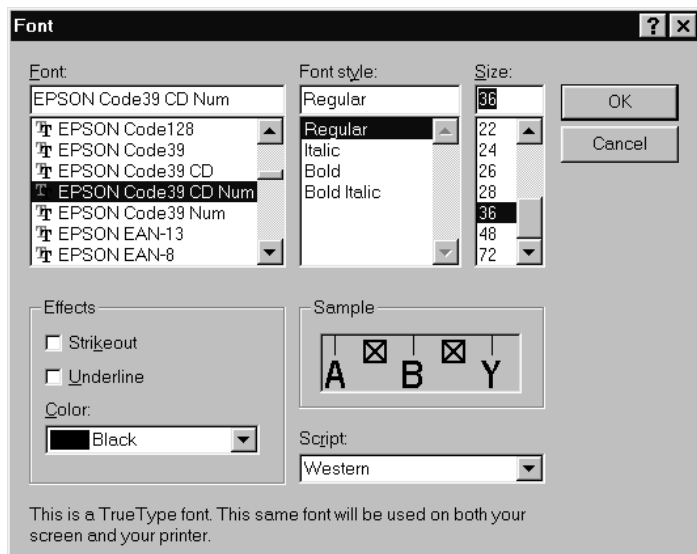
1. Open a document in your application and enter the characters you want to convert to a barcode.



2. Select the characters, then select Font from the Format menu.



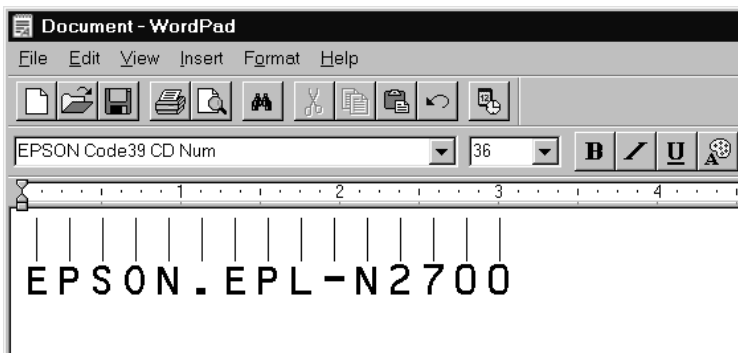
3. Select the EPSON BarCode Font you want to use, then set the font size and click OK.



**Note:**

*In Windows NT 4.0/3.5x, you cannot use font sizes larger than 96 points when printing barcodes.*

4. The characters you selected appear as barcodes similar to those shown below.



- Select Print from the File menu, then select your EPSON printer and click Properties. Make the following printer driver settings:

	<b>Monochrome Printer Driver</b>	<b>Color Printer Driver</b>
Color	(not available)	Black
Print Quality	600 dpi	600 dpi
Toner Save	Not selected	Not selected
Zoom Options	Not selected	Not selected
Graphic mode (in the Extended Settings dialog box accessed through the Optional Settings tab)	Standard	(not available)
Printing Mode (in the More Settings dialog box accessed through the Basic Settings tab)	(not available)	Standard

- Click OK to print the barcode.

**Note:**

*If there is an error in the barcode character string, such as inappropriate data, the barcode will be printed as it appears on the screen, but it cannot be read by a barcode reader.*

### **Notes on inputting and formatting barcodes**

Please note the following when inputting and formatting barcode characters:

- Do not apply shading or special character formatting, such as bold, italic, or underline.
- Print barcodes in black and white only.
- When rotating characters, only specify rotation angles of 90°, 180° and 270°.

- ❑ Turn off all automatic character and word spacing settings in your application.
- ❑ Do not use features in your application which enlarge or reduce the size of characters in only the vertical or horizontal direction.
- ❑ Turn off your application's auto-correct features for spelling, grammar, spacing, etc.
- ❑ To more easily distinguish barcodes from other text in your document, set your application to show text symbols, such as paragraph marks, tabs, etc.
- ❑ Because special characters such as Start bar and Stop bar are added when an EPSON BarCode Font is selected, the resulting barcode may have more characters than were originally input.
- ❑ For best results, use only the font sizes recommended in "EPSON BarCode Font specifications" on page C-15 for the EPSON BarCode Font you are using. Barcodes in other sizes may not be readable with all barcode readers.

**Note:**

*Depending on the print density, or on the quality or color of the paper, barcodes may not be readable with all barcode readers. Print a sample and make sure the barcode can be read before printing large quantities.*

## **EPSON BarCode Font specifications**

This section contains details on the character input specifications for each EPSON BarCode Font.

### **EPSON EAN-8**

- ❑ EAN-8 is an eight-digit abbreviated version of the EAN barcode standard.

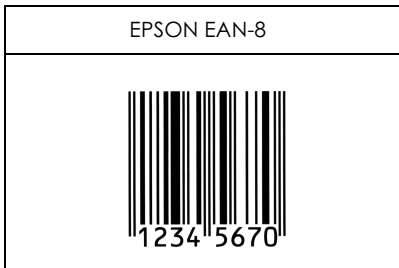
- Because the check digit is added automatically, only 7 characters can be input.

Character type	Numbers (0 to 9)
Number of characters	Up to 7 characters
Font size	52 pt to 130 pt (up to 96 pt in Windows NT). Recommended sizes are 52 pt, 65 pt (standard), 97.5 pt and 130 pt.

The following codes are inserted automatically and need not be input by hand:

- Left/right margin
- Left/right guard bar
- Center bar
- Check digit
- OCR-B

Print Sample



### EPSON EAN-13

- EAN-13 is the standard 13-digit EAN barcode.



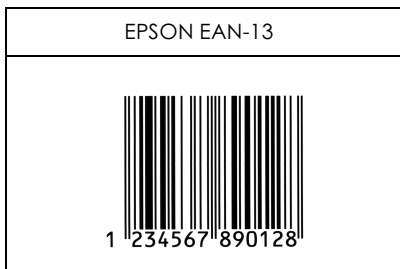
- Because the check digit is added automatically, only 12 characters can be input.

Character type	Numbers (0 to 9)
Number of characters	Up to 12 characters
Font size	60 pt to 150 pt (up to 96 pt in Windows NT). Recommended sizes are 60 pt, 75 pt (standard), 112.5 pt and 150 pt.

The following codes are inserted automatically and need not be input by hand:

- Left/right margin
- Left/right guard bar
- Center bar
- Check digit
- OCR-B

Print Sample



### EPSON UPC-A

- UPC-A is the UPC-A standard barcode specified by the American Universal Product Code (UPC Symbol Specification Manual).

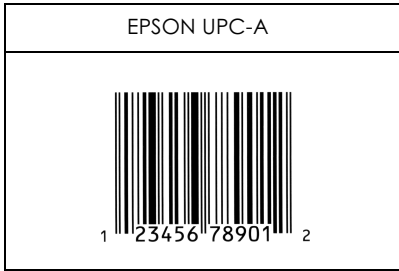
- Only regular UPC codes are supported. Supplementary codes are not supported.

Character type	Numbers (0 to 9)
Number of characters	Up to 11 characters
Font size	60 pt to 150 pt (up to 96 pt in Windows NT). Recommended sizes are 60 pt, 75 pt (standard), 112.5 pt and 150 pt.

The following codes are inserted automatically and need not be input by hand:

- Left/right margin
- Left/right guard bar
- Center bar
- Check digit
- OCR-B

## Print Sample



### EPSON UPC-E

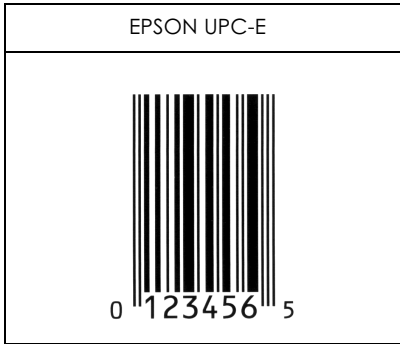
- UPC-E is the UPC-A zero-suppression (deletes extra zeros) barcode specified by the American Universal Product Code (UPC Symbol Specification Manual).

Character type	Numbers (0 to 9)
Number of characters	Up to 6 characters
Font size	60 pt to 150 pt (up to 96 pt in Windows NT). Recommended sizes are 60 pt, 75 pt (standard), 112.5 pt and 150 pt.

The following codes are inserted automatically and need not be input by hand:

- Left/right margin
- Left/right guard bar
- Check digit
- OCR-B
- The numeral "0"

## Print Sample



### EPSON Code39

- ❑ Four Code39 fonts are available, allowing you to enable and disable the automatic insertion of check digits and OCR-B.
- ❑ The height of the barcode is automatically adjusted to 15% or more of its total length, in conformance to the Code39 standard. For this reason, it is important to keep at least one space between the barcode and the surrounding text to prevent overlapping.
- ❑ Spaces in Code39 barcodes should be input as “\_” underbars.
- ❑ When printing two or more barcodes on one line, separate the barcodes with a tab, or select a font other than a BarCode Font and input the space. If a space is input while a Code39 font is selected, the barcode will not be correct.





