

## ***Setup Sheet***

Provides you with information on assembling the printer and installing the printer software.

## ***Reference Guide (this manual)***

Provides you with detailed information on the printer's functions, optional products, maintenance, troubleshooting, and technical specifications.

## ***Administrator's Guide***

Provides network administrators with information on both the printer driver and network settings.



*Color Laser Printer*

# EPSON AcuLaser™ C1900

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, mechanical, photocopying, recording, or otherwise, without the prior written permission of SEIKO EPSON CORPORATION. No patent liability is assumed with respect to the use of the information contained herein. Neither is any liability assumed for damages resulting from the use of the information contained herein.

Neither SEIKO EPSON CORPORATION nor its affiliates shall be liable to the purchaser of this product or third parties for damages, losses, costs, or expenses incurred by purchaser or third parties as a result of: accident, misuse, or abuse of this product or unauthorized modifications, repairs, or alterations to this product, or (excluding the U.S.) failure to strictly comply with SEIKO EPSON CORPORATION's operating and maintenance instructions.

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

EPSON and EPSON ESC/P are registered trademarks and EPSON ESC/P 2 is a trademark of SEIKO EPSON CORPORATION.

**General Notice:** Other product names used herein are for identification purposes only and may be trademarks of their respective owners. EPSON disclaims any and all rights in those marks.

Copyright © 2002 by SEIKO EPSON CORPORATION, Nagano, Japan



---

# Contents

## *Contents*

---

Warnings, Cautions, and Notes . . . . .	15
Safety Precautions . . . . .	15
Important Safety Instructions . . . . .	18
Power On/Off Cautions . . . . .	18

## *Chapter 1 Product Information*

---

### *Chapter 1 Printer Parts*

---

Options and Consumable Products . . . . .	24
Options . . . . .	24
Consumable products . . . . .	26
About Your Printer . . . . .	27
Reserve Job function . . . . .	27
HDD Form Overlay function . . . . .	27
Pre-defined color settings in printer driver . . . . .	27
Duplex printing . . . . .	28
Resolution Improvement Technology (RITech) . . . . .	28

### *Chapter 2 Paper Handling*

---

Available Paper . . . . .	29
EPSON special media . . . . .	29
General paper . . . . .	31
Paper that should not be used . . . . .	31
Paper Sources . . . . .	33
MP tray . . . . .	33
500-Sheet Paper Cassette Unit . . . . .	34
Selecting a paper source . . . . .	34

Output Tray .....	37
Loading Paper .....	38
MP tray .....	38
Optional Lower Cassette .....	40
Printing on Special Media .....	41
EPSON Color Laser Paper .....	42
EPSON Color Laser Coated Paper .....	42
EPSON Color Laser Transparencies .....	43
Envelopes .....	44
Labels .....	46
Thick paper .....	47
Loading a custom paper size .....	47

---

### ***Chapter 3 Using the Printer Software with Windows***

---

About the Printer Software .....	49
Accessing the Printer Driver .....	49
Making Changes to Printer Settings .....	50
Making the print quality setting .....	50
Resizing printouts .....	56
Modifying the print layout .....	58
Using a watermark .....	61
Using an overlay .....	64
Using HDD form overlay .....	70
Printing with the Duplex Unit .....	72
Making Extended Settings .....	74
Using the Reserve Job Function .....	77
Re-Print Job .....	78
Verify Job .....	80
Stored Job .....	81
Confidential Job .....	82
Monitoring Your Printer by Using EPSON Status Monitor 3 .....	84
Installing EPSON Status Monitor 3 .....	84
Accessing EPSON Status Monitor 3 .....	88
Getting printer status details .....	89
Using the Job Management function .....	90
Setting Monitoring Preferences .....	95
Status Alert window .....	97

Stopping monitoring. ....	97
Setting Monitored Printers. ....	97
Setting for the USB Connection ....	98
Canceling Printing. ....	100
Uninstalling the Printer Software ....	101
Uninstalling the printer driver and EPSON Status Monitor 3101	
Uninstalling only EPSON Status Monitor 3 ....	104

---

## ***Chapter 4 Using the Printer Software with Macintosh***

---

About the Printer Software. ....	109
Accessing the Printer Driver. ....	109
Making Changes to Printer Settings ....	110
Making the print quality setting ....	110
Resizing printouts. ....	115
Modifying the print layout ....	116
Using a watermark ....	119
Printing with the Duplex Unit. ....	125
Making Extended Settings. ....	126
Using the Reserve Job Function ....	128
Re-Print Job ....	129
Verify Job ....	131
Stored Job ....	132
Confidential Job. ....	134
Monitoring Your Printer by using EPSON Status Monitor 3. . .	135
Accessing the EPSON Status Monitor 3. ....	135
Getting printer status details. ....	136
Setting Monitoring Preferences. ....	138
Status Alert window. ....	139
Using the Job Management function ....	139
Setting for the USB connection. ....	141
Canceling Printing. ....	142
Uninstalling the Printer Software ....	142

---

## ***Chapter 5 Setting Up Your Printer on a Network***

---

For Windows. ....	145
-------------------	-----

Sharing the printer . . . . .	145
Setting up your printer as a shared printer . . . . .	146
Using an additional driver . . . . .	148
Setting for the clients . . . . .	154
Installing the printer driver from the CD-ROM . . . . .	162
For Macintosh . . . . .	164
About the shared printer. . . . .	164
Setting up your printer as a shared printer . . . . .	164
Accessing the shared printer . . . . .	166

---

## ***Chapter 6 Installing Options***

---

500-Sheet Paper Cassette Unit. . . . .	169
Duplex Unit . . . . .	175
Hard Disk Drive . . . . .	181
Memory Module . . . . .	186
Adobe PostScript 3 ROM Module . . . . .	190
Interface Cards . . . . .	193
Printing a Status Sheet . . . . .	196

---

## ***Chapter 7 Functions of the Control Panel***

---

Using the Control Panel Menus . . . . .	199
When to make control panel settings . . . . .	199
How to access the control panel menus . . . . .	199
Printing and Deleting Reserve Job Data . . . . .	201
Using the Quick Print Job Menu . . . . .	201
Using the Confidential Job Menu . . . . .	202
Control Panel Menus . . . . .	203
Control panel menu summary. . . . .	203
Information Menu . . . . .	205
Status Menu . . . . .	208
Tray Menu. . . . .	208
Emulation Menu. . . . .	210
Printing Menu. . . . .	210
Setup Menu. . . . .	213
Quick Print Job Menu . . . . .	218



Confidential Job Menu . . . . .	219
Reset Menu. . . . .	219
Parallel Menu. . . . .	221
USB Menu. . . . .	222
Network Menu . . . . .	223
AUX Menu . . . . .	223
LJ4 Menu . . . . .	224
GL2 Menu. . . . .	227
PS3 Menu . . . . .	229
ESCP2 Menu . . . . .	230
FX Menu . . . . .	233
I239X Menu . . . . .	235

---

## ***Chapter 8 Replacing Consumable Products***

---

Precautions During Replacement . . . . .	239
Replacement Messages . . . . .	240
Developer Cartridge . . . . .	242
Photoconductor Unit . . . . .	246
Waste Toner Collector . . . . .	250
Transfer Unit. . . . .	253

---

## ***Chapter 9 Cleaning and Transporting the Printer***

---

Cleaning the Printer. . . . .	259
Cleaning the pickup roller . . . . .	259
Cleaning the print head filter . . . . .	261
Transporting the Printer . . . . .	262

---

## ***Chapter 10 Troubleshooting***

---

Clearing Jammed Paper . . . . .	267
Precautions for clearing jammed paper . . . . .	267
Jam A (Cover AB) . . . . .	268
Jam B (Cover AB) . . . . .	271
Jam C (Cover C). . . . .	278

Jam DM (Cover DM) . . . . .	280
Operational Problems. . . . .	282
The Ready light does not turn on . . . . .	282
The printer does not print (Ready light off) . . . . .	282
The Ready light is on but nothing prints . . . . .	282
The optional product is not available . . . . .	284
Printout Problems. . . . .	284
The font will not print . . . . .	284
Printout is garbled . . . . .	284
The printout position is not correct . . . . .	286
Graphics do not print correctly . . . . .	286
The surface is rough (duplex printing, coated paper) . . . . .	286
Color Printing Problems. . . . .	287
Cannot print in color . . . . .	287
The color differs when printed from different printers . . . . .	287
The color looks different from the computer screen . . . . .	287
Print Quality Problems. . . . .	288
The background is dark or dirty . . . . .	288
Black or white bands appear in the printout . . . . .	290
White dots appear in the printout . . . . .	290
Print quality is uneven on the page . . . . .	290
Print quality is uneven (thick or coated paper) . . . . .	291
Half-tone images print unevenly . . . . .	291
Toner smudges . . . . .	291
Areas are missing in the printed image . . . . .	293
Completely blank pages are output . . . . .	293
The printed image is light or faint . . . . .	295
The non-printed side of the page is dirty . . . . .	295
Paper Handling Problems . . . . .	295
Paper does not feed properly . . . . .	295
Status and Error Messages. . . . .	296
Canceling Printing . . . . .	309
Using the Cancel Job button . . . . .	310
Using the Reset Menu . . . . .	310

---

## Appendix A **Technical Specifications**

Available Paper . . . . .	311
---------------------------	-----

Available paper types.....	312
Specifications.....	313
Printable area.....	315
Printer .....	317
General .....	317
Environmental.....	319
Mechanical .....	319
Electrical.....	319
Standards and approvals.....	320
Interfaces .....	322
Parallel interface .....	322
USB interface .....	322
Ethernet interface .....	322
Options and Consumables .....	323
500-Sheet Paper Cassette Unit.....	323
Duplex Unit .....	323
Memory module .....	324
IEEE 1394 Interface (for Macintosh only).....	325
Hard Disk Drive .....	325
Developer cartridges.....	325
Photoconductor unit.....	326
Transfer unit.....	326
Waste toner collector.....	327

## *Appendix B*   **Symbol Sets**

---

Introduction to Symbol Sets .....	329
In the LJ4 Emulation Mode.....	330
International character sets for ISO .....	333
In the ESC/P 2 or FX Modes.....	334
International character sets .....	335
Characters available with the ESC (^ command).....	336
In the I239X Emulation Mode.....	336
In the EPSON GL/ 2 Mode.....	337

## *Appendix C*   **Working with Fonts**

---

EPSON BarCode Fonts (Windows Only) . . . . .	339
System requirements. . . . .	341
Installing EPSON BarCode Fonts . . . . .	341
Printing with EPSON BarCode Fonts. . . . .	342
BarCode Font specifications. . . . .	347
Available Fonts . . . . .	358
LJ4/GL2 mode. . . . .	359
ESC/P 2 and FX modes . . . . .	361
I239X mode. . . . .	361
Printing font samples . . . . .	362
Adding More Fonts . . . . .	362
Selecting Fonts . . . . .	363
Downloading Fonts . . . . .	363
EPSON Font Manager (Windows Only) . . . . .	363
Installing EPSON Font Manager. . . . .	364
Available Fonts . . . . .	366
LJ4/GL2 mode. . . . .	366
ESC/P 2 and FX modes . . . . .	368
I239X mode. . . . .	369
Printing font samples . . . . .	369
Adding More Fonts . . . . .	370
Selecting Fonts . . . . .	370
Downloading Fonts . . . . .	370
EPSON Font Manager (Windows Only) . . . . .	371
Installing EPSON Font Manager. . . . .	371
Contacting Customer Support . . . . .	373
For users in Latin America. . . . .	374
For users in Australia . . . . .	374
For users in Singapore . . . . .	376
For users in Thailand . . . . .	376
For users in Indonesia. . . . .	377
For users in Hong Kong . . . . .	378
For users in Malaysia . . . . .	379
For users in India. . . . .	380
For users in the Philippines . . . . .	382

---

## ***Appendix D Notice for Windows XP Users***

---

## ***Glossary***

---





---

## Warnings, Cautions, and Notes



**Warnings** must be followed carefully to avoid bodily injury.



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

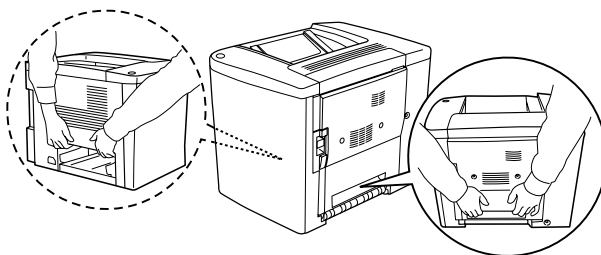
**Notes** contain important information and useful tips on the operation of your printer.

---

## Safety Precautions

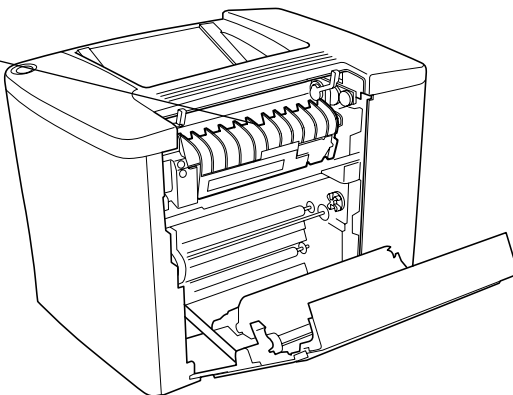
Be sure to follow these precautions carefully to ensure safe, efficient operation:

- ❑ Because the printer weighs approximately 30 kg (66.1 lb), one person should not lift or carry it. Two people should carry the printer, lifting it by the correct positions as shown below.



- ❑ Unless specifically instructed in this guide, be careful not to touch the fuser, which is marked CAUTION Hot Surface Avoid Contact, or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.

Unless specifically instructed in this guide, do not insert your hand into the fuser unit, as it may be very hot.



- ❑ Do not insert your hand into the fuser unit as some components are sharp and may cause injury.
- ❑ Avoid touching 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.
- ❑ When handling developer cartridges or photoconductor units, always place them on a clean, smooth surface.
- ❑ Do not attempt to modify developer cartridges or take them apart. They cannot be refilled.
- ❑ Do not touch the toner. Keep the toner away from your eyes.



- ❑ Do not dispose of used developer cartridges, waste toner collectors or photoconductor units in fire, as they can explode and cause injury. Dispose of them according to local regulations.
- ❑ Wait at least one hour before using a developer cartridge or a photoconductor unit after moving it from a cool to a warm environment to prevent damage from condensation.
- ❑ When removing the photoconductor unit, avoid exposing it to light for more than 5 minutes. The unit contains a green-colored light-sensitive drum. Exposure to light can damage the drum, causing dark or light areas to appear on the printed page and reducing the service life of the drum. If you need to keep the unit out of the printer for long periods, cover it with an opaque cloth.
- ❑ Be sure not to scratch the surface of the photoconductor unit's drum. When you remove the photoconductor unit from the printer, always place the unit on a clean, smooth surface. Avoid touching the drum, since oil from your skin can permanently damage its surface and affect print quality.
- ❑ To get the best print quality, do not store the photoconductor unit in an area subject to direct sunlight, dust, salty air, or corrosive gases (such as ammonia). Avoid locations subject to extreme or rapid changes in temperature or humidity.
- ❑ Be sure to keep all consumable components out of the reach of children.
- ❑ Do not leave jammed paper inside the printer. This can cause the printer to overheat.
- ❑ Avoid sharing outlets with other appliances.
- ❑ Use only an outlet that meets the power requirements of this printer.

---

## ***Important Safety Instructions***

- ❑ Connect your printer to an electrical outlet that meets the power requirements of this printer. Your printer's power requirements are indicated on a label attached to the printer. If you are not sure of the power supply specifications in your area, contact your local power company or consult your dealer.
- ❑ If you are unable to insert the AC plug into the electrical outlet, contact an electrician.
- ❑ Adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage that requires repair by a qualified service representative.

### ***ENERGY STAR® Compliance***



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

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

---

## ***Power On/Off Cautions***

Do not turn off the printer:

- ☐ For at least 180 seconds after turning on the printer. Wait until Ready appears on the LCD panel.
- ☐ While the Ready light is flashing
- ☐ While the Data light is on or flashing
- ☐ While printing

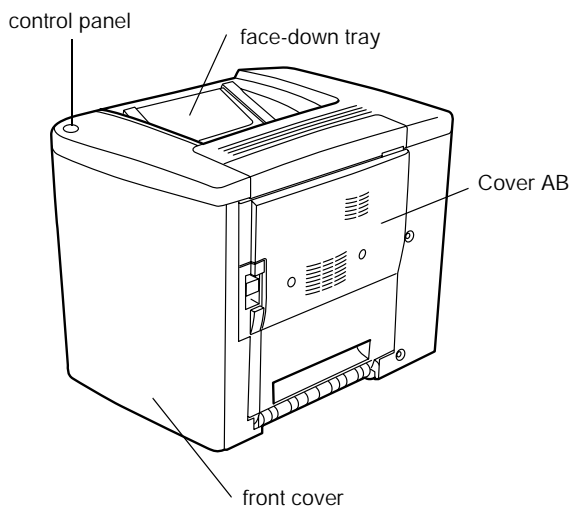


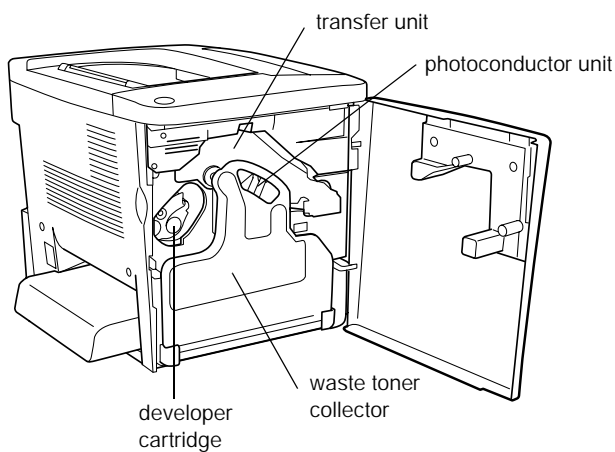
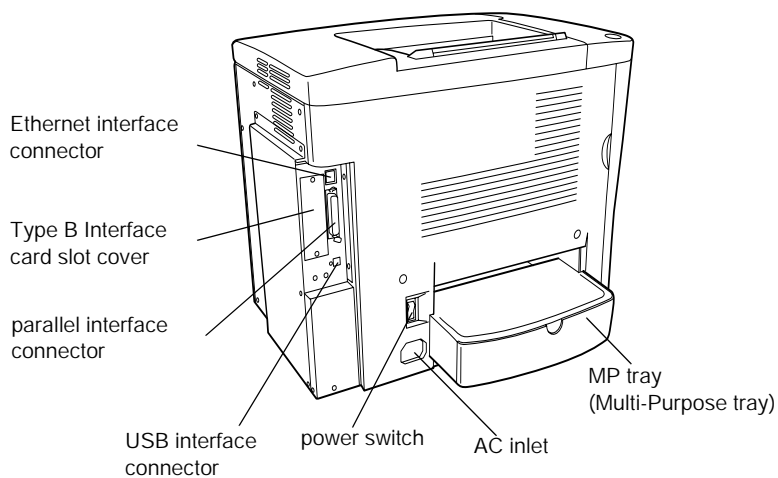
---

# Product Information

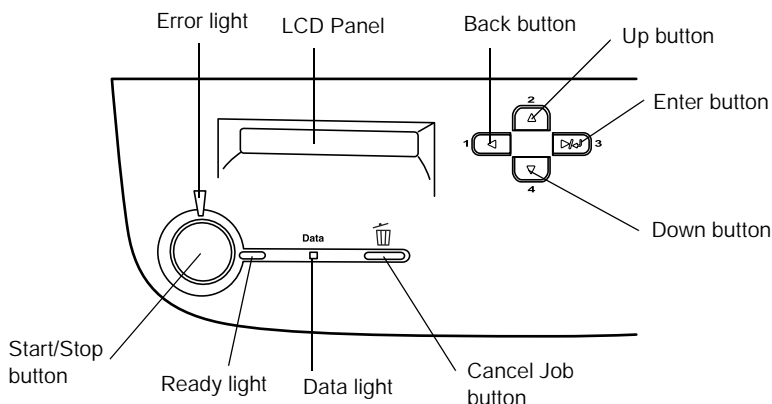
---

## Printer Parts





## Control panel



LCD panel	Displays printer status messages and control panel menu settings
Back button	Use these buttons to access the control panel menus, where you can make printer settings and check the status of consumable products. For instructions on how to use these buttons, see “Using the Control Panel Menus” on page 199.
Up button	
Enter button	
Down button	
Cancel Job button	Press once to cancel the current print job. Press and hold for more than two seconds to delete all jobs from the printer memory, including jobs the printer is currently receiving, saving to the Hard Disk Drive, or printing.

Data light (Yellow)	On when print data is stored in the print buffer (the section of printer memory reserved for receiving data) but not yet printed Flashes when the printer is processing data Off when no data remains in the print buffer
Ready light (Green)	On when the printer is ready, indicating that the printer is ready to receive and print data Off when the printer is not ready
Start/Stop button	When the printer is printing, pressing this button stops the printing. When the error light is flashing, pressing this button clears the error and switches the printer to ready status.
Error light (Red)	On or flashes when an error has occurred

---

## ***Options and Consumable Products***

### ***Options***

You can add to your printer's capabilities by installing any of the following options.

- ❑ The 500-Sheet Paper Cassette Unit (C12C813911) holds one paper cassette. It increases paper-feeding capacity up to 500 sheets of paper.



- ❑ The Duplex Unit (C12C813921) provides for automatic printing on both sides of the paper.
- ❑ The Hard Disk Drive (C12C823921) expands the printer's capacity by allowing you to expand the printer's receive buffer when the Ethernet interface is used and to print complex and large print jobs at high speed.
- ❑ An optional memory module expands your printer's memory, allowing you to print complex and graphics-intensive documents.
- ❑ The Adobe® PostScript® 3™ ROM Module (C12C832531) allows your printer to print documents in the PostScript printing language. It cannot be used for a Macintosh® connected with an IEEE 1394 Type B Interface Card.
- ❑ The IEEE 1394 Type B Interface Card (C12C82372\*) can be used for Macintosh users. It can be connected to a Macintosh FireWire® port.
- ❑ You can install various optional interface cards to supplement your printer's built-in parallel, USB, and Ethernet interfaces to provide added network compatibility.

**Note:**

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

## Consumable products

The life of the following consumable products is monitored by the printer. The printer lets you know when replacements are needed.

Developer Cartridge (Black)	S050100
Developer Cartridge (Yellow)	S050097
Developer Cartridge (Magenta)	S050098
Developer Cartridge (Cyan)	S050099
Photoconductor Unit	S051083
Waste Toner Collector	S050101
Transfer Unit	S053009

The EPSON special media listed below provide you with best-quality printouts.

EPSON Color Laser Paper (A4)	S041215
EPSON Color Laser Paper (Letter)	S041218
EPSON Color Laser Transparencies (A4)	S041175
EPSON Color Laser Transparencies (Letter)	S041174
EPSON Color Laser Coated Paper (A4)	S041383



### **Caution:**

- ❑ *Do not use other EPSON media such as EPSON special media for ink jet printers, as they can cause paper jams and damage the printer.*
- ❑ *Do not use the media listed above in any other printers, except when specified in the documentation.*

---

## **About Your Printer**

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.

### ***Reserve Job function***

The Reserve Job function lets you store a print job on the printer's Hard Disk Drive and reprint it directly from the printer's control panel at any time without using your computer. You can also print one copy in order to verify the content before printing multiple copies. If the content of the print job is confidential, you can set a password to limit access to it. For more information, see "Using the Reserve Job Function" on page 77 for Windows, or "Using the Reserve Job Function" on page 128 for Macintosh.

***Note:***

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

### ***HDD Form Overlay function***

Enables faster printing with form overlays by allowing you to save the overlay data on the optional Hard Disk Drive instead of your computer. This feature is only available for Windows. For details, see "Using HDD form overlay" on page 70.

### ***Pre-defined color settings in printer driver***

The printer driver offers many pre-defined settings for color printing, allowing you to optimize print quality for various types of color documents.

For Windows, see “Using the predefined settings” on page 51. For Macintosh, see “Using the predefined settings” on page 111.

## ***Duplex printing***

EPSON provides optional Duplex Unit, allowing you to easily print on both sides of the page. You can produce professional quality double-sided documents. Use this feature with any print job to cut costs and save resources.

## ***Resolution Improvement Technology (RITech)***

Resolution Improvement Technology (RITech) is an original EPSON printer technology that improves the appearance of printed lines, text, and graphics. RITech is also applied to color printing.

# **Paper Handling**

---

## **Available Paper**

---

This section explains what kind of paper you can use with your printer. Avoid using paper not mentioned in this section.

**Note:**

*The printer is extremely sensitive to moisture. Be sure to store your paper in a dry environment.*

## **EPSON special media**

EPSON provides special media that are created especially for this printer.

### **EPSON Color Laser Paper**

This media is designed specifically for this printer. You can load this media from the MP tray and the optional 500-Sheet Paper Cassette Unit.

S041215 (A4)

S041218 (Letter)

### **EPSON Color Laser Transparencies**

This media is designed specifically for this printer. You can load this media only from the MP tray.

S041175 (A4)

S041174 (Letter)

**Caution:**

- ❑ *Do not use other EPSON media such as EPSON special media for ink jet printers, as they can cause paper jams and damage the printer.*
- ❑ *Do not use the media listed above in any other printers, except when specified in the documentation.*

**EPSON Color Laser Coated Paper**

EPSON Color Laser Coated Paper is designed specifically for this printer. This media is thicker than EPSON Color Laser Paper and produces glossier and higher quality printing. To print on EPSON Color Laser Coated Paper, choose Coated or Coated (Back) as the Paper Type setting. This setting is optimized for printing on coated paper, but paper can only be fed from the MP tray.

S041383 (A4)

**Note:**

*Duplex printing using the optional Duplex Unit is not possible when Thick or Thick (Back) is selected as the Paper Type setting in the printer driver.*

## General paper

You can use the following paper in addition to the EPSON special media introduced in the previous section.

Paper Type	Description
Plain paper	Recycled paper is acceptable.* Weight: 60 to 90 g/m <sup>2</sup> (16 to 24 lb)
Envelopes	No paste and no tape No plastic window (unless specifically designed for laser printers)
Labels	The backing sheet should be covered completely, with no gaps between labels.**
Thick paper	Weight: 91 to 163 g/m <sup>2</sup> (24 to 43lb)
Colored paper	Non-coated

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

\*\* Gaps between labels may cause the labels to peel off inside the printer and damage the printer.

### **Note:**

- ❑ *Since the quality of any particular brand or type of media may be changed by the manufacturer at any time, EPSON cannot guarantee the quality of any type of media. Always test samples of media stock before purchasing large quantities or printing large jobs.*
- ❑ *You may use paper with preprinted letterheads, provided that the paper and ink are both compatible with laser printers.*

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

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

- ☐ Media meant for other color laser printers, black-and-white laser printers, color copiers, black-and-white copiers, or ink jet printers
- ☐ Previously printed paper by any other color laser printers, black-and-white laser printers, color copiers, black-and-white copiers, ink jet printers, or thermal transfer printers
- ☐ Carbon paper, carbonless paper, thermal-sensitive paper, pressure-sensitive paper, acid paper, or paper that uses high-temperature-sensitive ink (around 180°C)
- ☐ Labels that peel easily or labels that do not cover the backing sheet completely
- ☐ Coated paper or special surface-colored paper other than EPSON Color Laser Coated Paper
- ☐ Paper that has binder holes or is perforated
- ☐ Paper that has glue, staples, paper clips, or tape on it
- ☐ Paper that attracts static electricity
- ☐ Moist or damp paper
- ☐ Paper of uneven thickness
- ☐ Overly thick or thin paper
- ☐ Paper that is too smooth or too rough
- ☐ Paper that is different on the front and back
- ☐ Paper that is folded, curled, wavy, or torn
- ☐ Paper of irregular shape, or paper that does not have right angle corners



---

## Paper Sources

This section describes the combinations of paper sources and paper types that you can use.

### ***MP tray***

Paper Type	Paper Size	Capacity
Plain paper, EPSON Color Laser Paper	A4, A5, B5, Letter (LT), Half-Letter (HLT), Executive (EXE), Government Letter (GLT)  Custom-size paper: 92 × 210 mm minimum 216 × 297 mm maximum	Up to 200 sheets (Total thickness: 23 mm maximum)
Envelopes	Monarch (MON), C10, DL, C6, C5, IB5	Up to 10 envelopes
Labels	92 × 148 mm minimum 216 × 297 mm maximum	Up to 50 sheets
Thick paper	92 × 148 mm minimum 216 × 297 mm maximum	Up to 50 sheets
EPSON Color Laser Transparencies	A4, Letter (LT)	Up to 50 sheets
EPSON Color Laser Coated Paper	A4, Letter (LT)	Up to 50 sheets

\* All sizes should be loaded short edge first.

## ***500-Sheet Paper Cassette Unit***

<b>Paper Type</b>	<b>Paper Size</b>	<b>Capacity</b>
Plain paper	A4	Up to 500 sheets (Total thickness: less than 57 mm)

### ***Selecting a paper source***

You can specify a paper source manually, or set the printer to select the paper source automatically.

#### ***Manual selection***

You can use the printer driver or the printer's control panel to select a paper source manually.

##### ☐ Using the printer driver

For Windows, access the printer driver, click the Basic Settings tab, and select the paper source that you want to use from the Paper Source list. Then click OK.

For Macintosh, access the printer driver, open the Basic Settings dialog box, and select the paper source that you want to use from the Paper Source list. Then click OK.

##### ☐ Using the printer's control panel

Access the control panel's Setup Menu, then select **Paper Source** and specify the paper source you want to use.

#### ***Auto selection***

If you want the printer to select the paper source containing the appropriate size of paper automatically, select Auto Selection in the printer driver or **Auto** using the printer's control panel.

The printer will search for a paper source containing the specified paper size in the following order.

*Standard configuration:*

MP tray

**Note:**

- ❑ *If you make paper size settings or paper source settings in your application, these settings may override the printer driver settings.*
- ❑ *If you select an envelope for the Paper Size setting, it can be fed only from the MP tray regardless of the Paper Source setting.*
- ❑ *You can change the priority of the MP tray by using the MP Mode setting in the control panel's Setup Menu. For details, see "Setup Menu" on page 213.*

*With optional 500-Sheet Paper Cassette Unit installed:*

MP tray

Lower cassette

**Note:**

- ❑ *If you make paper size settings or paper source settings in your application, these settings may override the printer driver settings.*
- ❑ *If you select an envelope for the Paper Size setting, it can be fed only from the MP tray regardless of the Paper Source setting.*
- ❑ *You can change the priority of the MP tray by using the MP Mode setting in the control panel's Setup Menu. For details, see "Setup Menu" on page 213.*

## **Manually feeding paper**

Manual feeding is similar to normal paper feeding, except that you need to press the ○ Start/Stop button to print the rest of the pages after the first page is printed. This can be helpful when you want to check the print quality after the first page is printed.

Follow these steps to feed paper manually.

1. Access the printer driver by one of the following methods.
  - ❑ To access the printer driver from your application, select Print or Page Setup from the File menu. You also need to click Setup, Options, Properties, or a combination of these buttons.
  - ❑ To access the printer driver from Windows Me, 98, 95, XP, 2000, or NT 4.0, click Start, point to Settings, and click Printers. Next, right-click the EPSON AL-C1900 Advanced icon and click Properties (in Windows Me, 98, or 95), Printing Preferences (in Windows XP or 2000), or Document Defaults (in Windows NT 4.0).
  - ❑ To access the printer driver from Macintosh, select Print from the File menu on any application or select Chooser from the Apple menu and click the AL-C1900 icon beforehand.
2. For Windows, click the Basic Settings tab, then select the Manual Feed check box. For Macintosh, click the Manual Feed check box on the Basic Settings dialog box.
3. Select the correct paper size from the Paper Size list.
4. If paper of the selected size is already loaded, go on to the next step. Otherwise, remove any paper remaining in the tray. Load a sheet or a stack of the selected size paper with the printable side up. Adjust the paper guides to match the paper size you are loading.

**Note:**

*Load paper into the MP tray and the optional lower cassette with the printable surface facing up.*

5. Print a document from your application. The LCD panel shows Manual Feed and the selected page size.

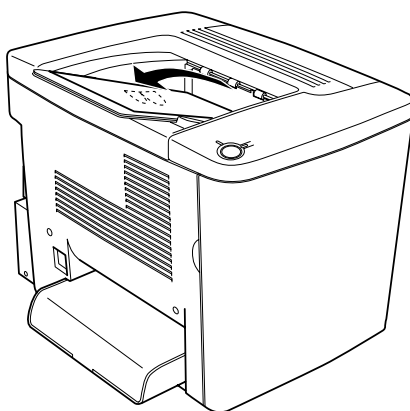
Press the ○ Start/Stop button to print. A sheet of paper is loaded and printed.

---

## ***Output Tray***

The face-down tray is located on the top of the printer. Your printouts will be stacked facing down.

Raise the paper support to prevent your printouts from slipping off the printer.



You can use the face-down tray with the following types of paper.

Paper type: All types of paper that are supported can be used.

Capacity: Up to 200 sheets of plain paper

---

## Loading Paper

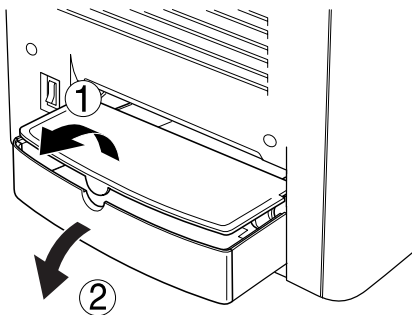
This section describes how to load paper into the MP tray, and the optional lower cassette. If you use special media such as EPSON Color Laser Transparencies or envelopes, see also “Printing on Special Media” on page 41.

### **MP tray**

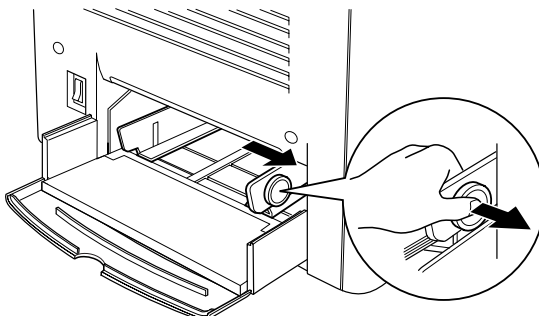
The MP tray is the most flexible paper source, accommodating various paper sizes and media types. It is also the paper source for feeding paper manually. See “MP tray” on page 33 for details.

Follow these steps to load paper into the MP tray.

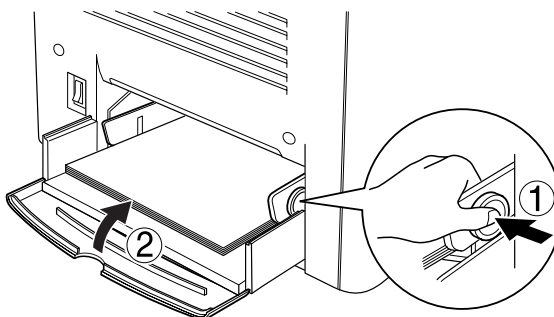
1. Remove the MP tray cover and open the MP tray flap.



2. Pinch the paper guide and tab on the right, then slide the paper guide to the widest position.



3. Load a stack of the desired media on the center of the tray with the printable surface facing up. Then slide the right paper guide against the right side of the stack to obtain a snug fit. The left paper guide also slides toward the center. Then, close the MP tray flap.



4. Set the MP Tray Size in the Tray Menu and the Paper Size in the Printing Menu to match the loaded media through the control panel.

**Note:**

*To print on the back side of previously printed paper, use the MP tray. The optional Duplex Unit cannot be used for this purpose.*

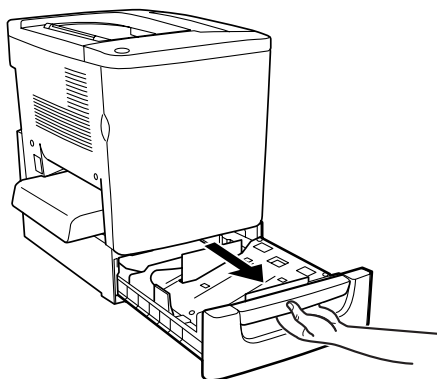
## Optional Lower Cassette

**Note:**

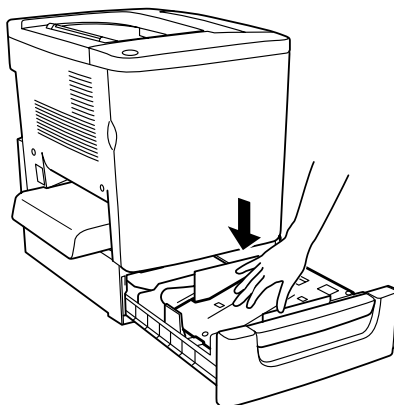
*To use the optional 500-Sheet Paper Cassette Unit, select it in the printer driver's Optional Settings menu after installing it on the printer.*

Follow these steps to load paper into the optional lower cassette.

1. Pull the paper cassette out until it stops.



2. Press down on the metal plate in the cassette until it clicks into place.



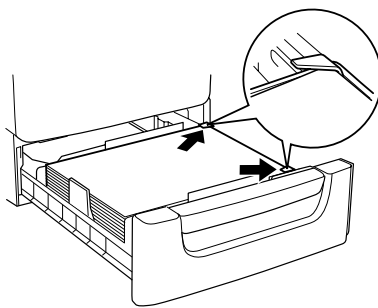


3. Fan a stack of paper, and then tap the edge of the stack against a hard surface until all sheets are even.

**Note:**

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

4. Insert the stack into the cassette, as shown below. Make sure that all the paper is under the metal retaining clip with the printable surface up.



**Note:**

*Loading the cassette with too much paper may cause paper jams.*

5. Push the cassette in all the way.
6. Set the **LC TYPE** setting to match the type of loaded paper through the Tray Menu. For details, see “Tray Menu” on page 208.

---

## ***Printing on Special Media***

You can print on special paper stock such as EPSON Color Laser Paper, EPSON Color Laser Transparencies, EPSON Color Laser Coated Paper, thick paper, envelopes, and labels.

**Note:**

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

## ***EPSON Color Laser Paper***

You can use EPSON Color Laser Paper for the following paper sources.

Paper Source	Capacity
MP tray	up to 200 sheets

## ***EPSON Color Laser Coated Paper***

Printing on EPSON Color Laser Coated Paper produces glossier and higher quality printouts. You can use EPSON Color Laser Coated Paper for the following paper sources.

Paper sources	Paper type settings	Capacity
MP tray	Coated or Coated (Back)	up to 50 sheets

For optimal printing on this media, choose Coated or Coated (Back) as the Paper Type setting.

**Note:**

*When printing on the back side of previously printed paper, select Coated (Back).*

## EPSON Color Laser Transparencies

EPSON recommends the use of EPSON Color Laser Transparencies for presentations or other applications.

**Note:**

*Duplex printing is not enabled with transparencies.*

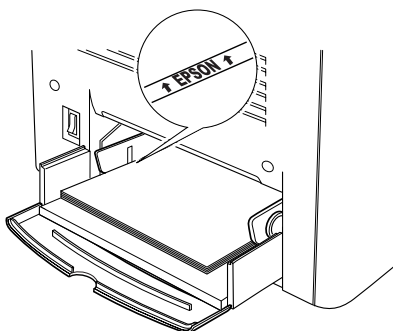
The following table shows important settings you have to make when using EPSON Color Laser Transparencies.

Paper Source	MP tray only (up to 50 sheets)
MP Tray Size setting in the Tray Menu	A4 or LT (Letter)
MP Type setting in the Tray Menu	Transparency
Printer driver settings	Paper Size: A4 or Letter Paper Source: MP tray Paper Type: Transparency

Please note the following tips for handling this media.

- ☐ Hold sheets by their edges, as oil from your fingers may transfer to the surface and damage their printable surfaces. The EPSON logo appears on the printable side.
- ☐ You may have to make the setting Transparency for Paper Type in the Setup Menu.

- ❑ When loading transparencies in the MP tray, insert the short edge first and with the printable surface facing up.



**Caution:**

*Sheets that have just been printed on may be hot.*

## Envelopes

The print quality of envelopes may be irregular because different parts of an envelope have different thicknesses. Print one or two envelopes to check the print quality.



**Caution:**

*Do not use window envelopes unless they are specifically designed for laser printers. The plastic on most window envelopes will melt when it comes into contact with the fuser.*

**Note:**

*Depending on the quality of envelopes, the printing environment, or the printing procedure, envelopes might be wrinkled. Make a trial print run before you print on a lot of envelopes.*

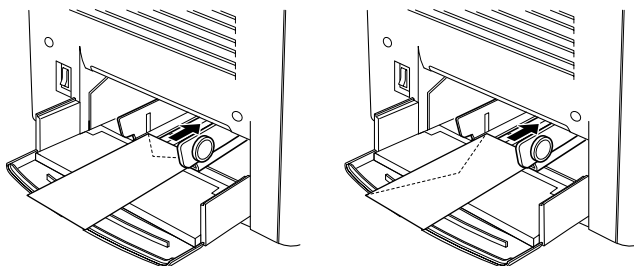
The following table shows important settings you have to make when using envelopes.

Paper Source	MP tray only (up to 10 envelopes)
--------------	-----------------------------------

MP Tray Size setting in the Tray Menu	Mon, C10, DL, C6, C5, IB5
Printer driver settings	Paper Size: Mon, C10, DL, C6, C5 Paper Source: MP tray Paper Type: Envelope

Please note the following tips for handling this media.

- ❑ Load envelopes with the flap closed and facing forward as shown below.

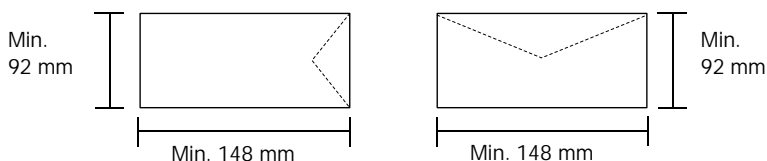


- ❑ Do not use an envelope that has glue or tape on it.

**Caution:**

*Make sure that the minimum size of envelopes meets the following size requirements:*

**Height:**            **92 mm**  
**Width:**            **148 mm**



## Labels

You can load more than one sheet of labels into the MP tray at a time. However, you may need to feed some labels one sheet at a time, or load them manually.

The following table shows important settings you have to make when using labels.

Paper Source	MP tray only (up to 50 sheets)
MP Tray Size setting in the Tray Menu	(Select appropriate size)
Printer driver settings	Paper Size: (Select appropriate size) Paper Source: MP tray Paper Type: Thick

**Note:**

- ☐ *You should only use labels designed for laser printers or plain-paper copiers.*
- ☐ *To prevent the label adhesive from coming into contact with printer parts, always use labels that completely cover the backing sheet, with no gaps between the individual labels.*
- ☐ *Press a sheet of paper on top of each sheet of labels. If the paper sticks, do not use those labels in your printer.*
- ☐ *You may have to make the setting **Thick** for Paper Type in the Setup Menu.*

## ***Thick paper***

The following table shows important settings you have to make when using **Thick**.

Paper Source	MP tray only (up to 50 sheets)
MP Tray Size setting in the Tray Menu	(Select appropriate size)
Printer driver settings	Paper Size: (Select appropriate size) Paper Source: MP tray Paper Type: Thick

## ***Loading a custom paper size***

You can load non-standard size paper into the MP tray as long as it meets the following size and weight requirements:

Plain paper	92 × 210 mm to 216 × 297 mm (3.6 × 8.3 in. to 8.5 × 11.7 in.) (Weight: 60 to 90g/m <sup>2</sup> )
-------------	---

Thick paper, Envelope, Label	92 × 148 mm to 216 × 297 mm (3.6 × 5.8 in. to 8.5 × 11.7 in.) (Weight: 91 to 163g/m <sup>2</sup> )
------------------------------	--

- ❑ For Windows, access the printer driver, then select User-Defined Size from the Paper Size list on the Basic Settings menu. In the User Defined Paper Size dialog box, adjust the Paper Width, Paper Length, and Unit settings to match your custom paper. Then, click OK and your custom paper size will be saved.
- ❑ For Macintosh, access the printer driver, click Custom Size in the Paper Setting dialog box. Then, click New, and adjust the Paper Width, Paper Length, and Margin settings to match your custom paper. Then, enter the setting's name, and click OK to save your custom paper size.

