Printer Specifications

Printing

Printing method:	Laser beam scanning and dry electrophotographic process
Resolution:	600 x 600, 300 x 300 dpi, switchable
Printing speed:	Up to 4 pages per minute (depending on the font and quantity of data)
Warm-up time:	Approximately 45 seconds
Internal emulations:	HP® LaserJet® 4P
Resident fonts:	1 bitmap font, 35 Intellifonts,® 10 TrueType® fonts

Paper specifications

Types:
- ❏ Plain paper
- ❏ Special paper
- ❏ Labels
- ❏ Envelopes
- ❏ Transparencies
- ❏ Colored paper
- ❏ Card stock

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

Paper weight: Plain paper: 16-24 lb, 60-90 g/m^2
Card stock: 24-36 lb, 90-135 g/m^2 (single-sheet feed only)

Paper size:

Paper:

Type	Size
Letter	8.5 x 11 inches
Legal	8.5 x 14 inches
Executive	7.25 x 10.5 inches
A4	210 x 297 mm

Envelopes:

Type	Size
Monarch	$3\frac{7}{8}$ x $7\frac{1}{2}$ inches
Commercial-10	$4\frac{1}{8}$ x $9\frac{1}{2}$ inches
DL	110 x 220 mm
C5	162 x 229 mm
International B5	l76 x 250 mm

Printable area:	4 mm from paper edge
Paper feed alignment and direction:	Center alignment for all sizes
Paper feed:	Automatic or manual feed
Input paper supply (20 lb paper):	100 sheets 5-10 envelopes, depending on thickness
Paper eject:	Face down
Output tray capacity (20 lb paper):	50 sheets

Toner cartridge

Model number:	S051023
Storage temperature:	32° to 95° F (0° to 35° C)
Shelf life:	24 months after production
Storage humidity:	15 to 85% RH
Life:	Typical toner cartridge life is up to 4000 pages under the following conditions: Letter-size paper, continuous printing, and 5% print ratio

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

Mechanical

Dimensions and weight:	Height	10.5 inches (265 mm)
	Width	13 inches (330 mm)
	Depth	10.5 inches (269 mm)
	Weight	Approx. 17 lb (7.6 kg) including the toner cartridge
Durability:		5 years or 100,000 sheets, whichever comes first

Electrical

Rated voltage:	90 to 132 VAC
Rated frequency:	50 to 60 Hz ± 3 Hz
Power consumption:	Approximately 400 W (powers down to less than 30 W in power save mode)
Rated current:	Approximately 3.2 amps

Controller hardware

CPU:	Intel® 80960SA, 16 MHz
RAM:	2MB expandable to 18MB

Environmental

Temperature:	Operation:	41° to 95° F (5° to 35° C)
	Storage:	-4° to 104° F (-20° to 40° C)
Humidity:	Operation:	15 to 85% RH
	Storage:	5 to 95% RH
Altitude:	8200 feet (2500 meters) maximum	

Options

Single In-Line Memory Modules (SIMMs)

You can install one or two SIMMs with a capacity of 1,2,4, or 8MB. This allows you to increase memory capacity up to 18MB.

PostScrip® Level 2 Compatible Option

The PostScript Level 2 Compatible option allows you to use your printer to print documents formatted for PostScript.

Adding Memory

By installing one or two 1MB, 2MB, 4MB, or 8MB Single In-Line Memory Modules (SIMMs), you can increase printer memory up to 18MB. You may want to add additional memory if you are having difficulty printing complex, graphics-intensive pages or if you regularly use many downloaded fonts.

You can purchase SIMMs from various vendors. Be sure the SIMMs you purchase meet the following requirements:

❏ 72-pin type

❏ Capacity of 1,2,4, or 8MB

❏ Access speed of 100ns or less

Installing the SIMM

W *Warning:*
High voltages are present inside the printer when the power is on. Do not attempt to install a SIMM until you turn off and unplug the printer.

1. Turn off the printer and unplug the power cable from the electrical outlet.

2. Turn the printer so the back of the printer is facing you.

3. Use a crosshead screwdriver to remove the five screws that secure the metal access cover. Lift off the access cover.

W *Warning:*
Avoid touching the electrical components that alp exposed after you remove the metal access cover. They may he very hot if the printer has been used recently.