Character type	Alphanumeric characters (A to Z, 0 to 9) Symbols (- . space \$ / + %)
Number of characters	No limit

Font size	<p>When OCR-B is not used: 26 pt or more (up to 96 pt in Windows NT). Recommended sizes are 26 pt, 52 pt, 78 pt and 104 pt.</p> <p>When OCR-B is used: 36 pt or more (up to 96 pt in Windows NT). Recommended sizes are 36 pt, 72 pt, 108 pt and 144 pt.</p>
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The following codes are inserted automatically and need not be input by hand:

- Left/right quiet zone
- Check digit
- Start/Stop character

Print Sample

EPSON Code39	EPSON Code39 CD
	
EPSON Code39 Num	EPSON Code39 CD Num
 <p style="text-align: center;">1 2 3 4 5 6 7</p>	 <p style="text-align: center;">1 2 3 4 5 6 7 S</p>

### EPSON Code128

- Code128 fonts support code sets A, B, and C. When the code set of a line of characters is changed in the middle of the line, a conversion code is automatically inserted.

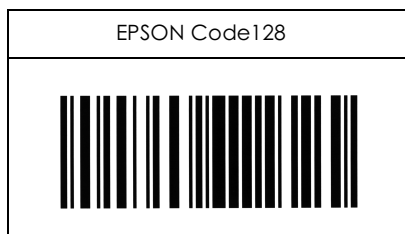
- ❑ The height of the barcode is automatically adjusted to 15% or more of its total length, in conformance to the Code128 standard. For this reason, it is important to keep at least one space between the barcode and the surrounding text to prevent overlapping.
- ❑ Some application software automatically deletes the spaces at the end of lines or changes multiple spaces into tabs. Barcodes containing spaces may not be correctly printed from applications that automatically delete spaces from the ends of lines or change multiple spaces into tabs.
- ❑ When printing two or more barcodes on one line, separate the barcodes with a tab, or select a font other than a BarCode Font and input the space. If a space is input while Code128 is selected, the barcode will not be correct.

Character type	All ASCII characters (95 in total)
Number of characters	No limit
Font size	26 pt to 104 pt (up to 96 pt in Windows NT). Recommended sizes are 26 pt, 52 pt, 78 pt and 104 pt.

The following codes are inserted automatically and need not be input by hand:

- ❑ Left/right quiet zone
- ❑ Start/Stop character
- ❑ Check digit
- ❑ Change code set character

## Print Sample



### EPSON ITF

- The EPSON ITF fonts conform to the USS Interleaved 2-of-5 standard (American).
- Four EPSON ITF fonts are available, allowing you to enable and disable the automatic insertion of check digits and OCR-B.
- The height of the barcode is automatically adjusted to 15% or more of its total length, in conformance to the Interleaved 2-of-5 standard. For this reason, it is important to keep at least one space between the barcode and the surrounding text to prevent overlapping.
- Interleaved 2 of 5 treats every two characters as one set. When there are an odd number of characters, EPSON ITF fonts automatically add a zero to the beginning of the character string.

Character type	Numbers (0 to 9)
Number of characters	No limit
Font size	When OCR-B is not used: 26 pt or more (up to 96 pt in Windows NT). Recommended sizes are 26 pt, 52 pt, 78 pt and 104 pt. When OCR-B is used: 36 pt or more (up to 96 pt in Windows NT). Recommended sizes are 36 pt, 72 pt, 108 pt and 144 pt.

The following codes are inserted automatically and need not be input by hand:

- Left/right quiet zone
- Start/Stop character
- Check digit
- The numeral “0” (added to the beginning of character strings as needed)

Print Sample

EPSON ITF	EPSON ITF CD
	
EPSON ITF Num	EPSON ITF CD Num
 0 1 2 3 4 5 6 7	 1 2 3 4 5 6 7 0

### EPSON Codabar

- Four Codabar fonts are available, allowing you to enable and disable the automatic insertion of check digits and OCR-B.



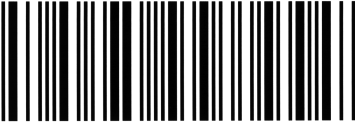



- ❑ The height of the barcode is automatically adjusted to 15% or more of its total length, in conformance to the Codabar standard. For this reason, it is important to keep at least one space between the barcode and the surrounding text to prevent overlapping.
- ❑ When either a Start or a Stop character is input, Codabar fonts automatically insert the complimentary character.
- ❑ If neither a Start nor a Stop character is input, these characters are automatically input as the letter A.

Character type	Numbers (0 to 9) Symbols (- \$ : / . +)
Number of characters	No limit
Font size	When OCR-B is not used: 26 pt or more (up to 96 pt in Windows NT). Recommended sizes are 26 pt, 52 pt, 78 pt and 104 pt.  When OCR-B is used: 36 pt or more (up to 96 pt in Windows NT). Recommended sizes are 36 pt, 72 pt, 108 pt and 144 pt.

The following codes are inserted automatically and need not be input by hand:

- ❑ Left/right quiet zone
- ❑ Start/Stop character (when not input)
- ❑ Check digit

# Print Sample

EPSON Codabar	EPSON Codabar CD
	
EPSON Codabar Num	EPSON Codabar CD Num
 A 1 2 3 4 5 6 7 A	 A 1 2 3 4 5 6 7 4 A

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# Installing and Removing Options

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## Optional Large Capacity Paper Unit

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### Installing

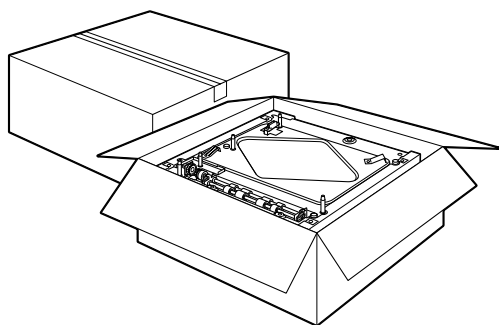
To install the Large Capacity Paper Unit, follow the instructions below.

#### *Before installing*

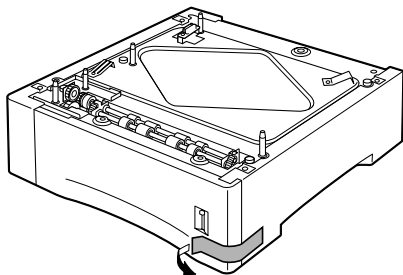
1. Turn off the printer.
2. Unplug the printer's power cord from the electrical outlet.

#### *Installing the optional Large Capacity Paper Unit*

You can install up to two optional Large Capacity Paper Units to your printer.



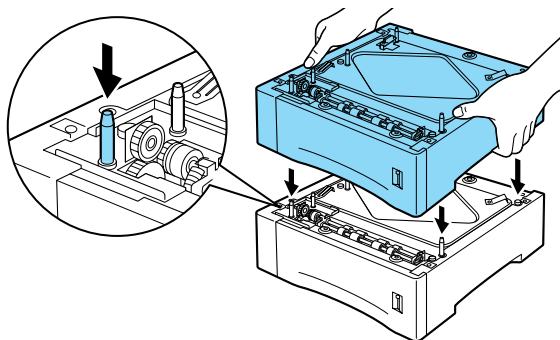
1. Carefully remove the Large Capacity Paper Unit from its carton and place it on the floor or a flat stable surface. Then, remove the packing tape used to secure the paper cassette in place.



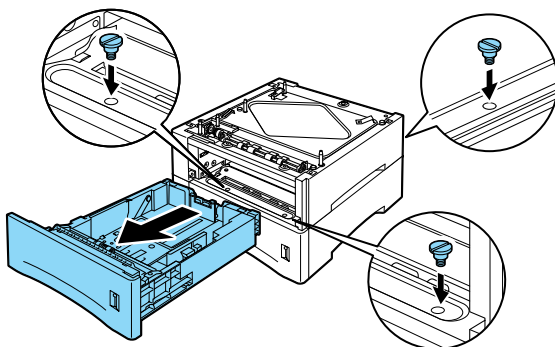
**Note:**

*A plastic bag containing three screws is taped to the top of each unit. Make sure to remove and use these screws to attach it to the printer or another unit.*

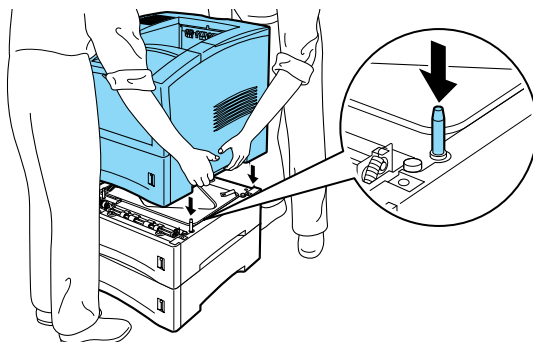
2. If you are installing two units, remove the other unit from its carton, and carefully lower it onto the bottom unit. Make sure that the pins and electronic connector are properly aligned.



3. Make sure all corners of the upper unit fit securely onto the bottom unit. Remove the paper cassette from the upper unit. Then, insert and tighten the three screws as shown below.