If you cannot use the printer driver as explained above, make this setting at the printer by accessing the control panel's Printing Menu and selecting **CTM** (custom) as the Page Size setting.



---

# ***Using the Printer Software with Windows***

---

---

## ***About the Printer Software***

The printer driver lets you choose from a wide variety of settings to get the best results from your printer. The printer driver also includes the EPSON Status Monitor 3 utility, which is accessed through the Utility menu. The EPSON Status Monitor 3 utility lets you check the status of your printer. See “Monitoring Your Printer by Using EPSON Status Monitor 3” on page 84 for more information.

---

## ***Accessing the Printer Driver***

You can access the printer driver directly from any application programs, from your Windows operating system.

The printer settings made from many Windows applications override the settings made when the printer driver is accessed from the operating system, so you should access the printer driver from your application to make sure that you get the result you want.

### ***Note:***

*The printer driver’s online help provides details on printer driver settings.*

- ❑ To access the printer driver from your application, click the Print or Page Setup command from the File menu. You also need to click Setup, Options, Properties, or a combination of these buttons.

- ❑ To access the printer driver from Windows, click Start, point to Settings, and click Printers. Next, right-click the EPSON AL-C1900 Advanced icon and click Properties (in Windows Me/98/95), Printing Preferences (in Windows XP/2000) or Document Defaults (in Windows NT 4.0).

---

## ***Making Changes to Printer Settings***

### ***Making the print quality setting***

You can change the print quality of printouts through settings in the printer driver. With the printer driver, you can make the print settings by choosing from a list of predefined settings, or customizing the settings.

### ***Choosing the print quality by using the Automatic setting***

You can change the print quality of printouts to favor speed or detail. There are two levels of print output, 300 dpi and 600 dpi. 600 dpi provides high quality, precise printing, but requires more memory and slows the printing speed.

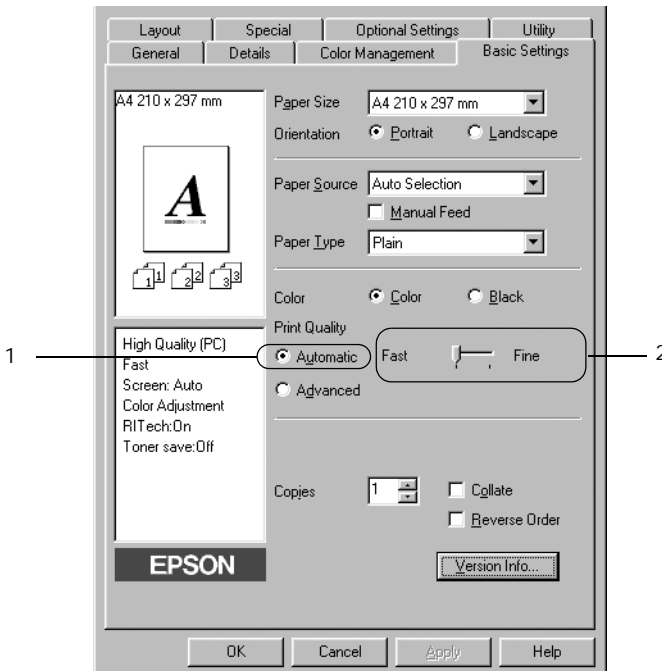
When the Automatic button is selected in the Basic Settings menu, the printer driver takes care of all detailed settings according to the color setting you select. Color and resolution are the only settings you have to make. You can change other settings such as paper size or orientation in most applications.

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

*Online help provides more information on printer driver settings.*

1. Click the Basic Settings tab.

2. Click the Automatic button. Then choose desired printing resolution from Fast (300 dpi) or Fine (600 dpi) with the slider bar.



3. Click OK to accept the setting.

**Note:**

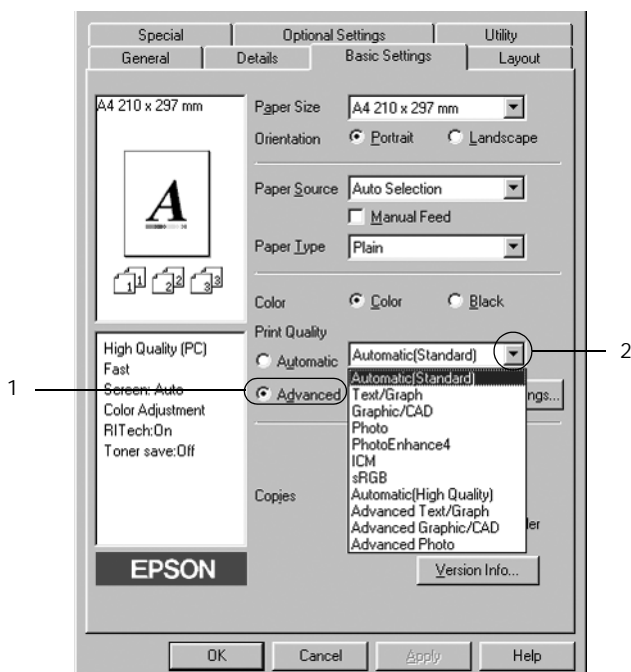
*If printing is unsuccessful or a memory-related error message appears, selecting a lower resolution may allow printing to proceed.*

### **Using the predefined settings**

The predefined settings are provided to help you optimize print settings for a particular kind of printout, such as presentation documents or images taken by a video or digital camera.

Follow these steps to use the predefined settings.

1. Select the Advanced button on the Basic Settings menu. You will find the predefined settings in the list on the right of the Automatic button.



**Note:**

*This screen is a Windows Me, 98 and 95 screen.*

2. Select the most appropriate setting from the list according to the type of document or image you want to print.

When you choose a predefined setting, other settings such as Printing Mode, Resolution, Screen, and Color Management are set automatically. Changes are shown in the current settings list on the left of the Basic Settings menu.

This printer driver provides the following predefined settings:

### **Automatic (Standard)**

Suitable for regular printing, especially photos.

### **Text/Graph**

Suitable for printing documents that include text and graphs, such as presentation documents.

### **Graphic/CAD**

Suitable for printing graphics and charts.

### **Photo**

Suitable for printing photos.

### **PhotoEnhance4**

Suitable for printing video captures, images taken with a digital camera, or scanned images. EPSON PhotoEnhance4 automatically adjusts the contrast, saturation, and brightness of the original image data to produce sharper, more vivid color printouts. This setting does not affect your original image data.

### **ICM (Except for Windows NT 4.0)**

ICM stands for Image Color Matching. This feature automatically adjusts printout colors to match colors on your screen.

### **sRGB**

When using equipment which supports sRGB, the printer performs Image Color Matching with these pieces of equipment before printing. To confirm that your equipment supports sRGB, contact your equipment dealer.

### **Automatic (High Quality)**

Suitable for printing high-quality printing documents.

### **Advanced Text/Graph**

Suitable for printing high-quality presentation documents that include text and graphs.

## Advanced Graphic/CAD

Suitable for printing high-quality graphs, charts, and photos.

## Advanced Photo

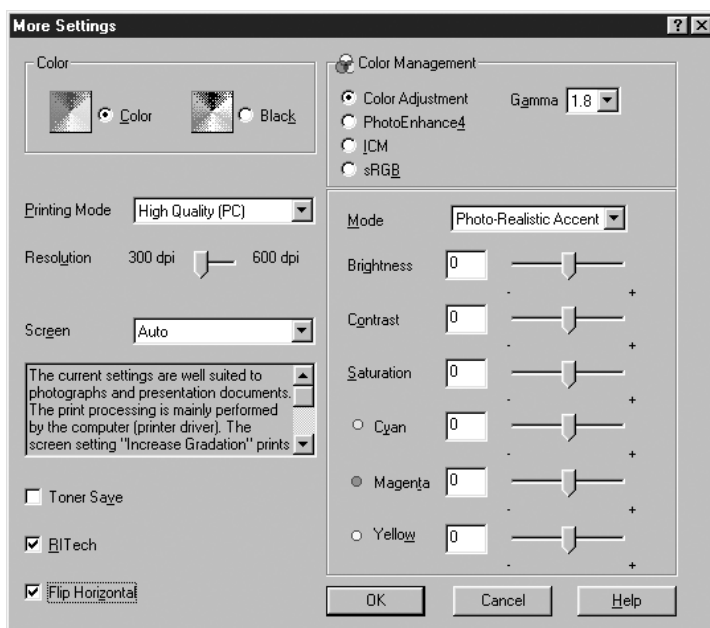
Suitable for printing high-quality scanned photos and digitally-captured images.

## Customizing print settings

If you need to change detailed settings, make the settings manually.

Follow these steps to customize your print settings.

1. Click the Advanced button in the Basic Settings menu, then click More Settings. The following dialog box appears.



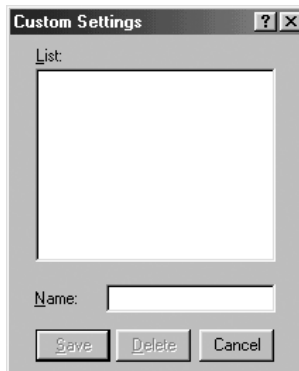
**Note:**

*This screen is a Windows Me, 98, and 95 screen.*

2. Choose Color or Black as the Color setting.
3. Choose desired printing resolution from 300 dpi or 600 dpi with the Resolution slider bar, then make other settings. For details on each settings, see online help.
4. Click OK to apply your settings and return to the Basic Settings menu. Click Cancel to return to the Basic Settings menu without applying your settings.

*Saving your settings*

To save your custom settings, click the Advanced button and click Save Settings on the Basic Settings menu. The Custom Settings dialog box appears.



Type a name for your custom settings in the Name box, and click Save. Your settings will appear in the list to the right of the Automatic button in the Basic Settings menu.

**Note:**

- ❑ *You cannot use a predefined setting name for your custom settings.*

- ❑ *To delete a custom setting, click the **Advanced** button and click **Save Settings** in the **Basic Settings** menu, select the setting in the **Custom Settings** dialog box and then click **Delete**.*
- ❑ *You cannot delete predefined settings.*

If you change any setting in the More Settings dialog box when one of your custom settings is selected in the Advanced Settings list on the Basic Settings menu, the setting selected in the list changes to Custom Settings. The custom setting that was previously selected is not affected by this change. To return to your custom setting, simply reselect it from the current settings list.

## ***Resizing printouts***

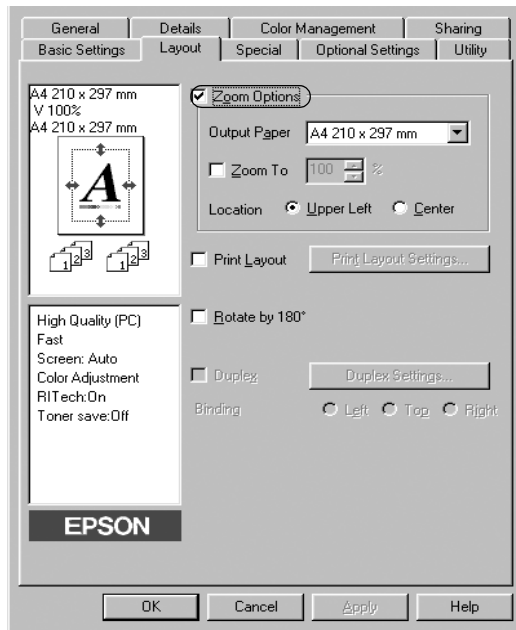
You can have your document enlarged or reduced during printing.

### ***To automatically resize pages to fit the output paper***

1. Click the Layout menu.



2. Select the Zoom Options check box.

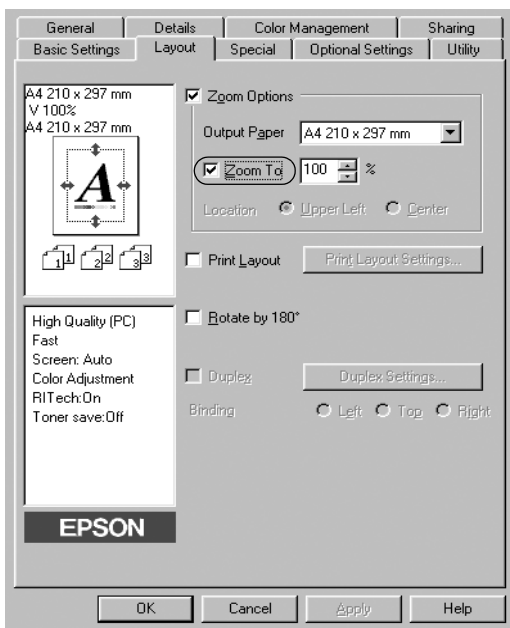


3. Select the desired paper size from the Output Paper drop-down list. The page will be printed to fit on the paper you have selected.
4. Click the Upper Left button (to print reduced page image at upper left corner of the paper) or the Center button (to print reduced page image with centering) for Location setting.
5. Click OK to accept the settings.

***To resize pages by a specified percentage:***

1. Click the Layout menu.
2. Select the Zoom Options check box.

3. Select the Zoom To check box.



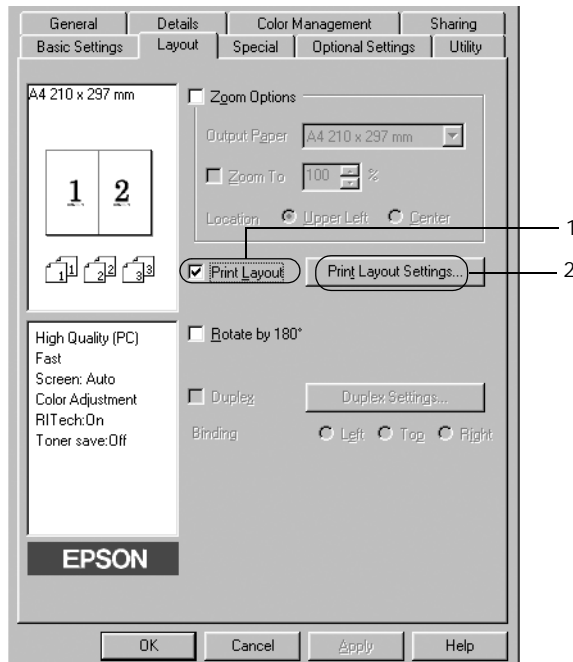
4. Specify the magnification percentage in the box, then click OK. The percentage can be set between 50% and 200% in 1% increments.

If necessary, select the paper size to be printed from the Output Paper drop-down list.

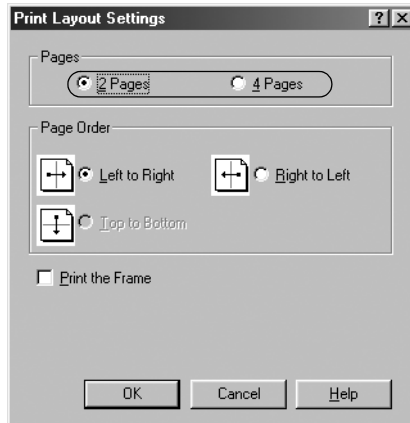
## ***Modifying the print layout***

Your printer can print either two or four pages onto a single page and specifies the printing order, automatically resizing each page to fit the specified paper size. You can also choose to print documents surrounded by a frame.

1. Click the Layout menu.
2. Select the Print Layout check box, and click Print Layout Settings. The Print Layout Settings dialog box appears.



3. Select the number of pages you want to print on one sheet of paper.



4. Select the Page Order in which the pages are printed on each sheet. Select the Print the Frame check box when you want to print the pages surrounded by a frame.

**Note:**

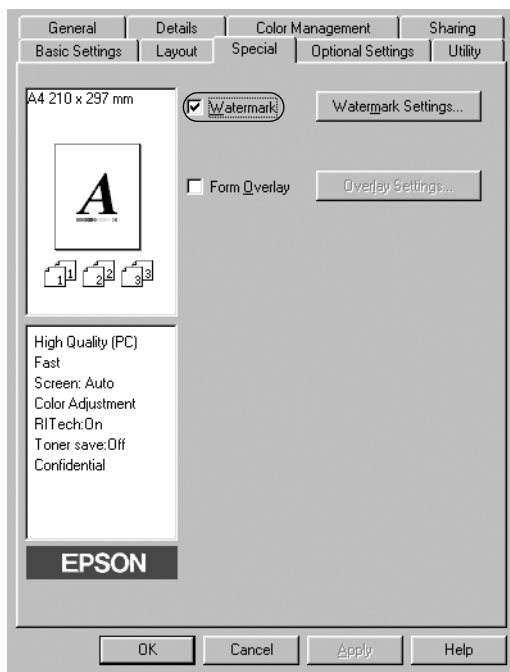
*The Page Order choices depend on the number of pages selected above, and the paper orientation (Portrait or Landscape) selected on the Basic Settings menu.*

5. Click OK to close the Print Layout Settings dialog box.
6. Click OK on the Layout menu to accept the settings.

## Using a watermark

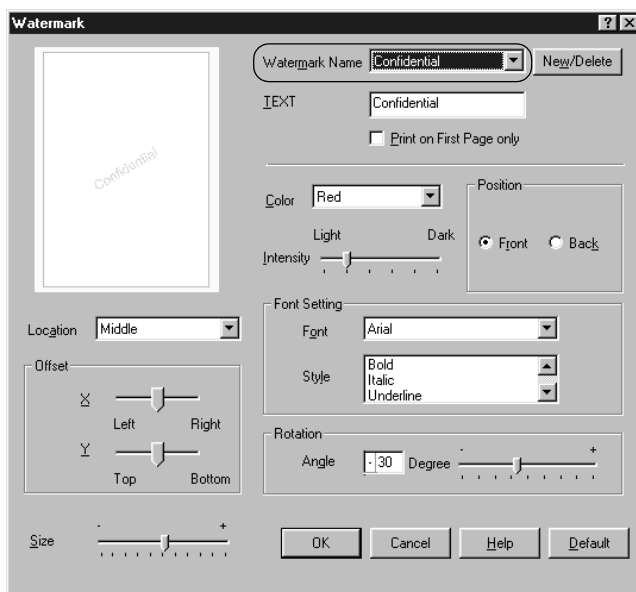
Follow the steps to use a watermark on your document. In the Watermark dialog box, you can select from a list of predefined watermarks, or you can make an original watermark with text or a bitmap. The Watermark dialog box also allows you to make a variety of detailed watermark settings. For example, you can select the size, intensity, and position of your watermark.

1. Click the Special menu.
2. Select the Watermark check box.



3. Click Watermark Settings. The Watermark dialog box appears.

4. Select a watermark from the Watermark Name drop-down list.

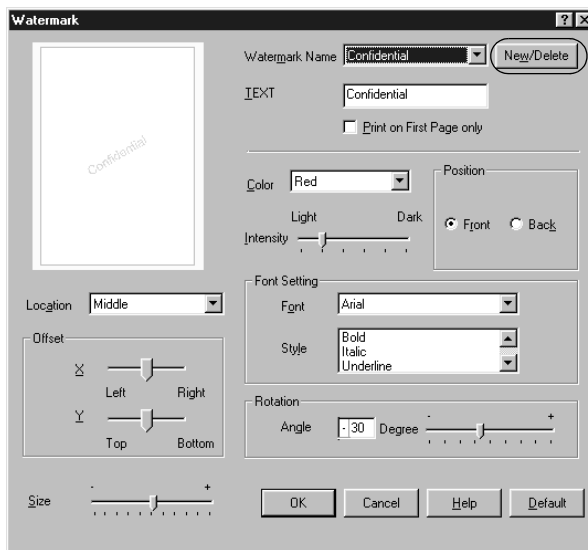


5. Select the location on the page where you want to print the watermark from the Location drop-down list.
6. Adjust the horizontal or vertical Offset position.
7. Select the color from the Color drop-down list.
8. Adjust the image intensity of the watermark with the Intensity slider bar.
9. Adjust the size of the watermark with the Size slider bar.
10. Select Front (to print the watermark in the foreground of the document) or Back (to print the watermark in the background of the document) for the Position setting.
11. Click OK to accept the settings.

## Making a new watermark

You can make a new watermark as follows:

1. Click the Special menu.
2. Select the Watermark check box.
3. Click Watermark Settings. The Watermark dialog box appears.
4. Click New/Delete. The User Defined Watermarks dialog box appears.



5. Select Text or BMP and type a name for the new watermark in the Name box.
6. If you select Text, type the watermark text in the Text box. If you select BMP, click Browse, select the BMP file you want to use, then click OK.

7. Click Save. Your watermark will appear in the List box.
8. Click OK to register the new watermark settings.

**Note:**

*You can register up to 10 watermarks.*

## ***Using an overlay***

The Overlay Settings dialog box allows you to prepare standard forms, or templates, that you can use as overlays when printing other documents. This feature can be useful for creating corporate letterheads or invoices.

**Note:**

*The overlay function is available only when High Quality (Printer) is selected as the Printing Mode in the More Settings dialog box.*

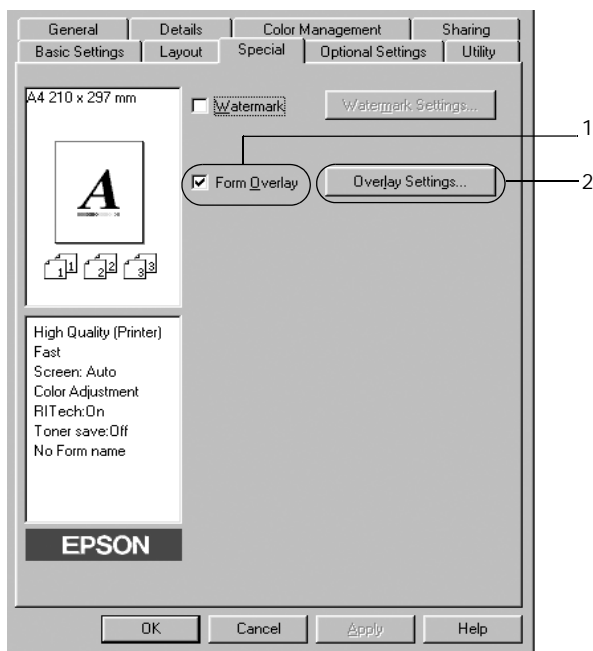
## ***Creating an overlay***

Follow these steps to create and save a form overlay file.

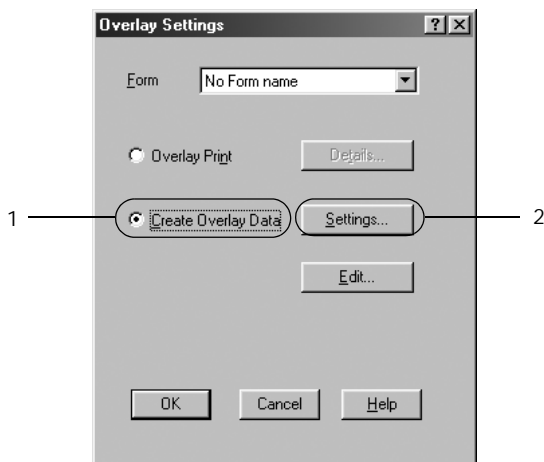
1. Open your application and create the file that you want to use as an overlay.
2. When the file is ready to be saved as an overlay, choose Print or Print Setup from the File menu of your application. Then click Printer, Setup, Options, or Properties, or click a combination of these buttons, depending on your application.
3. Select the Special menu.



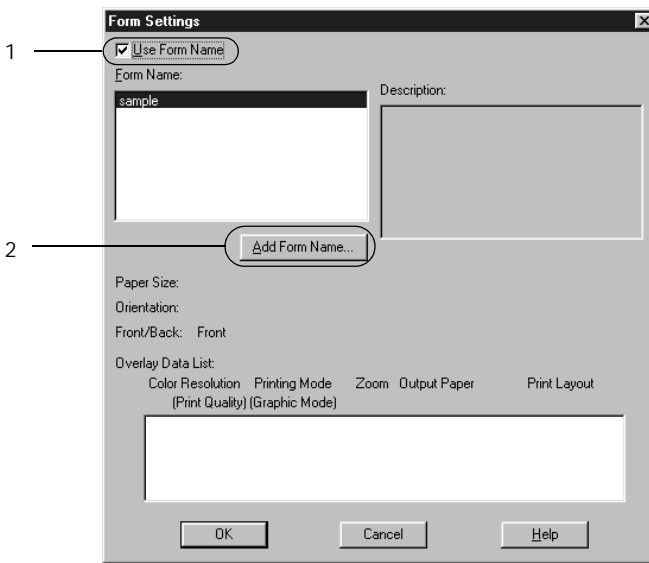
4. Select the Form Overlay check box, and click the Overlay Settings button to open the Overlay Settings dialog box.



5. Click the Create Overlay Data button, then click Settings. The Form Settings dialog box appears.



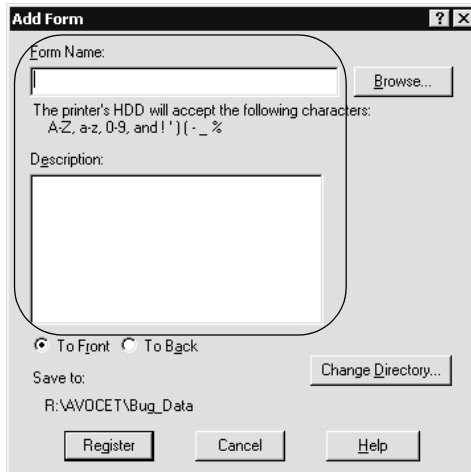
6. Select the Use Form Name check box. Then click the Add Form Name button. The Add Form dialog box appears.



7. In the Add Form dialog box, type the form name in the Form Name box and its description in the Description box.

**Note:**

*If you want to name and save the form data you made here to the optional HDD, be careful to use only the characters shown below. A - Z, a - z, 0 - 9, and ! ' ) ( - \_ %*



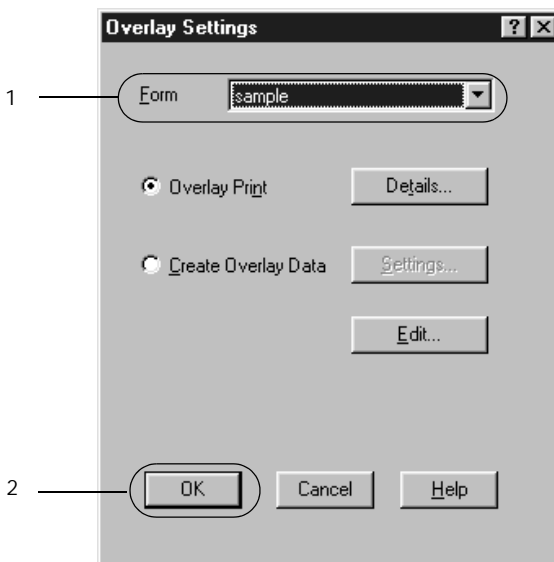
8. Click the To Front or To Back button to specify whether the overlay will be printed as background or foreground of the document.
9. In the Add Form dialog box, click Register.
10. In the Form Settings dialog box, click OK.
11. In the Overlay Settings dialog box, click OK.
12. Print the file saved as overlay data. It is possible to save any kind of file as an overlay. The overlay data is created.

***Printing with an overlay***

Follow the steps to print a document with overlay data.

1. Open the file to print with overlay data.

2. From the application, access the printer driver. Open the File menu and choose Print or Print Setup. Then click Printer, Setup, Options, or Properties, or click a combination of these buttons, depending on the application you use.
3. Select the Special menu.
4. Select the Form Overlay check box, and click the Overlay Settings button to open the Overlay Settings dialog box.
5. In the Overlay Settings dialog box, choose the form from the Form list, then click OK.



6. Click OK to print the data.

## ***Different printer settings overlay data***

The overlay data is made with the current printer settings (such as Resolution: 600 dpi). If you want to make the same overlay with different printer settings (such as 300 dpi), follow the instructions below.

1. Re-access the printer driver as described in step 2 in “Creating an overlay” on page 64.
2. Make the printer settings and exit the printer driver.
3. Send the same data that you made by application to the printer like step 12 in “Creating an overlay” on page 64.

This setting is available only for Form Name data.

## ***Using HDD form overlay***

This function enables faster printing with form overlay data. Windows users can use the form data registered in the optional Hard Disk Drive installed in the printer though only an administrator can register or delete the form data in the Hard Disk Drive. You can access this function from the Form Selection dialog box in the printer driver.

### ***Note:***

- ☐ *This function is not available when the Color setting is set to Black in the printer driver's Basic Settings menu.*
- ☐ *This function is not available if the optional Hard Disk Drive is not installed.*
- ☐ *Use this function by inputting the registered form name after printing the Print List.*

- ❑ *When the document's resolution, paper size or paper orientation settings are different from the form overlay data that you use, you cannot print the document with the form overlay data.*
- ❑ *This function is available in the ESC/Page Color mode.*

### ***Register the form overlay data on the Hard Disk Drive***

Only a network administrator using Windows XP/2000/NT 4.0 is allowed to register the form overlay data on the optional Hard Disk Drive. See the *Administrator's Guide* for details.

### ***Printing with HDD form overlay***

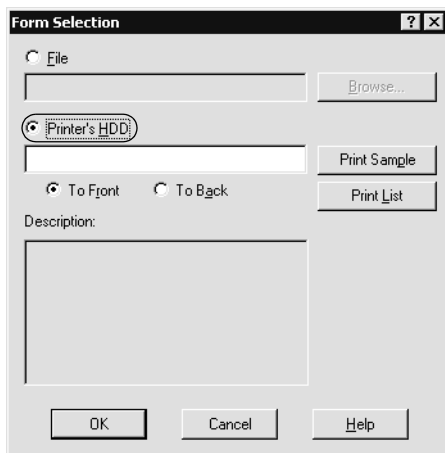
All Windows users can use the registered form data in the optional Hard Disk Drive. Follow these steps to print with HDD form data.

1. Select the Special menu.
2. Select the Form Overlay check box, and click the Overlay Settings button to open the Overlay Settings dialog box.
3. Select No Form name in the Form text box, and click Details. The Form Selection dialog box appears.

***Note:***

*Make sure that the No Form Name is selected. If any form name is selected, another dialog box will appear.*

4. Click Printer's HDD, then enter the registered form name. If you need the list of the registered form data, click Print List to print it and confirm the form name. Also, if you need a sample print-out of the form data, enter the form name and click the Print Sample button.



5. Choose To Back or To Front to print the form data as background or foreground of the document.
6. Click OK to print data.

### ***Delete the form overlay data in the Hard Disk Drive***

Only a network administrator using Windows XP/2000/NT 4.0 is allowed to delete or edit the form overlay data in the optional Hard Disk Drive. See the *Administrator's Guide* for details.

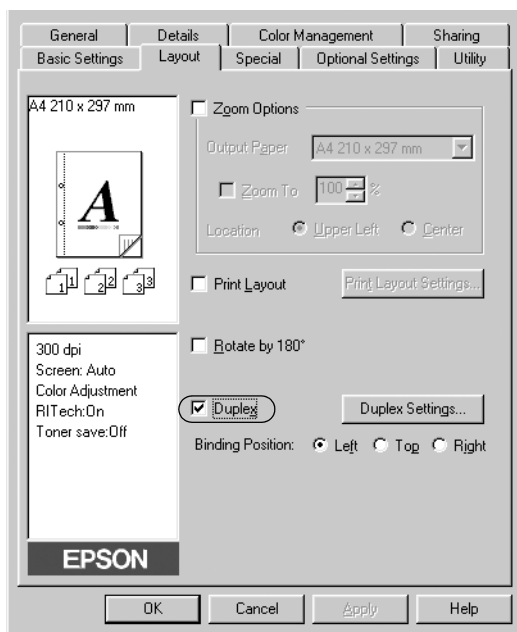
### ***Printing with the Duplex Unit***

Duplex printing with the optional Duplex Unit prints on both sides of the paper. When printing for binding, the binding edge can be specified as required to produce the desired page order.



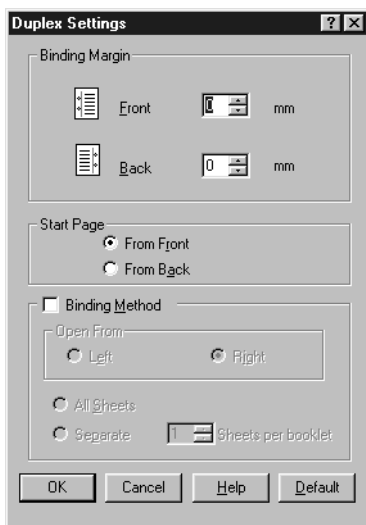
As an ENERGY STAR<sup>®</sup> partner, EPSON recommends the use of the double-sided printing function. Refer to ENERGY STAR<sup>®</sup> Compliance for more information on the ENERGY STAR<sup>®</sup> program.

1. Click the Layout tab.
2. Select the Duplex check box.



3. Select the Left, Top, or Right button as a Binding Position.
4. Click Duplex Settings to open the Duplex Settings dialog box.

5. Specify the Binding Margin for the front and back sides of the paper.



6. Select whether the front or back side of the paper is to be printed as the Start Page.
7. When printing for binding as a booklet, click the Binding Method check box and make appropriate settings. For details about each setting, see online help.
8. Click OK to close the Duplex Settings dialog box.
9. Click OK on the Layout menu to accept the settings.

## ***Making Extended Settings***

You can make detailed settings such as font setting or offset setting in the Extended Settings dialog box. To open the dialog box, click Extended Settings on the Optional Settings menu.

Print True Type fonts as bitmap button:	Select this button to print, as bitmap, the True Type fonts that are not substituted with device fonts in the document.
Print True Type fonts with substitution button:	Select this button to print the True Type fonts in the document as device fonts. This function is not available when the printing mode setting on the More Settings dialog box is set to CRT or High Quality (PC). For details about the printing mode setting, see “Customizing print settings” on page 54.
Settings button:	Click this button to open the Font Substitution dialog box. This button is available when the Print True Type fonts with substitution button is selected.
Uses the settings specified on the printer button:	Select this button to use the Offset, the Skip blank page, and the Ignore the selected paper size settings on the control panel.
Uses the settings specified on the driver button:	Select this button to use the Offset, the Skip blank page, and the Ignore the selected paper size settings in the printer driver.
Offset	Makes fine adjustments to the printing position on the front and the back of data on a page in 0.5 mm increments.

Skip Blank Page check box:	When you select this check box, the printer skips blank pages.
Ignore the selected paper size check box:	When you select this check box, the printer prints on loaded paper, regardless of size.
Automatically change to monochrome mode check box:	Select this check box to have the printer driver analyze the printing data, and automatically switch to monochrome mode if the printing data is black and white.
High Speed Graphics Output check box:	<p>Select this check box to optimize the printing speed of graphics composed of line drawings such as overlaid circles and squares.</p> <p>Clear this check box if graphics do not print correctly.</p>
Uses the spooling method provided by the operation system check box:	Select this check box to enable the Spool function for Windows XP/2000/NT 4.0.
OK button:	Click this button to save your settings and to exit the dialog box or printer driver.
Cancel button:	Click this button to exit the dialog box or printer driver without saving your settings.
Help button:	Click this button to open online help.

Default button:

Click this button to return the driver settings to the initial settings.

---

## ***Using the Reserve Job Function***

The Reserve Job function allows you to store print jobs in the printer's Hard Disk Drive and to print them later directly from the printer's control panel. Follow the instructions in this section to use the Reserve Job function.

***Note:***

*You need an optional Hard Disk Drive installed in your printer in order to use the Reserve Job function. Make sure that the drive is correctly recognized by the printer driver before you start using the Reserve Job function.*

The table below gives an overview of the Reserve Job options. Each option is described in detail later in this section.

<b>Reserve Job Option</b>	<b>Description</b>
Re-Print Job	Lets you print the job now and store it for later reprinting.
Verify Job	Lets you print one copy now to verify the content before printing multiple copies.
Stored Job	Lets you save the print job without printing it now.
Confidential Job	Lets you apply a password to the print job and save it for later printing.

Jobs stored in the Hard Disk Drive are handled differently depending on the Reserve Job option. Refer to the tables below for details.

Reserve Job Option	Maximum Number of Jobs	When Maximum is Exceeded	When Drive is Full
Re-Print Job + Verify Job	64 (combined total)	Oldest job automatically replaced with newest	Oldest job automatically replaced with newest
Stored Job	64	Delete old jobs manually	Delete old jobs manually
Confidential Job	64		

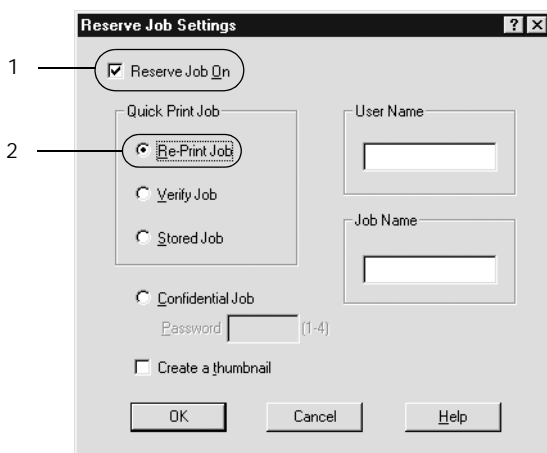
Reserve Job Option	After Printing	After Turning Off Printer or Using Reset All
Re-Print Job	data remains in hard drive	Data is cleared
Verify Job		
Stored Job		Data remains in hard drive
Confidential Job	data is cleared	Data is cleared

## Re-Print Job

The Re-Print Job option allows you to store the job you are currently printing so that you can reprint it later directly from the control panel.

Follow these steps to use the Re-Print Job option.

1. Select the Collate in Printer check box on the Basic Settings menu in the printer driver. Specify the number of copies to be printed, and make other printer driver settings as appropriate for your document.
2. Click the Optional Settings tab and click Reserve Jobs Settings. The Reserve Job Settings dialog box appears.
3. Select the Reserve Job On check box and click the Re-Print Job button.



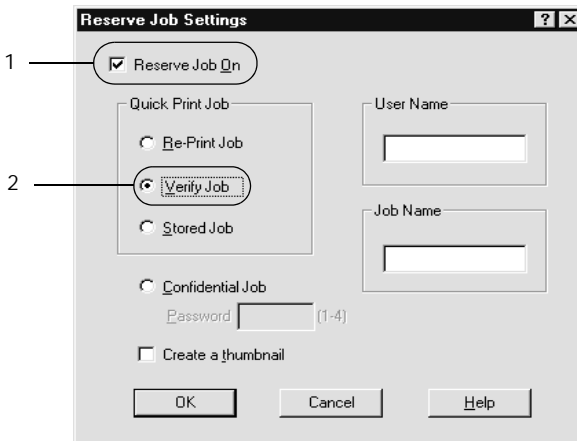
4. Enter a user name and job name in the corresponding text boxes. If you want to create a thumbnail of the first page of a job, select the Create a thumbnail check box. Thumbnails can be accessed by entering <http://> followed by the internal print server's IP address in a Web browser.
5. Click OK. The printer prints your document, and stores the print job data on the Hard Disk Drive. To reprint or delete this data using the printer's control panel, see "Printing and Deleting Reserve Job Data" on page 201.

## Verify Job

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

Follow these steps to use the Verify Job option.

1. Select the Collate OK check box on the Basic Settings menu in the printer driver. Specify the number of copies to be printed, and make other printer driver settings as appropriate for your document.
2. Click the Optional Settings tab and click Reserve Jobs Settings. The Reserve Job Settings dialog box appears.
3. Select the Reserve Job On check box and click the Verify Job button.



4. Enter a user name and job name in the corresponding text boxes. If you want to create a thumbnail of the first page of a job, select the Create a thumbnail check box. Thumbnails can be accessed by entering <http://> followed by the internal print server's IP address in a Web browser.



5. Click OK. The printer prints one copy of your document, and stores the print data with information on the number of remaining copies on the Hard Disk Drive. After you have confirmed the printout, you can print the remaining copies or delete this data using the printer's control panel. See "Printing and Deleting Reserve Job Data" on page 201 for instructions.

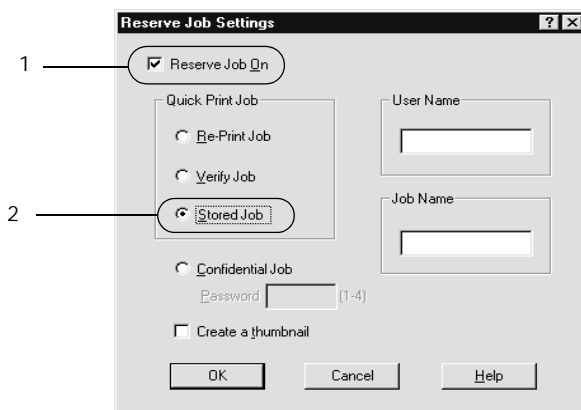
## ***Stored Job***

The Stored Job option is useful for storing documents you print on a regular basis, such as invoices. The stored data remains on the Hard Disk Drive even if you turn off the printer or reset it using the Reset All function.

Follow these steps to store print data using the Stored Job option.

1. Select the Collate OK check box on the Basic Settings menu in the printer driver. Specify the number of copies to be printed, and make other printer driver settings as appropriate for your document.
2. Click the Optional Settings tab and click Reserve Jobs Settings. The Reserve Job Settings dialog box appears.

3. Select the Reserve Job On check box, and the Stored Job button.



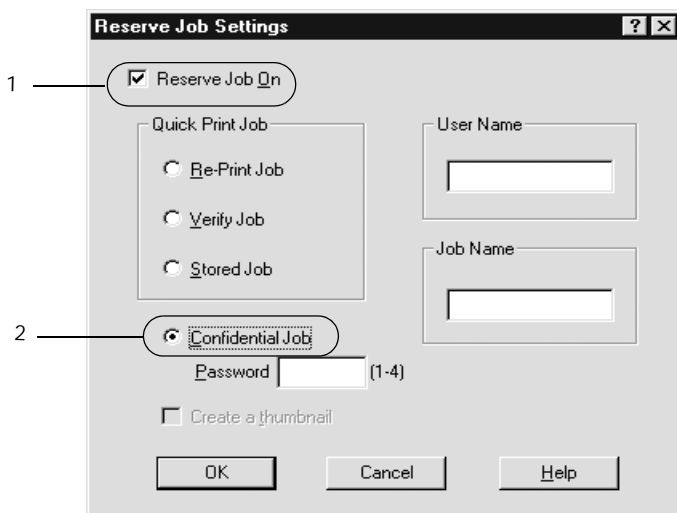
4. Enter a user name and job name in the corresponding text boxes. If you want to create a thumbnail of the first page of a job, select the Create a thumbnail check box. Thumbnails can be accessed by entering `http://` followed by the internal print server's IP address in a Web browser.
5. Click OK. The printer stores the print data in the Hard Disk Drive. To print or delete this data using the printer's control panel, see "Printing and Deleting Reserve Job Data" on page 201.

## ***Confidential Job***

The Confidential Job option allows you to apply passwords to print jobs stored on the Hard Disk Drive.

Follow these steps to store print data using the Confidential Job option.

1. Make printer driver settings as appropriate for your document, then open the Optional Settings menu and click the Reserve Jobs Settings button. The Reserve Jobs Settings dialog box appears.
2. Select the Reserve Job On check box and the Confidential Job button.



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

**Note:**

- ☐ Passwords must be four digits.
- ☐ Only numbers from 1 through 4 can be used for passwords.
- ☐ Keep passwords in a safe place. You must enter the correct password when printing a Confidential Job.

5. Click OK. The printer stores the print job in the Hard Disk Drive. To print or delete this data using the printer's control panel, see "Printing and Deleting Reserve Job Data" on page 201.

---

## **Monitoring Your Printer by Using EPSON Status Monitor 3**

The EPSON Status Monitor 3 monitors your printer and gives you information about its current status.

**Note:**

*Before using EPSON Status Monitor 3, be sure to read the README file under the ESM3 folder. This file contains the latest information on the EPSON Status Monitor 3.*

**Note for Windows XP users:**

- ☐ *Shared Windows XP LPR connections and shared Windows XP Standard TCP/IP connections with Windows clients do not support the Job Management function.*
- ☐ *The EPSON Status Monitor 3 utility is not available when printing from a Remote Desktop connection.*

**Note for Windows 95 users:**

*Network printers can not be monitored with EPSON Status Monitor 3.*

## **Installing EPSON Status Monitor 3**

Follow these steps to install EPSON Status Monitor 3.