4. Hold the first SIMM so the notched end is at the bottom and insert it into the J1 socket.

5. Rotate the SIMM to the left so it fits securely into the small latches at the top and bottom.

6. If you have a second SIMM, install it into the J2 socket in the same way.

7. Reattach the access cover.

8. Reattach the power cord.

9. Turn on the printer.

Now you need to update the printer driver's Memory setting. If you're using Windows, follow the instructions below. If you're using DOS, see "Accessing printer settings in DOS" for information on changing settings in DOS.

1. In the Program Manager, double-click the Control Panel icon. Then double-click the Printer's icon.

2. Choose the ActionLaser 1400 printer driver in the list of Installed Drivers.

3. Choose the Setup button.

4. Once the Setup dialog box is open, choose the Printer tab.

5. Change the Memory setting for the amount of memory now installed in the printer. (Be sure to include the 2MB already installed.)

6. Choose OK. When you return to the Printers dialog box, choose Close.

Checking the memory

To verify that memory is correctly installed, print a test sheet by pressing the reset button at the back of the printer.

If an incorrect amount of memory is shown on the test sheet, turn off the printer and remove the metal access cover. Make sure you correctly installed the SIMMs. If the amount of RAM is still incorrect, contact your dealer or a qualified service person for assistance.

Selecting the Printer Driver

When you install the software that comes with the printer, you also install the ActionLaser 1400 printer driver. A printer driver works with your software to control the operation of the printer by translating a document's margins, fonts, and other settings into control codes that the printer understands.

To get the full functionality from your printer, use your software to select the ActionLaser 1400 driver. Although you can use other drivers, such as the HP LaserJet 4P driver, you should normally use the ActionLaser 1400 since it is specifically designed to work with this printer.

Changing the Printer Settings

Printer settings are controlled through software. If you're using Windows,[TM] you access settings through your software program. If you're using DOS, you access printer settings through the EPSON Control Panel for DOS.

Accessing printer driver settings in Windows

To access printer settings from a Windows-based software program, choose Print or Print Setup from the File menu of your software program and then, depending on your program, choose the Setup, Options, or Printer button of the dialog box that opens. Some programs then prompt you to select the ActionLaser 1400 before the Setup dialog boxes appear.

Printer driver settings are accessible on six Setup dialog boxes. The first Setup dialog box you see is for Paper settings:
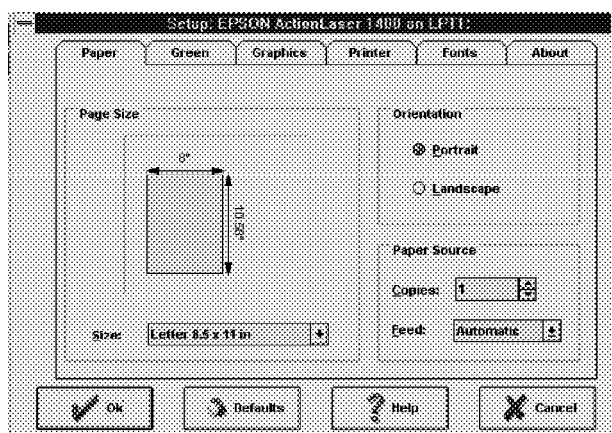
At the top of the dialog box are tabs for each Setup dialog box: Paper, Green, Graphics, Printer, Fonts, and About. The following table shows the settings available on the dialog boxes.

Menu	Items
Paper	Paper Size Orientation Number of Copies Paper Feed Source Auto Continue
Green	Toner Saving Edge Smoothing Toner Density Power Saving Power Saving Interval
Graphics	Graphics Mode Graphics Quality Gray Scale TrueType Mode Use Printer TrueType Fonts
Printer	Printer Memory Page Protection Resolution
Fonts	Opens the Font Manager so you can download PCL fonts
About	Displays software version information

Accessing printer driver settings in DOS

If you are not running Windows, you can control printer settings through the EPSON Control Panel for DOS. To bring up the EPSON Control Panel for DOS:

1. At a C: prompt, change to the PANEL directory by typing CD \ PANEL. Then press Enter.

2. Type PANEL and press Enter.

This brings up the following screen:
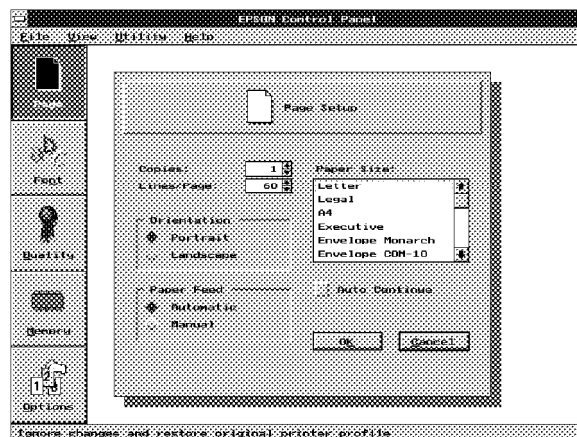
The EPSON Control Panel for DOS consists of five screens: Page Setup, Font, Quality, Memory, and Options. One screen is displayed at a time, and other screens are represented by buttons to the left of the current screen.

The five screens are listed below, along with the items available on each

Menu	Items
Page Setup	Copies Lines per Page Orientation Paper Feed Paper Size Auto Continue
Font	Typeface Point/Pitch Symbol Set
Quality	Toner Saving Edge Smoothing Resolution Toner Density
Memory	Page Protection
Options	Power Save Mode Power Save Interval

Status and Error Messages

Status, error, and caution messages appear on screen to notify you of the printer status and alert you to problems. Error messages tell you how to correct any problems that occur.

Front Panel Lights

The two lights on the front panel allow you to monitor the status of the printer. The green Ready light is on when the printer is on and is ready to receive print data. As data is received from the computer, the Ready light flashes.

The orange Error light indicates an error condition. If the Error light is on continuously, it indicates that no paper is loaded or that there is a paper feed jam. A flashing Error light indicates one of the following: an internal paper jam has occurred, the front cover is open, or the toner cartridge is not installed.

Other status conditions are indicated by the combination of the Ready and Error lights. The following table describes all status conditions that can be indicated by the printer's Ready and Error lights:

Ready	Error	Printer status
Off	Off	Printer is off.
Slow flashing	Off	Printer is in power save mode.
Flashing	Off	Print data is being received at the printer or has already been received.
On	Off	Printer is ready to receive print data.
Off	On	Either the paper tray is empty or there is a paper feed problem.
Off	Flashing	One of the following errors has occurred: • Paper has jammed inside the printer. • The front cover is open. • The toner cartridge is not installed.
Flashing	On	One of the following errors has occurred: • Insufficient memory to print job. • Printer is in manual feed mode and is waiting for the next sheet. • There is a printer overrun error.
Flashing	Flashing	The printer is warming up.
On	On	A printer engine or controller error has occurred. Contact your dealer or a qualified service person.

Loading Paper

To load a stack of paper in the printer's paper tray:

1. Remove any paper remaining in the paper tray. Do not add paper to a partial stack.

2. Pull the paper release lever toward the front of the printer.
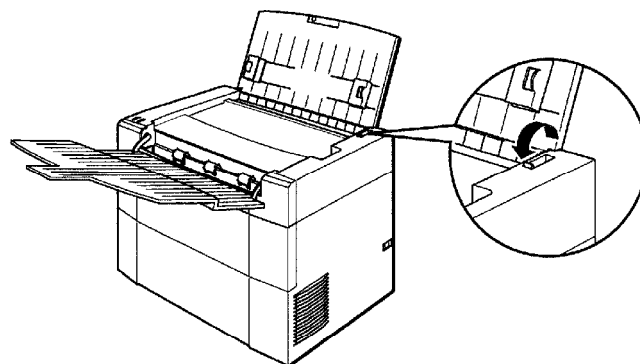
3. Fan a stack of paper and load the paper in the paper tray. Place the paper side you want printed face down in the paper tray. Up to 100 sheets can fit in the paper tray.

4. Slide the paper guides against the paper stack so the paper fits loosely between them. The paper guides should not fit too tightly against the paper.

5. Push the paper release lever toward the back of the printer.

   This places the feed roll in contact with the paper stack. Paper will not feed properly if the paper release lever is not in the feed position.

Replacing the Toner Cartridge

The toner cartridge prints up to 4000 pages, depending on the complexity of your print jobs. You can make toner cartridges last longer by using toner saving mode. See Chapter 2 in the printer manual for more information.