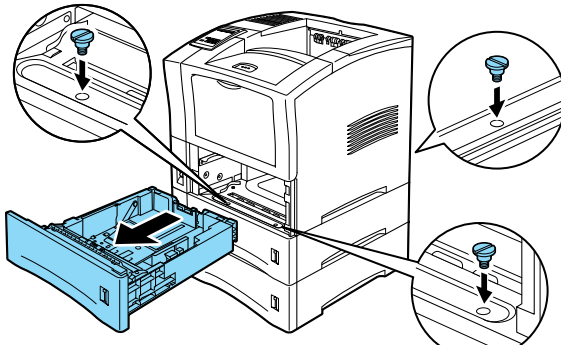
4. Reinstall the paper cassette in to the upper unit.
5. Lift the printer and carefully place it on the Large Capacity Paper Unit. Make sure that the pins and electronic connector are properly aligned.



**Caution:**

- ❑ *The printer weighs about 26 kg (57.4 lb). Always lift it with two or more people.*
- ❑ *Grasp the printer at the locations indicated above.*

6. Remove the standard lower cassette from the printer. Insert and tighten the screws in the locations shown below.



7. Reinstall the paper cassette into the upper unit.
8. Plug the power cord into an electrical outlet.
9. Turn on the printer.

## **Removing**

To remove the optional Large Capacity Paper Unit, follow the instructions below.

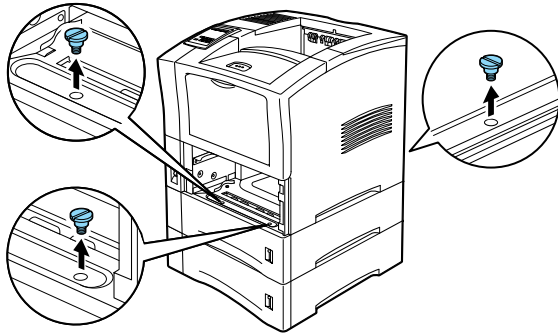
### *Before removing*

1. Turn off the printer.
2. Unplug the printer's power cord from the electrical outlet.

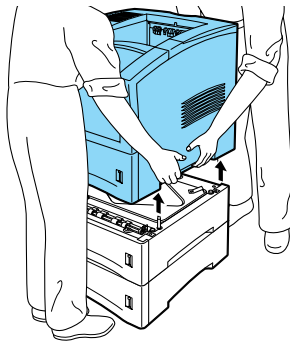
### *Removing the optional Large Capacity Paper Unit*

1. Pull the standard lower cassette out of the printer.

2. Remove the three screws that connect the printer to the optional Large Capacity Paper Unit, as shown below.



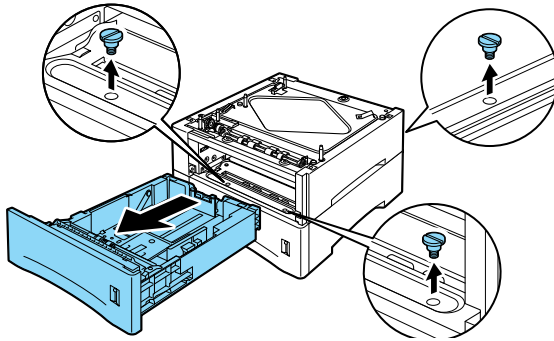
3. Reinstall the standard lower cassette in to the printer.
4. Carefully lift the printer off the optional Large Capacity Paper Unit with two or more people and place it on a flat stable surface.



**Caution:**

- ❑ *The printer weighs about 26 kg (57.4 lb). Always lift it with two or more people.*
- ❑ *Grasp the printer at the locations indicated above.*

5. If you have installed two units, pull the paper cassette out of the upper unit. Remove the three screws that connect the two units.



6. Replace the paper cassettes into the printer and the optional Large Capacity Paper Unit.
7. Repack the optional Large Capacity Paper Unit in its original carton.
8. Place the printer on a flat steady surface.

#### *After removing*

1. Make sure the printer is turned off.
2. Plug the printer's power cord into an electrical outlet
3. Turn on the printer.

---

## **Duplex Unit**

The optional Duplex Unit allows you to print on both sides of the paper automatically.



# Installing

To install the Duplex Unit, see the following section or the *Setup Guide*.

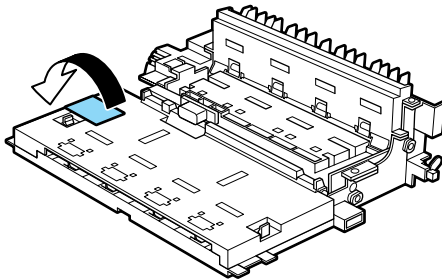
## Before installing



**Caution:**

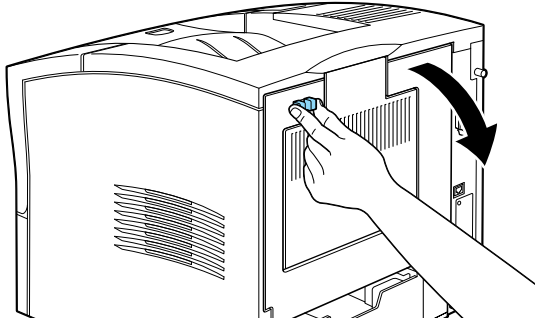
*Open the inner tray of the Duplex Unit and remove the packing tape; otherwise, the printer will not function properly.*

1. Turn off the printer.
2. Unplug the printer's power cord from the electrical outlet.
3. Unpack the Duplex Unit and remove the packing tape.

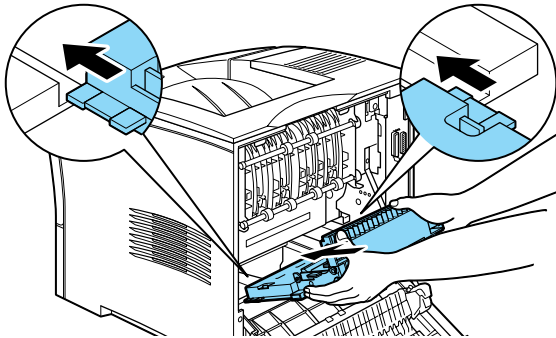


## Installing

1. Squeeze together the two adjacent knobs on the printer's rear cover, so that the rear cover comes free. Gently lower the rear cover all the way down.



2. While holding the Duplex Unit in both hands, align the edges on the unit with the guide rails in the printer. Slowly tilt the unit and slide it into the printer as shown in the illustration below. You do not need to force the unit into the printer, as it is designed to join smoothly.



**Caution:**

*Do not touch the areas marked with the caution labels inside the rear cover. If the printer has been in use, these areas may be very hot.*

3. Close the rear cover of the printer.

### *After Installing*

1. Make sure the printer is not turned on.
2. Plug the printer's power cord into an electrical outlet.
3. Turn on the printer.

To confirm that the Duplex Unit is installed correctly, print a status sheet. If the unit is not listed on the status sheet, try installing it again.

**Note:**

*Keep the packaging materials in case you remove the Duplex Unit in the future.*

## **Removing**

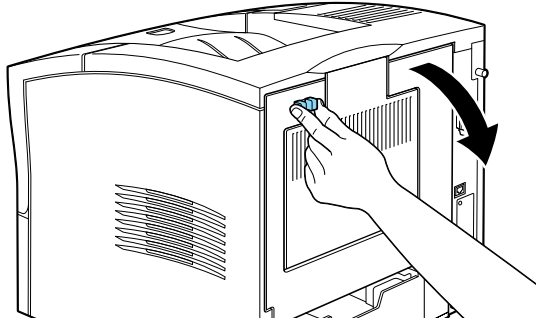
To remove the Duplex Unit, follow the instructions below.

### *Before removing*

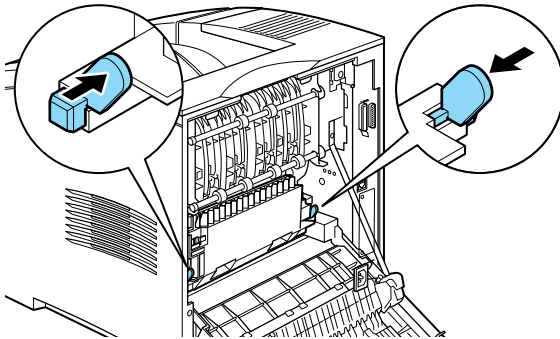
1. Turn off the printer.
2. Unplug the printer's power cord from the electrical outlet.

## Removing

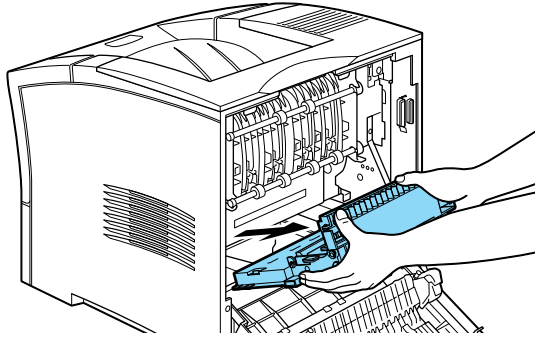
1. Squeeze together the two adjacent knobs on the printer's rear cover, so that the rear cover comes free. Gently lower the rear cover all the way down.



2. Using both hands, grab the Duplex Unit and simultaneously push the blue buttons located on both sides of the Duplex Unit, as shown in the illustration below.