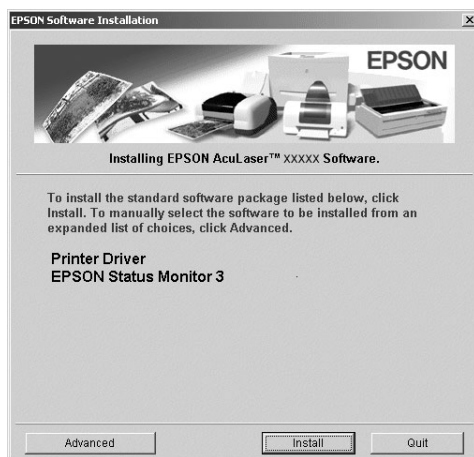
1. Insert the printer software CD-ROM in the CD-ROM drive.  
The Installation Program screen appears as shown below.



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

2. In the Installation Program screen, double-click Install Software.

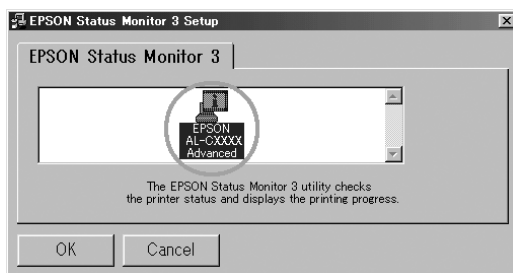
3. Click the Advanced button.



4. Select EPSON Status Monitor 3, and click Install.



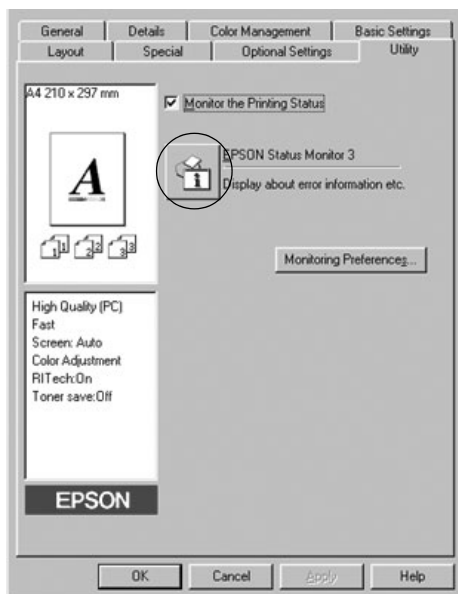
5. In the dialog box that appears, make sure that your printer's icon is selected, and click OK. This automatically installs the utility program.



6. When the installation is complete, click OK.

## Accessing EPSON Status Monitor 3

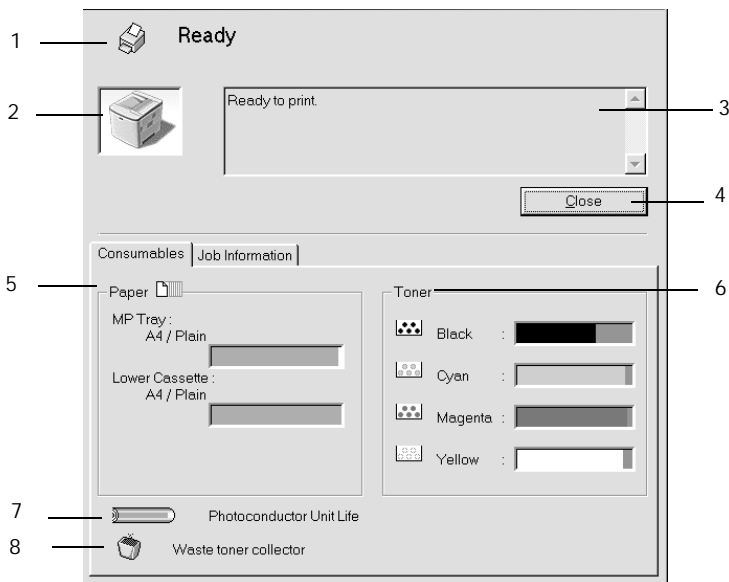
Here is the way to access EPSON Status Monitor 3: Open the printer software, click the Utility tab, then click the EPSON Status Monitor 3 button.





## Getting printer status details

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



### **Note:**

*The screen shot may vary depending on your printer.*

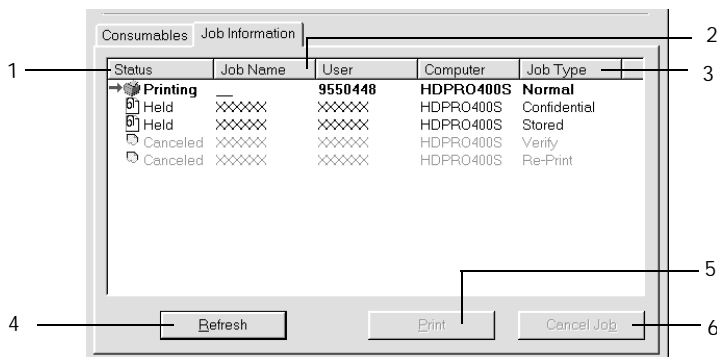
1. Icon/Message: The icon and message show the printer status.
2. Printer image: The image at the upper left shows the printer status graphically.

- |    |                           |   |
|----|---------------------------|---|
| 3. | 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.                              |
| 4. | Close button:             | Clicking this button closes the dialog box.   |
| 5. | Paper:                    | Displays the paper size and the approximate amount of paper remaining in the paper source. Information for the optional cassette is displayed only if this option is installed. |
| 6. | Toner:                    | Indicates the amount of remaining toner. The toner icon flashes if the toner is low.  |
| 7. | Photoconductor Unit Life: | Indicates the remaining functional life of the photoconductor unit.   |
| 8. | Waste toner collector:    | Blinks when the waste toner collector is not installed correctly or is near full.   |

## ***Using the Job Management function***

You can obtain information on the print jobs on the Job Information menu on the EPSON Status Monitor 3 dialog box.

To display the Job Information menu, select the Show job information check box on the Monitoring Preferences dialog box. (See “Setting Monitoring Preferences” on page 95 for details.) Then click the Job Information tab on the EPSON Status Monitor 3 dialog box.



1. Status:      Waiting:      The print job which waiting to be printed.

                 Printing:      The print job which is printed currently.

                 Completed:      Displays only your jobs that have finished printing.

                 Canceled:      Displays only your jobs that have been canceled printing.

                 Held:              The print job to be hold.

2. Job Name: Displays the user’s print job file names. Other users print jobs are displayed as -----.

3. Job Type: Displays the job type. When the Reserve job function is used, the jobs are displayed as Stored, Verify, Re-Print, and Confidential respectively. About the Reserve Job function, see “Using the Reserve Job Function” on page 77.
4. Refresh button: Clicking this button refreshes the information on this menu.
5. Print button: Displays the dialog box to print the spooled and Held status job.  
See “Re-printing your print job” on page 92 for details.
6. Cancel Job button: Selecting a print job and clicking this button, cancels the selected print job.

### ***Re-printing your print job***

Clicking the Print button on the EPSON Status Monitor 3 screen lets you print a spooled job.

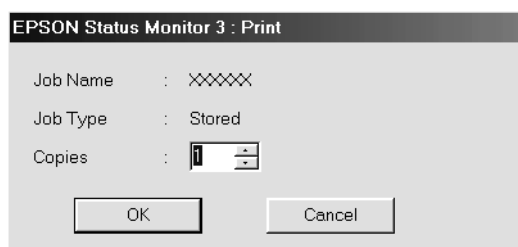
Follow the steps below to re-print your job.

***Note:***

*You cannot re-print your jobs in the following cases.*

- ☐ The status of the job is other than Held.
  - ☐ The job is sent by someone other than you.
  - ☐ When multiple jobs are selected
1. Access EPSON Status Monitor 3. See “Accessing EPSON Status Monitor 3” on page 88 for details.
  2. Click Job Information tab.

3. Click the Print button. The following screen appears.



4. In the screen, confirm the job name and select a copy number from 1 to 999.
5. Click OK to reprint your job.

### ***Supporting connection to use the Job Management function***

The Job Management function is available when the following connections are used:

- ☐ When using the EPSON Net Direct Print TCP/IP connection (in Windows Me, 98, 95 and XP, 2000 or NT 4.0)
- ☐ When using the LPR connections (in Windows XP, 2000 and NT 4.0)
- ☐ When using standard TCP/IP connections (in Windows XP and 2000)
- ☐ Shared Windows XP, 2000 and NT 4.0 LPR connections and shared Windows XP and 2000 Standard TCP/IP connections with Windows Me, 98, 95, XP, 2000 and NT 4.0 clients

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

*You can not use this function in the following situations:*

- ☐ *When using an optional Ethernet interface card that doesn't support the Job Management function.*

- ❑ *When the NetWare connections do not support the Job Management function.*
- ❑ *When the printing jobs from NetWare and NetBEUI are displayed as “Unknown” on the Job Management menu.*
- ❑ *Note that if the user account used to log on to a client is different from the user account used to connect to the server, the Job Management function is not available.*

### ***Setting to notify when printing is completed***

When the Notify when printing completed check box is selected, the Notify when printing completed function can be used.

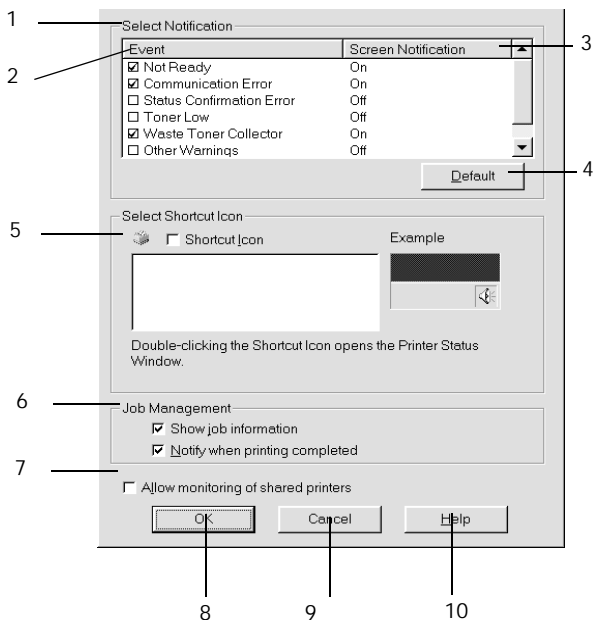
To use this function, click the specified print job from the print job list on the Job Information menu in the EPSON Status Monitor 3 dialog box. When the target job is completed, the Notify when printing completed dialog box appears.

***Note:***

*When you canceled the target job, the Notify when printing completed dialog box does not appear.*

## Setting Monitoring Preferences

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



The following settings and buttons appear in the dialog box:

1. **Select Notification:** Use the check boxes in this area to select the types of error that you wish to be notified about.
2. **Event:** Displays the events where notification screens appear.

- |   |  |
|---|--|
| 3. Screen Notification:                           | Displays which event is set for notification.  |
| 4. Default button:                                | Restores default settings.   |
| 5. 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 EPSON 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 AL-C1900 Advanced to open the EPSON Status Monitor 3 dialog box. |
| 6. Show job information check box:                | Displays the job information menu in the EPSON Status Monitor 3 window.  |
| 7. Allow monitoring of shared printers check box: | To monitor a shared printer, select this check box. You need to make this setting on the server.   |
| 8. OK button:                                     | Saves new changes.   |
| 9. Cancel button:                                 | Cancels any changes.   |
| 10. Help button:                                  | Opens online help for the Monitoring Preferences dialog box.   |



## Status Alert window

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

This window will also appear according to the selected notification in the Monitoring Preferences dialog box.

If you wish to see information about printer consumables, click EPSON Status Monitor 3 button. Once this button is clicked, the Status Alert window will not disappear even after a problem is cleared. Click Close to close the window.

## Stopping monitoring

You can stop monitoring the printing status by clearing the Monitor the Printing Status check box in the printer driver's Utility menu if you don't need to monitor the printer at all.

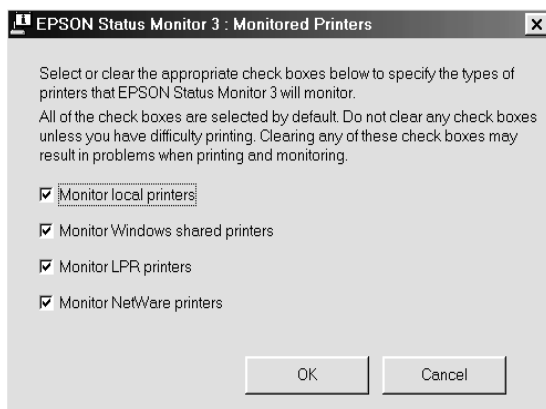
### **Note:**

- ☐ *The Monitor the Printing Status check box is displayed in the Utility menu of Document Defaults in Windows NT 4.0, or in the Utility menu of Printing Preference in Windows XP/2000.*
- ☐ *You can find out the current printer status by clicking the EPSON Status Monitor 3 icon in the printer driver's Utility menu.*

## Setting Monitored Printers

You can use Monitored Printers utility to change the type of printers that EPSON Status Monitor 3 will monitor. When you install EPSON Status Monitor 3, this utility is also installed. Usually, it is not necessary to change a setup.

1. Click Start, point to Programs, point to EPSON Printers, then click the Monitored printers.
2. Clear the check box of the printers which are not monitored.



3. Click OK to accept the setting.

---

## ***Setting for the USB Connection***

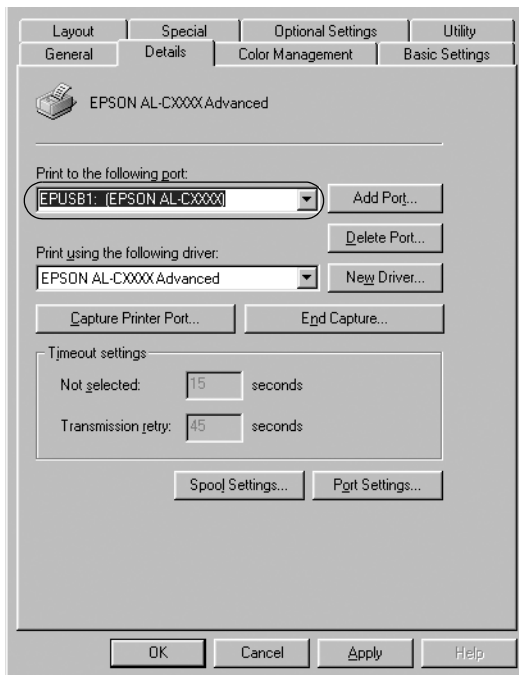
The USB interface that comes with your printer complies with Microsoft Plug and Play (PnP) USB specifications.

***Note:***

*Only PC systems equipped with a USB connector and running Windows Me, 98, XP, and 2000 support the USB interface.*

1. Click Start, point to Settings, then click Printers.
2. Right-click the EPSON AL-C1900 Advanced icon, and click Properties on the menu that appears.
3. Click the Details tab. In Windows 2000, click the Port tab.

4. Select the appropriate USB port from the Print to the following port drop-down list. In Windows Me or 98, select EPUSB1 (EPSON AL-C1900 Advanced). In Windows XP/2000, select USB001 in the list on the Ports menu.



**Note:**

*This screen is a Windows 98 screen.*

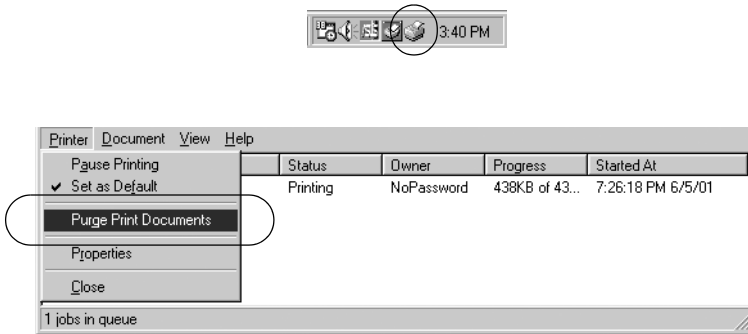
5. Click OK to save this setting.

---

## Canceling Printing

If the printouts are not what you expected and display incorrect or garbled characters or images, you may need to cancel printing. When the printer icon is displayed on the taskbar, follow the instructions below to cancel the printing.


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



After the last page is output, the Ready (green) light on the printer turns on.

The current job is canceled.

### **Note:**

*You can also cancel the current print job that is sent from your computer, by pressing the  Cancel Job button on the printer's control panel. When canceling the print job, be careful not to cancel print sent by other users.*

---

## ***Uninstalling the Printer Software***

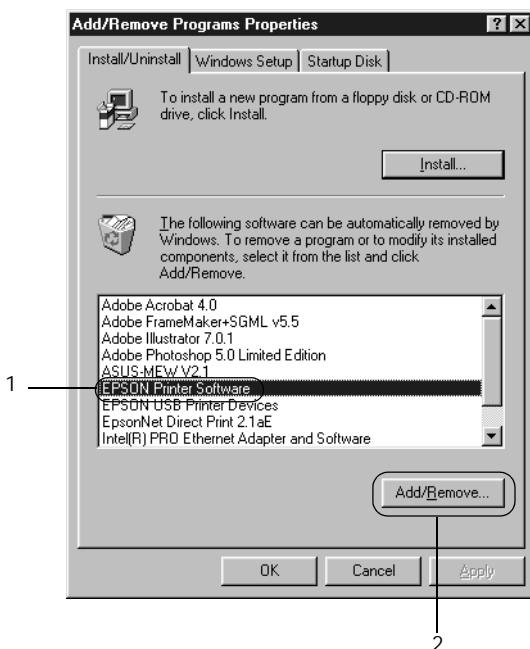
When you wish to reinstall or upgrade the printer driver, uninstall the printer driver that has been installed already.

### ***Uninstalling the printer driver and EPSON Status Monitor 3***

1. Quit all applications.
2. Click Start, point to Settings, and click Control Panel.
3. Double-click the Add/Remove Programs icon.



4. Select EPSON Printer Software, and click the Add/Remove.



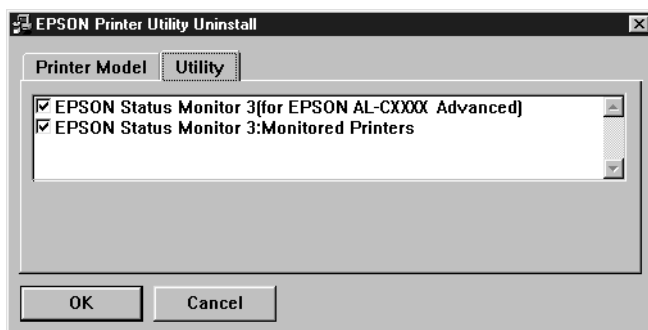
**Note:**

*When using the Windows XP or Windows 2000 computer, click Change or Remove Programs, select the EPSON Printer Software, then click Change/Remove.*

- Click the Printer Model menu, select the EPSON AL-C1900 Advanced icon, then click OK.



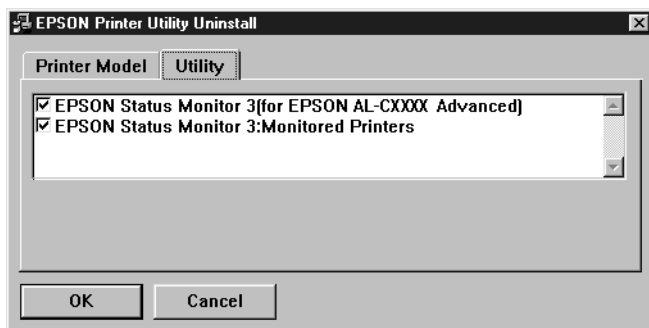
- Click the Utility tab, and confirm the EPSON Status Monitor 3 check box is selected.



**Note:**

Select the EPSON Status Monitor 3 check box only when uninstalling EPSON Status Monitor 3.

7. If you uninstall the Monitored Printers utility, select the EPSON Status Monitor 3: Monitored Printers check box, and click OK.



**Note:**

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

8. Follow the on-screen instructions.

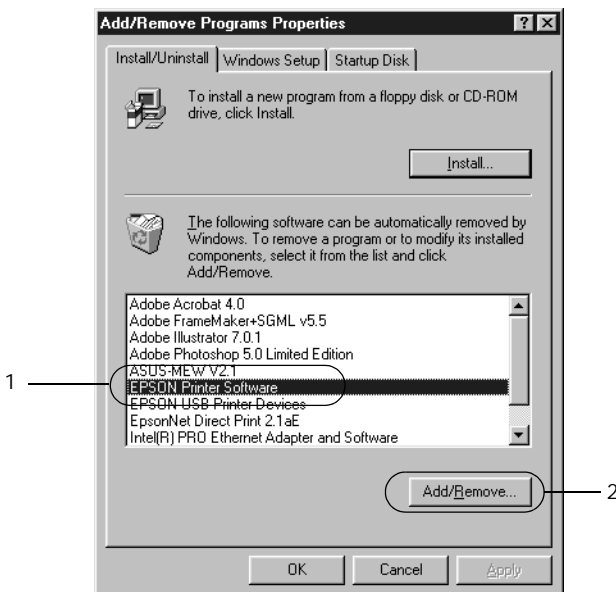
## ***Uninstalling only EPSON Status Monitor 3***

1. Quit all applications.
2. Click Start, point to Settings, then click Control Panel.
3. Double-click the Add/Remove Programs icon.





4. Select EPSON Printer Software, and click Add/Remove.



**Note:**

*When using Windows 2000, click Change or Remove Programs, select EPSON Printer Software, then click Change/Remove.*

## **Uninstall the USB device driver**

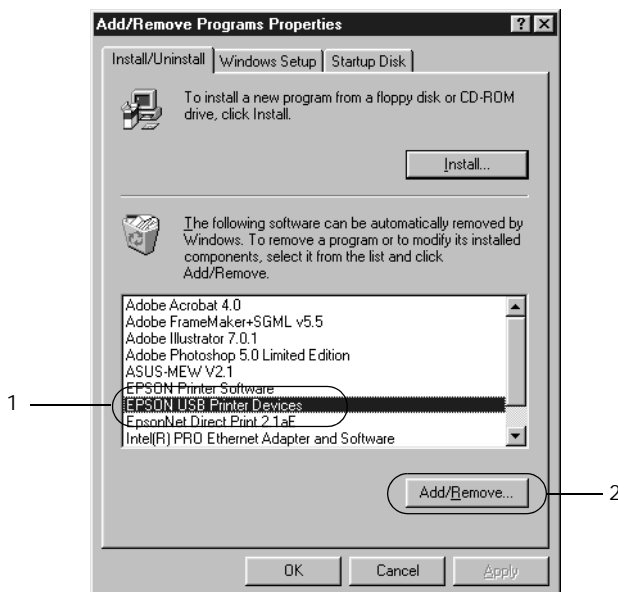
When you connect the printer to your computer with a USB interface cable, the USB device driver is also installed. When you uninstalled the printer driver, you also need to uninstall the USB device driver.

Follow these steps to uninstall the USB device driver.

**Note:**

- ❑ *Uninstall the printer driver before uninstalling the USB device driver.*

- ❑ *Once you uninstalled the USB device driver, you cannot access any other EPSON printers connected with a USB interface cable.*
1. Follow steps 1 through 3 of “Uninstalling the Printer Software” on page 101.
  2. Select EPSON USB Printer Devices, and click Add/Remove.



**Note:**

- ❑ EPSON USB Printer Devices *appears only when the printer is connected to Windows Me or 98 with a USB interface cable.*

- ❑ *If the USB device driver is not installed correctly, EPSON USB Printer Devices **may not appear**. Follow these steps to run the “Epusbun.exe” file in the CD-ROM that comes with your printer.*

1. Insert the CD-ROM in your computer's CD-ROM drive.
  2. Access the CD-ROM drive.
  3. Double-click the Win9x folder.
  4. Double-click the Epusbun.exe icon.
- 
3. Follow the on-screen instructions.



---

# ***Using the Printer Software with Macintosh***

---

---

## ***About the Printer Software***

The printer software contains a printer driver and EPSON Status Monitor 3. The printer driver lets you choose from a wide variety of settings to get the best results from your printer. EPSON Status Monitor 3 is accessed through the Apple menu. EPSON Status Monitor 3 lets you check the status of your printer. See “Monitoring Your Printer by using EPSON Status Monitor 3” on page 135 for more information.

---

## ***Accessing the Printer Driver***


To control your printer and change its settings, use the printer driver. The printer driver allows you to easily make all the print settings, including paper source, paper size, and orientation.

***Note:***

*The printer driver’s online help provides details on printer driver settings.*

To access the printer driver and open the appropriate dialog box, select Chooser from the Apple menu and click the AL-C1900 icon beforehand.

- ☐ To open the Paper Setting dialog box, select Page Setup from the File menu on any application.
- ☐ To open the Basic Settings dialog box, select Print from the File menu on any application.

- ❑ To open the Layout dialog box, click the  Layout icon on the Basic Settings dialog box.

---

## ***Making Changes to Printer Settings***

### ***Making the print quality setting***

You can change the print quality of printouts through settings in the printer driver. With the printer driver, you can make the print settings by choosing from a list of predefined settings, or customizing the settings.

### ***Choosing the print quality by using the Automatic setting***

You can change the print quality of printouts to favor speed or detail. There are two levels of print output, 300 dpi and 600 dpi. 600 dpi provides high quality, precise printing, but requires more memory and slows the printing speed.

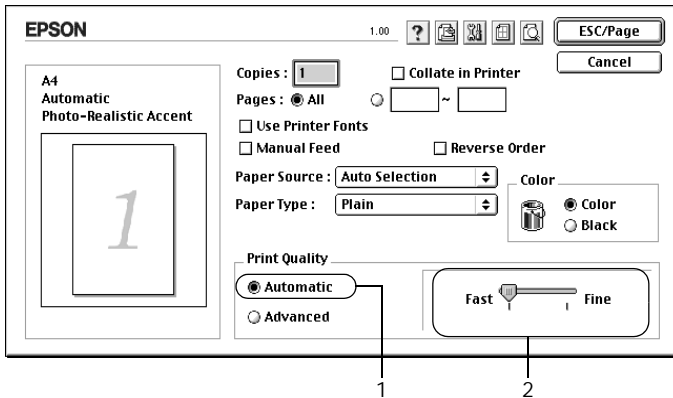
When the Automatic button is selected on the Basic Settings dialog box, the printer driver takes care of all detailed settings according to the color setting you select. Color and resolution are the only settings you need to make. You can change other settings such as paper size or orientation in most applications.

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

*Online help provides more information on printer driver settings.*

1. Open the Basic Settings dialog box.

2. Click the Automatic button on Print Quality. Then choose desired printing resolution from Fast (300 dpi) or Fine (600 dpi) with the slider bar.



**Note:**

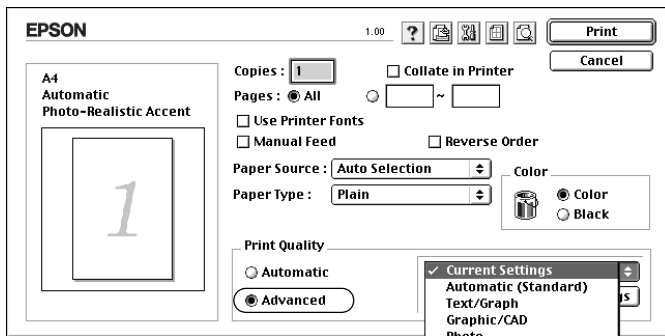
- ❑ For details about the RITech function, see the Online Help.
- ❑ If printing is unsuccessful or a memory-related error message appears, selecting a lower resolution may allow printing to proceed.

## **Using the predefined settings**

The predefined settings are provided to help you optimize print settings for a particular kind of printout, such as presentation documents or images taken by a video or digital camera.

Follow these steps to use the predefined settings.

1. Select the Advanced radio button on the Basic Settings dialog box. You will find the predefined settings in the list on the right of the Automatic radio button.



2. Select the most appropriate setting from the list according to the type of document or image you want to print.

When you choose a predefined setting, other settings such as Printing Mode, Resolution, Screen, and Color Management are set automatically. Changes are shown in the current settings list on the left of the Basic Settings dialog box.

This printer driver provides the following predefined settings:

### **Automatic (Standard)**

Suitable for regular printing, especially photos.

### **Text/Graph**

Suitable for printing documents that include text and graphs, such as presentation documents.

### **Graphic/CAD**

Suitable for printing graphs and charts.



## **Photo**

Suitable for printing photos.

## **PhotoEnhance4**

Suitable for printing images captured using the video input, a digital camera, or scanner. EPSON PhotoEnhance4 automatically adjusts the contrast, saturation, and brightness of the original image data to produce sharper, more vivid color printouts. This setting does not affect your original image data.

## **ColorSync**

Automatically adjusts printout colors to match colors on your screen.

## **Automatic (High Quality)**

Suitable for regular printing that gives priority to high-quality printing.

## **Advanced Text/Graph**

Suitable for printing high-quality presentation documents that include text and graphs.

## **Advanced Graphic/CAD**

Suitable for printing high-quality graphs, charts, and photos.

## **Advanced Photo**

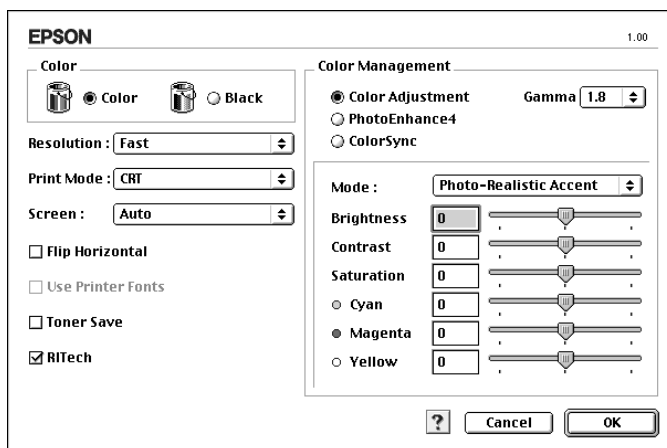
Suitable for printing high-quality scanned photos and digitally-captured images.


## ***Customizing print settings***

Many users will never need to make their own print settings manually. However, your printer provides for customized print settings if you need more control over the printout, want to make the most detailed settings available, or just want to experiment.

Follow these steps to customize your print settings.

1. Click the Advanced radio button on the Basic Settings dialog box, then click More Settings. The following dialog box appears.



2. Choose Color or Black as the Color setting.
3. Choose desired printing resolution from Fast (300 dpi) or Fine (600 dpi), then make other settings. For details on each setting, see the  button.
4. Click OK to apply your settings and return to the Basic Settings tab. Click Cancel to return to the Basic Settings dialog box without applying your settings.

### *Saving your settings*

To save your custom settings, select the Advanced radio button and click Save Settings on the Basic Settings dialog box. The Custom Settings dialog box appears.

Type a name for your custom settings in the Name box, and click Save. Your settings will appear in the list on the right of the Automatic radio button in the Basic Settings dialog box.

**Note:**


- ☐ *You cannot use a predefined setting name for your custom settings.*
- ☐ *To delete a custom setting, select the Advanced radio button and click Save Settings on the Basic Settings dialog box, select the setting in the User Settings dialog box and then click Delete.*
- ☐ *You cannot delete predefined settings.*

If you change any setting in the Advanced Settings dialog box when one of your custom settings is selected in the Advanced Settings list on the Basic Settings dialog box, the setting selected in the list changes to User Settings. The custom setting that was previously selected is not affected by this change. To return to your custom setting, simply reselect it from the current settings list.

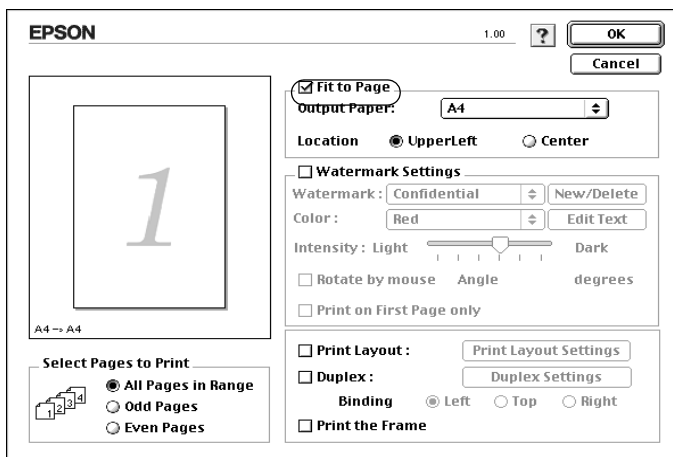
## ***Resizing printouts***

The Fit to Page function in the Layout dialog box allows you to have your documents enlarged or reduced during printing according to the specified paper size.

**Note:**

- ☐ *The enlarging or reducing rate is automatically specified according to the paper size selected in the Paper Setting dialog box.*
  - ☐ *The modifying or reducing rate selected in the Paper Setting dialog box is not available.*
1. Click the  Layout icon on the Basic Settings dialog box. The Layout dialog box appears.


2. Select the Fit to Page check box.



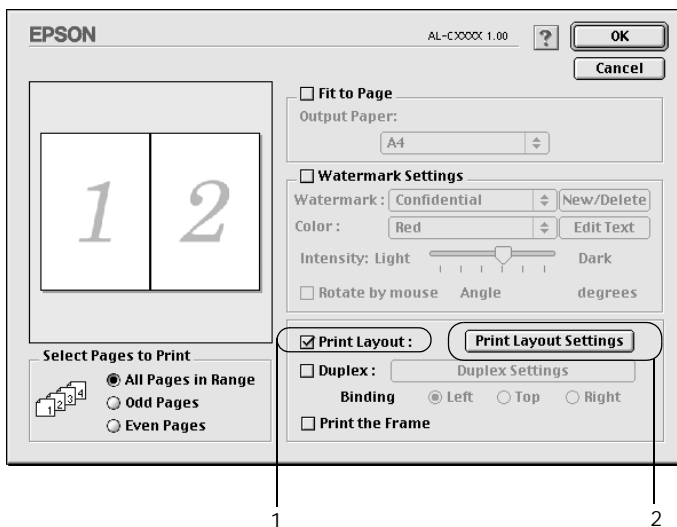
3. Select the desired paper size from the Output Paper drop-down list. The page will be printed to fit on the paper you have selected.
4. Click OK to accept the settings.

## ***Modifying the print layout***

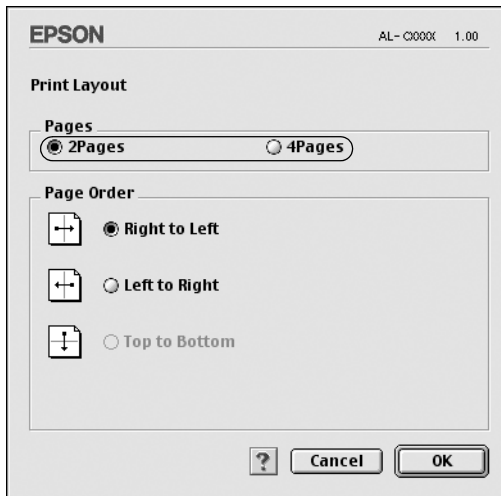
You can print either two or four pages onto a single page and to specify the printing order, automatically resizing each page to fit the specified paper size by using Layout printing. You can also choose to print documents surrounded by a frame.

1. Click the  Layout icon on the Basic Settings dialog box. The Layout dialog box appears.

2. Select the Print Layout check box, then click Print Layout Settings. The Print Layout Setting dialog box appears.



3. Select the number of pages you want to print on one sheet of paper.



4. Select the page order in which the pages are printed on each sheet.


**Note:**

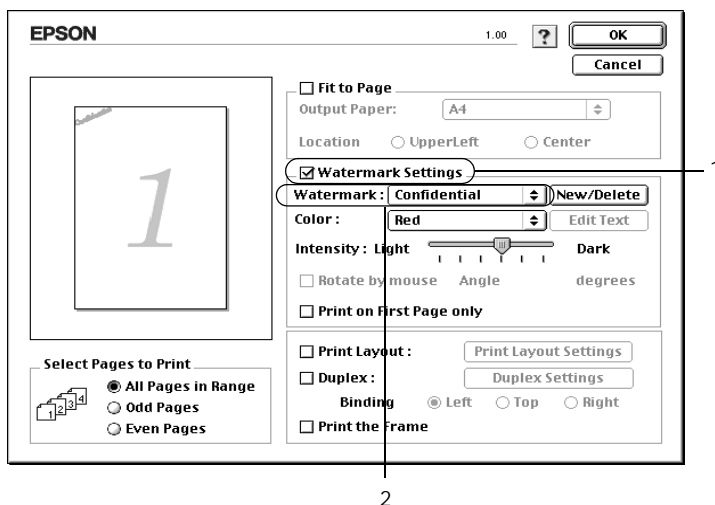
*Page Order choices depend on Pages selected above, and Orientation.*

5. Click OK to close the Print Layout Setting dialog box.
6. Select the Print the Frame check box on the Layout dialog box when you want to print the pages surrounded by a frame.
7. Click OK on the Layout dialog box to accept the settings.

## Using a watermark

Follow the steps to use a watermark on your document. In the Layout dialog box, you can select from a list of predefined watermarks, or you can select a bitmap (PICT) file or text file as your own custom watermark. The Layout dialog box also allows you to make a variety of detailed watermark settings. For example, you can select the size, intensity, and position of your watermark.

1. Click the  Layout icon on the Basic Settings dialog box. The Layout dialog box appears.
2. Select the Watermark Settings check box and a watermark from the Watermark drop-down list.




3. Select the location on the page where you want to print the watermark by dragging the watermark image on the preview window. Also, when you want to resize the watermark, drag its handle.

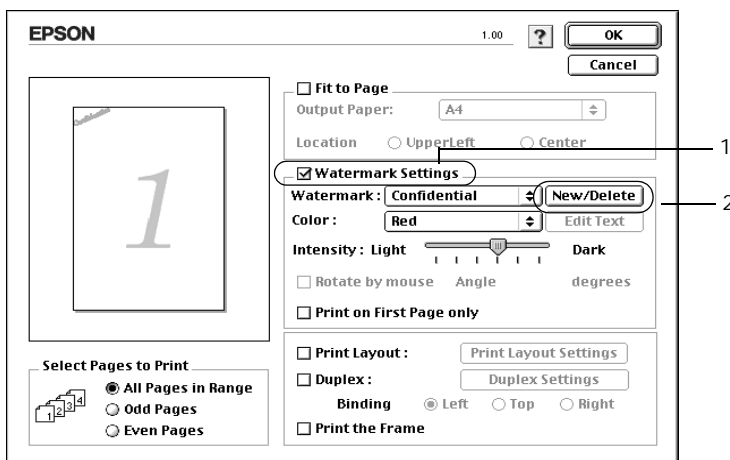
4. Adjust the image intensity of the watermark with the Intensity slider bar.
5. For your own custom text watermark, you can rotate it by inputting the degrees in the Angle box. Or select the Rotate by mouse check box, and rotate the text watermark with the pointer on the preview window.
6. Click OK to accept the settings.

## ***Making a new watermark***

You can make a new text or bitmap watermark with the following procedures.

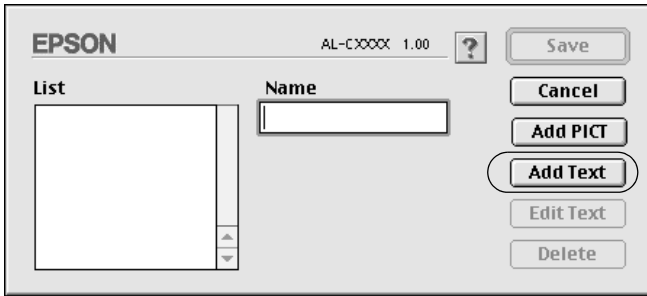
### ***To make a text watermark***

1. Click the  Layout icon on the Basic Settings dialog box. The Layout dialog box appears.
2. Select the Watermark Settings check box and click New/Delete. The Custom Watermark dialog box appears.

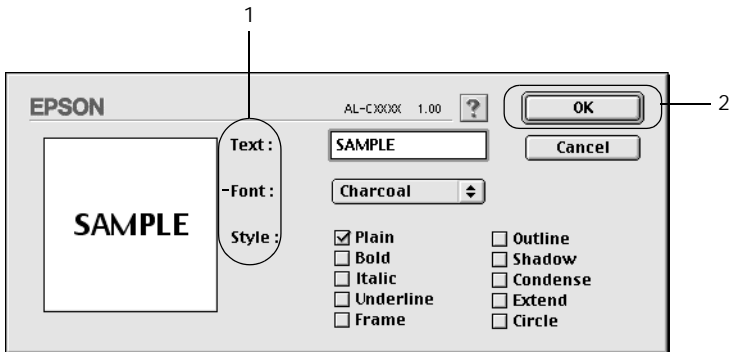




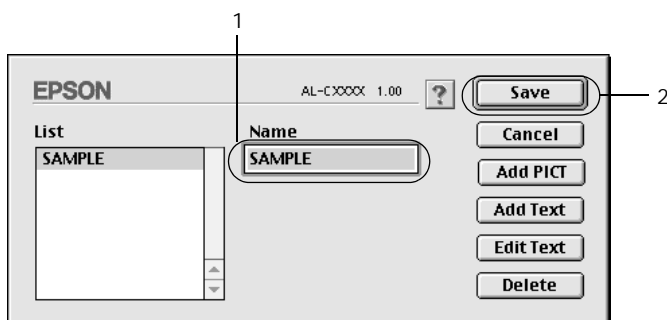
3. Click Add Text on the Custom Watermark dialog box.



4. Type the watermark text in the Text box, and select the Font and Style, and then click OK on the Text Watermark dialog box.



5. Type the file name in the Name box, and click Save.




**Note:**

- ❑ To edit the saved text watermark, select it from the List box, and click Edit Text. After editing, be sure to click OK to close the dialog box.
- ❑ To remove the saved text watermark, select it from the List box, and click Delete. After removing it, be sure to click Save to close the dialog box.

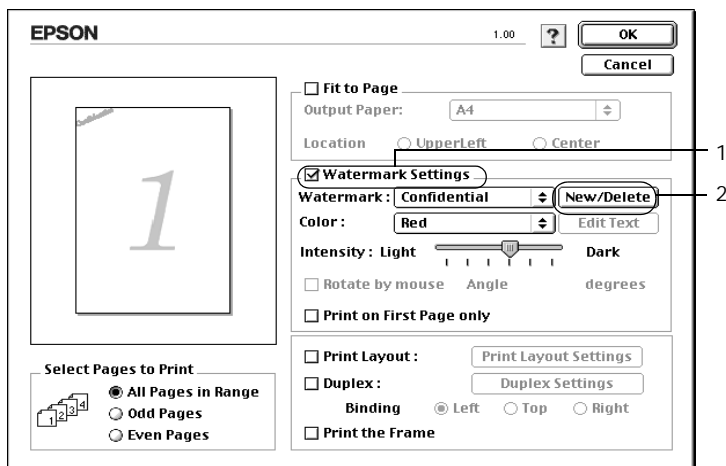
6. Select the saved custom watermark from the Watermark drop-down list on the Layout dialog box. Then click OK.

*To make a bitmap watermark*

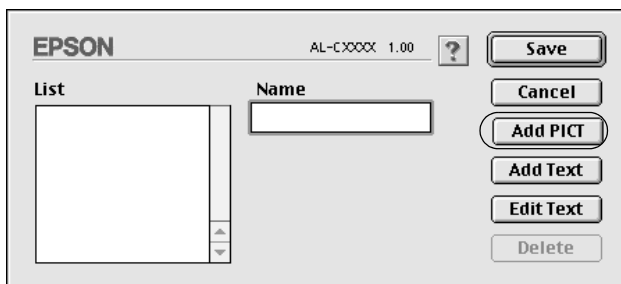
Before making a custom watermark, you should prepare a bitmap (PICT) file.

1. Click the  Layout icon on the Basic Settings dialog box. The Layout dialog box appears. The Custom Watermark dialog box appears.

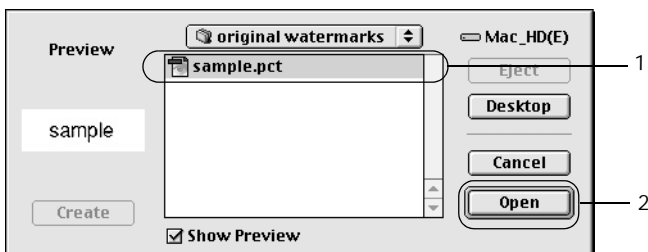
2. Select the Watermark Settings check box and click New/Delete.