If your printed images become too faint or you notice long, white streaks, replace the toner cartridge as follows:

1. Turn off the printer if it is on and disconnect the power cord.

2. Remove paper from the paper tray and remove all printed pages from the exit tray.

3. Close the paper and exit trays.

4. Open the front cover.
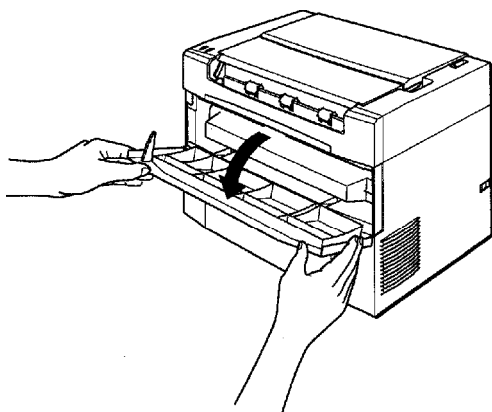
5. Rest one hand on top of the printer. With the other hand, grasp the toner cartridge by the molded center grip and pull upward until the cartridge unlocks and releases.
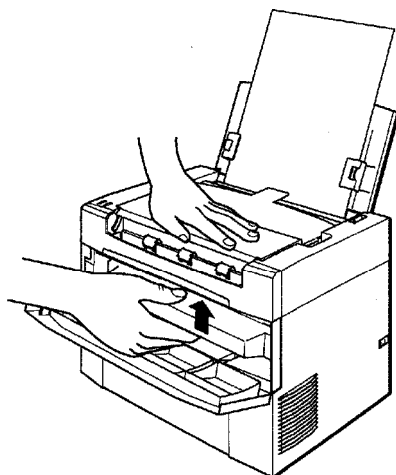

6. Tilt the front of the cartridge downward slightly until it is level and then slide it out of the printer. The cartridge will not slide smoothly unless it is level.

7. Discard the cartridge with nonburnable items.

8. Remove the new toner cartridge from the shipping bag.

9. Remove the shipping spacer from the cartridge by pulling up the horizontal tab. Then remove the protective cap at the end of the cartridge.

l0. Gently shake the toner cartridge back and forth a few times to distribute the toner evenly.

11. While holding the cartridge steady with one hand, firmly grip the tab on the left side of the cartridge. Pull the clear seal all the way out with firm, even pressure as shown. Do not pull up on the seal.
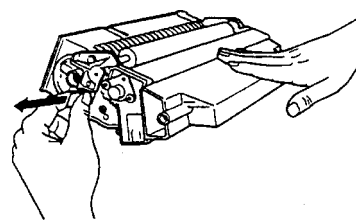
12. With one hand, hold the toner cartridge in the middle. Place the other hand on the rear of the printer to hold it steady while you insert the cartridge.
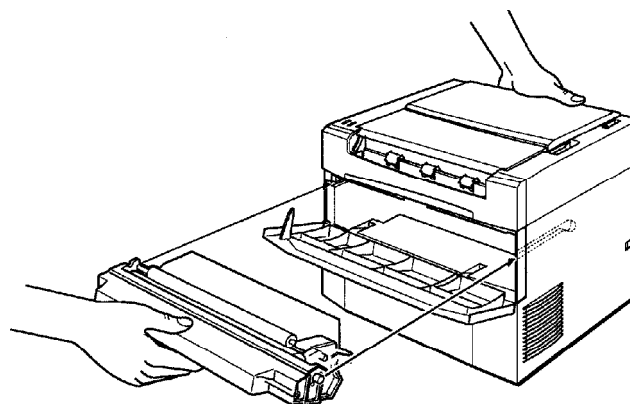
13. Insert the cartridge into the opening at the front of the printer. Position the locking knobs on both sides of the cartridge into the guides inside the printer.
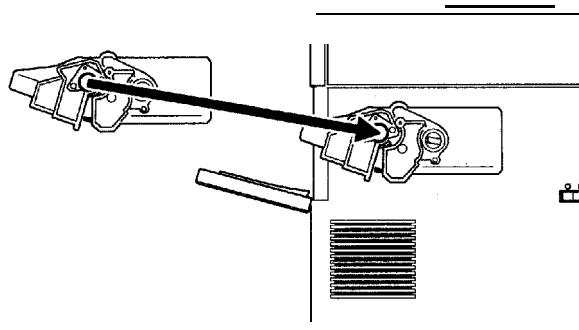
14. Slide the cartridge into the printer until it stops. Then push the cartridge firmly until it locks in place.