3. Carefully lift and slide the unit out of the printer.



4. Close the rear cover of the printer.

After removing

1. Make sure the printer is not turned on.
2. Plug the printer's power cord into an electrical outlet.
3. Turn on the printer.

---

## **Multibin Unit**

### **Installing**

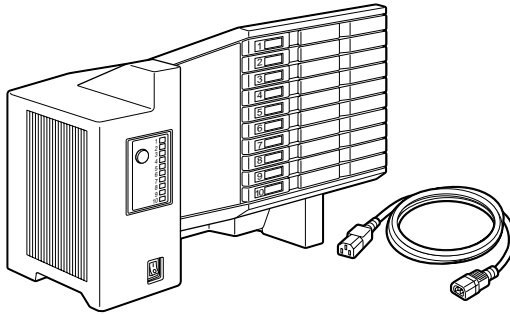
To install the Multibin Unit, follow the instructions below.

**Note:**

*The Multibin Unit cannot be used in combination with the optional Shifter. If the Shifter is installed, remove it before installing the Multibin Unit. For more information, see "Shifter" on page D-19.*

## Before Installing

1. Turn off the printer.
2. Unplug the power cord from the electrical outlet.
3. Detach the other end of the power cord from the power connector on the printer. Keep the cord nearby, as you need to connect it to the Multibin Unit.
4. Remove all interface cables from the interface connectors.
5. Open the box containing the Multibin Unit. Take the unit out carefully and gently place it on a stable surface. Also take out the power extension cable included in the package.



### **Caution:**

*After removing the protective material, do not place the Multibin Unit on its bottom.*

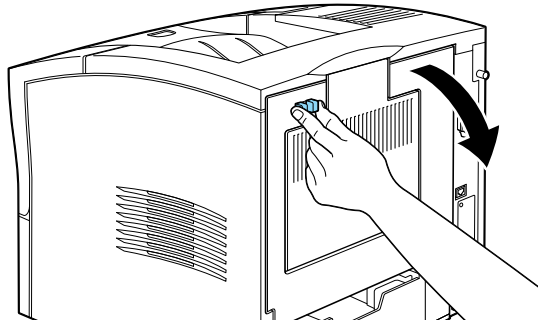
## Removing the Printer's Top Cover

### **Note:**

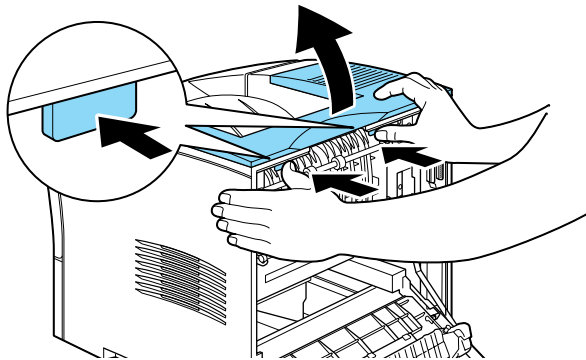
*If you have just removed the Shifter, the top cover is already off. In this case, proceed to "Installing the Multibin Unit".*

1. Make sure the printer is not turned on.

2. Squeeze together the two adjacent knobs on the printer's rear cover, so that the rear cover comes free. Gently lower the rear cover all the way down.



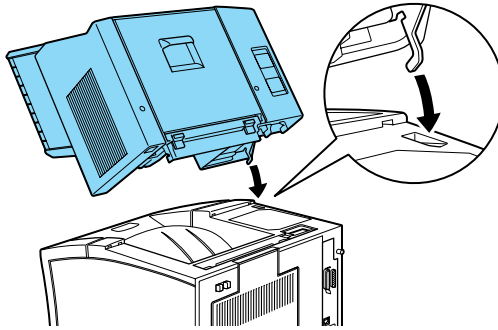
3. Reach into the top rear of the printer and press in the two plastic tabs locking the top cover in place, while at the same time holding onto the cover so it doesn't fall. Lift the top cover off carefully and store it in a safe place.



4. Close the rear cover.

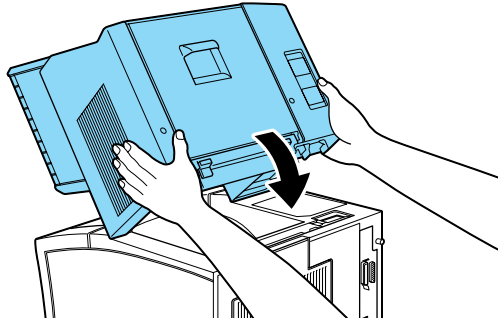
## Installing the Multibin Unit

1. Face the back of the printer. (If necessary, slide the printer around so that you can be in the proper position.)
2. Before lifting the Multibin Unit, study carefully how it fits onto the printer.
3. Carefully lift the Multibin Unit, holding it so that the drawers are facing the same direction as the front of the printer. Lift the unit over the printer, tilt the front end slightly downward, and fit the metal hook into the hook slot.

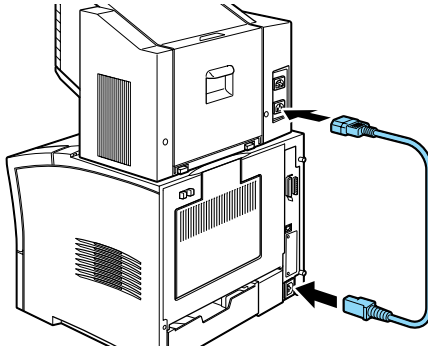




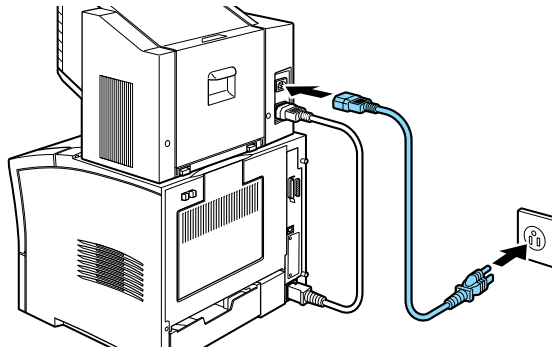
- Note the location of the interface plug on the Multibin Unit and its counterpart on the printer. Lower the rear of the unit into place and make sure the plug is inserted properly into the receptacle on the printer. Slide the unit slightly as necessary so that the plastic tabs snap into the slot along the rear of the printer.



- Connect one end of the power extension cable to the lower power outlet on the back of the Multibin Unit. Connect the other end of the cable to the power inlet on the printer.



6. Connect the printer's original power cord to the upper power inlet on the Multibin Unit, and plug the other end into an electrical outlet.



### *After Installing*

1. Reconnect any interface cables that you removed.
2. Make sure the printer and the Multibin Unit are turned off. Plug the power cord into an electrical outlet.
3. Turn on the Multibin Unit.
4. Turn on the printer.

## **Removing**

To remove the Multibin Unit, follow the instructions below.

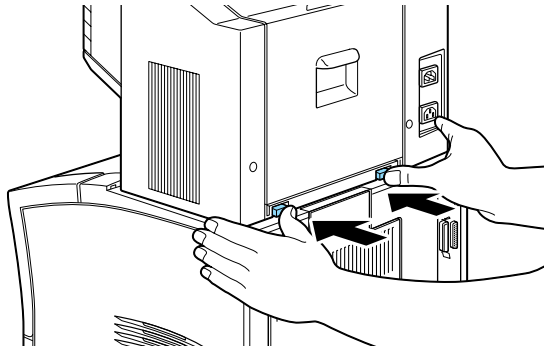
### *Before Removing*

1. Turn off the printer and the Multibin Unit.
2. Unplug the printer's power cord from the electrical outlet. Then unplug the other end of the cord from the power connector on the Multibin Unit.

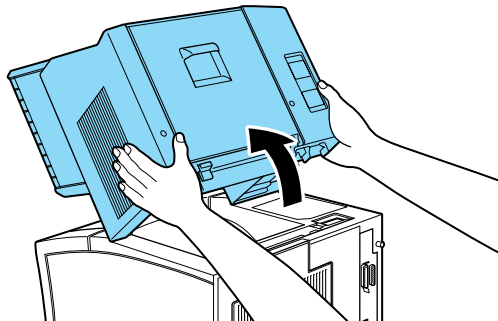
3. Remove all interface cables from the interface connectors.
4. Disconnect the power extension cable from the printer and the Multibin Unit.

### Removing

1. Press in the two tab buttons at the bottom rear of the Multibin Unit and raise the back of the unit slightly upwards so that the tabs come free.



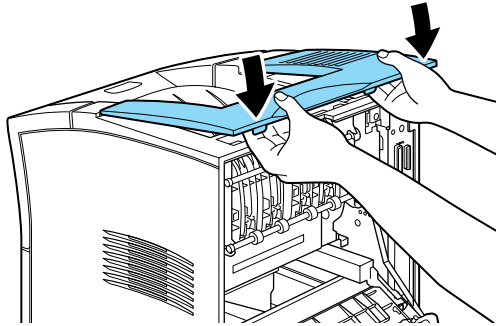
2. Holding the unit firmly, lift it up and tilt it to remove it, making sure that the metal hook comes out from the hook slot on the printer as shown in the illustration below.



3. Store the Multibin Unit and power extension cable in their original box.

### *After Removing*

1. Replace the top cover (or install the optional Shifter). To replace the top cover, fit the hooks at the front of the cover into the slots and press the cover down gently so that it snaps into place.