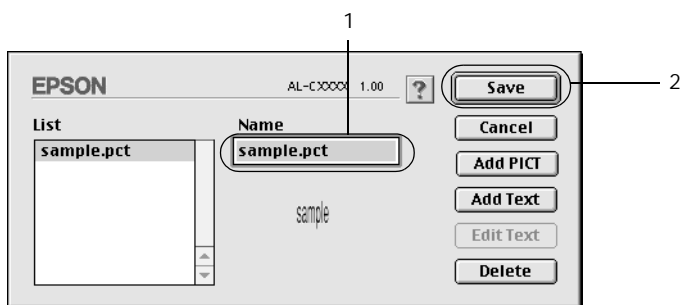
3. Click Add PICT on the Custom watermark dialog box.



4. Select the PICT file and click Open.



5. Type the file name in the Name box, and click Save.



**Note:**

*To remove the saved watermark, select it from the List box, and click Delete. After removing it, be sure to click Save to close the dialog box.*


6. Select the saved custom watermark from the Watermark drop-down list on the Layout dialog box. Then click OK.

## ***Printing with the Duplex Unit***

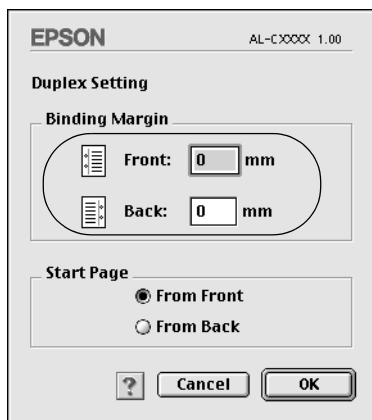
Duplex printing with the optional Duplex Unit prints on both sides of the paper. When printing for binding, the binding edge can be specified as required to produce the desired page order.

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

To use Printing for Binding, the optional Duplex Unit must be installed and enabled in the printer driver. To enable the Duplex Unit, select the AL-C1900 icon and close Chooser. However, the Duplex Unit is enabled automatically when this unit is installed and the printer is connected with the computer correctly.


1. Click the  Layout icon on the Basic Settings dialog box. The Layout dialog box appears.
2. Select the Duplex check box.
3. Select a Binding position from Left, Top, or Right.
4. Click Duplex Settings to open the Duplex Settings dialog box.

5. Specify the Binding Margin for the front and back sides of the paper.



6. Select whether the front or back side of the paper is to be printed as the Start Page.
7. Click OK to close the Duplex Settings dialog box.
8. Click OK on the Layout dialog box to accept the settings.

## ***Making Extended Settings***

You can make various settings in the Extended Setting dialog box, for example Page Protect. To open the dialog box, click the  Extended Setting icon on the Basic Settings dialog box.

Uses the settings specified on the printer check box:

Select this button to use the Offset, Skip blank page, and Ignore the selected paper size settings in the control panel.

Offset:	Makes fine adjustments to the printing position of data on a page.
Front Top:	Adjusts the vertical printing position of data on the front of a page.
Front Left:	Adjusts the horizontal printing position of data on the front of a page.
Back Top:	Adjusts the vertical printing position of data on the back of a page when printing with the duplex unit.
Back Left:	Adjusts the horizontal printing position of data on the back of a page when printing with the duplex unit.
Ignore the selected paper size check box:	When you select this check box, the printer prints on loaded paper, regardless of size.
Skip Blank Page check box:	When you select this check box, the printer skips blank pages.
Automatically change to monochrome mode check box:	Select this check box to have the printer driver analyze the printing data, and automatically switch to monochrome mode if the printing data is black and white.
Adjust line thickness check box:	Adjusts the width of the lines printed.
Default button:	Returns to initials settings.

Select button:	Selects spool file saving folder.
Cancel button:	Click this button to exit the dialog box or printer driver without saving your settings.
OK button:	Click this button to save your settings and to exit the dialog box or printer driver. The settings are effective until you make new settings and click OK again.

---

## ***Using the Reserve Job Function***

The Reserve Job function allows you to store print jobs in the printer's Hard Disk Drive and to print them later directly from the printer's control panel. Follow the instructions in this section to use the Reserve Job function.

### ***Note:***

*You need an optional Hard Disk Drive installed in your printer in order to use the Reserve Job function. Make sure that the drive is correctly recognized by the printer driver before you start using the Reserve Job function.*

The table below gives an overview of the Reserve Job options. Each option is described in detail later in this section.

<b>Reserve Job Option</b>	<b>Description</b>
Re-Print Job	Lets you print the job now and store it for later reprinting.
Verify Job	Lets you print one copy now to verify the content before printing multiple copies.
Stored Job	Lets you save the print job without printing it now.



<b>Reserve Job Option</b>	<b>Description</b>
Confidential Job	Lets you apply a password to the print job and save it for later printing.

Jobs stored in the Hard Disk Drive are handled differently depending on the Reserve Job option. Refer to the tables below for details.


<b>Reserve Job Option</b>	<b>Maximum Number of Jobs</b>	<b>When Maximum is Exceeded</b>	<b>When Drive is Full</b>
Re-Print Job + Verify Job	64 (combined total)	Oldest job automatically replaced with newest	Oldest job automatically replaced with newest
Stored Job	64	Delete old jobs manually	Delete old jobs manually
Confidential Job	64		

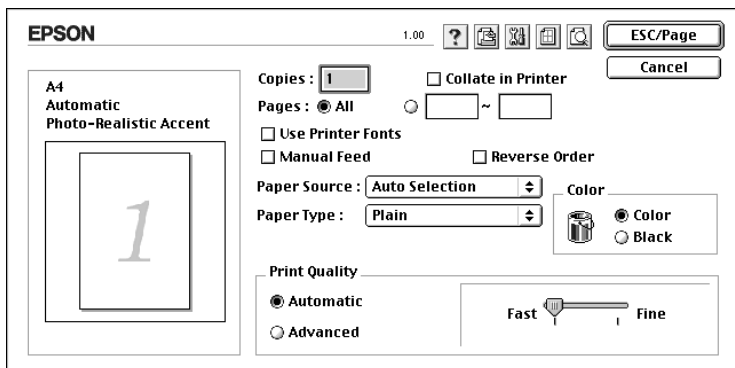
<b>Reserve Job Option</b>	<b>After Printing</b>	<b>After Turning Off Printer or Using Reset All</b>
Re-Print Job	Data remains in hard drive	Data is cleared
Verify Job		
Stored Job		Data remains in hard drive
Confidential Job	Data is cleared	Data is cleared

## ***Re-Print Job***

The Re-Print Job option allows you to store the job you are currently printing so that you can reprint it later directly from the control panel.

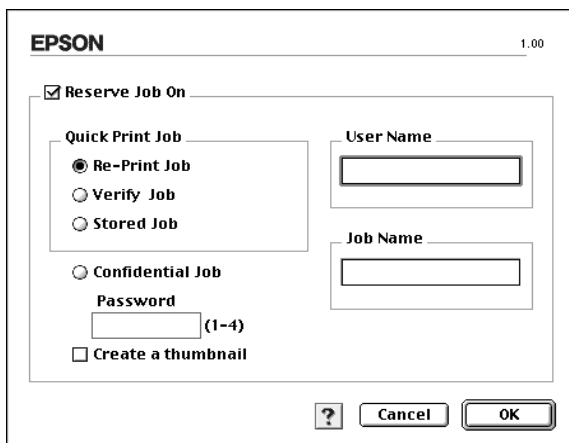
Follow these steps to use the Re-Print Job option.

1. Make printer driver settings as appropriate for your document, then open the Basic Settings menu and click the  Reserve Jobs icon. The Reserve Jobs Settings dialog box appears.



The EPSON Basic Settings dialog box is shown. It features a preview of a document with the number '1' on the left. The right side contains various settings: Copies (1), Collate in Printer (unchecked), Pages (All), Use Printer Fonts (unchecked), Manual Feed (unchecked), Paper Source (Auto Selection), Paper Type (Plain), Color (Color selected), and Print Quality (Automatic selected). A slider for Print Quality is set between Fast and Fine. Buttons for ESC/Page, Cancel, and OK are at the top right.

2. Select the Reserve Job On check box and the Re-Print Job radio button.




The EPSON Reserve Jobs Settings dialog box is shown. It has a 'Reserve Job On' checkbox checked. Below it, there are three radio buttons: Re-Print Job (selected), Verify Job, and Stored Job. There are also fields for User Name, Job Name, and Password (1-4 characters). A 'Create a thumbnail' checkbox is at the bottom. Buttons for ? (help), Cancel, and OK are at the bottom right.

3. Enter a user name and job name in the corresponding text boxes. If you want to create a thumbnail of the first page of a job, select the Create a thumbnail check box. Thumbnails can be accessed by entering <http://> followed by the internal print server's IP address in a Web browser.
4. Click OK. The printer prints your document, and stores the print job data on the Hard Disk Drive. To reprint or delete this data using the printer's control panel, see "Using the Quick Print Job Menu" on page 201.

## ***Verify Job***

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

Follow these steps to use the Verify Job option.

1. Specify the number of copies to be printed, and make other printer driver settings as appropriate for your document.
2. Open the Basic Settings dialog box and click the  Reserve Jobs icon. The Reserve Jobs Settings dialog box appears.

3. Select the Reserve Job On check box and the Verify Job radio button.


The image shows a software window titled "EPSON" with a version number "1.00" in the top right corner. The window contains a "Reserve Job On" section with a checked checkbox. Below this, there is a "Quick Print Job" section with three radio buttons: "Re-Print Job", "Verify Job" (which is selected), and "Stored Job". To the right of these radio buttons are two text input fields labeled "User Name" and "Job Name". Below the "Verify Job" radio button is a "Confidential Job" radio button. Underneath that is a "Password" label followed by a text input field and the text "(1-4)". At the bottom left of the main content area is a checkbox labeled "Create a thumbnail". At the bottom right of the window are three buttons: a help button with a question mark, a "Cancel" button, and an "OK" button.

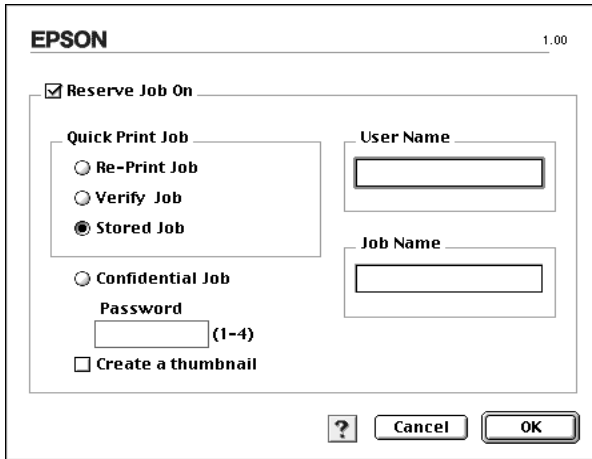
4. Enter a user name and job name in the corresponding text boxes. If you want to create a thumbnail of the first page of a job, select the Create a thumbnail check box. Thumbnails can be accessed by entering <http://> followed by the internal print server's IP address in a Web browser.
5. Click OK. The printer prints one copy of your document, and stores the print data with information on the number of remaining copies on the Hard Disk Drive. After you have confirmed the printout, you can print the remaining copies or delete this data using the printer's control panel. See "Using the Quick Print Job Menu" on page 201 for instructions.

## **Stored Job**

The Stored Job option is useful for storing documents you print on a regular basis, such as invoices. The stored data remains on the Hard Disk Drive even if you turn off the printer or reset it using the Reset All function.

Follow these steps to store print data using the Stored Job option.

1. Make printer driver settings as appropriate for your document, then open the Basic Settings menu and click the  Reserve Jobs icon. The Reserve Jobs Settings dialog box appears.
2. Select the Reserve Job On check box and the Stored Job radio button.




The image shows the EPSON Reserve Jobs Settings dialog box. At the top, the EPSON logo is on the left and the version number 1.00 is on the right. Below the logo, there is a checked checkbox labeled "Reserve Job On". To the right of this checkbox is a large rectangular area containing several options. Inside this area, there is a section titled "Quick Print Job" with three radio buttons: "Re-Print Job", "Verify Job", and "Stored Job". The "Stored Job" radio button is selected. Below the "Quick Print Job" section is a "Confidential Job" radio button, which is not selected. Below that is a "Password" label followed by a text input field and the text "(1-4)". At the bottom of this section is a checkbox labeled "Create a thumbnail". To the right of the "Quick Print Job" section are two text input fields: "User Name" and "Job Name". At the bottom of the dialog box, there are three buttons: a help button with a question mark icon, a "Cancel" button, and an "OK" button.

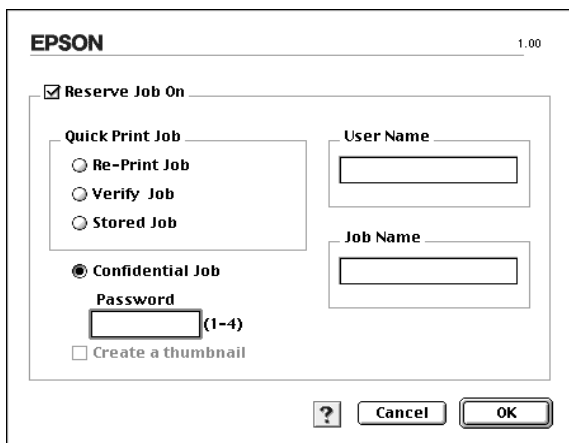
3. Enter a user name and job name in the corresponding text boxes. If you want to create a thumbnail of the first page of a job, select the Create a thumbnail check box. Thumbnails can be accessed by entering <http://> followed by the internal print server's IP address in a Web browser.
4. Click OK. The printer stores the print data in the Hard Disk Drive. To print or delete this data using the printer's control panel, see "Using the Quick Print Job Menu" on page 201.

## Confidential Job

The Confidential Job option allows you to apply passwords to print jobs stored on the Hard Disk Drive.

Follow these steps to store print data using the Confidential Job option.

1. Make printer driver settings as appropriate for your document, then open the Basic Settings dialog box and click the  Reserve Jobs icon. The Reserve Jobs Settings dialog box appears.
2. Select the Reserve Job On check box and click the Confidential Job button.



The image shows the EPSON Reserve Jobs Settings dialog box. At the top, it says "EPSON" on the left and "1.00" on the right. Below this is a section titled "Reserve Job On" with a checked checkbox. Inside this section, there are two main areas. On the left, under "Quick Print Job", there are three radio buttons: "Re-Print Job", "Verify Job", and "Stored Job". Below these is a "Confidential Job" radio button which is selected. Under "Confidential Job", there is a "Password" text box followed by "(1~4)" and a "Create a thumbnail" checkbox. On the right side of the dialog, there are two text boxes: "User Name" and "Job Name". At the bottom right, there are three buttons: a help button with a question mark, a "Cancel" button, and an "OK" button.

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

**Note:**

- ☐ *Passwords must be four digits.*
  - ☐ *Only numbers from 1 through 4 can be used for passwords.*
  - ☐ *Keep passwords in a safe place. You must enter the correct password when printing a Confidential Job.*
5. Click OK. The printer stores the print job in the Hard Disk Drive. To print or delete this data using the printer's control panel, see "Using the Confidential Job Menu" on page 202.

---

## **Monitoring Your Printer by using EPSON Status Monitor 3**

The EPSON Status Monitor 3 monitors your printer and gives you information about its current status.

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

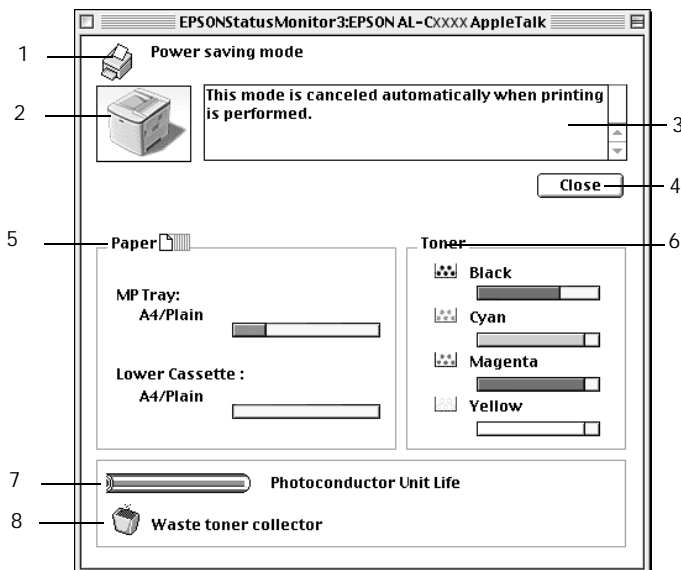
You can access the EPSON Status Monitor 3 by selecting the EPSON Status Monitor 3 alias from the Apple menu.

**Note:**

- ☐ *The appropriate printer port must already be selected in the Chooser so that necessary information can be received from the selected printer driver when the EPSON Status Monitor 3 starts. If the printer port is not correct, an error will occur.*
- ☐ *If you change the printer driver in the Chooser while the spool file is printing in the background, output to the printer may be disrupted.*
- ☐ *Printer and consumable products status information appears in the status window only if the Chooser is acquiring status normally.*

## Getting printer status details

You can monitor printer status and get information on consumable products using the EPSON Status Monitor 3 dialog box.



### **Note:**

*The screen shot may vary depending on your printer.*

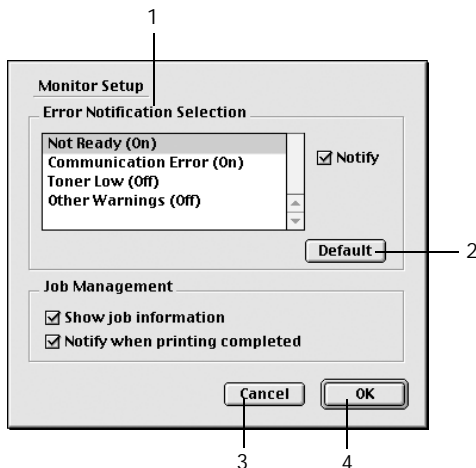
- |                   |   |
|-------------------|---|
| 1. Icon/Message:  | The icon and message shows the printer status.                    |
| 2. Printer image: | The image at the upper left shows the printer status graphically. |



- |                                |   |
|--------------------------------|---|
| 3. 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.                                |
| 4. Close button:               | Clicking this button closes the dialog box.   |
| 5. Paper:                      | Displays the paper size and the approximate amount of paper remaining in the paper source. Information for the optional cassettes are displayed only if this option is installed. |
| 6. Toner:                      | Indicates the amount of remaining toner. The toner icon flashes if toner is low.  |
| 7. Photoconductor Unit Life:   | Indicates the remaining functional life of the photoconductor unit.   |
| 8. Waste toner collector life: | Blinks when the waste toner collector is not installed correctly or is near full.   |

## Setting Monitoring Preferences

To make specific monitoring settings, select Monitor Setup from the File menu. The Monitor Setup dialog box appears.



The following settings and buttons appear in the dialog box:

- |                                  |   |
|----------------------------------|---|
| 1. Error Notification Selection: | Select the types of error that you wish to be notified about. |
| 2. Default button:               | Restores default settings.                                    |
| 3. Cancel button:                | Cancels any changes.  |
| 4. OK button:                    | Saves new changes.  |

## Status Alert window

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

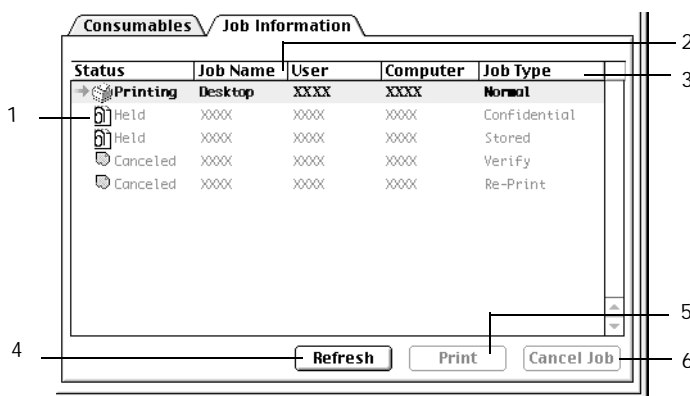
This window will also appear according to the selected notification in the Monitoring Preferences dialog box.

If you wish to see information about printer consumables, click Show Details. If you click this button, the Status Alert Window will not disappear even after the problem is cleared. To close the window you need to click Close.

## Using the Job Management function

You can obtain information on the print jobs on the Job Information menu on the EPSON Status Monitor 3 dialog box.

To display the Job Information menu, select the Show job information check box on the Monitoring Preferences dialog box. Then click the Job Information menu on the EPSON Status Monitor 3 dialog box.



1. Status:      Waiting:      Waiting to print.  
                  Printing:      Current job is being printed.  
                  Completed: Indicates job has been printed.  
                  Canceled:    Indicates job has been canceled.  
                  Held:         Job is on hold.
2. Job Name: Displays the user's print job file names. Other users  
                  print jobs are displayed as -----.
3. Job Type: Displays the job type. When the Reserve job function  
                  is used, the jobs are displayed as Stored, Verify,  
                  Re-Print, and Confidential respectively. About the  
                  Reserve Job function, see "Using the Reserve Job  
                  Function" on page 128.
4. Refresh      Clicking this button refreshes the information on  
   button:       this menu.
5. Print         Displays the dialog box to print the spooled and  
   button:       Held status job. See "Re-Print Job" on page 129 for  
                  details.
6. Cancel       Selecting a print job and clicking this button, cancels  
   Job           the selected print job.  
   button:

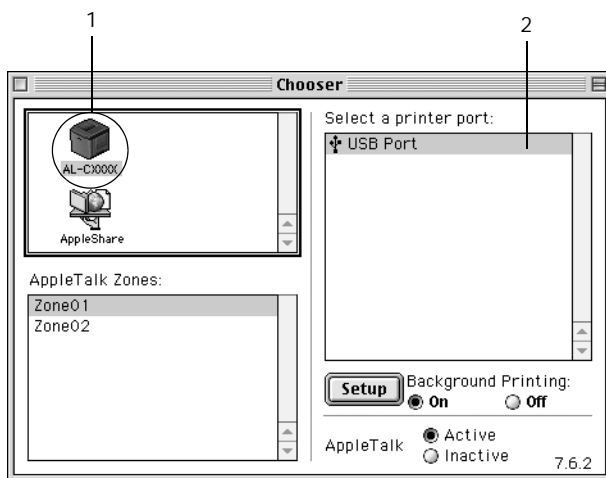
---

## Setting for the USB connection

### **Note:**

*If you are connecting the USB cable to your Macintosh through a USB hub, be sure to connect using the first hub in the chain. The USB interface may be unstable depending on the hub used. If you experience problems with this type of setup, connect the USB cable directly to your computer's USB connector.*

1. Select Chooser from the Apple menu. Click the AL-C1900 icon and then click the USB port your printer is connected to.



2. Select Background Printing to turn background printing on or off.

### **Note:**

- ❑ *Background printing must be turned on for the EPSON Status Monitor 3 to manage print jobs.*
- ❑ *When background printing is on, you can use your Macintosh while it is preparing a document for printing.*

3. Close the Chooser.

---


## ***Canceling Printing***

If the printouts are not what you expected and display incorrect or garbled characters or images, you may need to cancel printing. When a print job continues on the PC, follow the instruction below to cancel the printing.

- ❑ Press the Period (.) key while pressing the Command key to cancel printing. Depending on applications, the message shows the procedure to cancel printing during printing. If this appears, follow instructions in the message.
- ❑ During background printing, open EPSON Status Monitor 3 from the Application menu. Then stop printing from EPSON Status Monitor 3, or delete the file that is in sleep mode.

After the last page is output, the Ready (green) light on the printer turns on.

### ***Note:***

*You can also cancel the current print job that is sent from your computer, by the  Cancel Job button on the control panel. When canceling the print job, be careful not to cancel print jobs from other users' computers.*

---

## ***Uninstalling the Printer Software***

When you wish to reinstall or upgrade the printer driver, be sure to uninstall the current printer software beforehand.

1. Quit all applications, and restart your Macintosh.

2. Insert the EPSON printer software CD-ROM in your Macintosh.
3. Double-click the English folder, then double-click Disk 1 folder inside the Disk Package folder.
4. Double-click the Installer icon.



5. Click Continue. When the software license agreement screen appears, read the statement and then click Accept.
6. Select Uninstall from the menu at the upper left, and click Uninstall.

Follow the on-screen instructions.





---

# ***Setting Up Your Printer on a Network***

---

---

## ***For Windows***

### ***Sharing the printer***

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

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

According to the versions of Windows OS and your access rights on the network, perform the appropriate settings of the printer server and clients.

#### **Setting the printer server**

- ❑ For Windows Me/98/95, see “Setting up your printer as a shared printer” on page 146.
- ❑ For Windows XP/2000/NT 4.0, see “Using an additional driver” on page 148.

#### **Setting the clients**

- ❑ For Windows Me/98/95, see “With Windows Me/98/95” on page 155.
- ❑ For Windows XP/2000, see “With Windows XP/2000” on page 157.

- ❑ For Windows NT 4.0, see “With Windows NT 4.0” on page 160.

**Note:**

- ❑ *When sharing the printer, be sure to set EPSON Status Monitor 3 so that the shared printer can be monitored on the printer server. See “Setting Monitoring Preferences” on page 95.*
- ❑ *When you are Windows shared printer user in a Windows Me/98/95 environment, on the server, double-click the Network icon in Control panel and make sure that the “File and printer sharing for Microsoft Networks” component is installed. Then, on the server and clients, make sure that the “IPX/SPX-compatible Protocol” or the “TCP/IP Protocol” is installed.*
- ❑ *The printer server and clients should be set on the same network system, and they should be under the same network management beforehand.*
- ❑ *The on-screen displays on the following pages may differ depending on the version of Windows OS.*

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

When the printer server’s OS is Windows Me/98/95, follow these steps to set the printer server.

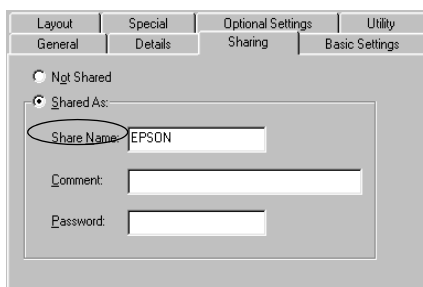
1. Click Start, point to Settings, and click Control Panel.
2. Double-click the Network icon.
3. Click File and Print Sharing on the Configuration menu.
4. Select the I want to be able to allow others to print to my printer(s). check box, then click OK.
5. Click OK to accept the settings.

**Note:**

- ❑ When “Insert the Disk” appears, insert the Windows Me/98/95 CD-ROM in the computer. Click OK and then follow the on-screen instructions.
- ❑ When the prompt to restart the computer appears, restart the computer and continue with the settings. See “For users restarting the computer” on page 147.

**For users restarting the computer**

1. Double-click the Printers icon on the control panel.
2. Right-click your printer icon, and click Sharing in the menu that appears.
3. Select Shared As, type the name in the Share Name box, and click OK. Type a Comment and Password if needed.



**Note:**

- ❑ Do not use spaces or hyphens for the share name, or an error may occur.
- ❑ When sharing the printer, be sure to set EPSON Status Monitor 3 so that the shared printer can be monitored on the printer server. See “Setting Monitoring Preferences” on page 95.

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

- ❑ “With Windows Me/98/95” on page 155
- ❑ “With Windows XP/2000” on page 157
- ❑ “With Windows NT 4.0” on page 160

## ***Using an additional driver***

When the printer server’s OS is Windows 2000, XP, or Windows NT 4.0, you can install the additional drivers in the server. The additional drivers are for client computers that have different OS from the server.

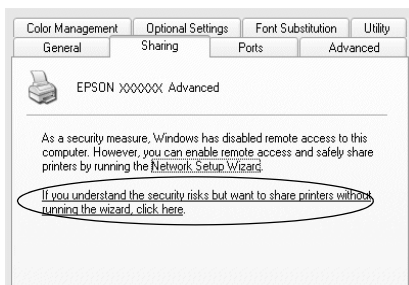
Follow these steps to set a Windows XP, 2000, or Windows NT 4.0 as a printer server, and install the additional drivers.

### ***Note:***

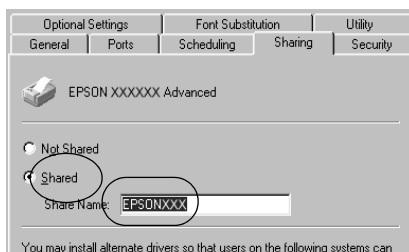
- ❑ *You must access Windows XP, 2000, or Windows NT 4.0 as the Administrators of the local machine.*
  - ❑ *If the Printer server’s OS is Windows NT 4.0, the Additional driver can be used only on Service Pack 4 or later.*
1. For a Windows 2000 or NT 4.0 printer server, click Start, point to Settings, and click Printers.  
For a Windows XP printer server, click Start, point to Printers and Faxes. For Windows XP Home edition users, point to Control panel first, then click Printers and Faxes.
  2. Right-click your printer icon, and click Sharing in the menu that appears.

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

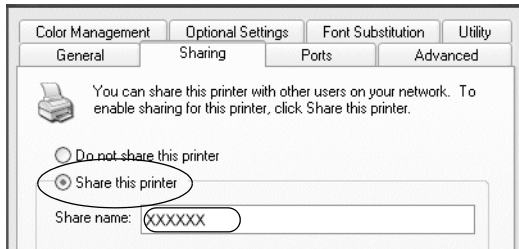
In either case, follow the on-screen instructions.



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



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



**Note:**

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

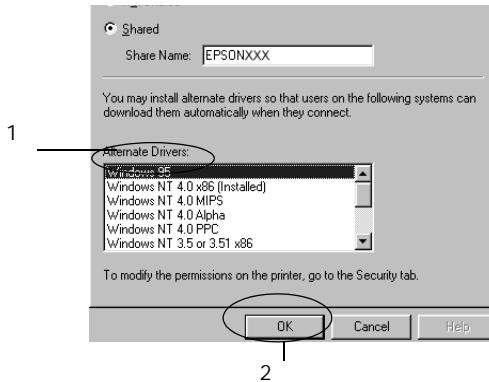
4. Select the additional drivers.

**Note:**

*If the computers of the server and clients use the same OS, you do not have to install the additional drivers. Just click OK after step3.*

On a Windows NT 4.0 printer server

Select Windows being used for clients. For example, select Windows 95 to install the additional driver for the Windows Me/98/95 clients. Then click OK.

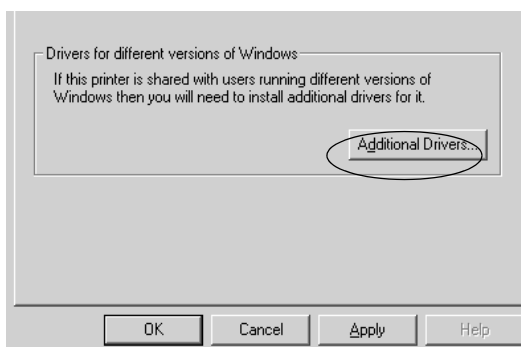


**Note:**

- ❑ *You do not have to select Windows NT 4.0x86, because that driver has been already installed.*
- ❑ *Do not select additional drivers other than Windows 95. The other additional drivers are not available.*

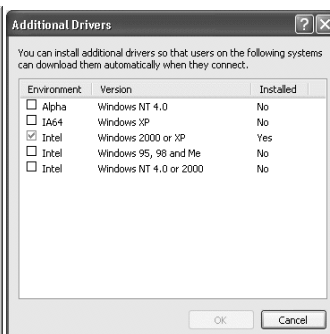
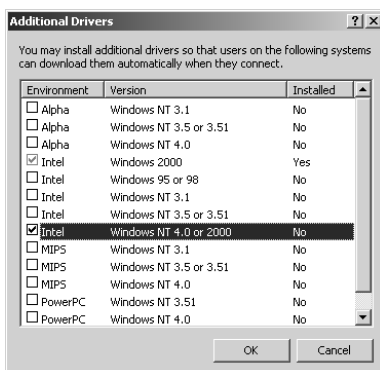
On the Windows XP/2000 printer server

Click Additional Drivers.



Select Windows being used for clients then click OK.

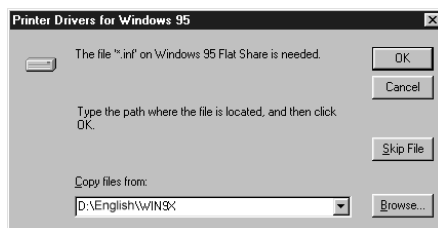
For Windows Me/98/95 clients	Select Intel Windows 95 or 98 (and Me)
For Windows NT 4.0 clients	Select Intel Windows NT 4.0 or 2000
For Windows XP/2000 clients	Intel Windows XP (or 2000) may be already selected.





**Note:**

- ❑ *You do not have to install the additional driver for Intel Windows 2000 (or XP) only, because that driver is preinstalled.*
  - ❑ *Do not select additional drivers other than Intel Windows 95 or 98 (and Me) and Intel Windows NT 4.0 or 2000. The other additional drivers are not available.*
5. When a prompt appears, insert the CD-ROM that comes with your printer in your CD-ROM drive, then click OK.
6. According to the message, type the appropriate drive and folder names in which the printer driver for clients is located, then click OK.
- Depending on the client's OS, the displayed message may differ.



The folder name differs depending on the OS being used.

Client's OS	Folder Name
Windows Me/98/95	\<Language>\WIN9X
Windows NT 4.0	\<Language>\WINNT40

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

7. When installing in Windows 2000/XP, click Close. When installing in Windows NT 4.0, the property window closes automatically.

**Note:**

*Confirm the following items when sharing the printer.*

- ❑ *Be sure to set the EPSON Status Monitor 3 so that the shared printer can be monitored on the printer server. See “Setting Monitoring Preferences” on page 95.*
- ❑ *Set the security for the shared printer (access right for clients). Clients can not use the shared printer without right. For details, see Windows help.*

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

- ❑ “With Windows Me/98/95” on page 155
- ❑ “With Windows XP/2000” on page 157
- ❑ “With Windows NT 4.0” on page 160

## ***Setting for the clients***

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

**Note:**

- ❑ *To share the printer on a Windows network, you need to set the printer server. For details, see “Setting up your printer as a shared printer” on page 146 (Windows Me/98/95) or “Using an additional driver” on page 148 (Windows XP/2000/NT 4.0).*

- ❑ *This section describes how to access the shared printer on a standard network system using the server (Microsoft workgroup). If you cannot access the shared printer due to the network system, ask the administrator of the network for assistance.*
- ❑ *This section describes how to install the printer driver by accessing the shared printer from the Printers folder. You can also access the shared printer from Network Neighborhood or My Network on the Windows desktop.*
- ❑ *You cannot use the Additional driver on server system OS.*
- ❑ *When you want to use the EPSON Status Monitor 3 at clients, you have to install both of the printer driver and the EPSON Status Monitor 3 in each client from the CD-ROM.*

### ***With Windows Me/98/95***

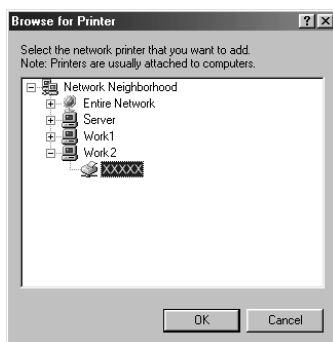
Follow these steps to set Windows Me/98/95 clients.

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

***Note:***

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

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



**Note:**

*The name of the shared printer may be changed by the computer or server that is connected to the shared printer. To make sure of the name of the shared printer, ask the administrator of the network.*

6. Click Next.

**Note:**

- ☐ *If the printer driver is installed in the client beforehand, you need to select the new printer driver or the current printer driver. When the prompt to select the printer driver appears, select the printer driver according to the message.*
- ☐ *If the printer server's OS is Windows Me/98/95 or the additional driver for Windows Me/98/95 is installed in the Windows XP/2000/NT 4.0 printer server, go to the next step.*
- ☐ *If the additional driver for Windows Me/98/95 is not installed in the Windows XP/2000/NT 4.0 printer server, go to "Installing the printer driver from the CD-ROM" on page 162.*

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

**Note:**

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

## **With Windows XP/2000**

Follow these steps to set Windows XP/2000 clients.

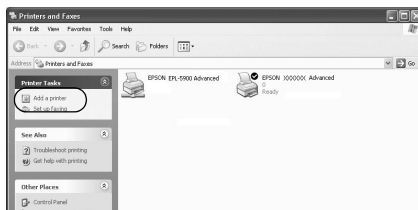
You can install the printer driver of the shared printer, if you have Power Users or more powerful access rights even if you are not the Administrator.

If the printer server's OS is Windows NT 4.0, confirm the following items.

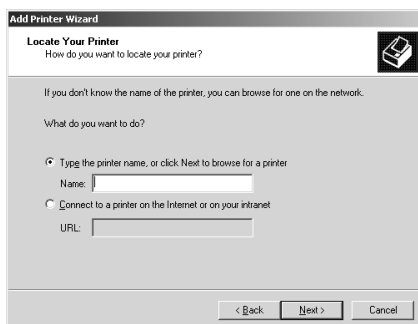
- ☐ In a Windows NT 4.0 printer server, the additional driver for Windows XP/2000 clients is the "Windows NT 4.0 x86" driver which is installed beforehand as the printer driver for Windows NT 4.0. When installing the printer driver in the Windows XP/2000 clients from Windows NT 4.0 printer server, the driver for Windows NT 4.0 is installed.
- ☐ You can not install the printer driver for Windows XP/2000 as the additional driver in a Windows NT 4.0 printer server. To install the printer driver for Windows XP/2000 in Windows XP/2000 clients, the administrator installs the local printer driver in the clients from the CD-ROM that comes with the printer, then performs the following procedure.
  1. For Windows 2000 clients, click Start, point to Settings, and click Printers.  
For Windows XP clients, click Start, point to Printers and Faxes. For Windows XP Home edition users, point to Control panel first, then click Printers and Faxes.

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

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



3. Select Network printer (for Windows 2000) or A network printer, or a printer attached to another computer (for Windows XP), then click Next.
4. For Windows 2000, type the name of the shared printer, then click Next.



**Note:**

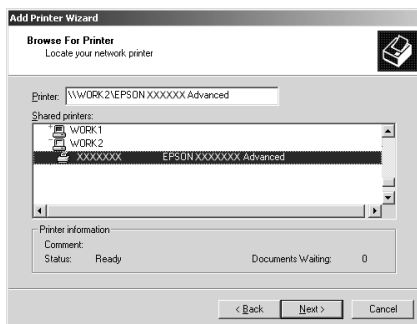
- ❑ **You can also type “\\(the name of the computer that is locally connected to the shared printer)\\(the shared printer’s name)” in *Network path or queue name*.**

- ❑ *You do not necessarily need to type the name of the shared printer.*

For Windows XP, select Browse for a printer.



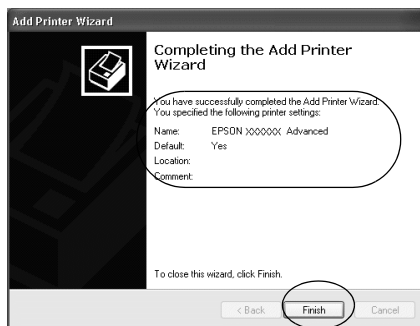
5. Click the icon of the computer or server that is connected to the shared printer, and the name of the shared printer. Then click OK.



**Note:**

- ❑ *The name of the shared printer may be changed by the computer or server that is connected to the shared printer. To make sure of the name of the shared printer, ask the administrator of the network.*

- ❑ *If the printer driver is installed in the client beforehand, you need to select either the new printer driver or the current printer driver. When the prompt to select the printer driver appears, select the printer driver according to the message. If the local printer driver for Windows XP/2000 is installed beforehand, you can select the printer driver for Windows XP/2000 as the current printer driver instead of the alternative driver in the Windows NT 4.0 server.*
  - ❑ *If the additional driver for Windows XP/2000 (NT 4.0) is installed in the Windows XP/2000/NT 4.0 printer server, go to the next step.*
  - ❑ *If the additional driver is not installed in the Windows NT 4.0 printer server or the printer server's OS is Windows Me/98/95, go to "Installing the printer driver from the CD-ROM" on page 162.*
6. For Windows 2000, select whether to use the printer as the default printer or not, then click OK.
  7. Make sure of the settings, then click Finish



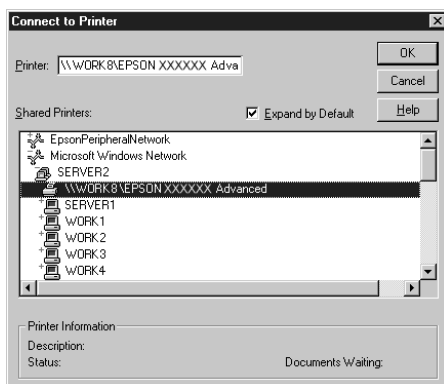
## **With Windows NT 4.0**

Follow these steps to set Windows NT 4.0 clients.



You can install the printer driver of the shared printer, if you have Power Users or more powerful access rights even if you are not the Administrator.

1. Click Start, point to Settings, and click Printers.
2. Double-click the Add Printer icon.
3. Select Network printer server, then click Next.
4. Click the icon of the computer or server that is connected to the shared printer and the name of the shared printer. Then click OK.



**Note:**

- ❑ *You can also type "\\(the name of the computer that is locally connected to the shared printer)\\(the shared printer's name)" in Network path or queue name.*
- ❑ *The name of the shared printer may be changed by the computer or server that is connected to the shared printer. To make sure of the name of the shared printer, ask the administrator of the network.*

- ☐ *If the printer driver is installed in the client beforehand, you need to select the new printer driver or the current printer driver. When the prompt to select the printer driver appears, select the printer driver according to the message.*
  - ☐ *If the additional driver for Windows NT 4.0 is installed in the Windows XP/2000 printer server, go to the next step.*
  - ☐ *If the additional driver for Windows NT 4.0 is not installed in the Windows XP/2000 printer server or the printer server's OS is Windows Me/98/95, go to "Installing the printer driver from the CD-ROM" on page 162.*
5. Select whether to use the printer as the default printer or not, then click OK.
  6. Click Finish.

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

This section describes how to install the printer driver in the clients when setting the network system as follows:

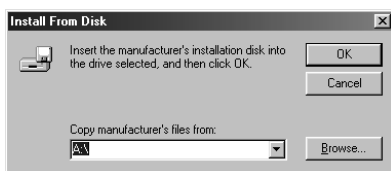
- ☐ The additional drivers are not installed in the Windows XP/2000/NT 4.0 printer server.
- ☐ The printer server's OS is the Windows Me/98/95 and the client's OS is the Windows XP/2000/NT 4.0.

The on-screen displays on the following pages may differ depending on the version of Windows OS.

### ***Note:***

- ☐ *When installing in Windows XP/2000/NT 4.0 clients, you must access Windows XP/2000/NT 4.0 with the Administrator.*

- ❑ *If the additional drivers are installed on the computers of the server and clients use the same OS, you do not have to install the printer drivers from the CD-ROM.*
1. Access the shared printer and a prompt may appear. Click OK, and then follow the on-screen instructions to install the printer driver from the CD-ROM.
  2. Insert the CD-ROM, then type the appropriate drive and folder names in which the printer driver for clients is located, then click OK.



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

The folder name differs depending on the OS being used.

Client's OS	Folder Name
Windows Me/98/95	\<Language>\WIN9X
Windows 2000/XP	\<Language>\WIN2000
Windows NT 4.0	\<Language>\WINNT40

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

---

## ***For Macintosh***

### ***About the shared printer***

This section describes how to share the printer on an AppleTalk network.

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

***Note:***

*Printer sharing function can be used in Mac OS 8.1 to 9.X.*

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

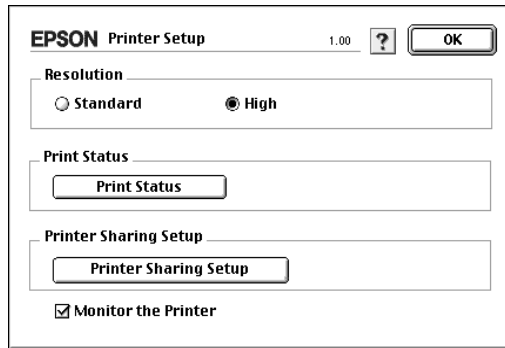
Follow these steps to share a printer connected directly to your computer with other computers on an AppleTalk network.

1. Turn on the printer.
2. Select Chooser from the Apple menu and click the AL-C1900 Advanced icon. Then select USB port in the “Select a printer port” box on the right.