15. Close the front cover and press the top corners to lock it into position.

Feed Jam

If the printer stops printing and the Error light is on while the Ready light is off, follow these steps.

1. Unlock the paper release lever by pulling it toward the front of the printer.

2. Remove paper from the paper tray.

3. Remove any sheets that have misfed from the paper tray into the paper feeder area.

4. Tap the edges of the paper stack on a flat surface and carefully reload paper into the paper tray.

5. Push the paper release lever toward the back of the printer.

Paper Jam

If the printer stops printing and the Error light is flashing while the Ready light is off, follow these steps:

1. Unlock the paper release lever by pulling it toward the front of the printer.

2. Remove paper from the paper tray and remove all printed pages from the exit tray.

3. Close the exit tray.
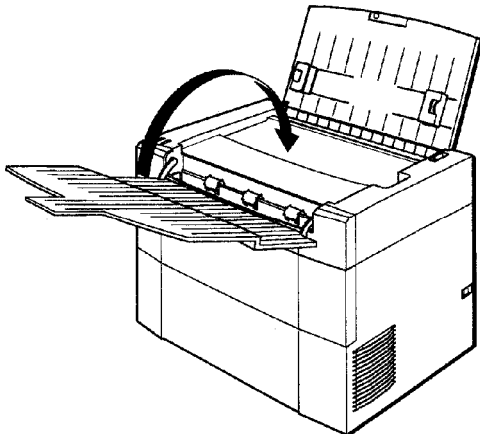
4. Open the front cover.

W *Warning:*
When you open the printer or remove the printer cartridge, you expose components inside the printer that can he very hot. Avoid touching the fuser area, which is located immediately above the toner cartridge when you open the front cover; and the motor; which is further inside the printer.

5. Rest one hand on top of the printer. With your other hand, grasp the toner cartridge by its molded center grip.

6. Pull upward on the cartridge until it unlocks and releases.
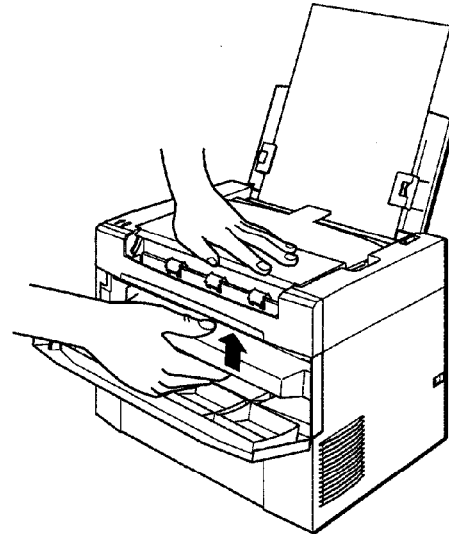
7. Tilt the front of the toner cartridge downward slightly until it is level; then slide it out of the printer. The cartridge will not slide out smoothly unless it is level.

Jammed paper may have caught in the toner cartridge, making it difficult to remove the cartridge. Pull firmly to remove the paper along with the cartridge.

8. If the paper comes out along with the toner cartridge, remove the paper from the cartridge by pulling it toward the front of the cartridge.
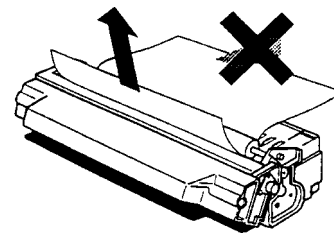
C *Caution:*
Never pull jammed paper out from the rear of the toner cartridge.

9. If the jammed paper does not come out with the toner cartridge, look inside the printer. If the paper is still inside, draw it out from the front of the printer.

l0. After removing the jammed paper, reinstall the toner cartridge and close the front cover.

11. Open the exit tray.

12. Tap the edges of the paper stack on a flat surface and carefully reload paper into the paper tray.

13. Push the paper release lever toward the back of the printer.

Information Reference List

Engineering Change Notices

None.

Product Support Bulletins

None.

Technical Information Bulletins

None.

Related Documentation

TM-ACTL1400T ActionLaser 1400 Service Manual

PL-ACTL1400   ActionLaser 1400 Parts Price List

600E97870   ActionLaser 1400 Reference Guide

600E97880   ActionLaser 1400 Read This First Guide

600E97890   Your First Laser Printer