2. Reconnect any interface cables that you removed.



**Caution:**

*Do not place the Multibin Unit on its bottom.*

3. Make sure the printer is turned off. Connect the power cord to the power connector on the rear of the printer. Then plug the other end of the cord into an electrical outlet.
4. Turn on the printer.

---

# Shifter

## Installing

To install the Shifter, follow the instructions below.

**Note:**

*The Shifter cannot be used in combination with the optional Multibin Unit. If the Multibin Unit is installed, remove it before installing the shifter. See “Multibin Unit” on page D-11 for more information on removing the Shifter.*

### Before Installing

1. Turn off the printer.
2. Unplug the power cord from the electrical outlet.
3. Remove all interface cables from the interface connectors.
4. Unpack the Shifter, and remove all protective materials.



**Caution:**

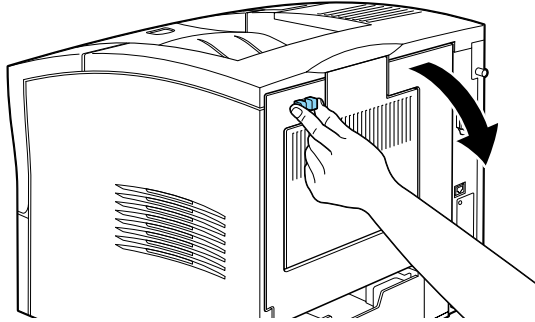
*After removing the protective materials, do not place the Shifter on its bottom surface.*

### Taking Off the Printer's Top Cover

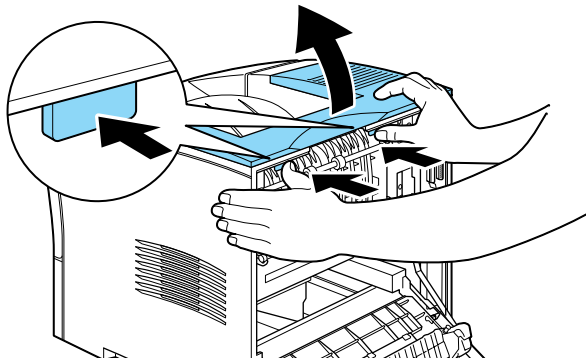
**Note:**

*If you have just removed the Multibin Unit, proceed to “Installing the Shifter” on page D-21, as the top cover is already off.*

1. Squeeze together the two adjacent knobs on the printer's rear cover, so that the rear cover comes free. Gently lower the rear cover all the way down.



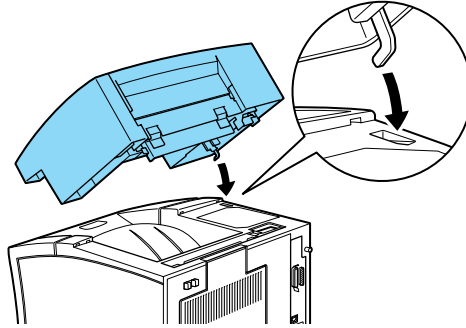
2. Reach into the top rear of the printer and press in the two plastic tabs locking the top cover in place, while at the same time holding onto the cover so it doesn't fall. Lift the top cover off carefully and store it in a safe place.



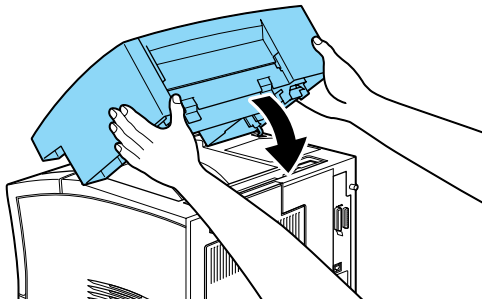
3. Close the rear cover.

## Installing the Shifter

1. Lift the Shifter over the printer, tilting the front end slightly downward, and fit the metal hook into the hook slot.



2. Note the location of the interface plug on the Shifter and its counterpart on the printer. Lower the rear of the Shifter into place and make sure the plug is inserted properly into the receptacle on the printer. Slide the Shifter slightly as necessary so that the plastic tabs snap into the slot along the rear of the printer.



## After Installing

1. Reconnect any interface cables that you removed.
2. Make sure the printer is turned off. Plug the power cord into an electrical outlet.

3. Turn on the printer.

## **Removing**

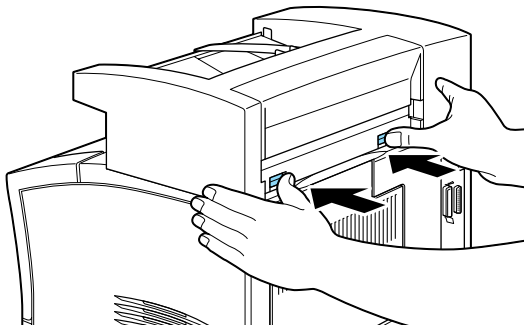
To remove the Shifter, follow the instructions below.

### *Before Removing*

1. Turn off the printer.
2. Unplug the printer's power cord from the electrical outlet.
3. Remove all interface cables from the interface connectors.

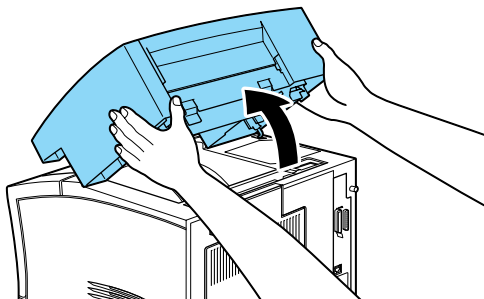
### *Removing the Shifter*

1. Press in on the two tab buttons at the bottom rear of the Shifter, and raise the Shifter slightly upwards so that the tabs come free.





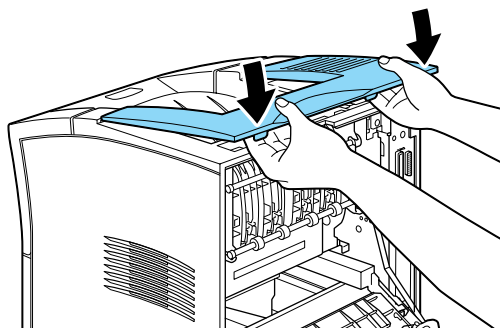
2. Lift the Shifter up at an angle back to remove it, making sure that the metal hook comes out from the hook slot on the printer.



3. Store the Shifter in its original box.

#### *After Removing*

1. Replace the top cover (or install the optional Multibin Unit). To replace the top cover, fit the hooks at the front of the cover into the slots and press the cover down gently so that it snaps into place.



2. Reconnect any interface cables that you removed.
3. Make sure the printer is turned off. Then plug the power cord into an electrical outlet.

4. Turn on the printer.

---

## **Envelope Feeder**

### ***Installing***

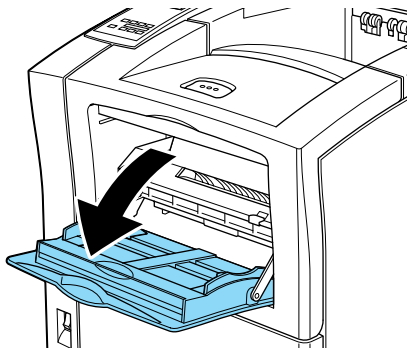
To install the Envelope Feeder follow the instructions below.

#### *Before Installing*

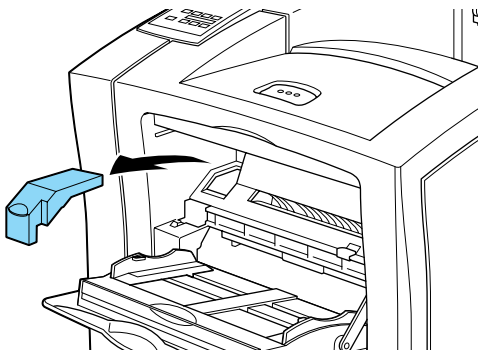
1. Turn off the printer.
2. Unplug the printer's power cord from the electrical outlet.
3. Unpack the Envelope Feeder and remove all protective materials.

#### *Installing*

1. Open the MP Tray.



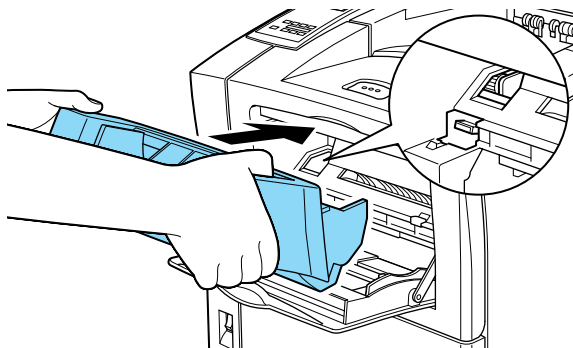
2. Remove the small cap from the inner left side of the MP tray as shown below.