***Note:***

*Make sure On is selected under Background Printing.*

3. Click Setup. The following dialog box appears.



4. Under Printer Sharing Set Up, click Printer Sharing Setup. The following dialog box appears.



5. Select the Share this Printer check box, then type the printer name and password information as needed.
6. Click OK.
7. Close Chooser.

## Accessing the shared printer

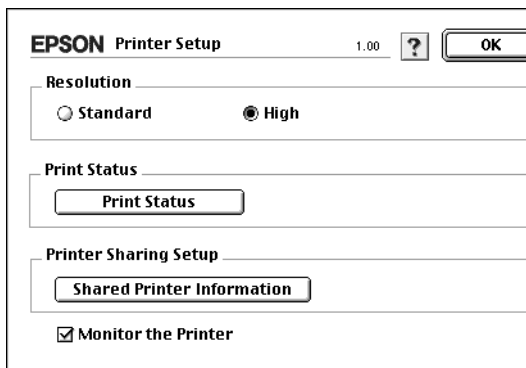
Follow these steps to access your printer from another computer on the network.

1. Turn on your printer.
2. On each computer from which you want to access the printer, select Chooser from the Apple menu. Then click the AL-C1900 Advanced (AT) icon and select the name of the shared printer in the “Select a printer port” box on the right. You can only select from the printers connected to your current AppleTalk zone.

**Note:**

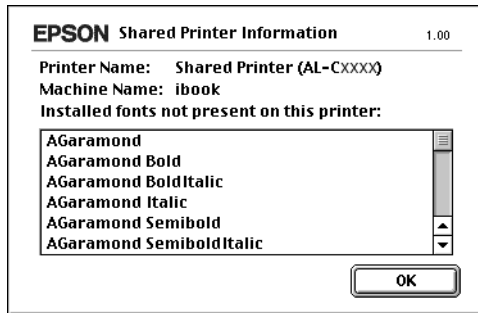
*Make sure On is selected under Background Printing.*

3. Click Setup, enter the password for the printer, then click OK. The following dialog box appears.



4. Under Printer Sharing Set Up, click Shared Printer Information.

5. The following type of message appears if the client has fonts that are unavailable on the printer server.



6. Click OK to close the message.
7. Close Chooser.





---

# Installing Options

---

## 500-Sheet Paper Cassette Unit

The following table summarizes the paper types and sizes that you can use with the 500-Sheet Paper Cassette Unit.

Paper Type	Paper Size	Capacity
Plain paper	A4	Up to 500 sheets in the cassette (Total thickness: 57 mm maximum for the cassette)
EPSON Color Laser Paper	A4	Up to 500 sheets in the cassette

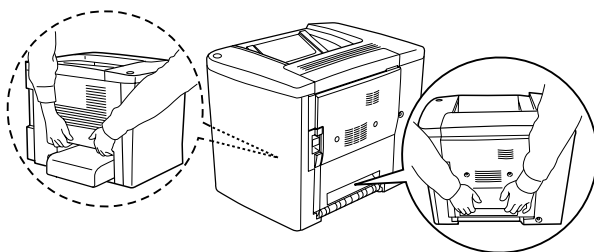
**Note:**

*Load paper with the printable surface facing up.*

### Handling precautions

Always pay attention to the following handling precautions before installing the option.

The printer weighs about 30 kg (66.1 lb). One person should never attempt to lift or carry it alone. Two people should carry the printer, lifting it from the positions shown below.

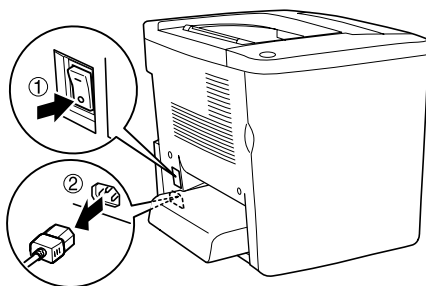


**Warning:**

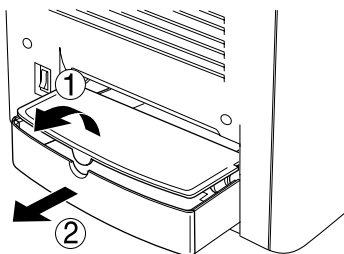
*If you lift the printer incorrectly, you could drop it and cause injury.*

Follow these steps to install the optional 500-Sheet Paper Cassette Unit.

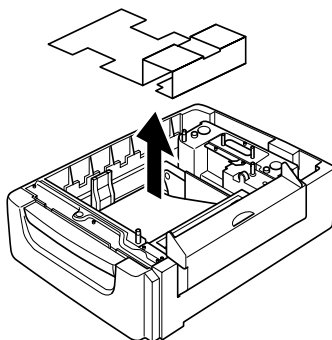
1. Turn the printer off and unplug the power cord.



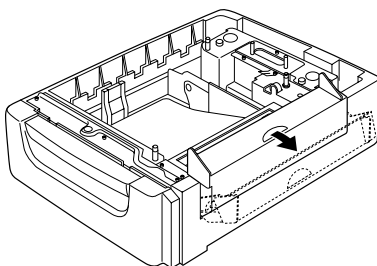
2. Remove the MP tray. If any paper is inside, remove it.



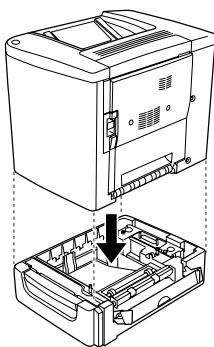
3. Take the optional 500-Sheet Paper Cassette Unit out of the cardboard box, then remove the protective materials in the cassette.



4. Open Cover C of the 500-Sheet Paper Cassette Unit.



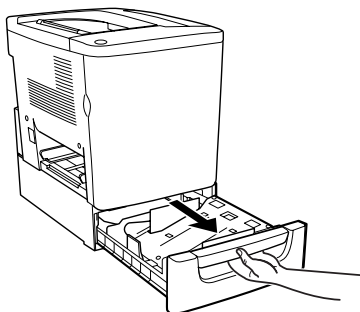
5. Place the printer onto the 500-Sheet Paper Cassette Unit. Align each of the printer's corners with those of the unit, then lower the printer until it rests securely on the unit.



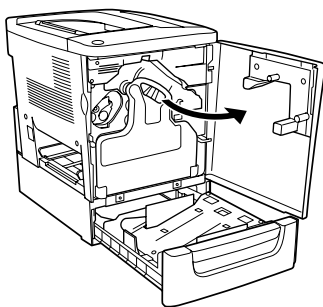
**Note:**

*The printer should be carried by at least two people, holding the printer with their hands in the indicated positions.*

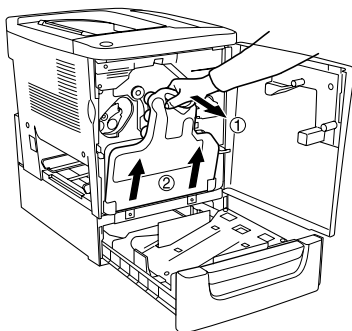
6. Pull out the cassette of the unit.



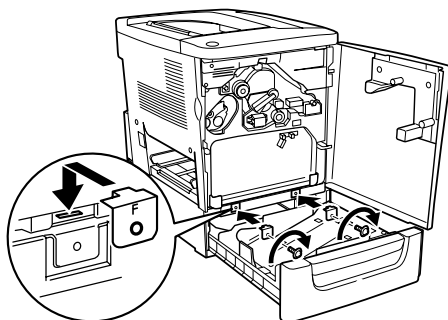
7. Open the front cover.



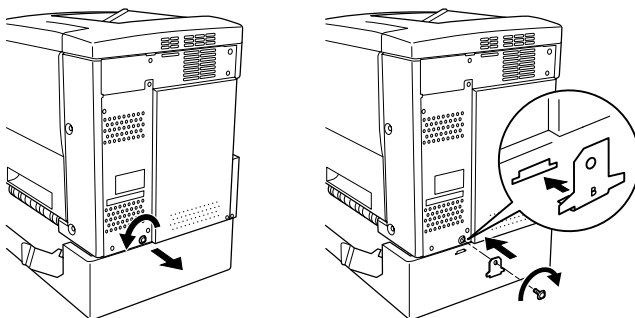
8. Remove the waste toner collector.



9. Put the two attached F plates ("F" is imprinted) on the cassette, and tighten the screws.



10. Reinstall the waste toner collector.
11. Close the front cover and the cassette of the unit.
12. Remove the screw from the back side of the printer. Install plate B ("B" is imprinted) and secure the screw you removed.



**Note:**

*When the 500-Sheet Paper Cassette Unit is installed, Cover C will automatically be opened when opening Cover AB of the printer. Therefore, be sure to close Cover C when you open Cover AB of the printer.*

13. Close Cover C, then reinstall the MP tray and paper if necessary.

### *Removing the 500-Sheet Paper Cassette Unit*

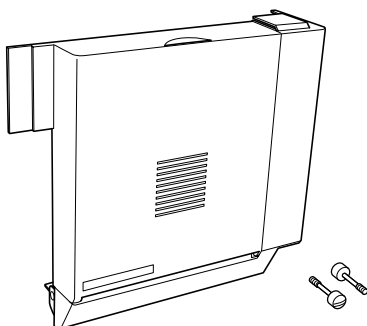
Perform the installation procedure in reverse.

---

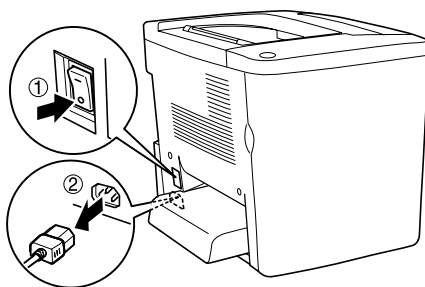
## **Duplex Unit**

Follow these steps to install the optional Duplex Unit.

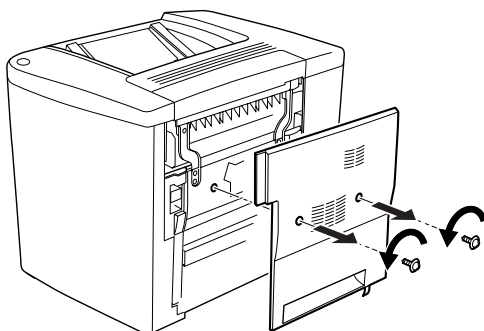
The illustration below shows all the items packed together with the Duplex Unit.



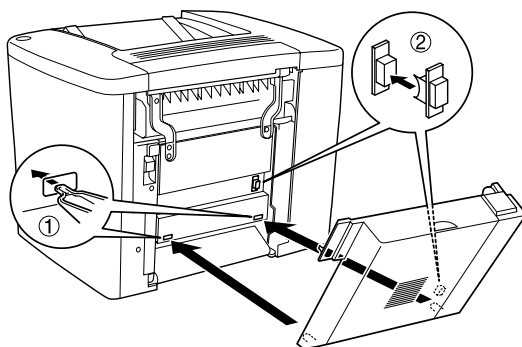
1. Turn the printer off and unplug the power cord.



2. Remove the two screws and the shield from Cover AB with a cross-head screwdriver.

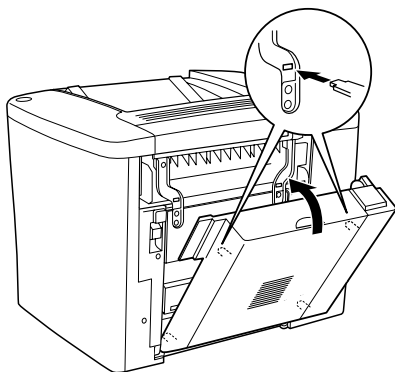


3. Put the Duplex Unit on the right of the printer as shown below. Make sure that the unit hooks onto the lower tabs and the connector connects into the slot.

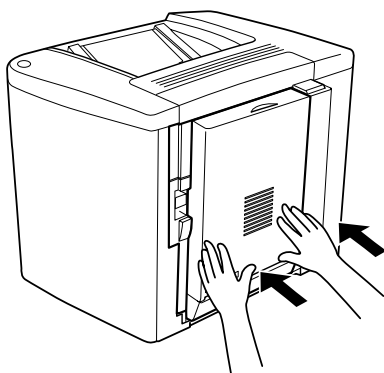




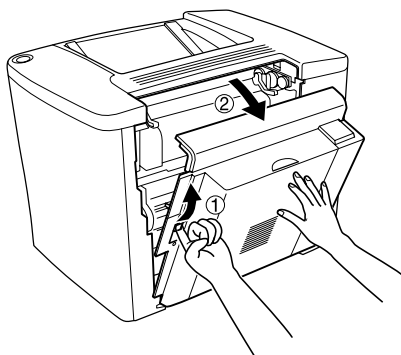
4. Make sure that the unit hooks onto the upper tabs when attaching the unit.



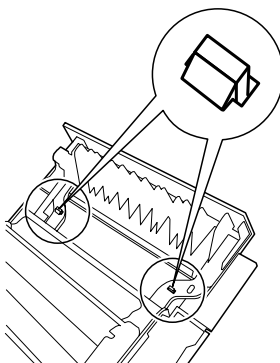
5. Press Cover DM as shown below.



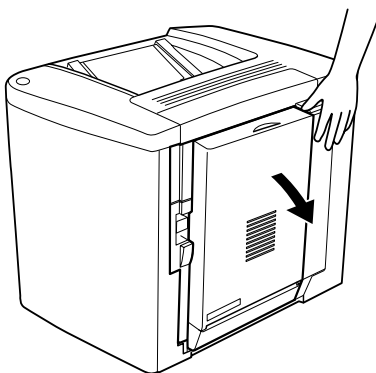
6. While supporting the Duplex Unit, open Cover AB.



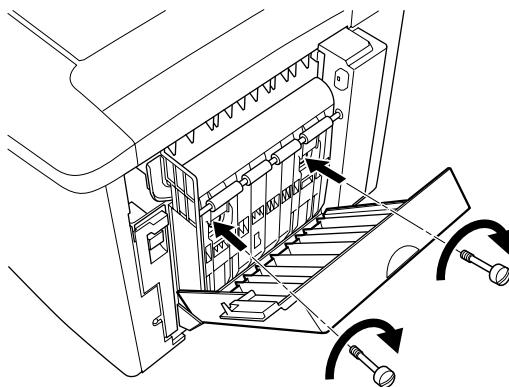
7. Check that the two tabs on the unit are correctly hooked onto Cover AB.



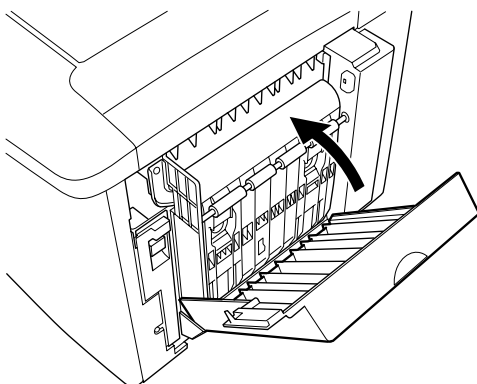
8. While supporting the Duplex Unit, open Cover DM.



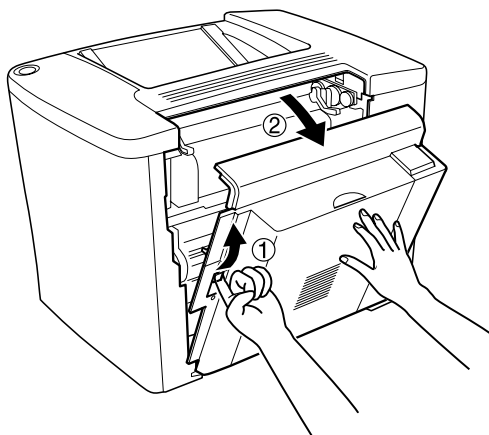
9. Secure the Duplex Unit to Cover AB with the two screws provided. Tighten the screws with either a screwdriver or a coin.



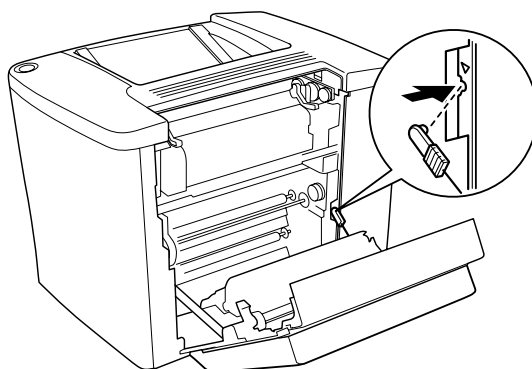
10. Close Cover DM.



11. Open Cover AB to which the Duplex Unit is attached.



12. Connect the spring on the Duplex Unit to the printer.



13. Close Cover AB.

### *Removing the Duplex Unit*

Perform the installation procedure in reverse.

---

## ***Hard Disk Drive***

Follow these steps to install the optional Hard Disk Drive.



***Warning:***

*Be careful when working inside the printer as some components are sharp and may cause injury.*



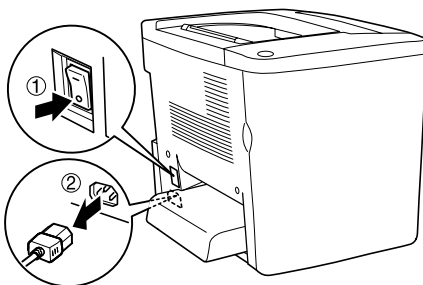
***Caution:***

*Before you install the Hard Disk Drive, be sure to discharge any static electricity by touching a grounded piece of metal. Otherwise, you may damage static-sensitive components.*

**Note:**

*If you used the Hard Disk Drive in other EPSON's printer before, such as the AcuLaser-C8600 or the AcuLaser-C4000, you have to format the Hard Disk Drive. See "Formatting the Hard Disk Drive" on page 186 for details.*

1. Turn the printer off and unplug the power cord.

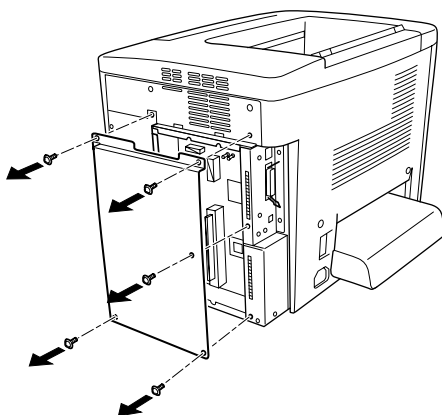


2. Remove all interface cables from the interface connectors.
3. Loosen the five screws on the back of the printer, and remove the shield.

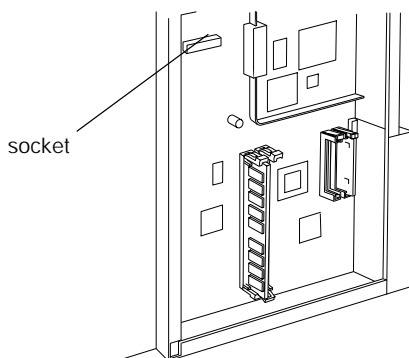


**Warning:**

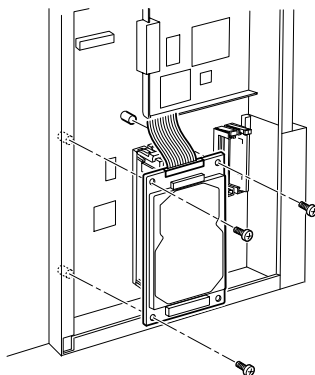
*Removing other screws and covers will expose high voltage areas.*



4. Identify the Hard Disk Drive socket.



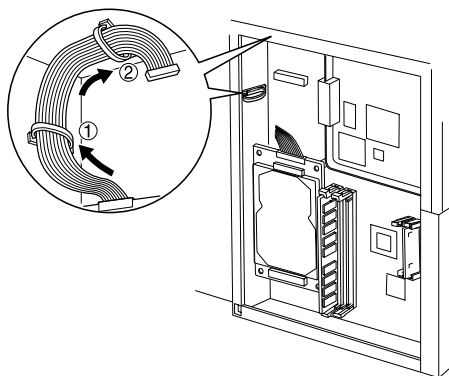
5. Install the Hard Disk Drive securely with the screws.



**Caution:**

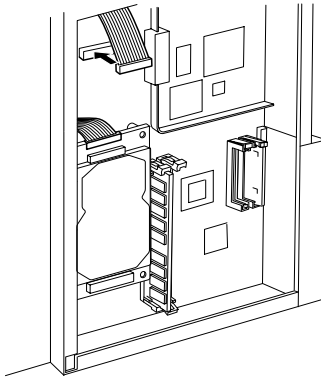
*You should not remove any modules from the circuit board. Otherwise, the printer will not work.*

6. Use the two clamps as shown below to hold the IDE cable in place.

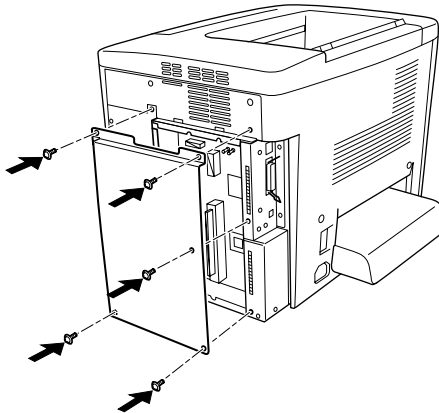




7. Connect the connector of the cable as shown below.



8. Return the printer to its original state, as shown below.



9. Plug the printer's power cord into an electrical outlet.
10. Turn on the printer.
11. To confirm that the option is installed correctly, print a status sheet. See "Printing a Status Sheet" on page 196.

## *Removing the Hard Disk Drive*

Perform the installation procedure in reverse.

## *Formatting the Hard Disk Drive*

To format the Hard Disk Drive, follow the instructions below.

1. Make sure the printer is off and all interface cables are disconnected.
2. Hold down the ▼ Down button while you turn on the printer.
3. When you see the message `Support Mode` on the LCD panel, select `HDD Format` in the support menu.

### **Note:**

- ❑ *After formatting the Hard Disk Drive, the printer will automatically reboot.*
- ❑ *When you want to erase only the fonts installed from the optional Adobe PostScript 3 (PS3), follow steps 1 through 3 above. Select `PS3 HDD Init` when the optional Adobe PostScript 3 Kit is installed.*
- ❑ *Other fonts installed from PS3 will also be erased.*
- ❑ *When installing a Hard Disk Drive from other products, format it with this function.*

---

## **Memory Module**

This printer has two DIMM slots, but one slot has a 32MB DIMM already installed in it at the time of manufacture. To increase printer memory to its maximum of 1 GB, you have to purchase two 512 MB DIMMs and remove the original 32MB DIMM.

You can purchase DIMMs from various vendors. See “Memory module” on page 324.

**Note:**

*The total printer memory is the standard 32MB plus the optional DIMM. For example, if you install an optional 64MB DIMM, the total printer memory is 96 MB.*

Follow these steps to install an optional memory module.



**Warning:**

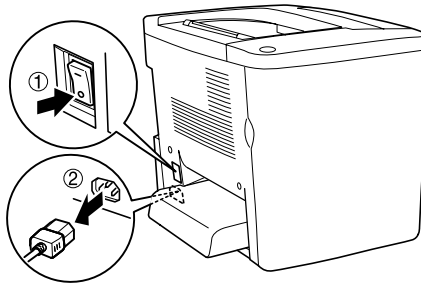
*Be careful when working inside the printer as some components are sharp and may cause injury.*



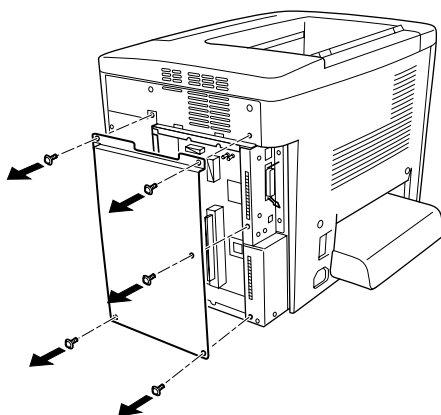
**Caution:**

*Before you install a memory module, be sure to discharge any static electricity by touching a grounded piece of metal. Otherwise, you may damage static-sensitive components.*

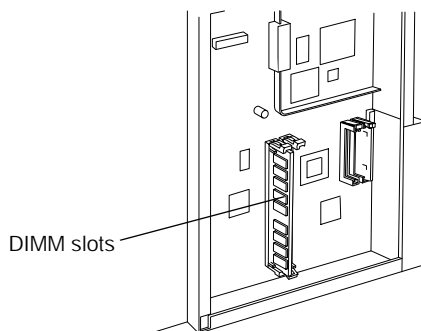
1. Turn the printer off and unplug the power cord.



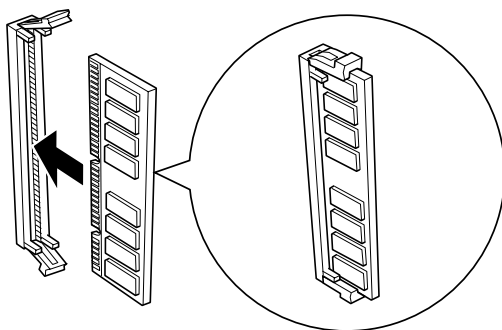
2. Prepare the printer as shown below to access the DIMM slots.



3. Identify the DIMM slots.



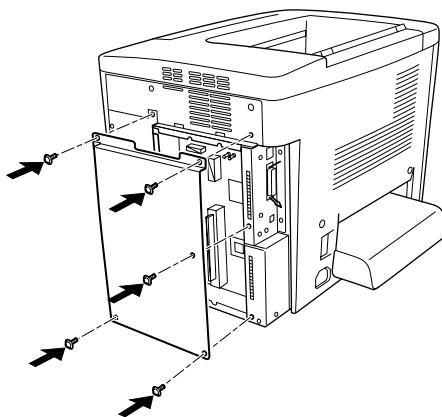
4. Insert the DIMM into either slot until the two clips lock onto the DIMM. Make sure that the S0 slot has a module at all times.



**Caution:**

- ❑ *Do not force the DIMM into the slot.*
- ❑ *Be sure to insert the DIMM facing the correct way.*
- ❑ *You should not remove any modules from the circuit board. Otherwise, the printer will not work.*

5. Return the printer to its original state as shown below.



6. Plug the printer's power cord into an electrical outlet.
7. Turn on the printer.
8. To confirm that the option is installed correctly, print a status sheet. See "Printing a Status Sheet" on page 196.

### *Removing a memory module*

Perform the installation procedure in reverse.

---

## **Adobe PostScript 3 ROM Module**

Follow these steps to install the optional Adobe PostScript 3 ROM module.



**Warning:**

*Be careful when working inside the printer as some components are sharp and may cause injury.*



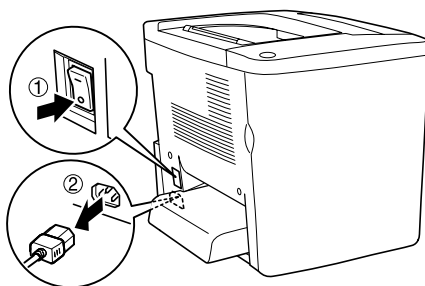
**Caution:**

*Before you install the ROM module, be sure to discharge any static electricity by touching a grounded piece of metal. Otherwise, you may damage static-sensitive components.*

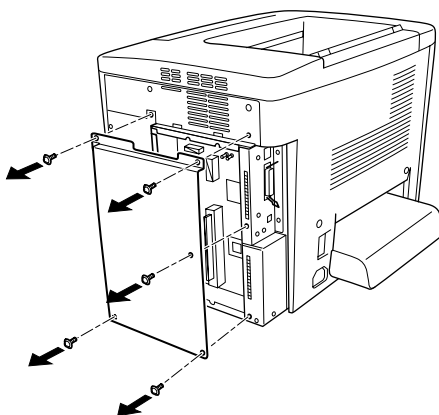
**Note:**

- ☐ *The optional ROM modules that expand your printer's features differ, depending on the country of purchase.*
- ☐ *The Adobe PostScript 3 ROM Module cannot be used for a Macintosh connected with the IEEE 1394 Type B Interface Card.*

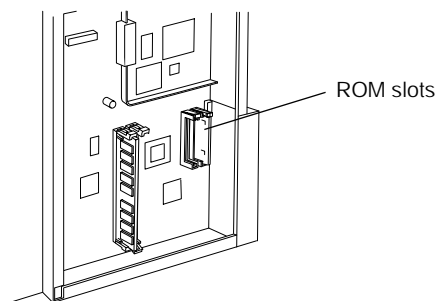
1. Turn the printer off and unplug the power cord.



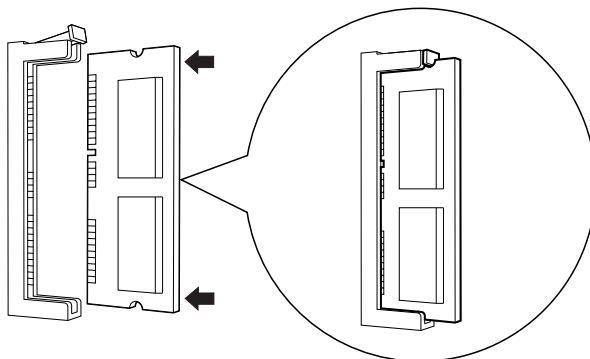
2. Prepare the printer as shown below.



3. Identify the ROM slots.



4. Insert the module firmly into the slot, as shown below.

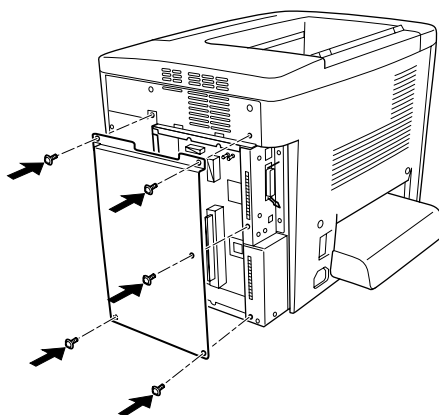


**Caution:**

- ☐ *Do not force the ROM module into the slot.*
- ☐ *Be sure to insert the module facing the correct way.*
- ☐ *You should not remove any modules from the circuit board. Otherwise, the printer will not work.*



5. Return the printer to its original state as shown below.



6. Plug the printer's power cord into an electrical outlet.
7. Turn on the printer.
8. To confirm that the option is installed correctly, print a status sheet. See "Printing a Status Sheet" on page 196.

### *Removing the Adobe PostScript 3 ROM module*

Perform the installation procedure in reverse.

---

## **Interface Cards**

Your printer comes with a Type B interface slot. Various optional interface cards are available to expand your printer's interface options.

### **Note:**

*Mac OS 8.5.1 to 9.X support the Type B IEEE 1394 Interface Card (C12C82372\*). It can be connected to a Macintosh® FireWire® port.*

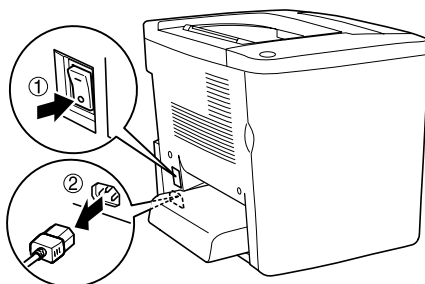
Follow these steps to install an optional interface card.



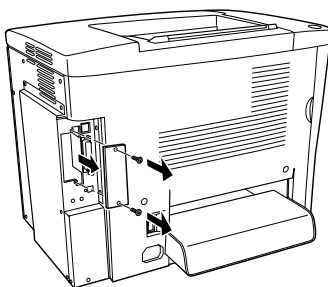
**Caution:**

*Before you install the interface card, be sure to discharge any static electricity by touching a grounded piece of metal. Otherwise, you may damage static-sensitive components.*

1. Turn the printer off and unplug the power cord.



2. Be sure to set any switches and jumpers on the card, as necessary. See the interface card's manual for details.
3. Remove the screws and the cover as shown below.



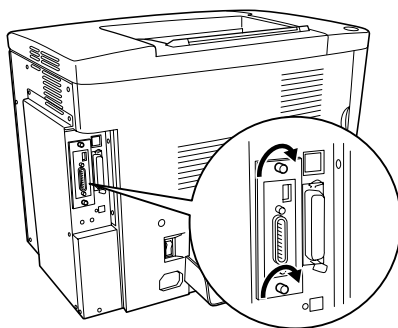
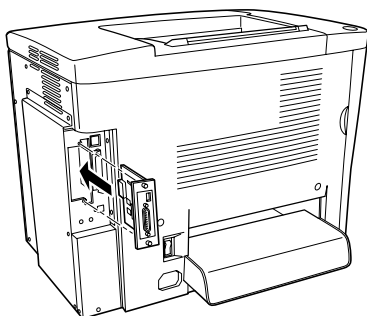
**Warning:**

*Removing other screws and covers will expose high voltage areas.*

**Note:**

*Keep the slot cover in a safe place. You will need to reattach it if you remove the interface card later.*

4. Slide and push the interface card into the slot firmly, then fasten the screw as shown below.



5. Plug the printer's power cord into an electrical outlet.
6. Turn on the printer.
7. To confirm that the option is installed correctly, print a status sheet. See "Printing a Status Sheet" on page 196.


## Removing an interface card

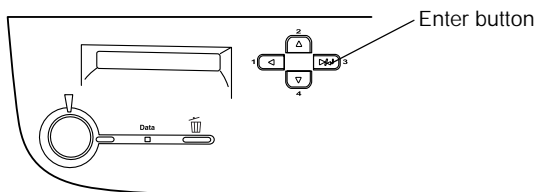
Perform the installation procedure in reverse.

---

## Printing a Status Sheet

To confirm that the options are installed correctly, print a status sheet using the printer's control panel.

1. Turn on the printer. The LCD panel shows **Ready**.
2. Press the  Enter button three times. The printer prints a status sheet.



3. Confirm that the information about the installed options is correct. If the options are installed correctly, they appear under **Hardware Configurations**. If the options are not listed, try reinstalling them.

### **Note:**

- ❑ *If the status sheet does not list your installed options correctly, make sure that they are securely connected to the printer.*
- ❑ *If you are unable to get the printer to print a correct status sheet, contact your dealer.*

- ❑ *You can update the installed option information manually. Click the Optional Settings **tab**, select Update the Printer Option Information Manually, then click Settings. The **Optional Settings** dialog box appears. Make settings for each installed option, then click OK.*



# ***Functions of the Control Panel***

---

## ***Using the Control Panel Menus***

---

You can use the printer's control panel to access a variety of menus that allow you to check the status of consumable products, print status sheets, and make printer settings. This section describes how to use the control panel menus, and when it is appropriate to make printer settings using the control panel.

## ***When to make control panel settings***

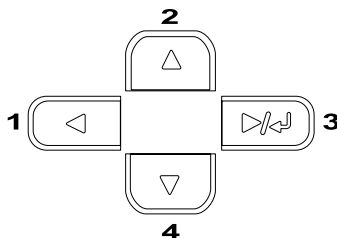
In general, printer settings can be made from the printer driver, and do not need to be made using the control panel. In fact, printer drive settings override settings made using the control panel, so use the control panel menus only to make settings you cannot make in your software or printer driver, 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


## ***How to access the control panel menus***

For a complete description of the items and settings available in the control panel menus, see “Control Panel Menus” on page 203.

1. When the printer's Ready light is on, press any of the control panel buttons shown below accesses the control panel menus.



2. Use the ▲ Up and ▼ Down buttons to scroll through the menus.
3. Press the  Enter button to view the items in a menu. Depending on the menu, the LCD panel displays an item and the current setting separated by an asterisk (YYY\*ZZZ), or only an item (YYY).
4. Use the ▲ Up and ▼ Down buttons to scroll through the items, or press the ◀ Back button to return to the previous level.
5. Press the  Enter button to carry out the operation indicated by an item, such as printing a status sheet or resetting the printer, or to view the settings available for an item, such as paper sizes or emulation modes.

Use the ▲ Up and ▼ Down buttons to scroll through available settings, and press the  Enter button to select a setting and return to the previous level. Press the ◀ Back button to return to the previous level without changing the setting.

**Note:**

*You need to turn the printer off and then on to activate some settings. For details, see “Control Panel Menus” on page 203.*

6. Press the ○ Start/Stop button to exit the control panel menus.








---

## ***Printing and Deleting Reserve Job Data***


Print jobs stored on the printer's optional Hard Disk Drive using the Re-Print Job, Verify Job, and Stored Job options of the Reserve Job function can be printed and deleted using the control panel's Quick Print Job Menu. Jobs saved using the Confidential Job option can be printed from the Confidential Job Menu. Follow the instructions in this section.

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

Follow these steps to print or delete Re-Print Job, Verify Job, and Stored Job data.




1. Make sure the LCD panel displays **Ready** or **Sleep**, then press the  Enter button to access the control panel menus.
2. Press the ▼ Down button repeatedly until **Quick Print Job Menu** appears on the LCD panel, then press the  Enter button.
3. Use the ▼ Down or ▲ Up button to scroll to the appropriate user name, then press the  Enter button.
4. Use the ▼ Down or ▲ Up button to scroll to the appropriate job name, then press the  Enter button.
5. To specify the number of copies you want to print, press the  Enter button, then use the ▼ Down and ▲ Up buttons to select the number of copies.

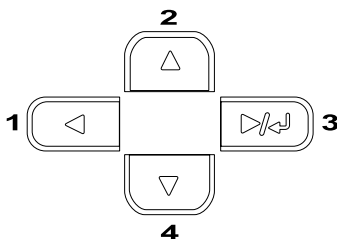
To delete the print job without printing any copies, press the ▼ Down button to display **Delete** on the LCD panel.

6. Press the  Enter button to start printing or to delete the data.


## Using the Confidential Job Menu


Follow these steps to print or delete Confidential Job data.

1. Make sure the LCD panel displays *Ready* or *Sleep*, then press the  Enter button to access the control panel menus.
2. Press the ▼ Down button repeatedly until *ConfidentialJobMenu* appears on the LCD panel, then press the  Enter button.
3. Use the ▼ Down or ▲ Up button to scroll to the appropriate user name, then press the  Enter button.
4. Enter your four-digit password by using the corresponding buttons, as shown below.




**Note:**

- ❑ Passwords are always four digits.
  - ❑ Passwords consist of numbers from 1 through 4.
  - ❑ If no print jobs have been saved with the password you entered, *Password Error* appears briefly on the LCD panel then the printer exits the control panel menus. Confirm the password and try again.
5. Use the ▼ Down or ▲ Up button to scroll to the appropriate job name, then press the  Enter button.

6. To specify the number of copies you want to print, press the  Enter button, then use the ▼ Down and ▲ Up buttons to select the number of copies.

To delete the print job, press the ▼ Down button to display Delete on the LCD panel.

7. Press the  Enter button to start printing or to delete the data.

---

## ***Control Panel Menus***

For a summary of the control panel menus, see the table below.  
For details on the items and settings on the menus, see the descriptions for each menu later in this section.

### ***Control panel menu summary***

The following table shows the order in which control panel menus and menu items appear on the LCD panel.

Press the ▲ Up and ▼ Down buttons to scroll through the menus.  
The menus and menu items appear in the order shown below.

**Note:**


*Some menus and items in the following table appear only when a corresponding optional device is installed or an appropriate setting has been done.*

Menu	Items
Information Menu	Status Sheet, Reserve Job List, Form Overlay List, Network Status Sheet, AUX Status Sheet, PS3 Status Sheet, PS3 Font List, LJ4 Font Sample, ESCP2 Font Sample, FX Font Sample, I239X Font Sample, C Toner, M Toner, Y Toner, K Toner, Photocondctr, Total Pages, Color Pages, B/W Pages
Status Menu	See "Status Menu" on page 208 for details.
Tray Menu	MP Tray Size, LC Size, MP Type, LC Type,
Emulation Menu	Parallel, USB, Network, AUX
Printing Menu	Page Size, Wide A4, Orientation, Resolution, RITech, Toner Save, Image Optimum, Top Offset, LeftOffset, T Offset B, L Offset B
Setup Menu	Lang, Time Out, Paper Source, MP Mode, Manual Feed, Copies, Duplex, Binding, Start Page, Paper Type, Page Side, Skip Blank Page, Auto Eject Page, Size Ignore, Auto Cont, Page Protect, Toner Out, LCD Contrast
Quick Print Job Menu	User, Job, Copies, Delete
ConfidentialJobMenu	User, Enter Password, Job, Copies, Delete
Reset Menu	Clear Warning, Clear All Warnings, Reset, Reset All, SelecType Init, Change Toner C, Change Toner M, Change Toner Y, Change Toner K
Parallel Menu	Parallel I/F, Speed, Bi-D, Buffer Size
USB Menu	USB I/F, Buffer Size
Network Menu	Network I/F, Network Config, Get IPAddress, IP, SM, GW, Buffer Size
AUX Menu	AUX I/F, AUX Config, Get IPAddress, IP, SM, GW, NetWare, AppleTalk, NetBEUI, AUX Init, Buffer Size

<b>Menu</b>	<b>Items</b>
LJ4 Menu	FontSource, 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, Pen3, Pen4, Pen5, Pen6
PS3 Menu	Error Sheet, Coloration, Image Protect
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

## ***Information Menu***

From this menu you can check the toner level and the remaining service life of consumable products. You can also print status and sample sheets showing the printer's current settings, available fonts, and a brief summary of available features.

Press the ▼ Down or ▲ Up button to select an item. Press the  Enter button to print a sheet or font sample.

Item	Settings
Status Sheet	-
Reserve Job List	(Displayed when Reserve Job List is registered.)
Form Overlay List	(Displayed when Form Overlay List is registered.)
Network Status Sheet	-
AUX Status Sheet*	-
PS3 Status Sheet**	-
PS3 Font List**	-
LJ4 font Sample	-
ESCP2 Font Sample	-
FX Font Sample	-
I239X Font Sample	-
C Toner	E****F, E*** F, E** F, E* F, E F
M Toner	E****F, E*** F, E** F, E* F, E F
Y Toner	E****F, E*** F, E** F, E* F, E F
K Toner	E****F, E*** F, E** F, E* F, E F
Photoconductr	E****F, E*** F, E** F, E* F, E F
Total Pages	0 to 99999999
Color Pages	0 to 99999999
B/W Pages	0 to 99999999

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

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

*Status Sheet, Network Status Sheet, AUX Status Sheet, PS3 Status Sheet*

Prints a sheet according to the current printer settings and installed options. These sheets can be useful to confirm whether options have been installed correctly.

*Reserve Job List*

Prints a list of reserved print jobs stored in the optional Hard Disk Drive.

*Form Overlay List*

Prints a list of the form overlays stored in the optional Hard Disk Drive.

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

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

*C Toner/M Toner/Y Toner/K Toner/Photoconductr*

Displays the amount of toner left in the toner cartridges, and the remaining service life of the photoconductor unit, as shown below:

E****F	(100 to 76%)
E*** F	(74 to 52%)
E** F	(50 to 26%)
E* F	(24 to 2%)
E F	(0%)

### *Total Pages*

Displays the total number of pages printed by the printer.

### *Color Pages*

Displays the total number of pages printed in color by the printer.

### *B/W Pages*

Displays the total number of pages printed in black-white by the printer.

## ***Status Menu***

This menu is displayed only when a warning occurs. You can see the errors by entering SelecType mode.

## ***Tray Menu***

This menu allows you to specify the size and type of paper loaded in the MP tray. Accessing this menu also lets you check the size of the paper currently loaded in the lower cassettes.



The paper type settings in this menu can also be made from your printer driver. Settings you make in your printer driver override these settings, so use your printer driver whenever you can.

Item	Settings (default in bold)
MP Tray Size	<b>A4*</b> , A5, B5, <b>LT*</b> , HLT, GLT, EXE, MON, C10, DL, C5, C6, IB5
LC Size**	<b>A4</b> , LT,
MP Type	<b>Plain</b> , Letterhead, Recycled, Color, Trnsprncy, Labels
LC Type	<b>Plain</b> , Recycled, Color

\* Depends on factory setting

\*\* Displayed only when the optional Large Capacity Paper Unit is installed.

### *MP Tray Size*

Select your paper size from this menu.

### *LC Size*

Displays the paper size loaded in the optional lower cassette. You can change the paper size from **A4** to **LT** using this menu.

### *MP Type*

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

### *LC Type*

Lets you select the paper type loaded in the optional lower cassette.

## 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, ESC P2, FX, GL2, or I239X menu, as necessary. The settings you can choose from are the same for every interface.