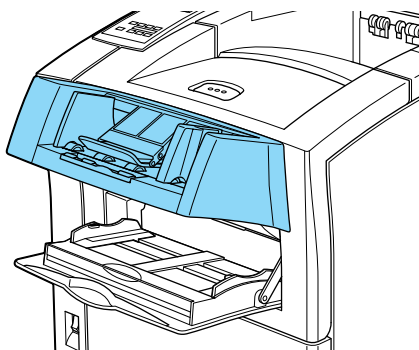
**Note:**

*Take care not to lose the small cap, as you need to replace it when you remove the Envelope Feeder.*

3. Hold the Envelope Feeder horizontally with both hands.
4. Note the location of the interface plug on the Envelope Feeder and its counterpart on the printer. Make sure that the plug is inserted properly into the receptacle on the printer.



5. Push it straight into position directly above the MP tray.



### *After installing*

1. Make sure the printer is turned off.
2. Plug the printer's power cord into an electrical outlet
3. Turn on the printer.

## **Removing**

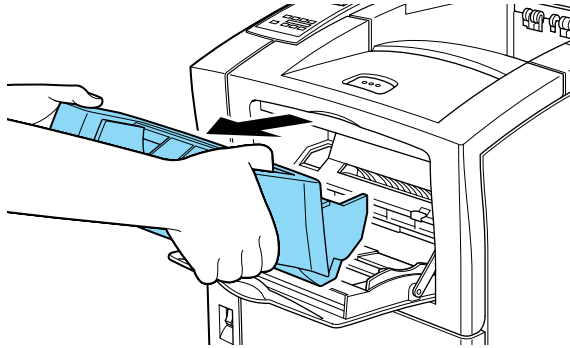
To remove the Envelope Feeder, follow the instructions below.

### *Before removing*

1. Turn off the printer.
2. Unplug the printer's power cord from the electrical outlet.

## Removing

1. Grasp the Envelope Feeder with both hands.



2. Lift the Envelope Feeder slightly and pull it out.
3. Replace the small cover on the gears and electronic connector.
4. Store the Envelope Feeder in its original carton until the next time you use it.

---

## Memory Modules

By installing a memory module, you can increase printer memory up to 256 MB. You may want to add memory if you are having difficulty printing complex, graphics-intensive, pages, using the Duplex Unit or if you regularly use numerous downloaded fonts.

You can purchase memory modules from various vendors. Make sure the memory module you purchase meets the following requirements.

DRAM type	Synchronous Dynamic RAM Double In-line Memory Module (SD RAM DIMM)
Memory size	16 MB, 32 MB, 64 MB, 128 MB, or 256 MB

DRAM type	Synchronous Dynamic RAM Double In-line Memory Module (SD RAM DIMM)
Type	168-pin type, 64 bit, with SPD
Access speed	66.66 MHz or higher (15 ns or less)
Height	Less than 40 mm

**Note:**

*If you install an optional memory module, Installed Memory shows the total size including both default 16 MB and the optional module's size. However, if you install one 256 MB-DIMM, the status sheet shows just 256 MB because the maximum memory size for this printer is 256 MB.*

For information on installing procedure for an optional memory module, see the *Setup Guide*.

---

## **Hard Disk Drive**

The optional Hard Disk Drive (C82377\*) can hold up to 6 GB of print jobs. This option allows you to print complex and large print jobs at high speed. The installing procedure for the optional Hard Disk Drive is Described below.

### **Installing**

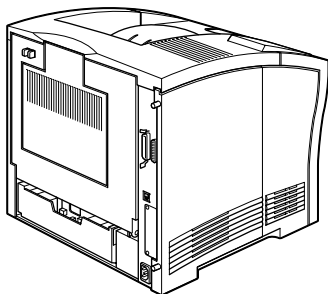
Follow these steps to install the Hard Disk Drive:

#### *Before Installing*

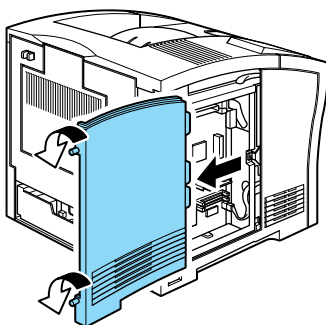
1. Turn off the printer.
2. Unplug the printer's power cord from the electrical outlet.
3. Unpack the Hard Disk Drive and remove all protective materials.

## Installing

1. Face the left side of the printer.



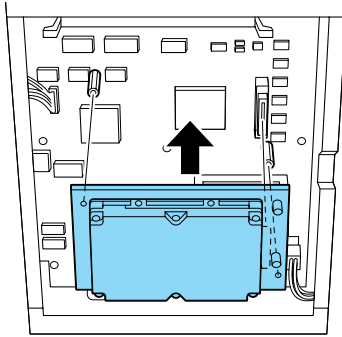
2. Loosen the two retaining screws on the back of the printer and remove the left side casing of the printer.



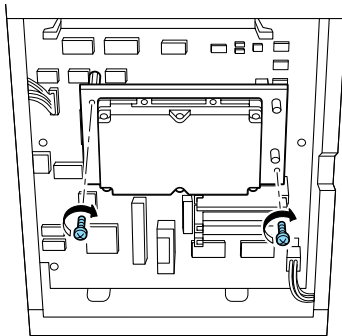
**Note:**

*The two retaining screws are attached to the printer casing to prevent them from falling off.*

3. Align the two pins with the two holes, and the connector with the socket, then press the Hard Disk Drive down until the socket and connector are securely connected.



4. Tighten the two screws with a screwdriver.



5. Replace the left side casing of the printer and tighten the two retaining screws.

*After installing*

1. Make sure the printer is turned off.
2. Plug the printer's power cord into an electrical outlet.



3. Turn on the printer.

### **Making HDD setting**

Make sure that the Hard Disk Drive is correctly recognized by the printer driver after installing the Hard Disk Drive.

Follow these steps to make necessary setting:

1. Go to the Optional Settings menu of the printer driver.
2. Select the Update the Printer Option Info Manually radio button, and then, click the Settings button. The Optional Settings dialog box opens.
3. Select the HDD Unit check box located at the left bottom of the dialog box.
4. Click OK.

### **Removing**

To remove the Hard Disk Drive, follow the instructions below.

#### *Before removing*

1. Turn off the printer.
2. Unplug the printer's power cord from the electrical outlet.

#### *Removing*

1. Repeat steps 1 and 2 in "Installing" in this section to access the Hard Disk Drive.
2. Loosen and remove the two screws with a screwdriver.
3. Pull the Hard Disk Drive off from the Hard Disk Drive socket.

4. Put the Hard Disk Drive in its original package.
5. Replace the left side casing of the printer and tighten the two retaining screws.
6. Store the Hard Disk Drive in a safe place until the next time it will be used.

### *After removing*

1. Make sure the printer is turned off.
2. Plug the printer's power cord into an electrical outlet.
3. Turn on the printer.

---

## **ROM Module**

Procedure for installing the optional Adobe PostScript 3 Kit ROM module is described in the *Setup Guide*.

---

## **Interfaces**

The optional interface cards that can be used with this printer are listed below.

- To add a direct connection to an Ethernet system, use an optional Ethernet card (C82384\*).
- To add a serial or parallel interface to your printer, use one of the following:

32 KB Serial interface card    C82307\*

32 KB Parallel interface card    C82310\*

- ❑ To add a direct connection to an IBM mini or mainframe system, use one of the following:

Coax interface card                    C82314\*

Twinax interface card                C82315\*

The coax and twinax connectors each contain a parallel interface. Since the printer's built-in parallel interface remains active, this gives you two parallel interfaces and a coax or twinax interface. Print jobs can be sent to any connection, and the printer automatically switches between the active ports.

The twinax interface is compatible with the following IBM systems: AS-400, System 36, 5251 (model 12), System 34, System 38, and 5294. When equipped with the EPSON twinax interface, the printer can be used in place of the following IBM system printers: 4210, 5224 (models 1 and 2), 5256 (models 1, 2, and 3), 3218 (non IPDS), 4214 (model 2), 5225 (models 1, 2, 3, and 4), and 5219 D01, D02.

The coax interface allows the printer to be connected to the following IBM control units and mainframe systems: 3174, 3276, 4274, and 3270.

- ❑ To add a direct connection to your GPIB network, use the GPIB interface card (C82313\*).

For detailed information on installing procedure for an optional Interface Cards, see the *Setup Guide*.



# Contacting Customer Support

If your EPSON product is not operating properly and you cannot solve the problem using the troubleshooting information in your product documentation, contact customer support services for assistance. If customer support for your area is not listed below, contact the dealer where you purchased your product.

Customer support will be able to help you much more quickly if you give them the following information.

- Product serial number  
(The serial number label is usually on the back of the product.)
- Product model
- Product software version  
(Click About, Version Info, or similar buttons in the product software.)
- Brand and model of your computer
- Your computer operating system name and version
- Names and versions of the software applications you normally use with your product

## For users in Latin America

Electronic support services are available 24 hours a day at the following web sites:

Service	Access
World Wide Web	From the Internet, you can reach EPSON's Latin American website at <b><a href="http://www.latin.epson.com">http://www.latin.epson.com</a></b> . In Brazil, you can reach Epson at <b><a href="http://www.epson.br">http://www.epson.br</a></b> .