Item	Settings (default in bold)
Parallel	<b>Auto</b> , LJ4, ESCP2, FX, I239X, PS3*, GL2
USB	<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 optional Adobe PostScript 3 ROM module is installed.

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

## Printing Menu

This menu allows you to make standard print settings, such as Page Size and Orientation, 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 on your computer always override these settings.

Item	Settings (default in bold)
Page Size	<b>A4*</b> , A5, B5, <b>LT*</b> , HLT, GLT, EXE, MON, C10, DL, C5, C6, IB5, CTM
Wide A4	<b>Off</b> , On
Orientation	<b>Port</b> , Land
Resolution	<b>600</b> , 300
RITech	<b>On</b> , Off
Toner Save	<b>Off</b> , On
Image Optimum	<b>Auto</b> , Off, On
Top Offset	-99.0 to <b>0.0</b> to 99.0 mm in 0.5 increments
Left Offset	-99.0 to <b>0.0</b> to 99.0 mm in 0.5 increments
T Offset B	-99.0 to <b>0.0</b> to 99.0 mm in 0.5 increments
L Offset B	-99.0 to <b>0.0</b> to 99.0 mm in 0.5 increments

\* Depends on factory setting

## *Page Size*

Specifies the paper size.

## *Wide A4*

Selecting **On** decreases the left and right margins from 4 mm to 3.4 mm.

## *Orientation*

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

## *Resolution*

Specifies the printing resolution.

## *RI Tech*

Turning RITech on produces smoother and crisper lines, text, and graphics.

## *Toner Save*

When this setting is selected, 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.

## *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.

## *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 of the paper when printing on both sides. Use this if the printout on the back is not where you expected.

### *L Offset B*

Adjusts the horizontal printing position on the back of the paper when printing on both sides. Use this if the printout on the back is not where you expected.

## ***Setup Menu***

This menu allows you to make various basic configuration settings related to paper sources, feeding modes, and error handling. You can also use this menu to select the LCD panel display language.

Item	Settings (default in bold)
Lang	<b>English</b> , Français, Deutsch, ITALIANO, ESPAÑOL, SVENSKA, Dansk, Nederl., SUOMI, Português
Time Out	0, 5 to <b>60</b> to 300 in increments of 1
Paper Source	<b>Auto</b> , MP, LC*
MP Mode	<b>Normal</b> , Last
Manual Feed	<b>Off</b> , On
Copies	<b>1</b> to 999
Duplex*	<b>Off</b> , On
Binding*	<b>Long Edge</b> , Short Edge
Start Page*	<b>Front</b> , Back
Paper Type	<b>Normal</b> , Thick, Envelope, Trnspnc, Coated
Page Side	<b>Front</b> , Back
Skip Blank Page**	<b>Off</b> , On
Auto Eject Page	<b>Off</b> , On
Size Ignore	<b>Off</b> , On
Auto Cont	<b>Off</b> , On
Page Protect	<b>Auto</b> , On
Toner Out	<b>Stop</b> , Continue
LCD Contrast	0 to <b>7</b> to 15

\* Available only when the corresponding option is installed.

\*\* Available only when in PCL5e, ESC/Page, ESC/P2, or I239X mode.

## Lang

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

## *Time Out*

Specifies the length of the time the printer waits when it is ready to print and no new data is received. When this time is up, the printer searches for new print data from other interfaces.

## *Paper Source*

Specifies whether paper feeds into the printer from the MP tray or the optional lower paper cassette unit.

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

If an envelope size (`IB5`, `C10`, `C6`, `DL`, `MON`, `C5`) is selected as the `Page Size` setting, paper always feeds from the MP tray. If you select `Thick`, `Transpnc`, or `Envelope` as the `Paper Type` setting, paper always feeds from the MP tray.

## *MP Mode*

This setting determines whether the MP tray has the highest or lowest priority when `Auto` is selected as the `Paper Source` setting in the printer driver. When `Normal` is selected as the `MP Mode`, the MP tray has the highest priority as the paper source. If you select `Last`, the MP tray has the lowest priority.

## *Manual Feed*

Allows you to select the manual feed mode for the MP tray. For details on the manual feed mode, see “Manually feeding paper” on page 35.

## *Copies*

Designates the number of copies to be printed, from 1 through 999.

### *Duplex*

Turns duplex printing on or off.

### *Binding*

Specifies the binding direction of the printout.

### *Start Page*

Specifies whether printing starts from the front or back of the page.

### *Paper Type*

Specifies the type of paper to be used for printing. The printer adjusts the printing speed according to this setting. The printing speed is reduced when `Thick`, `Trnspnc`, or `Envelope` is selected.

### *Page Side*

Select `Front` when printing on the front of thick paper (`Thick`) or envelopes.

Select `Back` when printing on the back of thick paper (`Thick`) or envelopes.

### *Skip Blank Page*

Enables you to skip blank pages when printing. This setting is available when you print in the PCL5e, ESC/Page, ESCP2, FX, or I239X mode.

### *Auto Eject Page*

Specifies whether or not to eject paper when the limit specified in the `Time Out` setting is reached. The default is `Off`, which means paper is not ejected when the time-out limit is reached.



## *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. This may cause smudges because of the 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, or Mem Overflow. When this option is off, you must press the Start/Stop 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 message appears on the LCD panel during printing, turn this setting 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 when **Auto** is selected. You will need to increase your printer's memory if memory errors continue to occur.

### **Note:**

*Changing the Page Protect setting reconfigures the printer's memory, which causes any downloaded fonts to be deleted.*

## *Toner Out*

If the item is set to **Stop**, the printer lets you know when the toner is out. To disable this function, set this item to **Continue**.

**Note:**

*If this item is set to Continue, the print result may be differ from what you expected because there may not be enough toner to print the data.*

### **LCD Contrast**

Adjusts the contrast of the LCD panel. Use the ▲ Up and ▼ Down buttons to set the contrast between 0 (lowest contrast) and 15 (highest contrast.)

## **Quick Print Job Menu**

This menu allows you to print or delete print jobs that were stored in the printer's optional Hard Disk Drive using the Quick Print Job feature (Re-Print Job, Verify Job, Stored Job) of the printer driver's Reserve Job function. This Menu is displayed when the function is used. For instructions on using this menu, see "Using the Quick Print Job Menu" on page 201.

Item	Settings (default in bold)
User	xxxxxxxxxxxxx
Job	xxxxxxxxxxxxx
Copies	1 to 999
Delete	-

## Confidential Job Menu

This menu allows you to print or delete print jobs stored in the printer's optional Hard Disk Drive using the Confidential Job feature of the printer driver's Reserve Job function. You need to enter the correct password to access this data. For instructions on using this menu, see "Using the Confidential Job Menu" on page 202.

Item	Settings (default in bold)
User	xxxxxxxxxxxxxx
Enter Password	XXXX
Job	xxxxxxxxxxxxxx
Copies	1 to 999
Delete	-

## Reset Menu

This menu allows you to cancel printing and reset the printer settings.

Item	Settings (default in bold)
Clear Warning	-
Clear All Warnings	-
Reset	-
Reset All	-
SelecType Init	-
Change Toner C	-
Change Toner M	-
Change Toner Y	-

Change Toner K	-
----------------	---

### *Clear Warning*

Clears warning messages that show errors except for these that occur from consumable products or mandatory-replacement parts.

### *Clear All Warnings*

Clears all warning messages that appear on the LCD panel.

### *Reset*

Stops printing and clears the current job received from the active interface. You may want to reset the printer when there is a problem with the print job itself and the printer cannot print successfully.

### *Reset All*

Stops printing, clears the printer memory, and restores the printer settings to their default values. The print jobs received from all interfaces are erased.

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

*Performing Reset All clears print jobs received from all interfaces. Be careful not to interrupt someone else's job.*

### *SelectType Init*

Restores the control panel menu settings to their default values. Total Pages, Color Pages, B/W Pages, Toner Counter for each color toner cartridge, and Parallel Menu settings will not be reset.

## *Change Toner (C/M/Y/K)*

Stops printing before the toner is out and helps you exchange the developer cartridge by moving it in the developer installment window.

## ***Parallel Menu***

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

Item	Settings (default in bold)
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 **Fast** is selected, the pulse width is about 1  $\mu$ s. When **Normal** is selected, 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 and printing data. If **Maximum** is selected, more memory is allocated for receiving data. If **Minimum** is selected, more memory is allocated for printing data.

**Note:**

- ❑ *To activate Buffer Size settings, you must turn off the printer for more than five seconds then turn it back on. Or, you can perform a Reset All operation, as explained in “Reset Menu” on page 219.*
- ❑ *Resetting the printer erases all print jobs. Make sure the Ready light is not flashing when you reset the printer.*

### USB Menu

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

Item	Settings (default in bold)
USB I/F	<b>On</b> , Off
Buffer Size	<b>Normal</b> , Maximum, Minimum

### USB I/F

Allows you to activate or deactivate the USB interface.

### Buffer Size

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

**Note:**

- ❑ *To activate Buffer Size settings, you must turn off the printer for more than five seconds then turn it back on. Or, you can perform a Reset All operation, as explained in “Reset Menu” on page 219.*
- ❑ *Resetting the printer erases all print jobs. Make sure the Ready light is not flashing when you reset the printer.*

## **Network Menu**

See the Administrator's Guide for each setting.

## **AUX Menu**

See the Administrator's Guide for each setting.

## LJ4 Menu

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

Item	Settings (default in bold)
Font Source	<b>Resident</b> , Download, ROM A*
Font Number	<b>0</b> to 65535 (depending on your settings)
Pitch***	0.44 ... <b>10.00</b> ... 99.99 cpi in 0.01-cpi increments
Height***	4.00 ... <b>12.00</b> ... 999.75 pt in 0.25-pt increments
SymSet	<b>IBM-US</b> , Roman-8, Roman-9, ECM94-1, 8859-2 ISO, 8859-9 ISO, 8859-10ISO, 8859-15ISO, 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, PcSI437, 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	4, <b>4K</b> , 5S

\* Available only when the optional font ROM module is installed.

\*\* Depending on whether Letter (60) or A4 (64) paper has been selected.



\*\*\* Depending on which font is 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 settings 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, LF Function*

These functions are included for users of particular operating systems, such as UNIX.

## *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.

Item	Settings (default in bold)
GL Mode	<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-mm increments

\* Available only when **GLlike** is selected as the GL 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.

Print Options	Settings
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	GLlike 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 the control panel menus.

**Note:**

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

### GL Mode

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 whether the output from the software is scaled. The scale factor is based on the output paper size of the application.

### Origin

Specifies whether the logical origin of the "plotter" is 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 6 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.

## ***PS3 Menu***

These settings are available only when the optional Adobe PostScript 3 ROM module is installed. For installation instructions, see “Adobe PostScript 3 ROM Module” on page 190. See also your Adobe PostScript 3 Kit documentation.

Item	Settings (default in bold)
Error Sheet	<b>Off</b> , On
Coloration	<b>Color</b> , Mono, TrueCol.
Image Protect	<b>Off</b> , On

### *Error Sheet*

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

### *Coloration*

Allows you to specify the method of color printing. **Color** refers to color printing at 1 bit/pixel, **Mono** refers to monochrome printing, while **TrueCol.** refers to color printing at 8 bit/pixel.

### *Image Protect*

Allows you to specify whether to employ lossy compression. Lossy compression refers to a data compression technique in which some amount of data is lost.

## ESCP2 Menu

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

Item	Settings (default 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 inches in 0.05-inch increments
Text	1... <b>62/66</b> *... 67lines
CGTable	<b>PcUSA</b> , Italic, PcMultilin, PcPortugue, PcCanFrenc, PcNordic, PcTurkish2, Pclcelandic, PcE.Europe, BpBRASCII, BpAbicomp, Roman-8, PcEur858, ISO Latin1, 8859-15ISO, PcSI437, 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)

\* 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). 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. 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.

### *CG Table*

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 335 for samples of the characters in each country’s symbol set.

### *Auto CR*

Specifies whether the printer performs a carriage-return/line-feed (CR-LF) operation whenever the printing position goes beyond the right margin. If you select `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 select `Off`, the printer does not send an automatic line-feed (LF) command with each carriage-return (CR). If `On` is selected, a line-feed command is sent with each carriage-return. Select `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*

Specifies whether the printer prints a slashed or unslashed zero.



## FX Menu

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

Item	Settings (default 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 inches in 0.05-inch increments
Text	1... <b>62/66</b> *... 67lines
CGTable	<b>PcUSA</b> , Italic, PcMultilin, PcPortugue, PcCanFrenc, PcNordic, PcTurkish2, Pclcelandic, PcE.Europe, BpBRASCII, BpAbicomp, Roman-8, PcEur858, ISO Latin1, 8859-15ISO
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). 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. 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.

### *CG Table*

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 335 for samples of the characters in each country’s symbol set.

### *Auto CR*

Specifies whether the printer performs a carriage-return/line-feed (CR-LF) operation whenever the printing position goes beyond the right margin. If you select *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 select *Off*, the printer does not send an automatic line-feed (LF) command with each carriage-return (CR). If *On* is selected, a line-feed command is sent with each carriage-return. Select *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***

The I239X mode emulates IBM® 2390/2391 Plus commands.

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

Item	Settings (default 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 inches in 0.05-inch increments
Text	1 ... <b>63/67</b> *... 67lines
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)
CharacterSet	<b>1</b> **, <b>2</b> **

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

\*\* Depends on whether Letter (1) or A4 (2) 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). You can also choose proportional spacing.

## *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.

## *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.

## *Auto CR*

Specifies whether the printer performs a carriage-return/line-feed (CR-LF) operation whenever the printing 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 select *Off*, the printer does not send an automatic line-feed (LF) command with each carriage-return (CR). If *On* is selected, a line-feed command is sent with each carriage-return. Select *On* if your text lines overlap.

## *Alt. Graphics*

Turns the Alternate Graphics option on or off.

### *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.

### *CharacterSet*

Selects character table 1 or 2.

---

# Replacing Consumable Products

---

---

## Precautions During Replacement

---

Be prepared to replace the following consumable products when a notice message is displayed on the LCD panel or the window of the EPSON Status Monitor 3 utility.

Keep the following in mind when replacing consumable products.

- ❑ Provide enough space for the replacement procedure. You will have to open some parts (such as the front cover) of the printer when you are replacing consumables.
- ❑ Do not install used consumable products into the printer.
- ❑ Although approximately 50 sheets can be printed after the notice message appears, be prepared to the waste toner collector.



**Warning:**

*Do not dispose of used consumable products in fire, as they may explode and cause injury. Dispose of them according to local regulations.*



**Caution:**

*Unless specifically instructed in this guide, be careful not to touch the fuser, which is marked CAUTION Hot Surface Avoid Contact, or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

---

## Replacement Messages

When you see the following messages on the LCD panel or the window of the EPSON Status Monitor 3 utility, replace the appropriate consumable products. You can continue to print for a short time after a message appears, but EPSON recommends early replacement to maintain print quality and extend the life of your printer.

Control panel message	Description
XXXX Toner Low*	The amount of remaining toner in the developer cartridge(s) is low.
Worn Photoconductor	The photoconductor unit is near the end of its service life.
Waste T BoxNearfull	The waste toner collector is nearly full of toner.
Worn TransferUnit	The transfer unit is near the end of its service life.

\* C, M, Y, and/or K are indicated for the color of the toner to be replaced. For example, the message Y Toner Low means that the amount of remaining toner in the yellow developer cartridge is low.

### **Note:**

*To clear these messages, select **Clear All Warnings** in **Reset Menu**.*



If you continue to use the printer without replacing consumable products and a consumable product reaches the end of its service life, the printer stops printing and displays the following messages on the LCD panel or the window of the EPSON Status Monitor 3 utility. When this happens, the printer cannot resume printing until you replace the depleted consumable products.

Control panel message	Description
Replace Toner XXXX*	The developer cartridge is empty.
Replace Photoconductor	The photoconductor unit has reached the end of its service life.
Replace Waste T Box	The waste toner collector is full of toner.
Replace TransferUnit	The transfer unit has reached the end of its service life.

\* C, M, Y, and/or K are indicated for the color of the toner to be replaced. For example, the message Replace Toner Y means that you need to replace the yellow developer cartridge.

**Note:**

*Individual messages appear for each consumable product. After replacing a consumable product, check the LCD panel for replacement messages for other consumable products.*

---

## Developer Cartridge

According to the message on the LCD panel or the window of the EPSON Status Monitor 3 utility, replace the correct developer cartridge from the list below.

Developer Cartridge (Black)	S050100
Developer Cartridge (Yellow)	S050097
Developer Cartridge (Magenta)	S050098
Developer Cartridge (Cyan)	S050099

### **Note:**

*If you want to replace developer cartridges before its service life, see “Replacing a developer cartridge before the end of its service life” on page 246.*

## Handling precautions

Always observe the following handling precautions when replacing developer cartridges.

- ☐ Do not install used developer cartridges into the printer.
- ☐ If you have moved a developer cartridge from a cool to a warm environment, wait for at least one hour before installing it to prevent damage from condensation.



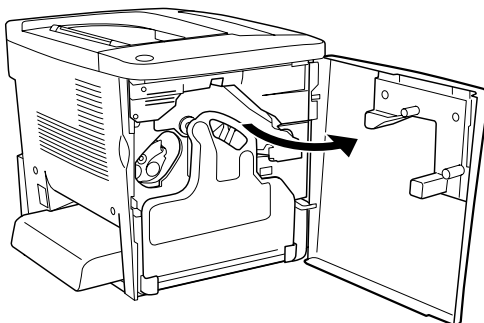
### **Warning:**

- ☐ *Do not touch the toner. Keep the toner away from your eyes. If toner gets on your skin or clothes, wash it off with soap and water immediately.*
- ☐ *Keep developer cartridges out of the reach of children.*
- ☐ *Do not dispose of used developer cartridges in fire, as they may explode and cause injury. Dispose of them according to local regulations.*

## ***Replacing a developer cartridge***

Follow these steps to replace a developer cartridge.

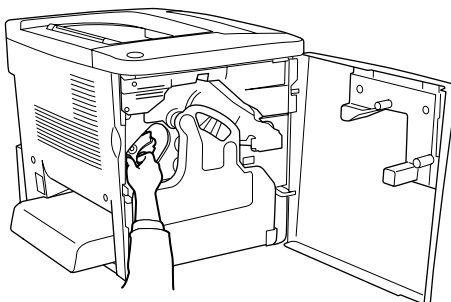
1. Open the front cover.



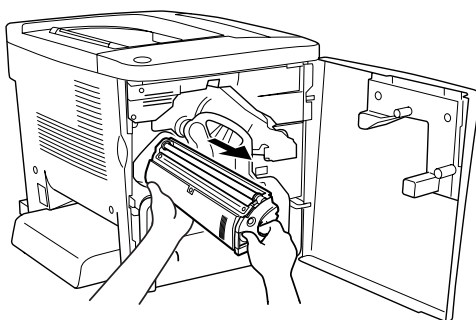
2. Check the color of the developer cartridge that appears in the cartridge installment position.

The color displayed indicates the developer cartridge that needs to be replaced.

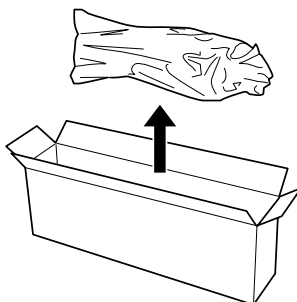
3. Put two fingers into the holes in front of the installed developer cartridge.



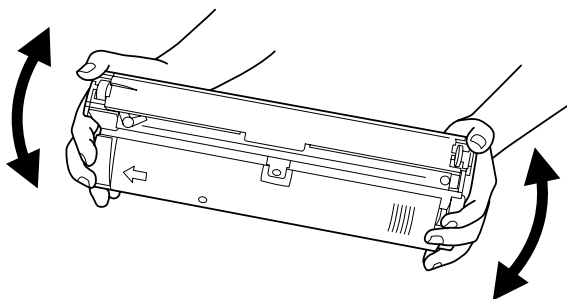
4. Pull the developer cartridge out of the slot.



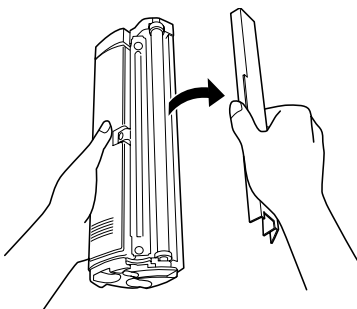
5. Take the new developer cartridge out of its package.



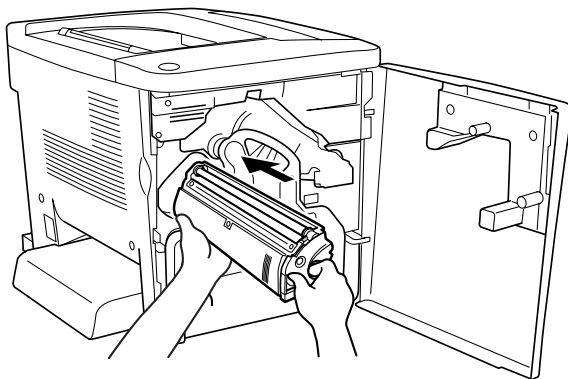
6. Gently shake the developer cartridge as shown below.



7. Remove the cover on the top of the new developer cartridge. Then, put the cover on the removed developer cartridge that you removed from the slot in step 4.



8. Insert the new developer cartridge all the way until it stops.



9. Close the front cover.

If another cartridge needs to be replaced, the message **Replace Toner X** appears on the LCD panel after about 30 seconds. In this case, return to step 1.

## ***Replacing a developer cartridge before the end of its service life***

Use the following procedure to replace a developer cartridge before the end of its service life.

1. Make sure that **Ready** or **Sleep** is displayed in the LCD panel.
2. Select **Change Toner X** (The letters C, M, Y, or K appear in place of X, indicating the colors Cyan, Magenta, Yellow, and Black.) in the Reset Menu on the control panel.
3. While the cartridge X you selected above moves to the cartridge replacement position, **Please Wait** appears on the LCD panel.
4. **Replace Toner X** appears in the LCD panel when the cartridge to be replaced reaches the cartridge replacement position.
5. See “Developer Cartridge” on page 242 for replacement instructions.

---

## ***Photoconductor Unit***

Prepare a new photoconductor unit for replacement when you see a message informing you to do so.

### ***Handling precautions***

Always observe the following handling precautions when replacing the photoconductor unit.

- ☐ When replacing the photoconductor unit, avoid exposing it to room light any longer than necessary.

- ❑ Be sure not to scratch the surface of the drum. Also, avoid touching the drum, since oil from your skin may permanently damage its surface and affect print quality.
- ❑ To get the best print quality, do not store the photoconductor unit in an area subject to direct sunlight, dust, salty air, or corrosive gases (such as ammonia). Avoid locations subject to extreme or rapid changes in temperature or humidity.



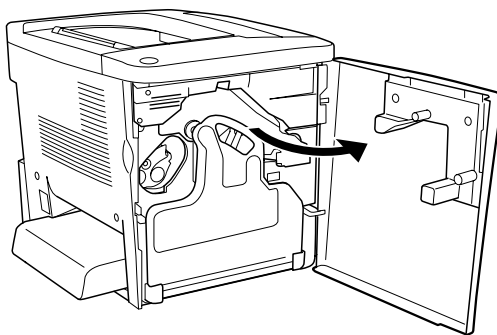
**Warning:**

- ❑ *Do not dispose of the used photoconductor unit in fire, as it may explode and cause injury. Dispose of it according to local regulations.*
- ❑ *Keep the photoconductor unit out of the reach of children.*

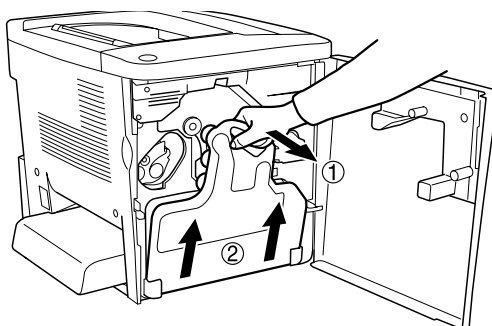
## ***Replacing the photoconductor unit***

Follow these steps to replace the photoconductor unit.

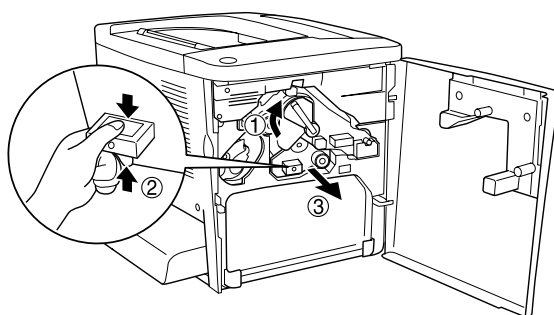
1. Open the front cover.



2. Tilt the waste toner collector and pull it out.



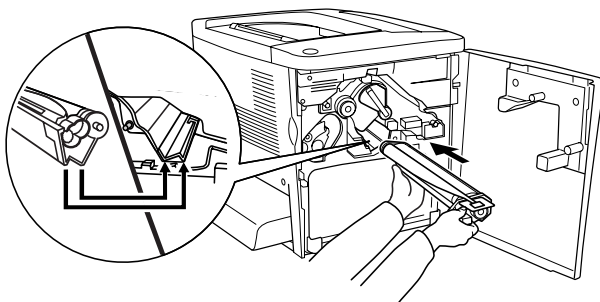
3. Turn the lever up to the unlocked position. Then, pull the green knob on the photoconductor unit with your finger to remove the photoconductor unit.



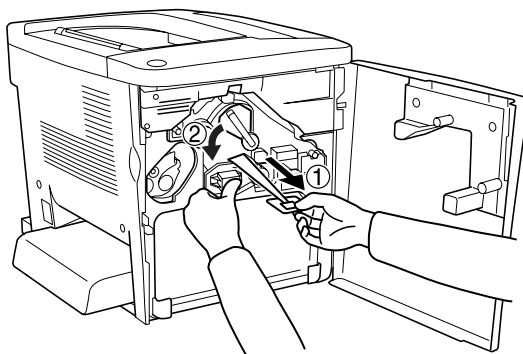
4. Take the new photoconductor unit out of its package.



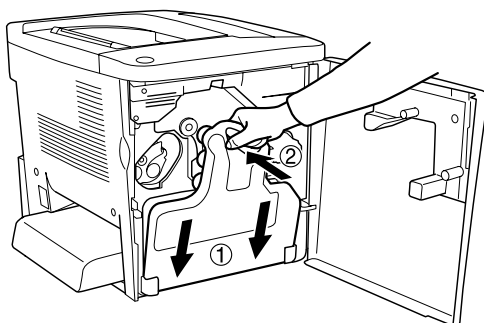
5. Insert the new photoconductor unit by aligning it with the guide rails.



6. Pull out the yellow tag. Then, return the lever to the locked position.



7. Put the removed waste toner collector back into the printer as shown below.



8. Close the front cover.

---

## **Waste Toner Collector**

Prepare a new waste toner collector for replacement when you get a message informing you to do so.

### ***Handling precautions***

Always observe the following handling precautions when replacing the waste toner collector.

- ☐ Do not reuse toner found in the waste toner collector.



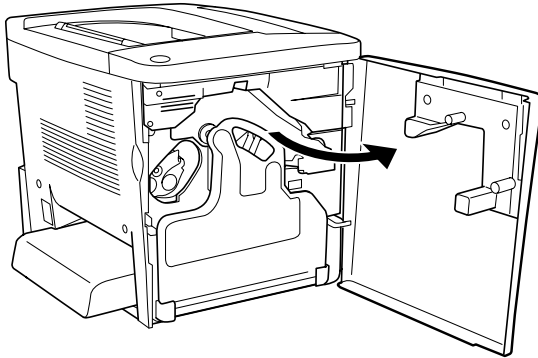
**Warning:**

- ☐ *Keep the waste toner collector out of the reach of children.*
- ☐ *Do not dispose of used waste toner collector in fire, as it may explode and cause injury. Dispose of it according to local regulations.*

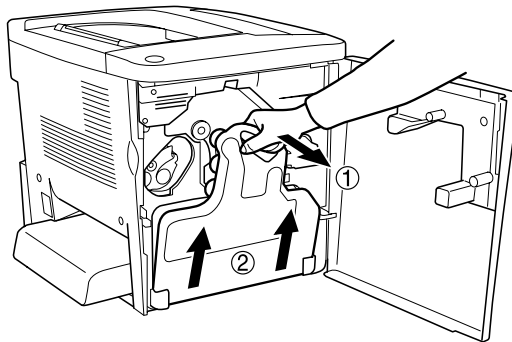
## ***Replacing the waste toner collector***

Follow these steps to replace the waste toner collector.

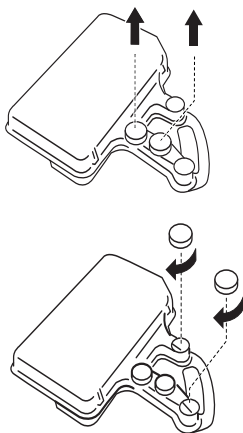
1. Open the front cover.



2. Tilt the waste toner collector and pull it out.



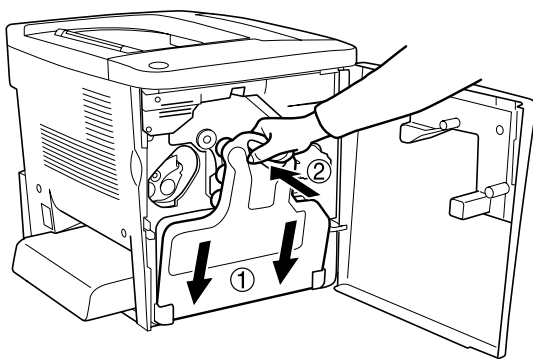
3. Remove the two caps on the removed waste toner collector to close the two open holes with them as shown below.



**Note:**

*You need to close the holes to prevent spilling the toner inside the collector.*

4. Prepare the new waste toner collector.
5. Tilt and insert the new waste toner collector.



6. Close the front cover.

---

## Transfer Unit

Prepare a new transfer unit for replacement when you get a message informing you to do so.

### Handling precautions

Note the following handling precautions before replacing the transfer unit.

- ❑ Do not touch the surface of the transfer unit. Doing so may impair print quality.



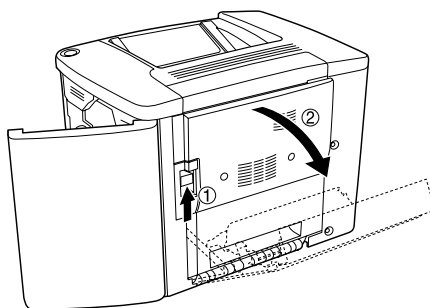
**Warning:**

*Keep the transfer unit out of the reach of children.*

### Replacing the transfer unit

Follow these steps to replace the transfer unit.

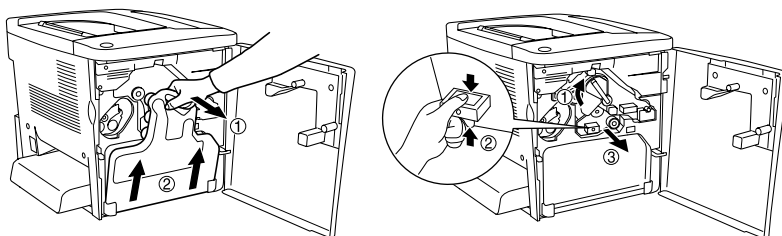
1. Open the front cover and Cover AB.



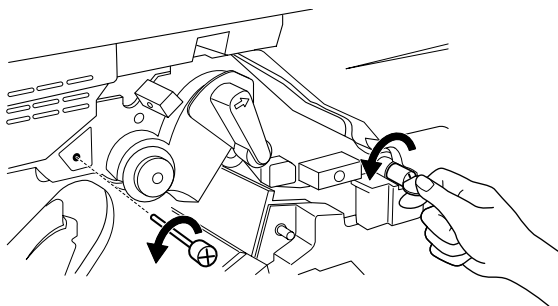
**Note:**

*You must open Cover AB to avoid the friction of the transfer unit.*

2. Take out the waste toner collector and the photoconductor unit.



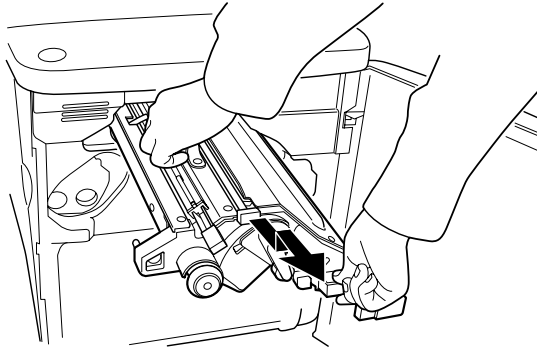
3. Remove the two screws on the transfer unit.



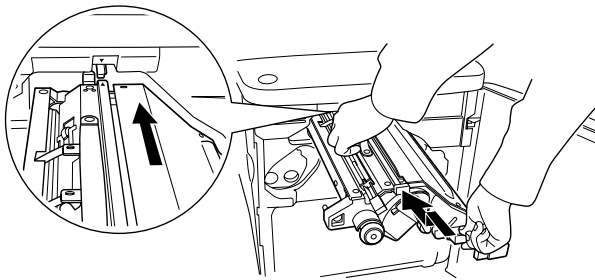
**Note:**

*You can use a screwdriver or a coin to remove the screws.*

4. Take out the transfer unit by pulling the knob, holding the handle, and pulling the unit up.



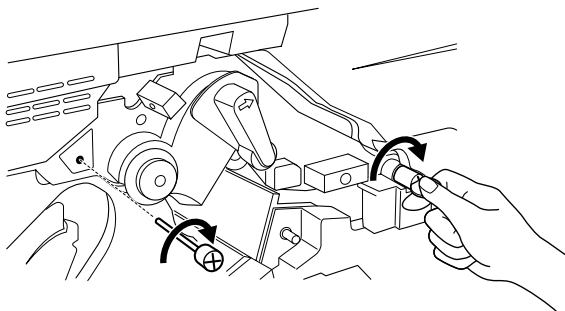
5. Take the new transfer unit out of its package.
6. Insert the new transfer unit by aligning it with the arrow marks on the transfer unit and the printer.



**Note:**

*Tilt the transfer unit forward to install correctly.*

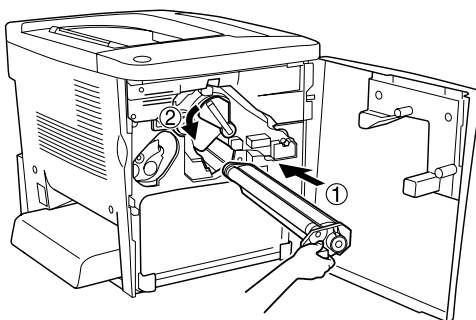
7. Tighten the two screws of the transfer unit you removed in step 3.



**Note:**

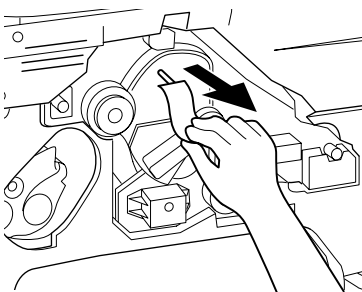
*Tighten the screws tightly with a screwdriver or a coin.*

8. Reinstall the photoconductor unit.

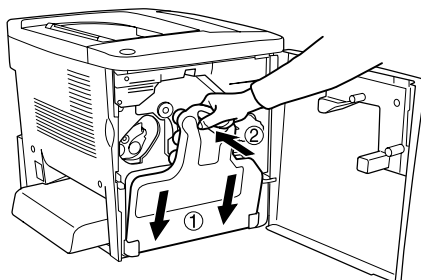




9. Remove the protective material as shown below.



10. Reinstall the waste toner collector.



11. Close the front cover and Cover AB.



---

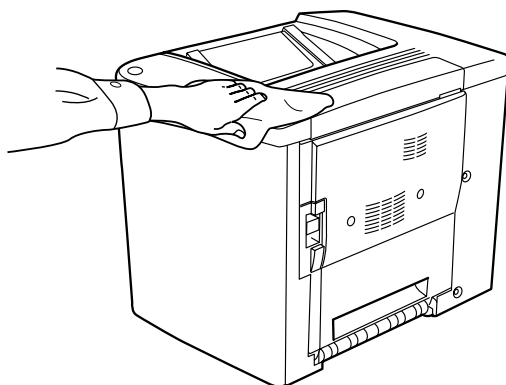
# ***Cleaning and Transporting the Printer***

---

---

## ***Cleaning the Printer***

The printer needs only minimal cleaning. If the printer's outer case is dirty or dusty, turn off the printer and clean it with a soft, clean cloth moistened with a mild detergent.



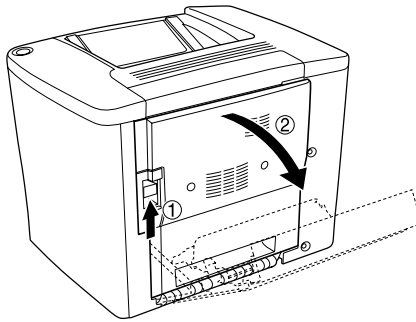
### ***Caution:***

*Never use alcohol or paint thinner to clean the printer cover; these chemicals can damage the components and the case. Be careful not to get water onto the printer mechanism or any electrical components.*

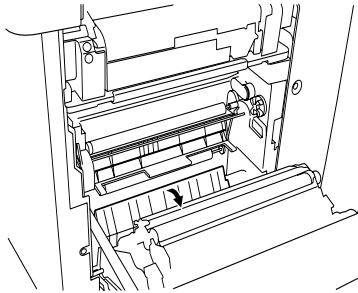
## ***Cleaning the pickup roller***

If the paper jam occurs frequently, wipe the pickup roller with a clean dampened cloth. Follow the steps below.

1. Open Cover AB of the printer.



2. Open the cover below the paper path roller as shown below.



3. With a clean dampened cloth, wipe the pickup roller.
4. Close Cover AB.



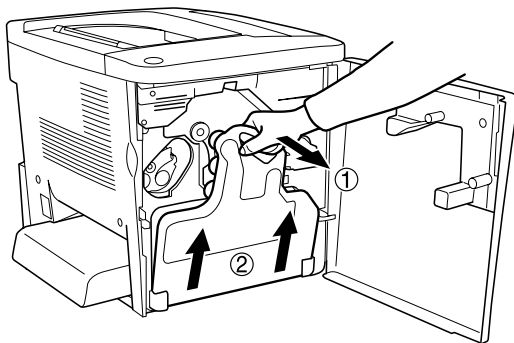
**Caution:**

*Never use alcohol or paint thinner to clean the printer cover; these chemicals can damage the components and the case. Be careful not to get water onto the printer mechanism or any electrical components.*

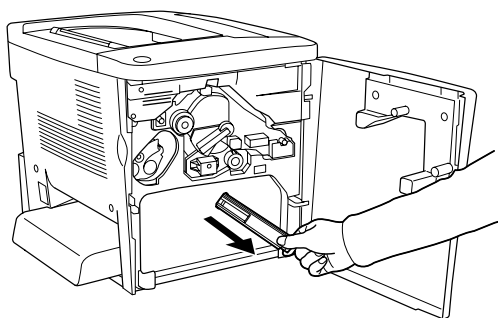
## ***Cleaning the print head filter***

If the glass on the print head filter is dirty with toner, wipe it with a clean cloth. A vertical white line may appear in the printout. Follow the steps below.

1. Open the front cover.
2. Tilt the waste toner collector and pull it out.



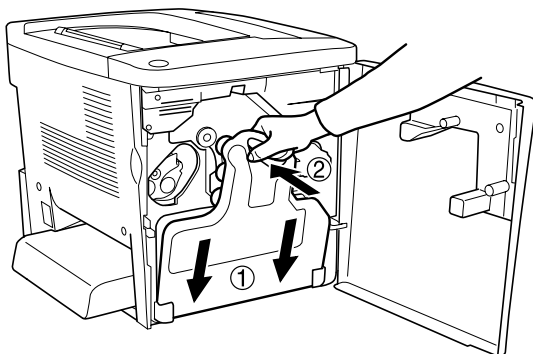
3. Grasp the handle of the print head filter with your fingers and gently pull it straight out of the slot.



### ***Note:***

*Be careful not to spill toner that has accumulated on the print head filter.*

4. With a clean cloth, wipe the glass surface of print head filter.
5. Hold the print head filter by the handle and gently insert it all the way into the slot.
6. Tilt and insert the new waste toner collector.



7. Close the front cover.

---

## ***Transporting the Printer***

### ***For long distances***

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

Follow these steps to repack your printer.

1. Turn off the printer.
2. Unplug the power cord from the electrical outlet.
3. Remove all installed options. For information on removing options, see Chapter 4, “Using Options.”

4. Attach the protective materials onto the printer, then repack the printer in its original box.

### ***For short distances***

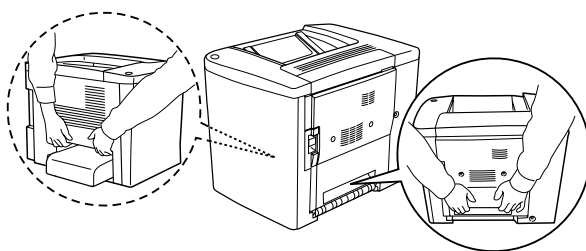
Always pay attention to the following handling precautions when you need to move the printer for a short distance:

- ☐ If you are moving the printer on its own, two people should lift and carry the printer.

### ***Moving the printer***

Follow these steps to move the printer for a short distance.

1. Turn off the printer and remove the following items:
  - ☐ Power cord
  - ☐ Interface cable
2. Be sure to lift the printer by the correct positions as shown below.



### ***Caution:***

***Do not hold the printer by the MP tray.***

3. When moving the printer, always keep it horizontal.

## *Moving the printer together with an optional lower cassette installed*

Follow these steps to move the printer together with the optional 500-Sheet Paper Cassette Unit:

1. Turn off the printer and remove the following items.
  - ☐ Power cord
  - ☐ Interface cable
2. Lift the printer together with the optional unit.



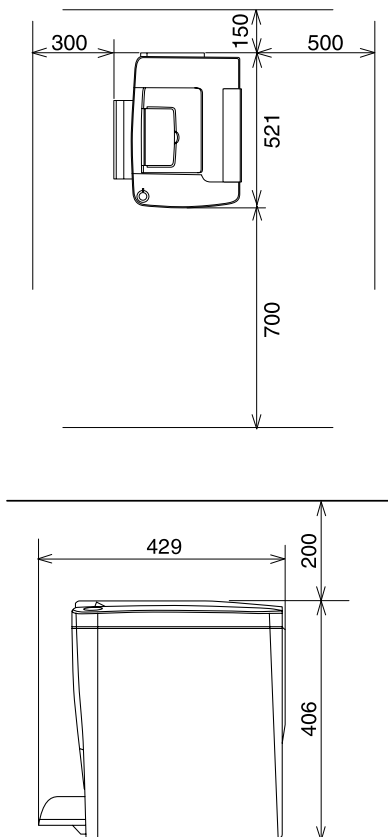
**Caution:**

*Do not move the printer on angled or uneven surfaces.*



## ***Finding a place for the printer***

When relocating the printer, always choose a location that has adequate space for easy operation and maintenance. Use the following illustration as a guide for the amount of space required around the printer to ensure smooth operation.



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

The 500-Sheet Paper Cassette Unit adds 120 mm (4.7 in.) to the bottom and 40 mm (1.6 in.) to the right side of the printer.

The Duplex Unit adds 44 mm (1.7 in.) to the right side of the printer.

In addition to space consideration, always heed the following precautions when finding a place to locate the printer:

- ❑ Place the printer where you can easily unplug the power cord.
- ❑ 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 can erase valuable information in your computer's and printer's memory.



**Caution:**

- ❑ *Leave adequate room around the printer to allow for sufficient ventilation.*
- ❑ *Avoid locations that are subject to direct sunlight, excessive heat, moisture, or dust.*
- ❑ *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.*

---

## Clearing Jammed Paper

If paper becomes jammed in the printer, the printer's LCD panel and the EPSON Status Monitor 3 utility provide alert messages.

### ***Precautions for clearing jammed paper***

Be sure to observe the following points when you clear jammed paper.

- ❑ Do not remove jammed paper by force. Torn paper can be difficult to remove and might cause other paper jams. Pull it gently in order to avoid tearing.
- ❑ Always try to remove jammed paper with both hands to avoid tearing it.
- ❑ If jammed paper is torn and remains in the printer, or if paper is jammed in a place not mentioned in this chapter, contact your dealer.



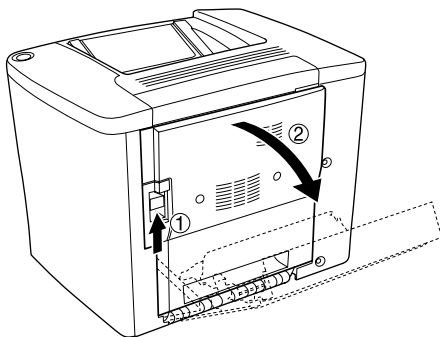
#### **Caution:**

*Unless specifically instructed in this guide, be careful not to touch the fuser, which is marked CAUTION Hot Surface Avoid Contact, or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

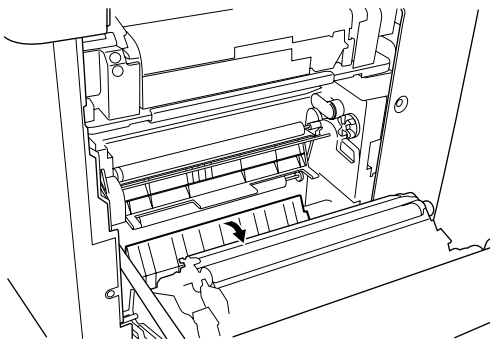
## ***Jam A (Cover AB)***

Follow these steps to clear paper jams from Cover AB.

1. Open Cover AB.



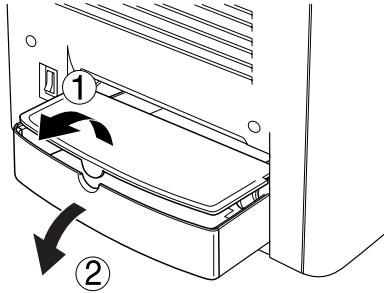
2. Open the cover below the paper path roller as shown below. Remove any jammed paper gently with both hands. Be careful not to tear the jammed paper.



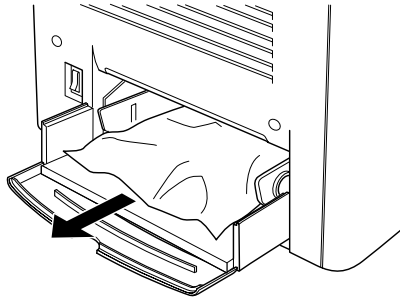
***Note:***

- ☐ *Always try to remove jammed paper with both hands to avoid tearing it.*
- ☐ *If paper is torn, be sure to remove all torn pieces.*

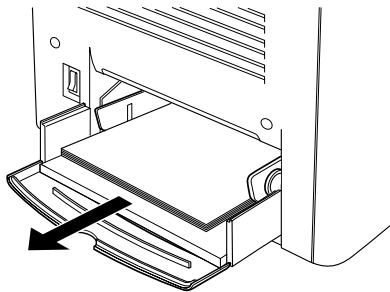
3. Remove the MP tray cover and open the MP tray flap.



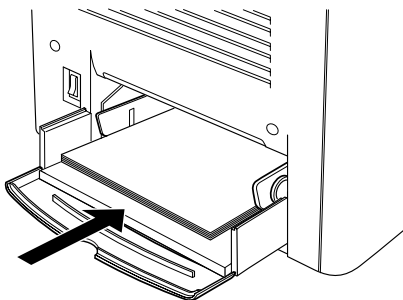
4. Gently pull out any sheets that have fed part way into the printer.



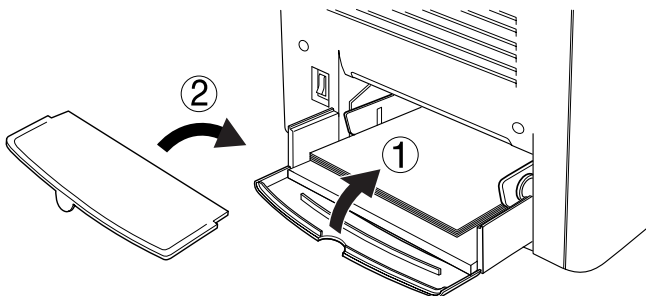
5. Remove paper stacked on the MP tray. Check if any paper is jammed inside the MP tray.



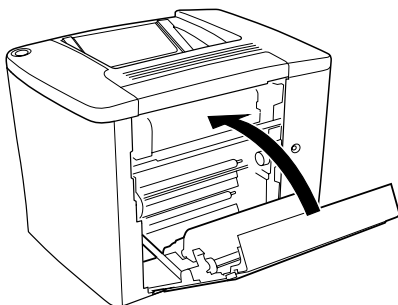
6. Fan a stack of paper, and set the paper back into the MP tray.



7. Close the MP tray flap and set the MP tray cover.



8. Close Cover AB.



If the message Jam XX still appears on the LCD panel, follow the next steps.

## ***Jam B (Cover AB)***

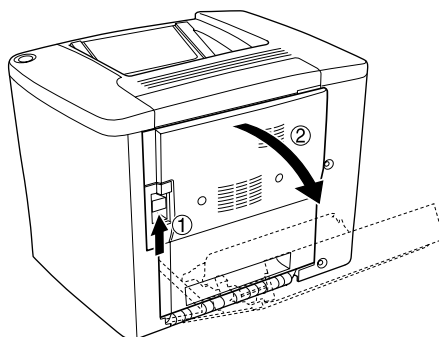
Follow these steps to clear paper jams from Cover AB.



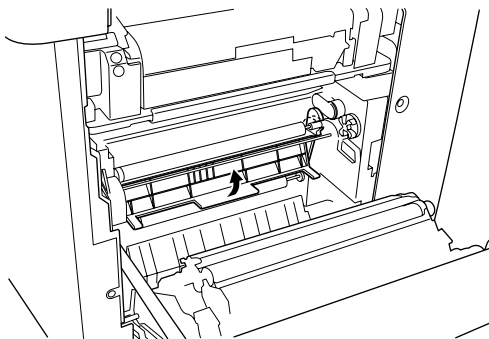
### **Caution:**

*Unless specifically instructed in this guide, be careful not to touch the fuser, which is marked CAUTION Hot Surface Avoid Contact, or the surrounding areas. If the printer has been in use, the fuser and the surrounding areas may be very hot.*

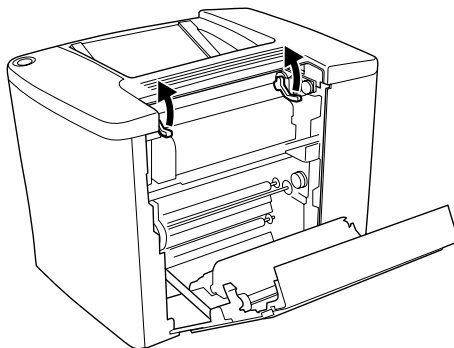
1. Open Cover AB.



2. Open the cover above the paper path roller, until it stops, as shown below. Remove any jammed paper gently with both hands. Be careful not to tear the jammed paper.

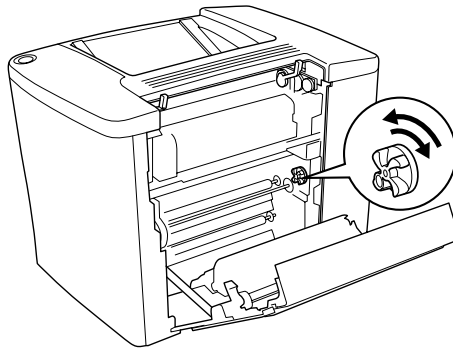


3. Close the cover that you opened in step 2.
4. Pull the levers up to release the paper path as shown below.

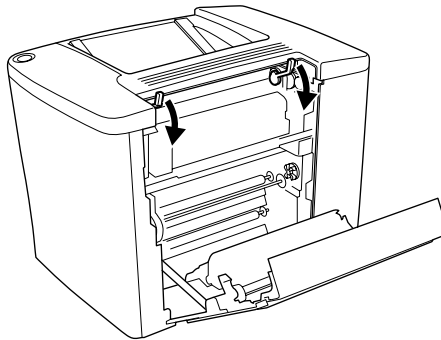




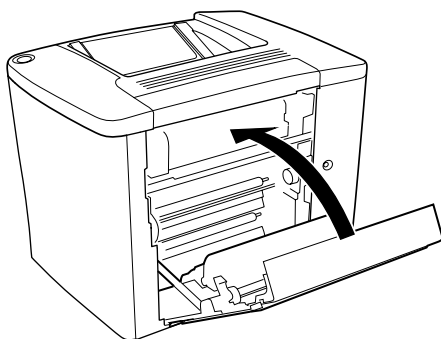
5. If you turn the dial towards you, the jammed paper comes out from the face-down tray. If you turn the dial towards the printer, the jammed paper comes out from Cover AB side.



6. Pull the levers down to close the paper path as shown below.



7. Close Cover AB.

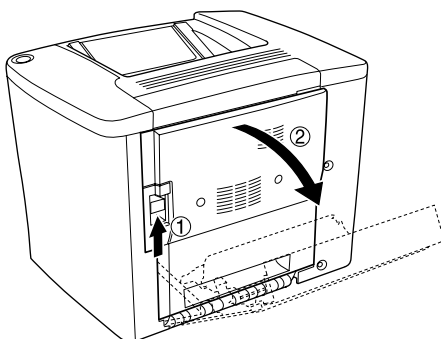


**Note:**

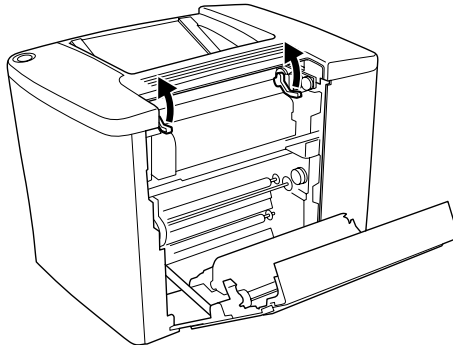
*If you installed the 500-Sheet Paper Cassette Unit, close Cover C.*

If the message Jam XX still appears on the LCD panel, follow the next steps.

1. Open Cover AB.



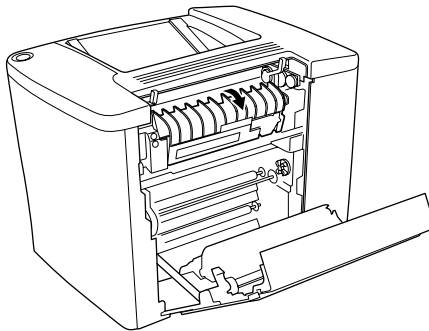
2. Pull the levers up to release the paper path as shown below.



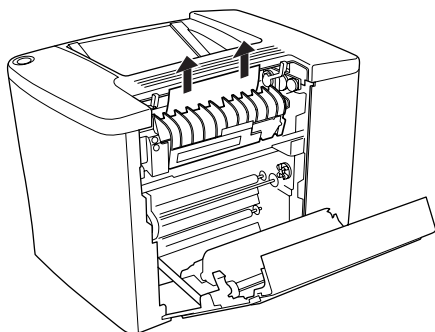
3. Open the cover of the fuser unit as shown below. You can open it narrowly.

**Note:**

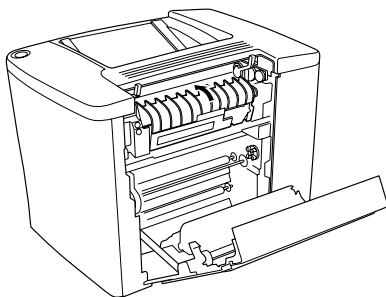
*Be careful not to touch the area around the fuser, because it may be hot.*



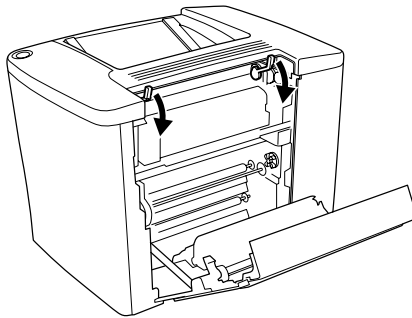
4. Remove any jammed paper by hand. Be careful not to tear the jammed paper.



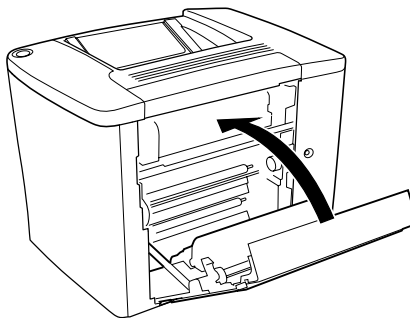
5. Close the cover of the fuser unit.



6. Pull the levers down to close the paper path as shown below.



7. Close Cover AB.



**Note:**

*If you installed the 500-Sheet Paper Cassette Unit, close Cover C.*

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

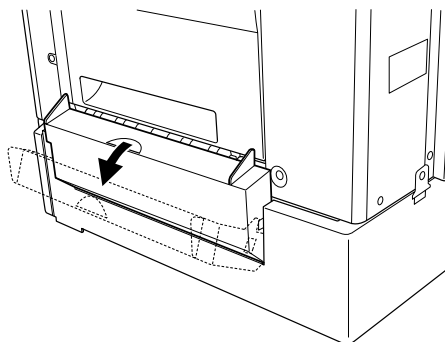
**Note:**

*If you cannot find any jammed paper in Cover AB, check Cover DM of the optional Duplex Unit or Cover C of the 500-Sheet Paper Cassette Unit.*

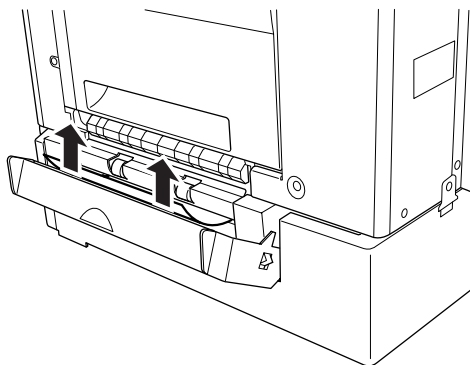
## ***Jam C (Cover C)***

Follow these steps to clear paper jams in the 500-Sheet Paper Cassette Unit.

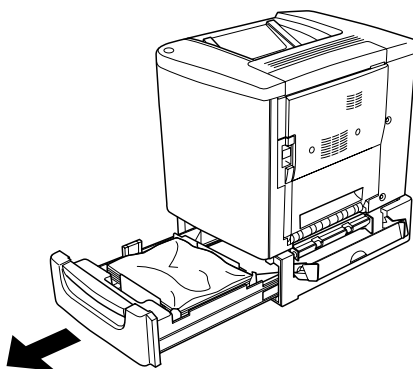
1. Open Cover C of the optional 500-Sheet Paper Cassette Unit.



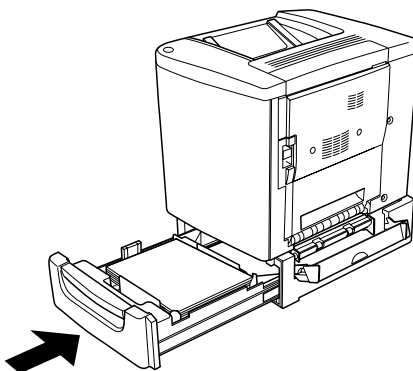
2. Gently remove the jammed paper with both hands. Be careful not to tear the jammed paper.



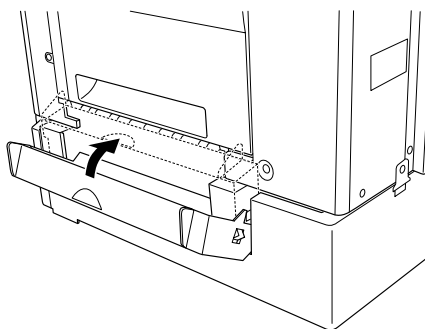
3. Pull out the paper cassette and discard any crumpled paper.



4. Close the paper cassette.



5. Close Cover C.

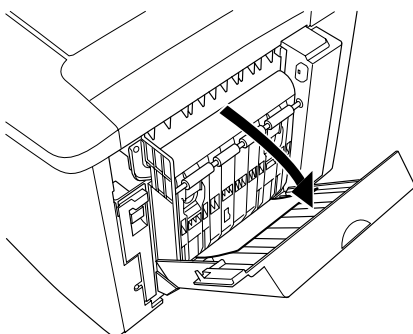


When the paper jam is cleared completely and Cover C of the 500-Sheet Paper Cassette Unit is closed, the jammed page's print data is automatically reprinted.

## ***Jam DM (Cover DM)***

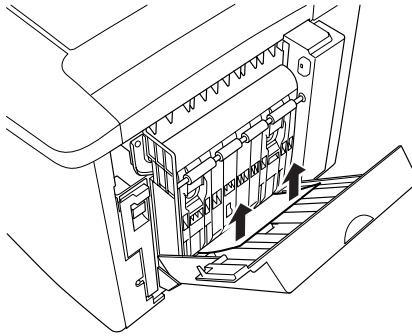
Follow these steps to clear paper jams in the Duplex Unit's cover.

1. Open the Cover DM of the Duplex Unit.





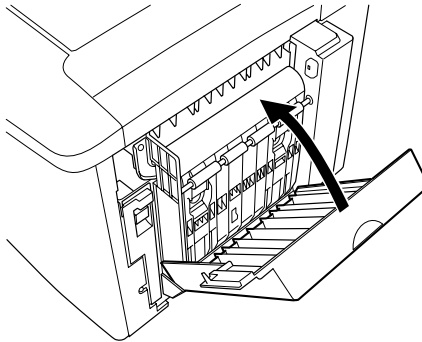
2. Gently remove the jammed paper inside Cover DM. Be careful not to tear the paper.



**Note:**

*If paper is torn, be sure to remove all torn pieces.*

3. Close Cover DM.



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

---

## ***Operational Problems***

### ***The Ready light does not turn on***

<b>Cause</b>	<b>What to do</b>
The power cord may not be properly plugged into the electrical outlet.	Turn off the printer and check the power cord connections between the printer and the electrical outlet. Then turn the printer back on.
The electrical outlet may be controlled by an outside switch or an automatic timer.	Make sure that the switch is turned on or plug another electrical device into the outlet to check whether the outlet is operating properly.

### ***The printer does not print (Ready light off)***

<b>Cause</b>	<b>What to do</b>
The printer is offline.	Press the Start/Stop button once to switch the printer to ready status.

### ***The Ready light is on but nothing prints***

<b>Cause</b>	<b>What to do</b>
Your computer may not be properly connected to the printer.	Perform the procedure described in “Connecting the Printer to a Computer” in the <i>Setup Sheet</i> .

The interface cable may not be plugged in securely.	Check both ends of the interface cable between the printer and the computer. If you are using the parallel interface, be sure to secure the connector using the wire retaining clips.
You may not be using the correct interface cable.	If you are using the parallel interface, make sure that the cable is a double-shielded, twisted-pair interface cable no more than six feet in length.  If you are using the USB interface, use a Revision 1.1 cable.
Some error may have occurred.	Check the LCD panel to see if an error message appears.
Your application software is not properly set up for your printer.	Make sure that the printer is selected in your application software.
Your computer system's memory is too small to handle the volume of data in your document.	Try reducing the image resolution of your document in the application software, or install more memory in your computer if you can.

## ***The optional product is not available***

<b>Cause</b>	<b>What to do</b>
If you are using Windows, and EPSON Status Monitor 3 is not installed, you have to make settings manually in the printer driver.	Click the Optional Settings tab, select Update the Printer Option Information Manually, then click Settings.

## ***Printout Problems***

### ***The font will not print***

<b>Cause</b>	<b>What to do</b>
You may use the printer fonts substituted for specified TrueType fonts.	In the printer driver, choose the Print TrueType fonts as bitmap radio button in the Extended Settings dialog box.
The selected font is not supported by your printer.	Make sure that you have installed the correct font. See “Available Fonts” on page 366 for more information.

### ***Printout is garbled***

<b>Cause</b>	<b>What to do</b>
The interface cable may not be plugged in securely.	Make sure that both ends of the interface cable are plugged in securely.

---

You may not be using the correct interface cable.

If you are using the parallel interface, make sure that the cable is a double-shielded, twisted-pair interface cable no more than six feet in length.

If you are using the USB interface, use a Revision 1.1 cable.

---

The emulation setting for the port may not be correct.

Specify the emulation mode by using the printer's control panel menus. See "Emulation Menu" on page 210.

---

**Note:**

*If a status sheet does not print correctly, your printer may be damaged. Contact your dealer or a qualified service representative.*

## ***The printout position is not correct***

<b>Cause</b>	<b>What to do</b>
The page length and margins are set incorrectly in your application.	Make sure that you are using the correct page length and margin settings in your application.

## ***Graphics do not print correctly***

<b>Cause</b>	<b>What to do</b>
The printer emulation setting in your application may be incorrect.	Make sure that your application is set for the printer emulation you are using. For example, if you are using the LJ4 emulation mode, make sure that your application is set to use a LaserJet 4 printer.
You may need more memory.	Graphics require large amounts of memory. Install an appropriate memory module. See “Memory Module” on page 186.

## ***The surface is rough (duplex printing, coated paper)***

<b>Cause</b>	<b>What to do</b>
Duplex printing on damp coated paper may produce a rough printed surface.	Use coated paper that is newly unwrapped. Always store coated paper in a dry environment.

---

## ***Color Printing Problems***

### ***Cannot print in color***

<b>Cause</b>	<b>What to do</b>
Black is selected as the Color setting in the printer driver.	Change this setting to Color.
The color setting in the application you are using is not appropriate for color printing.	Make sure that the settings in your application are appropriate for color printing.

### ***The color differs when printed from different printers***

<b>Cause</b>	<b>What to do</b>
Printer driver default settings and color tables vary by printer model.	Set the Gamma setting to 1.5 in the More Settings dialog box in the printer driver, then print again. If you still do not get the printouts you expect, adjust the color using the slide bar for each color. For details, see “Customizing print settings” on page 54 for Windows, or see “Customizing print settings” on page 113 for Macintosh.

### ***The color looks different from the computer***

## **screen**

<b>Cause</b>	<b>What to do</b>
Printed colors do not exactly match the colors on your monitor, since printers and monitors use different color systems: monitors use RGB (red, green, and blue), while printers typically use CMYK (cyan, magenta, yellow, and black).	Although it is difficult to match colors perfectly, selecting the printer driver's ICM setting (for Windows Me, 98, 95, XP, or 2000) or ColorSync setting (for Macintosh) can improve color matching between different devices. For details, see "Using the predefined settings" on page 51 for Windows, and "Using the predefined settings" on page 111 for Macintosh.
For Macintosh, the System Profile setting is not in use.	To apply ColorSync properly, your input device and the application must support ColorSync, and a System Profile must be used for your monitor.
PhotoEnhance4 may be selected in the printer driver.	The PhotoEnhance4 feature corrects the contrast and brightness of the original image data for printing images more vivid. Deselect the PhotoEnhance4 feature if necessary.

---

## ***Print Quality Problems***

### ***The background is dark or dirty***

<b>Cause</b>	<b>What to do</b>
There may be a problem with the photoconductor unit.	Replace the photoconductor unit. See "Photoconductor Unit" on page 246.



---

You may not be using the correct type of paper for your printer.

If the surface of your paper is too rough, printed characters may appear distorted or broken. EPSON special paper, or smooth, high-quality copier paper is recommended for best results. See “Available Paper” on page 29 for information on choosing paper.

## ***Black or white bands appear in the printout***

<b>Cause</b>	<b>What to do</b>
There may be a problem with the photoconductor unit.	Replace the photoconductor unit. See “Photoconductor Unit” on page 246.  Check if the filter under the photoconductor unit is dirty. If it is dirty clean the filter. See “Cleaning the print head filter” on page 261

## ***White dots appear in the printout***

<b>Cause</b>	<b>What to do</b>
Duplex printing on damp coated or thick paper may produce printouts with white dots where the toner density is high on the back of the paper.	Do not select Thick (Back) or Coated (Back) as the Paper Type setting in the printer driver. Choose Thick or Coated instead.  Do not store coated paper in a humid or damp environment. Be sure to use paper that is newly unwrapped.

## ***Print quality is uneven on the page***

<b>Cause</b>	<b>What to do</b>
Your paper may be moist or damp.	Do not store paper in a humid or damp environment.
There may be a problem with the photoconductor unit.	Replace the photoconductor unit. See “Photoconductor Unit” on page 246.

## ***Print quality is uneven (thick or coated paper)***

<b>Cause</b>	<b>What to do</b>
Your paper may be too dry.	Select Thick (Back) or Coated (Back) as the Paper Type setting in the printer driver. Do not store paper in an excessively dry environment.

## ***Half-tone images print unevenly***

<b>Cause</b>	<b>What to do</b>
Your paper may be moist or damp.	Do not store paper in a humid or damp environment. Be sure to use paper that is newly unwrapped.
There may be no toner left in the toner cartridge.	If the message on the LCD panel or in the EPSON Status Monitor 3 utility indicates that the amount of toner is low, see “Developer Cartridge” on page 242.
There may be a problem with the photoconductor unit.	Replace the photoconductor unit. See “Photoconductor Unit” on page 246.

## ***Toner smudges***

<b>Cause</b>	<b>What to do</b>
Your paper may be moist or damp.	Do not store your paper in a humid or damp environment.

---

You may not be using the correct type of paper for your printer.

EPSON special paper or smooth, high-quality copier paper is recommended for best results. See “Available Paper” on page 29 for information on choosing paper.

---

There may be a problem with the photoconductor unit.

Replace the photoconductor unit. See “Photoconductor Unit” on page 246.

## ***Areas are missing in the printed image***

<b>Cause</b>	<b>What to do</b>
Your paper may be moist or damp.	This printer is sensitive to moisture absorbed by the paper. The higher the moisture content in the paper, the lighter the printout. 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 may appear distorted or broken. EPSON special paper or smooth, high-quality copier paper is recommended for best results. See “Available Paper” on page 29 for information on choosing paper.

## ***Completely blank pages are output***

<b>Cause</b>	<b>What to do</b>
The printer may have loaded more than one sheet at a time.	Remove the paper stack and fan it. Tap it on a flat surface to even the edges. Then reload the paper.
There may be no toner left in the developer cartridge.	If the message on the LCD panel or in the EPSON Status Monitor 3 utility indicates that the amount of toner is low, see “Developer Cartridge” on page 242.
There may be a problem with the photoconductor unit.	Replace the photoconductor unit. See “Photoconductor Unit” on page 246.

---

The problem may be with your application or interface cable. Print out a status sheet. See “Printing a Status Sheet” on page 196. If a blank page is ejected, the problem may be with the printer. Turn off the printer and contact your dealer.

## ***The printed image is light or faint***

<b>Cause</b>	<b>What to do</b>
Your paper may be moist or damp.	Do not store your paper in a humid or damp environment.
The Toner Save mode may be on.	Turn off the Toner Save mode using the printer driver or the printer's control panel menus.
There may be a problem with the photoconductor unit.	Replace the photoconductor unit. See "Photoconductor Unit" on page 246.

## ***The non-printed side of the page is dirty***

<b>Cause</b>	<b>What to do</b>
Toner may have spilled onto the paper feed path.	Clean internal printer components by printing three pages with only one character per page.

---

## ***Paper Handling Problems***

### ***Paper does not feed properly***

<b>Cause</b>	<b>What to do</b>
The paper source setting may not be correct.	Make sure that you have selected the correct paper source in your application.

---

There may be no paper in the cassette or MP tray.	Load paper.
Too many sheets may be loaded in a cassette or MP tray.	Make sure that you have not tried to load too many sheets of paper. For the maximum paper capacity for each paper source, see “MP tray” on page 33.
If paper does not feed from the optional 500-Sheet Paper Cassette Unit, the unit may not be installed properly.	For instructions on installing the unit, see “500-Sheet Paper Cassette Unit” on page 169.

---



---


## ***Status and Error Messages***

This section contains a list of error messages shown on the LCD panel, giving a brief description of each message and suggestions for correcting the problem. Note that not every message shown on the LCD panel indicates a problem.

### ***Calibrating Printer***


The printer automatically calibrates itself when any of its covers are opened and there is no error inside. This is not an error message, and will clear itself after a few minutes. While the printer displays this message, do not open the covers or turn off the printer.

### ***Cancel All Print Job***


The printer is canceling all print jobs in the printer memory, including jobs the printer is currently receiving or printing. This message appears when the  Cancel Job button has been pressed down for more than 2 seconds.



### *Cancel Print Job*

The print is canceling the current print job. This message appears when the  Cancel Job button has been pressed and released within 2 seconds.

### *Can't Print Duplex*

The printer has encountered problems during duplex printing. Make sure you are using an appropriate type and size of paper for the Duplex Unit. The problem could also be a result of incorrect settings for the paper source you are using. Pressing the Start/Stop button will print the rest of the print job on only one side of the paper. Press the  Cancel Job button to cancel the print job.

### *Check Duplex P-Size*

The paper size loaded in the printer is not appropriate for the optional Duplex Unit. Only A4 or letter size can be used.

### *Check Paper Size*

The paper size setting is different from the size of paper loaded in the printer. Check to see if the correct size of paper is loaded in the specified paper source.

To clear this error, select **Clear Warning** from the control panel's Reset Menu. See "How to access the control panel menus" on page 199 for instructions.

### *Check Paper Type*

The media loaded in the printer does not match the paper type setting in the printer driver. Media that matches only the paper size setting will be used for printing.

To clear this error, select **Clear Warning** from the control panel's Reset Menu. See "How to access the control panel menus" on page 199 for instructions.

### *Check Media Type*

You have loaded media other than transparencies when the Paper Type setting in the printer driver is Transparency. The printer stops loading to prevent printer damage. Load transparencies in the specified paper source, then press the Start/Stop button.

### *Clean Sensor*

The sensor inside the printer is dirty. Open and close the front cover. Automatic cleaning is performed.

### *Collate disabled*

Printing by specifying the number of copies is no longer possible due to a lack of memory (RAM) or free disk space on the optional Hard Disk Drive. If this error occurs, print only one copy at a time.

To clear this error, select **Clear Warning** from the control panel's Reset Menu. See "How to access the control panel menus" on page 199 for instructions.

### *Cooling Down*


The printer lowers its temperature to optimize for the fixing toner. Wait for a moment for **Ready** to appear in the LCD panel.

### *Cover C Open*

Cover C of the optional 500-Sheet Paper Cassette Unit is open. Close the cover.

### *Duplex Mem Overflow*

There is not enough memory for duplex printing. The printer prints only on the front and ejects the paper. To clear this error, follow the instructions below.

If **Off** is selected as the Auto Cont setting on the control panel's Setup Menu, press the Start/Stop button to print on the back of the next sheet, or press the  Cancel Job button to cancel the print job.

If **On** is selected as the Auto Cont setting on the control panel's Setup Menu, printing continues automatically after a certain period of time.

### *Format Error ROM A*

An unformatted ROM module has been inserted. If the ROM module has been formatted, but is still unreadable, format it again. If the ROM is still unreadable after reformatting, take the module to your dealer for repair or replacement.

To clear this error, either press the Start/Stop button or turn off the printer and remove the ROM module.

### *Formatting HDD*

The printer is formatting the optional Hard Disk Drive.

### *Form Data Canceled*

Unable to store form overlay data on the printer's Hard Disk Drive. Either the drive is full, or the maximum number of form overlay files has been reached. Delete any form overlay files you no longer need, then try storing the new overlay again.

To clear this error, select **Clear Warning** from the control panel's Reset Menu. See "How to access the control panel menus" on page 199 for instructions.

### *Form Feed*

The printer is ejecting paper due to a printing error. This message appears when the Start/Stop button has been held down for more than 2 seconds in order to recover from a printing error.

## *Hard Disk Full*

The printer has insufficient memory. Delete the unnecessary data from the Hard Disk Drive.

To clear this error, select **Clear Warning** from the control panel's Reset Menu. See "How to access the control panel menus" on page 199 for instructions.

## *HDD Check*

The printer is checking the Hard Disk Drive.

## *Image Optimum*

There is insufficient memory to print the page at the specified print quality. The printer automatically lowers the print quality so that it can continue printing. If the quality of the printout is not acceptable, try simplifying the page by limiting the number of graphics or reducing the number and size of fonts.

To clear this error, select **Clear Warning** from the control panel's Reset Menu. See "How to access the control panel menus" on page 199 for instructions.

Turn the **Image Optimum** setting off on the control panel's Printing Menu if you do not want the printer to automatically lower the print quality to continue printing.

You may need to increase the amount of printer memory to be able to print at the desired print quality for your document. For more information on adding memory, see "Memory module" on page 324.

## *Install Photocondctr*

There is no photoconductor unit installed or the photoconductor unit is not installed properly. Install the photoconductor unit if it is not installed.

If a photoconductor unit is already installed, open the front cover, then remove the waste toner collector. Remove the photoconductor unit, then reinstall it correctly. Reinstall the waste toner collector, and close the front cover. The error clears automatically if the photoconductor unit is installed correctly.

### *Install Waste T Box*

The waste toner collector is not installed, or is installed incorrectly. If there is no waste toner collector installed, install one in the printer. If there is a waste toner collector already installed, try removing it and reinstalling it. See “Replacing the waste toner collector” on page 251 for instructions.

### *Invalid AUX I/F Card*

This message means that the printer cannot communicate with the installed optional interface card. Turn off the printer, remove the card, then reinstall it.

### *Invalid HDD*

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

### *Invalid PS3*

An optional PostScript 3 ROM module that cannot be used on this printer is installed. Turn off the printer and remove the module.

### *Invalid ROM A*

The printer cannot read the installed optional ROM module. Turn off the printer and remove the ROM module.

### *Jam XX*


The location where the paper jam occurred is displayed at xxxx. xxxx indicates the location of the error.

If a paper jam occurs at two or more locations simultaneously, the corresponding multiple locations are displayed.

Jam A	Paper is jammed at the MP tray. For instructions on how to remove jammed paper at the MP tray, see "Jam A (Cover AB)" on page 268.
Jam B	Paper is jammed inside the output path cover (cover AB) or fuser unit. For instructions on how to remove jammed paper at the output path cover or fuser unit, see "Jam B (Cover AB)" on page 271.
Jam C	Paper is jammed inside the optional lower cassette (Cover C). For instructions on how to remove jammed paper in the optional lower cassette, see "Jam C (Cover C)" on page 278.
Jam DM	Paper is jammed inside the optional Duplex Unit's paper path or cover (cover DM). For instructions on how to remove jammed paper at the Duplex Unit, see "Jam DM (Cover DM)" on page 280.


### *Manual Feed xxx*

The manual feed mode is specified for the current print job. Make sure the paper size indicated by xxx is loaded, then press the Start/Stop button.

If you do not want to print this job in manual mode, press the  Cancel Job button. The printer feeds paper from the specified paper source.

For details on the manual feed mode, see "Manually feeding paper".


### *Mem Overflow*

The printer has insufficient memory to execute the current task. Press the Start/Stop button on the control panel to resume printing. Or press the  Cancel Job button to cancel the print job.

### *Menus Locked*

This message appears if you try to change the printer's settings through the control panel when the buttons are locked. You can unlock them by using the EPSON WinAssist or WebAssist utility. Refer to the *Administrator's Guide* for information.

### *Need Memory*

The printer has insufficient memory to complete the current print job. Cancel printing by deleting it from the print queue on your computer, or by pressing the  Cancel Job button on the printer.

To clear this error message, select **Clear Warning** from the control panel's **Reset Menu**. See "How to access the control panel menus" on page 199 for instructions.

To prevent this problem from happening again, add more memory to your printer as described in "Memory module" on page 324.

### *Offline*

The printer is not ready to print. Press the Start/Stop button.


### *Optional RAM Error*

The optional memory module may be corrupted or incorrect. Replace it with a new one.

### *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.

### *Paper Set XXX YYY*

The paper loaded in the specified paper source (XXX) does not match the required paper size (YYY). Replace the loaded paper with the correct size paper and press the Start/Stop button to resume printing. Or press the  Cancel Job button to cancel the print job.

If you press the Start/Stop button without replacing the paper, the printer will print on the loaded paper even though it does not match the required size.



### *Please wait*

The developer cartridge to be replaced is moving to the replacement position in the printer.

### *Printer Open*

One or more of the following covers are open; the front cover, Cover AB, Cover DM, or Cover C.

### *Print Overrun*

The required time to process the print data exceeded the print engine speed because the current page is too complex. Press the Start/Stop button to resume printing. Or press the  Cancel Job button to cancel the print job. If this message appears again, select  On as the Page Protect setting in the control panel's Setup Menu.

If you continue to receive this message when printing a particular page, try simplifying the page by limiting the number of graphics or reducing the number and size of fonts.

You can also add more memory to the printer as described in "Memory module" on page 324.



### *PS3 Hard Disk full*

The memory allocated for writing PostScript 3 commands on the optional Hard Disk Drive is full.

To clear this error, select **Clear Warning** from the control panel's Reset Menu. See "How to access the control panel menus" on page 199 for instructions.

### *RAM Check*

The printer is checking the RAM.

### *Ready*

The printer is ready to receive data and print.

### *Replace Toner X*

The developer cartridge to be replaced has been moved to the replacement position in the printer.

### *Replace Photocondctr*

The photoconductor unit has reached the end of its service life. Replace the photoconductor unit with a new one. See "Photoconductor Unit" on page 246 for instructions.

The error clears automatically after you replace the unit and close all printer covers. The photoconductor service life counter is reset automatically.

### *Replace TransferUnit*

The transfer unit has reached the end of its service life. Replace the transfer unit with a new one. See "Transfer Unit" on page 253 for instructions.

The error clears automatically after you replace the unit and close all printer covers. The transfer unit service life counter is reset automatically.

### *Replace Waste T Box*

The waste toner collector is full of toner. Replace it with a new waste toner collector. See “Replacing the waste toner collector” on page 251.

The error clears itself after you have replaced the waste toner collector and close the front cover.

### *Reserve Job Canceled*

The printer cannot store the data of your print job using the Reserve Job function. The maximum number of print jobs stored in the printer's Hard Disk Drive has been reached, or the drive has no more memory available to store a new job. To store a new print job, delete a previously stored job. Also, if you have any Confidential Jobs stored, printing those jobs will make more memory available.

To clear this error, select `Clear Warning` from the control panel's Reset Menu. See “How to access the control panel menus” on page 199 for instructions.

### *Reset*

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

### *Reset All*

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

### *Reset to Save*

A control panel menu setting was changed while the printer was printing. Press the Start/Stop button to clear this message. The setting will become effective after printing has finished.

### *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. Turn off the printer. Wait at least 5 seconds and then turn it back on. If the error message still appears, write down the error number listed on the LCD panel (xyyy) and turn off the printer, unplug the power cord, and contact a qualified service representative.

### *Sleep*

The printer is in sleep mode.

### *Unable Clear Error*

The printer cannot clear an error message because the error status still remains. Try solving the problem again.

### *Warming Up*

The printer is warming up.

### *Waste T BoxNearfull*

The waste toner collector is nearly full of toner. You can continue to print until the `Replace Waste T Box` error message appears, but early replacement is recommended to maintain high print quality. See “Replacing the waste toner collector” on page 251.

### *Worn Fuser*

This message indicates that the fuser unit is near the end of its service life. Turn the printer off, then replace the fuser unit with a new one. Contact your dealer. “Fuser Unit” on page 238

To clear this warning message and continue printing, select `Clear Warnings` from the control panel’s Reset Menu. See “How to access the control panel menus” on page 199 for instructions.

### *Worn Photoconductor*

This message indicates that the photoconductor unit is near the end of its service life. You can continue to print until the `Replace Photocondctr` error message appears, but early replacement is recommended to maintain high print quality.

To clear this warning message and continue printing, select `Clear All Warnings` from the control panel’s Reset Menu. See “How to access the control panel menus” on page 199 for instructions.

### *Worn Transfer Unit*

This message warns you that the transfer unit is near the end of its service life. You can continue to print until the `Replace TransferUnit` error message appears, but early replacement is recommended to maintain high print quality.

### *Write Error ROM A/Write Error ROM P*

This message indicates an internal error in the printer. Reset the printer. If this error persists, consult your dealer.

## *Writing ROM A/Writing ROM P*

This message indicates that a ROM module in slot A or P is being written. Please wait until this message disappears.

### *XXXX Toner Low*

The indicated developer cartridges have little toner remaining. (The letters C, M, Y, or K appear in place of XXXX and indicate the colors Cyan, Magenta, Yellow, and Black respectively.)

You can continue to print until the XXXX Toner Cart Out error message appears. Waiting until this message appears before replacing the toner is recommended as toner may spill during replacement if toner remains in the cartridge. When printouts become faint, see “Developer Cartridge” on page 242 for instructions.

To clear this error, select `Clear Warning` from the control panel's Reset Menu. See “How to access the control panel menus” on page 199 for instructions.

### *XXXX Toner Cart Out*

One or more developer cartridges are not installed in the printer.

Install the cartridges. See “Developer Cartridge” on page 242 for instructions.



---

## ***Canceling Printing***

You can cancel printing from your computer by using the printer driver

To cancel a print job before it is sent from your computer, see “Canceling Printing” on page 100 for Windows, or “Canceling Printing” on page 142 for Macintosh.




## ***Using the Cancel Job button***

The  Cancel Job button on your printer is the quickest and easiest way to cancel printing. Pressing this button cancels the currently printing job, and any print data that was being saved to the Hard Disk Drive. Pressing the  Cancel Job button for more than two seconds deletes all jobs from the printer memory, including jobs the printer is currently receiving, saving to the Hard Disk Drive, or printing.

## ***Using the Reset Menu***

Selecting **Reset** from the control panel's **Reset Menu** stops printing, clears the print job being received from the active interface, and clears errors that may have occurred at the interface.

Follow these steps.

1. Press the  Enter button to access the control panel menus.
2. Press the ▼ Down button several times until **Reset Menu** appears on the LCD panel, then press the  Enter button.
3. Press ▼ Down button one time to display **Reset**.
4. Press the  Enter button. Printing is canceled and the printer is ready to receive a new print job.

## ***Technical Specifications***

---

### ***Available Paper***

---

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.

## ***Available paper types***

<b>Paper type</b>	<b>Description</b>
Plain paper	General copier paper (Recycled paper is acceptable.*)
Envelopes	No paste and no tape  No plastic window (unless specifically designed for laser printers)
Labels	The backing sheet should be covered completely, with no gaps between labels.
Thick paper	Weight: 91 to 163 g/m <sup>2</sup>
Laser printer paper	EPSON Color Laser Paper
Transparencies	EPSON Color Laser Transparencies
Coated paper	EPSON Color Laser Coated Paper
Colored paper	Non-coated
Paper with letterhead	Paper and ink of letterheads must be compatible with laser printers.