To speak with a customer support representative, call one of the numbers below:

Country	Telephone number
Argentina	11-4346-0300
Brazil	(55 11) 7296-6100
Chile	02-236-6717
Colombia	01-523-5000
Costa Rica	6-296-6222
México México, D.F. Resto del país	5-328-4008 01-800-50-607-00
Perú	224-2336
Venezuela	58-2-240-1111

## For users in the United Kingdom and the Republic of Ireland

If you purchased your product in the UK or the Republic of Ireland, Epson (UK) LTD provides a range of customer services and technical support.

## *Support Via the World Wide Web*

- ❑ For information on the latest EPSON products, software drivers, online user guides, and answers to frequently asked questions:

<http://www.epson.co.uk>

- ❑ To e-mail EPSON Technical Support:

<http://www.epson.co.uk/support/email/>

- ❑ For a full list of EPSON Customer and Warranty Support services:

<http://www.epson.co.uk/support/>

## *Support Via Telephone*

Our Customer and Warranty Support teams can be contacted by calling 0870 163 7766 in the UK or 0044 0870 163 7766 from the Republic of Ireland. They can provide the following services:

- ❑ Technical information on installing, configuring, and operating your EPSON products
- ❑ Arranging for faulty EPSON products to be repaired within the warranty period

## *Pre-Sales Enquiry Desk*

Our Enquiry Desk team can be contacted by calling 0800 220546 in the UK or 1 800 409132 from the Republic of Ireland, by faxing 01442 227271 in the UK or 0044 1442 227271 from the Republic of Ireland, and via e-mail at [info@epson.co.uk](mailto:info@epson.co.uk). They can provide the following information:

- ❑ Pre-sales information and literature on new EPSON products (also available via our world wide web site at <http://www.epson.co.uk>)

- ❑ Where to purchase genuine EPSON consumables, accessories, and options

## ***For users in Australia***

EPSON Australia wishes to provide you with a high level of customer service. In addition to your product documentation, we provide the following sources for obtaining information:

### *Your Dealer*

Don't forget that your dealer can often help identify and resolve problems. The dealer should always be the first call for advice on problems, they can often solve problems quickly and easily as well as give advice on the next step to take.

### *Internet URL <http://www.epson.com.au>*

Access the EPSON Australia World Wide Web pages. Worth taking your modem here for the occasional surf! The site provides a download area for drivers, EPSON contact points, new product information and technical support (e-mail).

### *EPSON Faxback service*

EPSON Faxback service will fax you the latest specifications for most EPSON products offered in Australia. Phone (02) 9903 9075 and the system will guide you through a number of choices before faxing the information to your fax machine.

### *EPSON Helpdesk*

EPSON Helpdesk is provided as a final backup to make sure our clients have access to advice. Operators on the Helpdesk can aid you in installing, configuring and operating your EPSON product. Our Pre-sales Helpdesk staff can provide literature on new EPSON products and advise where the nearest dealer or service agent is located. Many types of queries are answered here.



The Helpdesk numbers are:

Phone: 1300 361 054

Fax: (02) 9903 9189

We encourage you to have all the relevant information on hand when you ring. The more information you prepare, the faster we can help solve the problem. This information includes your EPSON product documentation, type of computer, operating system, application programs, and any information you feel is required.

## ***For users in Singapore***

Sources of information, support, and services available from Epson Singapore are:

*World Wide Web* ([www.epson.com.sg](http://www.epson.com.sg))

Information on product specifications, drivers for download, Frequently Asked Questions (FAQ), sales enquiries, and technical support via e-mail are available.

*Epson HelpDesk* (Phone: (065) 5863111)

Our HelpDesk team can help you with the following over the phone:

- Sales enquiries and product information
- Product usage questions or problem
- Enquiries on repair service and warranty

## ***For users in Hong Kong***

To obtain technical support as well as other after-sales services, users are welcome to contact EPSON Hong Kong Limited.

### *Internet home page*

EPSON Hong Kong has established a local home page in both Chinese and English on the Internet to provide users with the following information:

- Product information
- Answers to Frequently Asked Questions (FAQs)
- Latest versions of EPSON product drivers

Users can access our World Wide Web home page at:

<http://www.epson.com.hk>

### *Electronic bulletin board system*

An electronic bulletin board system (BBS) is also available to obtain product information and the latest versions of product drivers. You can log on to the following number for the BBS service:

BBS: (852) 2827-4244

### *Technical Support Hotline*

You can also contact our technical staff at the following telephone and fax numbers:

Phone: (852) 2585-4399

Fax: (852) 2827-4383

## ***For users in Malaysia***

Contacts for information, support, and services are:

*World Wide Web* ([www.epson.com.my](http://www.epson.com.my))

Information on product specifications, drivers for download, Frequently Asked Questions (FAQ), and Email enquiries are available.

*Epson Trading Shah Alam Head Office*

Phone: 03 5191366

Fax: 03 5191281

## ***For users in India***

Contacts for information, support, and services are:

*World Wide Web* ([www.epson.co.in](http://www.epson.co.in))

Information on product specifications, drivers for download, Frequently Asked Questions (FAQ), products enquiry, and technical query are available.

*Epson India Bangalore Head Office:*

Phone: 5321 266-70

Fax: 5581799/5321095

Help Desk Phone: 5321 625

***For users in the Philippines***

To obtain technical support as well as other after sales services, users are welcome to contact the EPSON Philippines Representative Office at the telephone and fax numbers below:

Phone: (632) 813-6552

Fax: (632) 813-6545

BBS: (632) 814-0595

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# Glossary

**ASCII**

American Standard Code for Information Interchange. A standardized way of assigning codes to characters and control codes. The system is widely used by manufacturers of computers, printers, and software.

**auto line feed**

A printer feature in which each carriage return code (CR) is automatically accompanied by a line feed (LF) code.

**bitmap font**

The dot-by-dot representation of a font. Bitmap fonts are displayed on computer screens and printed on dot matrix printers. See *outline font*.

**buffer**

See *memory*.

**character set**

A collection of letters, numbers, and symbols used in a particular language.

**cpi (characters per inch)**

A measure of the size of fixed-width text characters.

**default**

A value or setting that takes effect when the printer is turned on, reset, or initialized.

**dots per inch (dpi)**

The number of dots per inch is a measure of printer resolution. The higher the number of dots, the higher the resolution.

**download**

To transfer information from the computer to the printer.

**download font**

A font that is loaded into the printer's memory from an outside source, such as a computer. Also called soft font.

**dpi**

See *dots per inch (dpi)*.

**driver**

The part of a software program that converts commands from the program into commands used by the printer. Also known as the printer driver.

**drum**

The part of the printer mechanism where the image is formed and transferred to the paper.

**emulation**

See *printer emulation*.

**fixed-width font**

A font whose characters are allotted the same amount of horizontal space, no matter the width of the character. Thus the uppercase M receives the same amount of space as the letter l.

**font**

A set of characters and symbols that share a common typographic design and style.

**font family**

The collection of all sizes and styles of a font.

**halftone**

A grayscale image that is composed of small dots. The dots can be close together to create black or more widely spaced to create gray or white areas in the image. Newspaper photographs are common examples of halftones.

**Imaging Cartridge**

The Imaging Cartridge contains a photosensitive print drum and a supply of toner.

**initialization**

The act of returning the printer to its defaults (fixed set of conditions).

**interface**

The connection between the printer and the computer. A parallel interface transmits data one character or code at a time, and a serial interface transmits data one bit at a time.

**landscape**

Printing that is oriented sideways on the page. This orientation gives you a page that is wider than it is high and is useful for printing spreadsheets.

**memory**

The part of the printer's electronic system that is used to store information. Some information is fixed and is used to control how the printer operates. Information that is sent to the printer from the computer (such as downloaded fonts) is stored in memory temporarily. See also *RAM* and *ROM*.

**orientation**

Refers to the direction in which characters are printed on a page. This direction is either portrait, like this page, or landscape with the text printed on a page turned sideways.

**outline font**

A font whose outline is described mathematically, allowing it to be rendered (printed or drawn) smoothly at any size.

**pitch**

A measure of the number of *characters per inch* (cpi) for fixed-width fonts.

**point size**

The height of a particular font as measured from the top of the tallest character to the bottom of the lowest. A point is a typographic unit of measure equivalent to 1/72 of an inch.

**portrait**

Printing that is oriented upright on the page (as opposed to landscape, in which printing is oriented sideways on the page). This is the standard orientation for printing letters or documents.

**printer driver**

See *driver*.

**printer emulation**

A set of operating commands that determines how data sent from the computer is interpreted and acted upon. Printer emulations replicate existing printers, such as the HP LaserJet 4.

**RAM**

Random Access Memory (RAM) is where temporary information is stored.

**reset**

A printer command that clears the printer's memory and erases the current print jobs.

**resident font**

A font that is stored permanently in the printer's memory.

**resolution**

A measure of the fineness and clarity of images produced by the printer or monitor. Printer resolution is measured in dots per inch. Monitor resolution is measured in pixels.

**RItech**

Resolution Improvement Technology. A feature that smooths the jagged edges of printed lines or shapes.

**ROM**

Read Only Memory (ROM) is where permanent information is stored.

**sans serif font**

A font lacking serifs. See also *serif*.

**scalable font**

See *outline font*.

**Selectype**

A feature of the printer that allows you to set printer values and control most of the printer's functions from the display panel.