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



## **Specifications**

### **Plain paper**

Weight:	60 to 90 g/m <sup>2</sup> , 16 to 24 lb
Size:	A4 (210 × 297 mm) A5 (148 × 210 mm) B5 (182 × 257 mm) Letter (8.5 × 11 in.) Half-Letter (5.5 × 8.5 in.) Government Letter (8.0 × 10.5 in.) Executive (7.25 × 10.5 in.) Custom (92 to 216 mm × 210* to 297 mm) <small>*Paper that is shorter than 210 mm is printed as thick paper.</small>
Paper Sources:	MP tray for all sizes  Optional 500-Sheet Paper Cassette Unit for A4  Optional Duplex Unit for A4, Letter

### **Envelopes**

Size:	Monarch (3 7/8 × 7 1/2 in.) Commercial 10 (4 1/8 × 9 1/2 in.) DL (110 × 220 mm) C6 (114 × 162 mm) C5 (162 × 229 mm) International B5 (176 × 250 mm, 7 × 9.8 in.)
Paper Source:	MP tray only

### **Labels**

Weight:	91 to 163g/m <sup>2</sup> , 24 to 43 lb
---------	---

Size: 91 to 216 mm × 148 to 297 mm  
Paper Source: MP tray only

### ***Thick paper***

Weight:	91 to 163 g/m <sup>2</sup> , 24 to 43 lb
Size:	92 to 216 mm × 148 to 297 mm
Paper Source:	MP tray only

### ***EPSON Color Laser Paper***

Size:	A4 (210 × 297 mm) Letter (8.5 × 11 in.)
Paper Sources:	MP tray for all sizes  Optional 500-Sheet Paper Cassette Unit for A4  Optional Duplex Unit for A4, Letter

### ***EPSON Color Laser Transparencies***

Size:	A4 (210 × 297 mm) Letter (8.5 × 11 in.)
Paper Source:	MP tray only

### ***EPSON Color Laser Coated Paper***

Size:	A4 (210 × 297 mm)
Paper Source:	MP tray only (when Coated or Coated (Back) is selected as the Paper Type setting in the printer driver)

### ***Printable area***

4-mm minimum margin on all sides

***Note:***

*The printable area varies, depending on the emulation mode in use.*

---

# Printer

## General

Printing method:	Laser beam scanning and dry electrophotographic process
Resolution:	600 × 600 dpi, 300 × 300 dpi
Continuous printing speed (with A4/Letter)	Printing speed varies by paper source or other conditions.
Color printing:	4 pages per minute or more
Black only printing:	16 pages per minute or more
First print (with A4/Letter):	Printing speed varies by paper source or other conditions.
Color printing:	25 seconds or less
Black only printing:	14 seconds or less
Warm-up time:	About 180 seconds at normal temperature
Paper feed:	Automatic or manual feed
Paper feed alignment:	Center alignment for all sizes
Input paper supply:	
MP tray:	Up to 200 sheets of plain paper and EPSON Color Laser Paper Up to 10 envelopes Up to 50 sheets of labels, thick paper, transparencies, and EPSON Color Laser Coated Paper
Optional 500-Sheet Paper Cassette Unit:	Up to 500 sheets of plain paper and EPSON Color Laser Paper
Optional Duplex Unit:	A4 or Letter

Paper output:	For all paper types and size
Paper output capacity:	Up to 200 sheets (A4 or letter size plain paper)
Internal emulation:	PCL5e mode (LJ4 mode) HP-GL/2 emulation (GL2 mode) ESC/P 2 24-pin printer emulation (ESC/P 2 mode) ESC/P 9-pin printer emulation (FX mode) IBM Proprinter emulation (I239X mode)
Resident fonts:	84 scalable fonts, and 7 bitmap fonts
RAM:	32 MB, expandable up to 1 GB To increase printer memory to 544 MB or more, you have to remove the original 32MB RAM.

**Environmental**

Temperature:	Operation:	10 to 35 °C (50 to 95°F)
	Storage:	0 to 35 °C (32 to 95 °F)
Humidity:	Operation:	15 to 85% RH
	Storage:	10 to 85% RH
Altitude:	2,500 meters (8,200 feet) maximum	

**Mechanical**

Dimensions and weight:	Height:	406 mm (16.0 in.)
	Width:	429 mm (16.9 in.)
	Depth:	521 mm (20.5 in.)
	Weight:	Approx. 29 kg (about 63.9 lb), excluding options
Durability:	5 years or 200,000 pages, whichever comes first (under the condition of A4 or letter size plain paper)	

**Electrical**

	110 V/120 V Model (Model L431A)	220 to 240 V Model (Model L431A)
Voltage	110 V-120 V ± 10%	220 V-240 V ± 10%
Rated frequency	50 Hz / 60 Hz ± 3 Hz	50 Hz / 60 Hz ± 3 Hz
Rated current	Less than 11 A	Less than 7A

Power consumption	During printing*	Average	Color	247Wh	251Wh
			B/W	372Wh	352Wh
		MAX	Color	1100W or less	
			B/W	1100W or less	
	During sleep mode	Average		108Wh	107Wh
	Sleep mode**			Less than 15W	Less than 12W

\* Includes optional cassette unit and Duplex Unit.

\*\* Completely suspended. Compliant with the Energy Star program.

# Standards and approvals

U.S. model:

Safety	UL 60950 CSA C22.2 No. 60950
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 55024
	EN 61000-3-2
	EN 61000-3-3



Australian model:

EMC

AS/NZS 3548 Class B

### ***Laser safety***

This printer is certified as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to the Radiation Control for Health and Safety Act of 1968. This means that the printer does not produce hazardous laser radiation.

### ***CDRH regulations***

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. Compliance is mandatory for products marketed in the United States. The label shown below indicates compliance with the CDRH regulations and must be attached to laser products marketed in the United States.

This laser product conforms to the applicable  
requirement of 21 CFR  
Chapter I, subchapter J.

SEIKO EPSON CORP.

Hirooka Office

80 Hirooka, Shiojiri-shi, Nagano-ken,  
Japan

MANUFACTURED:

---

## ***Interfaces***

### ***Parallel interface***

Use the IEEE 1284-I compliant parallel interface connector.

#### ***Using ECP mode***

To use ECP mode with a parallel (IEEE 1284 level I compliant) interface connector, your computer must support ECP mode.

The procedure of the mode setting on the parallel interface may differ depending on your computer. Refer to your computer's manual to adjust the mode setting on the parallel interface.

### ***USB interface***

USB 1.1

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

*Only computers equipped with a USB connector and running Mac OS 8.1 to 9.X or Windows Me, 98, XP, or 2000 support the USB interface.*

### ***Ethernet interface***

You can use an IEEE 802.3 100BASE-TX/10BASE-T straight-through shielded, twisted-pair interface cable with the RJ45 connector.

---

## ***Options and Consumables***

### ***500-Sheet Paper Cassette Unit***

Paper size:	A4
Paper weight:	60 to 90 g/m <sup>2</sup> (16 to 24 lb)
Paper feed:	Automatic feed delivery system Cassette capacity up to 500 sheets
Paper types:	Plain paper, EPSON Color Laser Paper, and EPSON Color Laser Coated Paper*
	* This media can be fed from this paper source only when Plain is selected as the Paper Type setting in the printer driver.
Power supply:	5 Vdc and 24V supplied by the printer
Dimensions and weight:	
Height:	178 mm (7.0 in.)
Width:	380 mm (15.0 in.)
Depth:	485 mm (19.1 in.)
Weight:	5.3 kg (11.7 lb), including paper cassette

### ***Duplex Unit***

Paper size:	A4, Letter
Paper weight:	60 to 90 g/m <sup>2</sup> (16 to 24 lb)
Paper feed:	Automatic feed delivery system
Paper types:	Plain paper, EPSON Color Laser Paper
Dimensions and weight:	

Height:	330 mm (13.0 in.)
Width:	96 mm (3.8 in.)
Depth:	340 mm (13.4in.)
Weight:	2.0 kg (4.4 lb)

## ***Memory module***

DRAM type:	Synchronous Dynamic RAM Dual In-line memory module (SDRAM DIMM)*
Memory size:	32MB, 64 MB, 128 MB, 256MB, or 512 MB
Type:	168-pin type, 64 bit, with SPD**
Clock frequency:	100 MHz or higher (10 ns or less)
CAS Latency:	CL=2

\*EPSON recommends PC100 to PC133 compliance.

\*\* SPD stands for Serial Presence Detect, a chip residing on the memory module that contains information about the size, speed, and other specifications of the memory as well as manufacturer information that can be retrieved by the motherboard through electronic signals.

## ***IEEE 1394 Interface (for Macintosh only)***

### Basic Specifications

Data transfer method: Half-duplex Data/Strobe differential serial

Synchronization method: IEEE 1394 - 1995 compliant

Encoding/decoding: IEEE 1394 - 1995 compliant

Compatible connectors: IEEE 1394 - 1995 compatible 6 contact receptable

## ***Hard Disk Drive***

The Hard Disk Drive enables the Reserve Job function as well as receives a lot of data, because they are temporarily spooled in the Hard Disk Drive.

## ***Developer cartridges***

Storage temperature: 0 to 35 °C (32 to 95 °F)

Storage humidity: 30 to 85% RH

Life:\* Up to 4,500 images each  
(under the conditions  
of A4 size paper, at 5%  
print ratio)

\* The developer cartridges included with the printer print up to 1,500 images each.

The actual number of pages you can print with developer cartridges varies depending on the type of printing.

## ***Photoconductor unit***

Storage temperature: 0 to 35 °C (32 to 95 °F)

Storage humidity: 30 to 85% RH

Life\*: 45,000 images of black and white  
continuous printing  
11,250 images of color continuous  
printing

\* Note: results can vary depending on printer usage.

When you use thick paper, transparencies, envelopes, labels, or other special media, service life may be shorter than that described above.

## ***Transfer unit***

Storage temperature: 0 to 35 °C (32 to 95 °F)

Storage humidity: 30 to 85% RH

Life\*: 210,000 images of black and white  
continuous printing  
52,500 images of color continuous  
printing

\* Note: results can vary depending on printer usage.

Service life may be shortened by repeatedly warming up the printer, or by frequently printing on envelopes, labels, thick paper, transparencies, or paper that is smaller than the print data's page size.

The actual number of pages you can print with a transfer unit varies depending on the type of printing.

## ***Waste toner collector***

Storage temperature: 0 to 35 °C (32 to 95 °F)

Storage humidity: 30 to 85% RH

Life\*: 6,250 images of color printing

25,000 images of black-and-white printing  
(under the conditions of A4 size paper, at  
5% print ratio with color: black and white  
= 1:1)

\* Note: results can vary depending on printer usage.

The actual number of pages you can print before replacing the waste toner collector varies depending on the type of printing.





# Symbol Sets

---

---

## Introduction to Symbol Sets

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 handles fonts and symbols automatically, you will 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 the LJ4 Emulation Mode***

The following symbol sets are available in LJ4 emulation mode.

<b>Available typefaces</b>	<b>Symbol set name:</b>	
<b>76 typefaces + Line Printer</b>	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)
<b>76 typefaces</b>	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)	
<b>Line Printer</b>	Roman Extension (0E)	
<b>Symbol Set SWA and Symbol Set SWM</b>	Symbol (19M)	
<b>More WingBats SWM</b>	Wingdings (579L)	
<b>OCR A</b>	OCR A (0O)	

<b>OCR B</b>	OCR B (10)
	OCR B Extension (3Q)
<b>Two types of Code 39</b>	Code 39 (0Y)
<b>Two types of EAN/UPC</b>	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	Swiss 721 SWA
Courier SWC Bold	Swiss 721 SWA Bold
Courier SWC Italic	Swiss 721 SWA Italic
Courier SWC Bold Italic	Swiss 721 SWA Bold Italic
Dutch 801 SWC	Swiss 721 Narrow SWA
Dutch 801 SWC Bold	Swiss 721 Narrow SWA Bold
Dutch 801 SWC Italic	Swiss 721 Narrow SWA Italic
Dutch 801 SWC Bold Italic	Swiss 721 Narrow SWA Bold Italic
Zapf Humanist 601 SWC	Zapf Calligraphic 801 SWA
Zapf Humanist 601 SWC Bold	Zapf Calligraphic 801 SWA Bold
Zapf Humanist 601 SWC Italic	Zapf Calligraphic 801 SWA Italic
Zapf Humanist 601 SWC Bold Italic	Zapf Calligraphic 801 SWA Bold Italic
Ribbon 131 SWC	ITC Avant Garde SWA
Clarendon Condensed SWC	ITC Avant Garde SWA Bold
Swiss 742 SWC	ITC Avant Garde SWA Italic
Swiss 742 SWC Bold	ITC Avant Garde SWA Bold Italic
Swiss 742 SWC Italic	ITC Bookman SWA
Swiss 742 SWC Bold Italic	ITC Bookman SWA Bold
Swiss 742 Condensed SWC	ITC Bookman SWA Italic
Swiss 742 Condensed SWC Bold	ITC Bookman SWA Bold Italic
Swiss 742 Condensed SWC Italic	Century Schoolbook SWA
Swiss 742 Condensed SWC Bold Italic	Century Schoolbook SWA Bold
Incised 901 SWC	Century Schoolbook SWA Italic
Incised 901 SWC Bold	Century Schoolbook SWA Bold Italic
Incised 901 SWC Italic	Dutch 801 SWA
Original Garamond SWC	Dutch 801 SWA Bold
Original Garamond SWC Bold	Dutch 801 SWA Italic
Original Garamond SWC Italic	Dutch 801 SWA Bold Italic
Original Garamond SWC Bold Italic	ITC Zapf Chancery SWA Italic
Audrey Two SWC	Letter Gothic SWC
Flareserif 821 SWC	Letter Gothic SWC Bold
Flareserif 821 SWC Extra Bold	Letter Gothic SWC Italic
Swiss 721 SWM	Courier SWA
Swiss 721 SWM Bold	Courier SWA Bold
Swiss 721 SWM Italic	Courier SWA Italic
Swiss 721 SWM Bold Italic	Courier SWA Bold Italic
Dutch 801 SWM	
Dutch 801 SWM Bold	
Dutch 801 SWM Italic	
Dutch 801 SWM Bold Italic	

## ***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)
	HP Spanish (1S)	German (1G)
	Chinese (2K)	Spanish (2S)
	IRV (2U)	Swedish (3S)
	Portuguese (4S)	IBM Portuguese (5S)
	IBM Spanish (6S)	

---

## ***In the ESC/P 2 or FX Modes***

	<b>Pc 437 (U.S./ Standard Europe)</b>	<b>Pc 850 (Multilingual), Pc 860 (Portuguese), Pc 863 (Canadian- French), Pc 865 (Nordic), Roman-8, 8859-15 ISO</b>	<b>Pc 857 (Turkish), Pc 861 (Icelandic), Pc 852 (East Europe, BpBRASCII, Abicomp, ISOLatin1</b>	<b>Pc858 (13U)</b>	<b>OCR A</b>
<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>Pc 437 (U.S./ Standard Europe)</b>	<b>Pc 850 (Multilingual), Pc 860 (Portuguese), Pc 863 (Canadian- French), Pc 865 (Nordic), Roman-8, 8859-15 ISO</b>	<b>Pc 857 (Turkish), Pc 861 (Icelandic), Pc 852 (East Europe, BpBRASCIi, Abicomp, ISOLatin1</b>	<b>Pc858 (13U)</b>	<b>OCR A</b>
<b>OCR B</b>	available	not available	not available	available	not available

\* Available only in ESC/P2 mode.

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 the I239X Emulation Mode

The available symbol sets in the I239X mode are Pc437, Pc850, Pc858, Pc860, Pc863, and Pc865. See “In the ESC/P 2 or FX Modes” on page 334.

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



---

## ***In the EPSON GL/ 2 Mode***

The available symbol sets in the EPSON GL/ 2 mode are the same as those in LaserJet4 emulation mode. See “In the LJ4 Emulation Mode” on page 330.



---

# Working with Fonts

---

## EPSON BarCode Fonts (Windows Only)

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

Normally, bar code 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 bar code characters themselves. However, EPSON BarCode Fonts are designed to add such codes automatically, allowing you to easily print bar codes that conform to a variety of bar code standards.

EPSON BarCode Fonts support the following types of bar codes.

Bar code Standard	EPSON BarCode	OCR-B	Check Digit	Comments
EAN	EPSON EAN-8	Yes	Yes	Creates EAN (abbreviated version) bar codes.
	EPSON EAN-13	Yes	Yes	Creates EAN (standard version) bar codes.
UPC-A	EPSON UPC-A	Yes	Yes	Creates UPC-A bar codes.
UPC-E	EPSON UPC-E	Yes	Yes	Creates UPC-E bar codes.

Bar code Standard	EPSON BarCode	OCR-B	Check Digit	Comments
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 bar codes.
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:

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

Operating system: Microsoft Windows Me, 98, 95, Windows XP, 2000, NT 4.0

Hard disk: 15 to 30 KB free space, depending on the font.

**Note:**

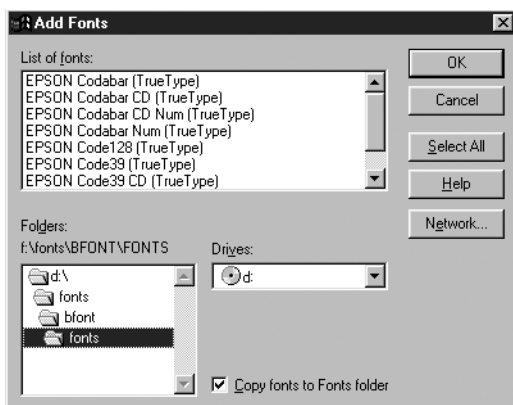
*EPSON BarCode Fonts can only be used with EPSON printer drivers.*

## **Installing EPSON BarCode Fonts**

Follow these steps to install EPSON BarCode Fonts. The procedure described here is for installation in Windows 98; 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.

**Note:**

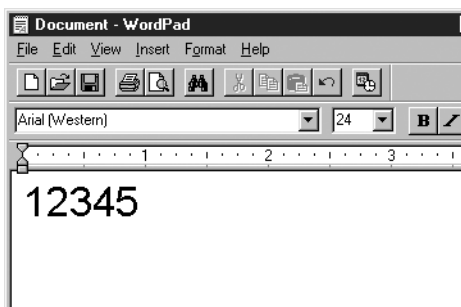
*Make sure that the Copy fonts to Fonts folder check box is selected.*

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 bar codes using EPSON BarCode Fonts. The application featured in these instructions is Microsoft WordPad. The actual procedure may differ slightly when printing from other applications.

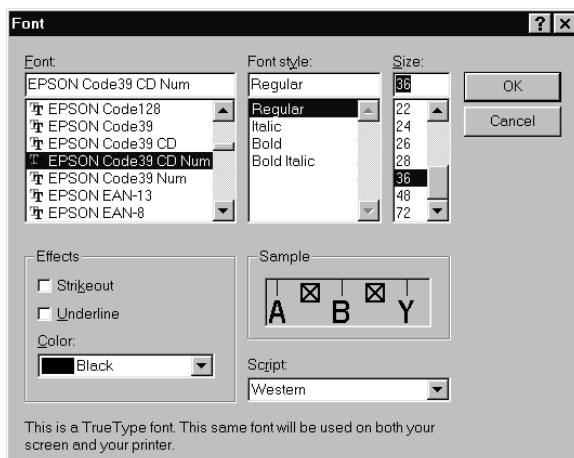
1. Open a document in your application and enter the characters you want to convert into a bar code.



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



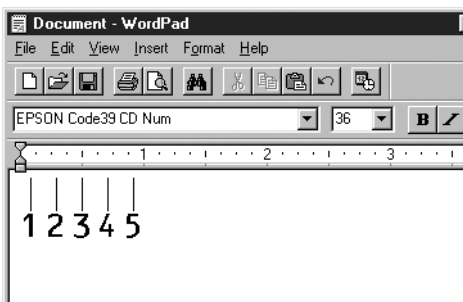
3. Select the EPSON BarCode Font you want to use, then set the font size and click OK.



**Note:**

*In Windows XP, 2000, and NT 4.0, you cannot use font sizes larger than 96 points when printing bar codes.*

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





5. Select Print from the File menu, then select your EPSON printer and click Properties. Make the following printer driver settings. AL-C1900 is a color printer. See the Color Printer Driver section in the table below.

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

6. Click OK to print the bar code.

**Note:**

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

### **Notes on inputting and formatting bar codes**

Please note the following when inputting and formatting bar code characters:

- ❑ Do not apply shading or special character formatting, such as bold, italic, or underline.
- ❑ Print bar codes 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 that 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 bar codes 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 bar code may have more characters than were originally input.
- ❑ For best results, use only the font sizes recommended in "BarCode Font specifications" on page 347 for the EPSON BarCode Font you are using. Bar codes in other sizes may not be readable with all bar code readers.

**Note:**

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

## ***BarCode Font specifications***

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

### ***EPSON EAN-8***

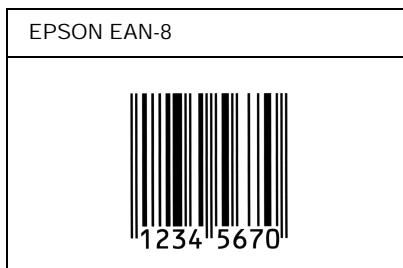
- ☐ EAN-8 is an eight-digit abbreviated version of the EAN bar code standard.
- ☐ Because the check digit is added automatically, only 7 characters can be input.

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 XP/2000/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

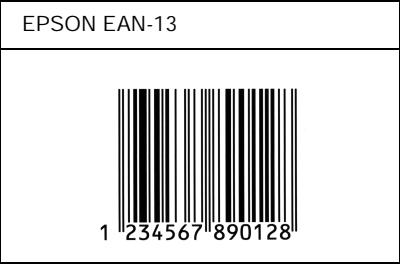
- ☐ EAN-13 is the standard 13-digit EAN bar code.
- ☐ Because the check digit is added automatically, only 12 characters can be input.

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 XP/2000/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*

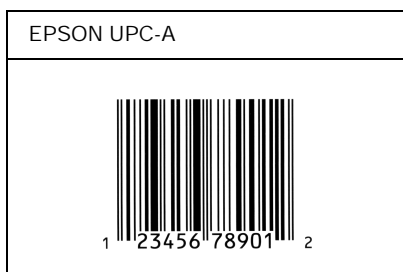
- ☐ UPC-A is the standard bar code specified by the American Universal Product Code (UPC Symbol Specification Manual).
- ☐ Only regular UPC codes are supported. Supplementary codes are not supported.

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 XP/2000/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

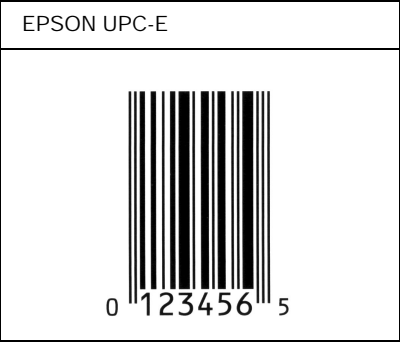
- ☐ UPC-E is the UPC-A zero-suppression (deletes extra zeros) bar code specified by the American Universal Product Code (UPC Symbol Specification Manual).

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 XP/2000/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 bar code 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 bar code and the surrounding text to prevent overlapping.
- ☐ Spaces in Code39 bar codes should be input as “\_” underbars.
- ☐ When printing two or more bar codes on one line, separate the bar codes 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 bar code 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 XP/2000/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 XP/2000/NT). Recommended sizes are 36 pt, 72 pt, 108 pt, and 144 pt.</p>
-----------	--

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
 1 2 3 4 5 6 7	 1 2 3 4 5 6 7 S

*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.



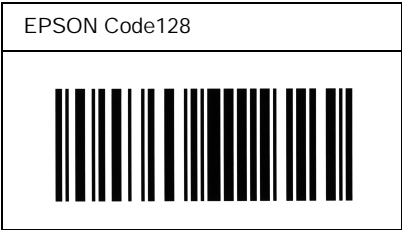
- ❑ The height of the bar code is automatically adjusted to 15% or more of its total length, in conformance to the Code128 standard. For this reason, it is important to keep at least one space between the bar code and the surrounding text to prevent overlapping.
- ❑ Some applications automatically delete the spaces at the end of lines or change multiple spaces into tabs. Bar codes 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 bar codes on one line, separate the bar codes 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 bar code 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 XP/2000/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 bar code 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 bar code 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	<p>When OCR-B is not used: 26 pt or more (up to 96 pt in Windows XP/2000/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 XP/2000/NT). Recommended sizes are 36 pt, 72 pt, 108 pt, and 144 pt.</p>
-----------	--

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*

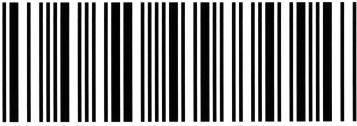
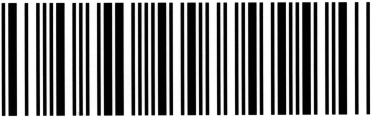


- ❑ Four Codabar fonts are available, allowing you to enable and disable the automatic insertion of check digits and OCR-B.
- ❑ The height of the bar code is automatically adjusted to 15% or more of its total length, in conformance to the Codabar standard. For this reason, it is important to keep at least one space between the bar code and the surrounding text to prevent overlapping.
- ❑ When either a Start or a Stop character is input, Codabar fonts automatically insert the complementary 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 XP/2000/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 XP/2000/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

---

***Available Fonts***

The following table lists the fonts that are installed in your printer. The names of all the fonts appear in your application 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
ITC Avant Garde SWA	Medium, Bold, Italic, Bold Italic	ITC Avant Garde Gothic
ITC Bookman SWA	Medium, Bold, Italic, Bold Italic	ITC Bookman

Font Name	Family	HP Equivalent
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 application software, 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, Code39, and EAN/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.*

## l239X 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, the OCR B font may not be readable. Print a sample and make sure the font can be read before printing large quantities.*

## ***Printing font samples***

You can print samples of the fonts available in each mode by using the control panel's Information Menu. Follow these steps to print font samples.

1. Make sure that paper is loaded.
2. Make sure the LCD panel displays **Ready** or **Sleep**, then press the  Enter button.
3. Press the  Down button to select the font sample for the appropriate mode.
4. Press the  Enter button to print the selected font sample sheet.

---

## ***Adding More Fonts***

You can add a wide variety of fonts to your computer. Most font packages include an installer for this purpose.

See your computer documentation for instructions on installing fonts.

---

## **Selecting Fonts**

Whenever possible select fonts in your application. 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 using the printer's control panel menus when in the LJ4, ESC/P 2, FX, or I239X emulation mode.

---

## **Downloading 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 reset it. If you plan on downloading many fonts, make sure your printer has sufficient memory.

Most font packages make it easy to manage 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.

---

## **EPSON Font Manager (Windows Only)**

EPSON Font Manager provides you with 131 software fonts.

## ***Installing EPSON Font Manager***

Follow these steps to install EPSON Font Manager.

1. Make sure that the printer is off and that Windows is running on your computer.
2. Insert the CD-ROM that comes with your printer into your CD-ROM drive.
3. In the dialog box that appears, double-click Install Software.



4. Click the Advanced button.
5. Select EPSON Font Manager, and click OK.
6. Follow the on-screen instructions.

7. When installation is complete, click OK.

EPSON Font Manager is now installed on your computer.

---

## Available Fonts

The following table lists the fonts that are installed in your printer. The names of all the fonts appear in your application 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
Flaereserif 821 SWC	Medium, Extra Bold	Albertus
Swiss 721 SWM	Medium, Bold, Italic, Bold Italic	Arial

Font Name	Family	HP Equivalent
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
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 application software, 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, Code39, and EAN/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***


<b>Font Name</b>	<b>Family</b>
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, the OCR B font may not be readable. Print a sample and make sure the font can be read before printing large quantities.*

## ***Printing font samples***

You can print samples of the fonts available in each mode by using the control panel's Information Menu. Follow these steps to print font samples.

1. Make sure that paper is loaded.
2. Make sure the LCD panel displays **Ready** or **Standby**, then press the  Enter button.
3. Press the ▼ Down button to select the font sample for the appropriate mode.

4. Press the  Enter button to print the selected font sample sheet.

---

## ***Adding More Fonts***

You can add a wide variety of fonts to your computer. Most font packages include an installer for this purpose.

See your computer documentation for instructions on installing fonts.

---

## ***Selecting Fonts***

Whenever possible select fonts in your application. 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 using the printer's control panel menus when in the LJ4, ESC/P 2, FX, or I239X emulation mode.

---

## ***Downloading 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 reset it. If you plan on downloading many fonts, make sure your printer has sufficient memory.

Most font packages make it easy to manage 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.

---

## ***EPSON Font Manager (Windows Only)***

EPSON Font Manager provides you with 131 software fonts.

### ***Installing EPSON Font Manager***

Follow these steps to install EPSON Font Manager.

1. Make sure that the printer is off and that Windows is running on your computer.
2. Insert the CD-ROM that comes with your printer into your CD-ROM drive.

3. In the dialog box that appears, double-click Install EPSON Font Manager. Alternatively, you can install it by selecting Install EPSON Font Manager and then clicking the arrow at the top right.



4. Follow the on-screen instructions.
5. When installation is complete, click OK.

EPSON Font Manager is now installed on your computer.

---

## ***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 button 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:

<b>Service</b>	<b>Access</b>
World Wide Web	From the Internet, you can reach EPSON's Latin American web site at <a href="http://www.latin.epson.com">http://www.latin.epson.com</a>  In Brazil, you can reach Epson at <a href="http://www.epson.com.br">http://www.epson.com.br</a>

To speak with a customer support representative, call one of the numbers below:

<b>Country</b>	<b>Telephone number</b>
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 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 advise on problems; they can often solve problems quickly and easily as well as give advise 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 advise. 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 (<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: (65) 6586 3111)*

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 Thailand***

Contact for information, support, and services are:

*World Wide Web (<http://www.epson.co.th>)*

Information on product specifications, drivers for download, Frequently Asked Questions (FAQ), and e-mail are available.



### *Epson Hotline (Phone: (66)2-670-0333)*

Our Hotline 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 Indonesia***

Contacts for information, support, and services are:

#### *World Wide Web (<http://www.epson.co.id>)*

- ☐ Information on product specifications, drivers for download
- ☐ Frequently Asked Questions (FAQ), Sales Enquiries, questions through e-mail

#### *Epson Hotline*

- ☐ Sales enquiries and product information
- ☐ Technical support

Phone                      (62) 21-572 4350

Fax                        (62) 21-572 4357

## *EPSON Support Center*

Jakarta	Wisma Bisnis Indonesia 3rd floor Jl. Letjen S.Parman Kav. 12, Slipi-Jakarta Phone/Fax: (62) 21-5357159
Bandung	Lippo Center 8th floor Jl. Gatot Subroto No.2 Bandung Phone/Fax: (62) 22-7303766
Surabaya	Gedung Koko Perdana 3rd floor Jl. Jend. Basuki RakhmatNo. 105-107 Surabaya Phone/Fax: (62) 31-5458562
Yogyakarta	Hotel Natour Garuda Jl. Malioboro No. 60 Yogyakarta Phone: (62) 274-566353/22-143

## ***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* (<http://www.epson.com.my>)

- ❑ Information on product specifications, drivers for download
- ❑ Frequently Asked Questions (FAQ), Sales Enquiries, questions through e-mail

## *Epson Trading (M) SDN. BHD*

Head Office.

Phone: 603-56288288

Fax: 603-56212088

## *Epson Helpdesk*

- ❑ Sales enquiries and product information (Infoline)

Phone: 603-56288222

- ❑ Enquiries on repair services & warranty, product usage and technical support (Techline)

Phone: 603-56288333

## ***For users in India***

Contacts for information, support, and services are:

*World Wide Web (<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 Head Office - Bangalore:*

Phone: 5321 266-70

Fax: 5581799/5321095

### *Epson India Regional Offices:*

Mumbai	Phone: 8261516-17 Fax: 8257287
Delhi	Phone: 6447201-06 Fax: 6447205
Chennai	Phone: 8203940/41 Fax: 8272463
Kolkata	Phone: 2871355/56 Fax: 2871357
Hyderabad	Phone: 6329335/36
Cochin	Phone: 361638/362677 Fax: 352940
Pune	Phone: 4335460-ext 214 Fax: 4330881
Ahmedabad	Phone: 6407176/77

### *Help Desk*

Nine City Help Line -9622 037766, available at Vadadora, Bangalore, Chennai, Hyderabad, Cochin, Mumbai, Pune, Delhi and Kolkata.

## ***For users in the Philippines***

To obtain technical support as well as other after sales services, users are welcome to contact the EPSON Philippines Corporation at the telephone and fax numbers and e-mail address below:

Phone: (63) 2-813-6567

Fax: (63) 2-813-6545

E-mail: [customersupport@epc.epson.com.ph](mailto:customersupport@epc.epson.com.ph)

World Wide Web (<http://www.epson.com.ph>)

Information on product specifications, drivers for download, Frequently Asked Questions (FAQ), and E-mail Enquiries are available.

Epson Helpdesk (Phone: (63) 2-813-6567)

Our Hotline team can help you with the following over the phone:

- ☐ Sales enquiries and product information
- ☐ Product usage questions or problems
- ☐ Enquiries on repair service and warranty

### **Notice for Windows XP Users**

To use this product on the computer running Windows XP Service Pack 2, follow the steps below to change the settings in Windows Firewall.

**Note:**

*If you register programs to Windows Firewall as exceptions, ports used by the programs are open to incoming communication from an external network. Each time that you allow an exception for a program to communicate through Windows Firewall, your computer is made more vulnerable. If you have many exceptions and open ports, your computer can become a victim of unknown intruders or viruses. Epson takes no responsibilities for damages caused by allowing exception in Windows Firewall.*

#### **A. Configuring the Network Interface using EpsonNet WinAssist**

If you configure the network interface using the computer running Windows XP Service Pack 2, follow the steps below to register the network configuration utility (EpsonNet WinAssist) to Windows Firewall as exceptions; otherwise you cannot configure the network interface because it is not displayed on the screen of the network configuration utility.

After installing EpsonNet WinAssist from the software CD-ROM, make the following settings before configuring the network interface.

1. Click **Start**, point to **Control Panel**, and then select **Security Center**. Click **Windows Firewall**.
2. Click the **Exceptions** tab, and then click the **Add Program** button.
3. Select **EpsonNet WinAssist** from the **Programs** list, and then click **OK**.
4. Confirm that the check box for **EpsonNet WinAssist** is selected in the **Programs and Services** list, and then click **OK**.

## ***B. For EpsonNet WebManager Users***

If EpsonNet WebManager is installed on the computer running Windows XP Service Pack 2, make the following settings; otherwise the client computers cannot access EpsonNet WebManager.

1. Click **Start**, point to **Control Panel**, and then select **Security Center**. Click **Windows Firewall**.
2. Click the **Exceptions** tab, and then click the **Add Port** button.
3. Enter the name of the port in the **Name** text box and **8090** in the **Port number** text box, and then select the **TCP** radio button.

***Note:***

*If necessary, click the **Change scope** button and then specify the IP addresses of the client computers for which the port is unblocked.*

4. Click **OK**.



## C. For Laser Printer Users

If you share the laser printers on the computer running Windows XP Service Pack 2 on the network, client computers with the following conditions cannot monitor the printers using EPSON Status Monitor 3:

- ☐ Client computers running Windows Me/98/95
- ☐ Client computers located in another network segment

### **Solution**

1. Click **Start**, point to **Control Panel**, and then select **Security Center**. Click **Windows Firewall**.
2. Click the **Exceptions** tab, and then click the **Add Program** button.
3. Click the **Browse** button.
4. Select the program located in the following folder, using the **Look in** pull-down menu.

C:\Program Files\Common Files\EPSON\EBAPI\EEBAgent.exe

#### **Note:**

- ☐ *Substitute the drive letter for your operating system.*
- ☐ *If you have upgraded EPSON Status Monitor 2 to EPSON Status Monitor 3, select the folder where EPSON Status Monitor 2 is installed.*

5. Confirm that **EEBAgent.exe** is registered in the Programs list, and then click **OK**.
6. Confirm that the check box for **EEBAgent.exe** is selected in the Programs and Services list, and then click **OK**.

---

# 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.

## **buffer**

See *memory*.

## **character set**

A collection of letters, numbers, and symbols used in a particular language.

## **ColorSync**

Macintosh software that is designed to help you get WYSIWYG (what you see is what you get) color output. This software prints colors as you see them on your screen.

## **cpi (characters per inch)**

A measure of the size of fixed-width text characters.

## **CR (carriage return)**

A control code to return the printing position to the start of the next line after printing one line.

## **default**

A value or setting that takes effect when the printer is turned on, reset, or initialized.

## **download**

To transfer information from the computer to the printer.

## **downloaded font**

A font that is loaded into the printer's memory from an outside source, such as a computer. Also called soft font.

## **dpi (dots per inch)**

The number of dots per inch is a measure of printer resolution. The higher the number of dots, the higher the resolution.

## **driver**

See *printer driver*.

***drum***

The part of the printer mechanism where the image is formed and transferred to paper.

***emulation***

See *printer emulation*.

***FF (Form Feed)***

A control code to break the page.

***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 *I*.

***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.

***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, while 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.

***LF (Line Feed)***

A control code to start a new line.

**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, where the length of the page is longer than its width, or landscape, where the width is longer than its length.

**outline font**

A font whose outline is described mathematically, allowing it to be rendered (printed or drawn) smoothly at any size.

**PCL**

The command language built into the Hewlett-Packard® LaserJet® series printers.

**photoconductor unit**

A component of the printer that contains a photosensitive print drum.

**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.

**ppm (pages per minute)**

The number of pages can be printed in one minute.

**printer driver**

Software that sends instructions to the printer to tell it what to do. For example, your printer driver accepts print data from your word processor application and sends instructions to the printer on how to print this data.

***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.

***proportional font***

A font whose characters have varying amounts of horizontal space depending on the width of the character. Thus the uppercase *M* takes up more horizontal space than the lowercase *l*.

***RAM***

Random Access Memory. The portion of the printer's memory used as a buffer and for storing user-defined characters. All data stored in RAM is lost when the printer is turned off.

***reset***

To refresh the printer's memory and erase 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.

***RI Tech***

Resolution Improvement Technology. A feature that smooths the jagged edges of printed lines or shapes.

***ROM***

Read Only Memory. A portion of memory that can only be read and cannot be used for data storage. ROM retains its contents when you turn off the printer.

***sans serif font***

A font lacking serifs.

***scalable font***

See *outline font*.

***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.

***toner***

The colored powder contained in the developer cartridges that is used to print images on the paper.

***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.





---

# ***Index***

## ***Numerics***

- 500-Sheet Paper Cassette Unit
  - about, 170
  - removing, 175
  - specifications, 323

## ***A***

- Additional Driver
  - using, 148
- Adobe PostScript 3 ROM module
  - about, 190
  - installing, 190
  - removing, 193

## ***C***

- Clients
  - with Macintosh, 166
  - with Windows Me/98/95, 155
  - with Windows NT 4.0, 160
  - with Windows XP/2000, 157
- Confidential Job (Macintosh), 134
- Confidential Job (Windows), 82
- Confidential Job Menu, 219
- Consumables
  - developer cartridges, 242
  - photoconductor unit, 246
  - precautions when replacing, 239
  - replacement messages, 240
  - transfer unit, 253
  - waste toner collector, 250
- Contacting EPSON, 373
- Control panel
  - settings, 199
- Control panel menus
  - overview of available menus, 203
- Control panel settings, when to use, 199
- Customer support, 373

## ***D***

- Developer cartridges
  - handling precautions, 242
  - replacing, 243
- Duplex Unit
  - about, 175
  - installing, 175
  - removing, 181
  - specifications, 323

## ***E***

- Envelopes
  - driver settings, 44
  - loading, 45
  - specifications, 313
  - the use of, 44
- EPSON BarCode Fonts
  - about, 339
  - formatting, 345
  - inputting, 345
  - installing, 341
  - printing, 342
  - specifications, 347
  - system requirements, 341
- EPSON Color Laser Coated Paper,
  - specifications, 315
- EPSON Color Laser Paper,
  - specifications, 315
- EPSON Color Laser Transparencies,
  - specifications, 315
- EPSON special media
  - EPSON Color Laser Coated Paper, 30
  - EPSON Color Laser Paper, 29
  - EPSON Color Laser Transparencies, 29
- EPSON Status Monitor 3
  - about (Macintosh), 135
  - about (Windows), 84

- accessing (Macintosh), 135
- accessing (Windows), 88
- monitoring preferences
  - (Macintosh), 138
- monitoring preferences (Windows), 95
- printer status (Macintosh), 136
- printer status (Windows), 89
- Status Alert Window (Macintosh), 139
- Status Alert window (Windows), 97

## **F**

### **Fonts**

- adding, 362, 370
- available, 358, 366
- downloading, 363, 370
- EPSON BarCode Fonts, 339
- selecting, 363, 370

## **G**

### **Guides**

- Administrator's Guide, 1
- Reference Guide, 1
- Setup Sheet, 1

## **H**

### **Hard Disk Drive**

- about, 181
- installing, 181
- removing, 186

## **I**

### **Installing**

- Adobe PostScript 3 ROM module, 190
- Duplex Unit, 175
- Hard Disk Drive, 181
- Interface cards, 193
- memory modules, 186

Interface cards

- installing, 193
- removing, 196

## **L**

### **Labels**

- driver settings, 46
- specifications, 313
- the use of, 46

### **Loading paper**

- custom size paper, 47
- envelopes, 45
- lower cassette, 40
- MP tray, 38
- transparencies, 44

## **M**

### **Memory modules**

- installing, 186
- removing, 190
- specifications, 187, 324

## **O**

### **Options**

- 500-Sheet Paper Cassette Unit, 170
- Adobe PostScript 3 ROM module, 190
- Duplex Unit, 175
- Hard Disk Drive, 181

### **Output tray**

- face-down tray, 37

## **P**

### **Paper**

- EPSON special media, 29
- printable area, 316
- prohibited, 31
- specifications, 313
- supported media types, 312

### **Paper jams**

- Cover AB, 268, 271
- Cover C, 278

- Cover DM, 280
- precautions when clearing jams, 267
- Paper sources
  - for EPSON Color Laser Coated Paper, 42
  - for EPSON Color Laser Paper, 42
  - for EPSON Color Laser Transparencies, 43
  - MP tray, 33
  - selecting, 34
- Parallel interface
  - specifications, 322
  - using the ECP mode, 322
- Password
  - entering for Confidential Job, 202
  - for Confidential Job (Macintosh), 134
  - for Confidential Job (Windows), 83
- Photoconductor unit
  - handling precautions, 246
  - replacing, 247
  - specifications, 326
- Precautions
  - during operation, 15
  - power on/off, 18
- Printer
  - available optional products, 24
  - cleaning, 259
  - consumable products, 26
  - locating, 265
  - parts, 21
  - resetting, 310
  - settings (Macintosh), 110
  - settings (Windows), 50
  - sharing (Macintosh), 164
  - sharing (Windows), 145
  - specifications, 317
- Printer driver
  - about (Macintosh), 109
  - about (Windows), 49
  - accessing (Macintosh), 109
  - accessing (Windows), 49
  - uninstalling (Macintosh), 142
  - uninstalling (Windows), 101
- Printer settings

- automatic setting (Macintosh), 110
- automatic setting (Windows), 50
- customizing settings (Macintosh), 113
- customizing settings (Windows), 54
- duplex printing (Macintosh), 125
- duplex printing (Windows), 72
- extended settings (Macintosh), 126
- extended settings (Windows), 74
- feeding paper manually, 35
- HDD form overlay (Windows), 70
- overlay, 64
- predefined settings (Macintosh), 111
- predefined settings (Windows), 51
- print layout (Macintosh), 116
- print layout (Windows), 58
- print quality (Macintosh), 110
- print quality (Windows), 50
- resizing printouts (Macintosh), 115
- resizing printouts (Windows), 56
- saving customized settings (Macintosh), 114
- saving customized settings (Windows), 55
- watermark (Macintosh), 119
- watermark (Windows), 61

## Q

- quality (Windows), 50, 110
- Quick Print Job Menu, 201, 218

## R

- Removing
  - 500-Sheet Paper Cassette Unit, 175
  - Adobe PostScript 3 ROM module, 193
  - Duplex Unit, 181
  - Hard Disk Drive, 186
  - interface cards, 196
  - memory modules, 190
- Re-Print Job (Macintosh), 129
- Re-Print Job (Windows), 78
- Reserve Job

- Re-Print Job (Macintosh), 129
- Re-Print Job (Windows), 78
- Reserve Job (Macintosh), 128
  - Confidential Job (Macintosh), 134
  - Stored Job (Macintosh), 132
  - Verify Job (Macintosh), 131
- Reserve Job (Windows), 77
  - Confidential Job (Windows), 82
  - Stored Job (Windows), 81
  - Verify Job (Windows), 80
- Resetting the printer, 310
- RI Tech, 28

## **S**

- Safety
  - precautions, 15
- Stored Job (Macintosh), 132
- Stored Job (Windows), 81
- Symbol sets
  - EPSON GL/ 2 mode, 337
  - ESC/P 2 mode, 334
  - FX mode, 334
  - I239X mode, 336
  - international character sets, 335
  - introduction, 329
  - ISO sets, 333
  - LJ4 mode, 330

## **T**

- Technical support, 373
- Thick paper
  - driver settings, 47
  - specifications, 315
- Toner cartridges
  - specifications, 325
- Transfer unit
  - handling precautions, 253
- Transparencies
  - loading, 44
  - settings, 43
  - the use of, 43
- Transporting the printer
  - for long distances, 262

- for short distances, 263
- Troubleshooting
  - error messages, 296
  - LCD panel messages, 296
  - operational problems, 282
  - paper handling problems, 295
  - printout problems, 284
  - print quality problems, 288

## **U**

- Uninstalling
  - printer software (Macintosh), 142
  - printer software (Windows), 101
  - USB device driver, 105
- USB connection
  - setting (Macintosh), 141
  - settings (Windows), 98
- Using
  - Reserve Job (Macintosh), 128
  - Reserve Job (Windows), 77

## **V**

- Verify Job (Macintosh), 131
- Verify Job (Windows), 80

## **W**

- Waste toner collector
  - handling precautions, 250
  - replacing, 251
  - specifications, 327