***serif***

The small decorative strokes that come off the main lines of a character.

***status sheet***

A report that lists the printer settings and other printer information.

***symbol set***

A collection of symbols and special characters. Symbols are assigned to specific codes in a character table.

***TrueType***

An outline font format that was developed jointly by Apple Computer and Microsoft Corporation. TrueType fonts are outline fonts that can be easily resized for screen display or for printing.



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# Index

## A

Adobe PostScript 3 Kit, 9  
ALT, 2-10  
Alt. Graphics, 4-39  
Auto Cont, 4-17  
Auto CR, 4-35, 4-38  
Auto eject page, 4-10  
Auto LF, 4-38  
AUX Menu, 4-5, 4-25  
Available fonts, C-3  
    ESC/P 2 and FX mode, C-6  
    I239X mode, C-7  
    LJ4/GL2 mode, C-5  
Available paper, 1-1

## B

Binding, 4-10  
Bit Image, 4-35, 4-38  
Buffer Size, 4-22, 4-26  
Buttons, 2-9

## C

CGTable, 4-34, 4-37  
Character Set, 4-39  
Cleaning  
    inside printer, 6-1  
    printer case, 6-2  
Clearing  
    paper jams, 5-2  
Code Page, 4-39  
Colored paper, 1-2, 1-2  
Condensed, 4-34, 4-37  
Confidential Job, 1-19  
ConfidentialJob Menu, 4-20  
Config Menu, 4-4, 4-15  
Consumable products  
    Imaging Cartridge, 3-1  
Contacting EPSON, E-1

Continue, 2-8, 2-11  
Control panel, 2-5  
    buttons, 2-9  
    error message, 5-20  
    Indicator lights, 2-7  
    LCD panel, 2-6  
Copy, 2-14, 4-9  
Country, 4-37  
CR Function, 4-29  
Customer support, E-1  
Custom paper size, 1-11

## D

Density, 4-16  
Dest SymSet, 4-29  
Duplex, 4-10  
Duplex Unit, D-6  
    removing, D-9  
    specification, A-9  
    using, 1-24

## E

Emulation Menu, 4-4, 4-7  
    ESCP2, 4-33  
    I239X, 4-38  
    LJ4, 4-27  
    PS3, 4-32  
End, 4-31  
Enter, 2-10  
Envelope, 1-2, 1-28  
Envelope Feeder, D-24  
    handling, 1-29  
    installing, D-24  
    removing, D-26  
    specification, A-10  
Env Tray Size, 4-13  
EPSON BarCode Fonts, C-7  
    formatting, C-14  
    inputting, C-14

- installing, C-10
- printing, C-11
- specifications, C-15
- system requirements, C-9
- EPSON Status Monitor 3, 2-14, 2-15
  - accessing, 2-17
  - monitoring preferences, 2-22
  - printer status, 2-19
  - Status Alert window, 2-24
  - stopping monitoring, 2-23
  - Uninstalling, 2-25
- Error message, 5-20
- Error Sheet, 4-32
- ESC/P 2 and FX mode, C-6
- ESCP2 Menu, 4-5, 4-33
- Ethernet interface, A-7

## **F**

- Fonts, 4-33, 4-36
  - adding, C-1
  - available, C-3
  - EPSON BarCode, C-7
  - printer and screen, C-2
  - selecting, C-2
- Font Sample, 4-6
- Form Feed, 2-7, 2-11
- FX Menu, 4-5, 4-36

## **G**

- GL2 Menu, 4-5

## **H**

- Hard Disk Drive
  - installing, D-28
  - removing, D-31
- Hex dump, 5-33

## **I**

- I239X Menu, 4-5, 4-38
- I239X mode, C-7
- Image Optimum, 4-18

- Imaging Cartridge
  - replacing, 3-1
- Indicator lights, 2-7
- Installing
  - Duplex Unit, D-6
  - Envelope Feeder, D-24
  - Hard Disk Drive, D-28
  - Large Capacity Paper Unit, D-1
- Item, 2-10

## **J**

- Jams
  - clearing, 5-2
- Join, 4-31

## **L**

- Label, 1-1
- Lang, 4-19
- Large Capacity Paper Unit, 1-9, D-1
  - installing, D-1
  - loading paper, 1-10
  - removing, D-4
  - specification, A-8
- LCD panel, 2-6
- Left Offset, 4-16
- LF Function, 4-29
- Lights, 2-7
- LJ4/GL2 mode, C-5
- LJ4 Menu, 4-5, 4-27
- Loading paper, 1-3
  - custom paper size, 1-11
  - Large Capacity Paper Unit, 1-9
  - lower cassette, 1-5
  - manually, 1-11
  - MP tray, 1-3
- L Offset B, 4-17
- Lower cassette, 1-5

## **M**

- Mail Box Menu, 4-13
- Manual feed, 2-13
- M-Box Password Menu, 4-20

Memory Modules, D-27  
Menu, 2-9  
Message, 5-20  
Modes  
    ESCP2 emulation, 4-33  
    I239X, 4-38  
    Offset stacking Mode, 1-23  
    PS3, 4-32  
    toner save, 4-15  
MP Mode, 4-12  
MP tray, 1-3  
MP tray size, 2-14, 4-13  
Multibin Unit, 1-25, D-11  
    installing, D-11  
    removing, D-16  
    specification, A-10  
    using, 1-26

## **N**

Network Menu, 4-4, 4-23  
Network status sheet, 4-6

## **O**

OneTouch modes  
    mode 1, 2-8, 2-12  
    mode 2, 2-8, 2-13  
    using, 2-12  
Online, 2-7, 2-11  
Option, A-7  
Orientation, 2-13, 4-9  
Origin, 4-31  
Out Bin, 4-9

## **P**

Page Protect, 4-17  
Page Size, 2-13, 4-9, A-4  
Paper  
    size selection, 1-13  
    specification, A-3  
Paper Source, 1-10, 1-13, 2-13, 4-8  
Paper Type, 1-1  
    colored paper, 1-2, 1-2

    envelopes, 1-2  
    labels, 1-1  
    transparencies, 1-2  
    transparency, 1-2  
Parallel Menu, 4-4, 4-21  
Password  
    changing, 1-27  
    disabling, 1-26  
    enabling, 1-26  
    entering, 1-27  
    entering for Confidential Job, 1-21  
    for Confidential Job, 1-20  
Pitch, 4-34, 4-36  
Precautions  
    laser printer, 1  
Printable area, A-5  
Printer, A-1  
    driver, 2-1  
    problems, 5-1  
Printer driver, 1-13  
    Uninstalling, 2-2  
Printing Menu, 4-4, 4-7  
Problems, 5-1  
    operation, 5-12  
    printer, 5-1  
    printer option, 5-19  
    print quality, 5-15  
PS3 Menu, 4-5, 4-32

## **Q**

Quick Print Job Menu, 1-16, 4-20

## **R**

Removing  
    Duplex Unit, D-9  
    Envelope Feeder, D-26  
    Hard Disk Drive, D-31  
    Multibin Unit, D-16  
    Shifter, D-22  
Replacing  
    Imaging Cartridge, 3-1  
Re-Print Job, 1-15  
Reserve Job, 1-14

- Confidential Job, 1-19
- Re-Print Job, 1-15
- Stored Job, 1-18
- Verify Job, 1-17
- Reserve Job list, 4-6
- Reset, 2-11, 5-33
- Reset All, 5-33
- Resolution, 4-10
- RItech, 2-13, 4-15

## **S**

- Safety
  - laser printer precautions, 1
- Scale, 4-30
- SelecType
  - button, 2-9
  - light, 2-7
  - menu, 4-3
  - setting, 4-2
  - using, 4-1
- SelecType Init., 4-20
- Serial Menu, 4-23
- Setup Menu, 4-4, 4-18
- Shifter, D-19
  - installing, D-19
  - removing, D-22
- Size Ignore, 4-17
- Skip Blank Page, 4-10
- Source SymSet, 4-29
- Speed, 4-21
- Start Page, 4-10
- Status sheet, 4-6
- Stored Job, 1-18
- Symbol sets
  - ESC/P2 mode, B-5
  - FX mode, B-5
  - I239X mode, B-7
  - international character sets, B-6
  - introduction, B-1
  - ISO sets, B-4
  - LJ4 mode, B-2

## **T**

- T. Margin, 4-34, 4-37
- Technical support, E-1
- Test Menu, 4-4, 4-6
- Text, 4-37
- Time Out, 4-18
- T Offset B, 4-16
- Toner, 4-19
- Toner Save, 2-14, 4-15
- Top Offset, 4-16
- Total Pages, 4-19
- Transparencies, 1-2
- Transparency, 1-2
- Transporting printer, 6-2
- Tray Menu, 4-4, 4-11
- Troubleshooting
  - error message, 5-20
  - paper jam, 5-2
  - print quality, 5-15

## **U**

- Using
  - Duplex Unit, 1-24
  - Envelope Feeder, 1-29
  - Multibin Unit, 1-26
  - OneTouch mode, 2-12
  - Reserve Job, 1-14
  - SelecType, 4-1

## **V**

- Value, 2-10
- Verify Job, 1-17

## **W**

- Wide A4, 4-9

## **Z**

- ZeroChar, 4-35, 4-38