

Printer Specifications

Printing

Printing method: On-demand ink jet

Nozzle

configuration: 64 monochrome (black) nozzles
63 color nozzles (21× 3; cyan, magenta, yellow)

Character pitch (characters per inch)	Printable columns	Printing speed (characters per second)
10	80	200
12	96	240
15	120	300
17 (10 condensed)	137	343
20 (12 condensed)	160	400

Resolution: Maximum 720 × 720 dpi
 Input buffer: 10KB
 Print direction: Bidirectional with logic seeking for text and graphics
 Control code: ESC/P Raster
 Character tables: PC437 (US, Standard Europe) or PC850 (Multilingual) selectable with control panel

Paper



Note:

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

Paper size: Letter (8.5 × 11 inches)
 A4 (210 × 297 mm)
 A5 (148 × 210 mm)
 B5 (176 × 250 mm)
 Legal (8.5 × 14 inches)
 Half letter (8.5 × 5.5 inches)
 Executive (7.5 × 10 inches)

Paper types: Plain paper and special ink jet papers distributed by EPSON

Paper thickness: 0.003 to 0.004 inch (0.08 to 0.11 mm)

Paper weight: 17 to 24 lb (64 to 90 g/m²); use 24 lb (90 g/m²) paper under normal temperature and humidity conditions

Envelopes:

Size No. 10 9.5 × 4.1 inches (240 × 104 mm)
 DL 8.7 × 4.3 inches (220 × 110 mm)
 C6 4.4 × 6.4 inches (114 × 162 mm)

Paper types Plain, bond, or airmail paper

Paper thickness 0.006 to 0.017 inch (0.16 mm to 0.43 mm)

Paper weight 12 to 2.0 lb (45 to 75 g/m²)

Transparencies and Glossy media:

Size Letter 8.5 × 11 inches
 A4 210 × 297 mm
 A6 105 mm × 148 mm

Paper types Transparencies, glossy paper, and glossy film distributed by EPSON

Thickness 0.0051 to 0.0059 inch (0.13 to 0.15 mm) for glossy film and transparencies
 0.0067 to 0.0071 inch (0.17 to 0.18 mm) for glossy paper

Index cards:

Size A6 (105 × 148 mm)
 5 × 8 inches (127 × 203 mm)
 8 × 10 inches (254 × 203 mm)

Paper types Ink jet index cards distributed by EPSON

Thickness 0.0091 inch (0.23 mm)

Weight 50.7 lb (188 g/m²)

Self adhesive sheets:

Size	A4 (210 × 297 mm)
Paper types	Self adhesive sheets distributed by EPSON



Note:
Poor quality paper may reduce print quality and cause paper jams and other problems. If you encounter problems, switch to a higher grade of paper.

Do not load curled or folded paper, envelopes, or transparencies.

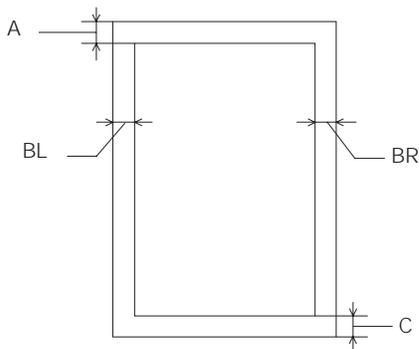
Print on ink jet papers and envelopes only under these conditions:

Temperature: 59 to 77 °F (15 to 25 °C)
Humidity: 40 to 60% RH

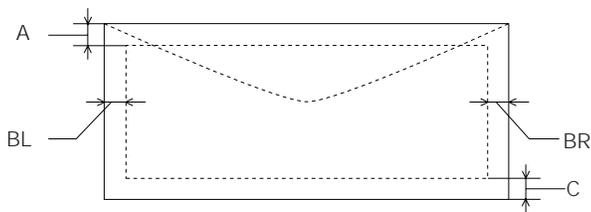
Store glossy media and self adhesive sheets under these conditions:

Temperature: 59 to 86 °F (15 to 30 °C)
Humidity: 20 to 60% RH

Printable area: Single sheets



Envelopes



- A The minimum top margin is 0.12 inch (3.0 mm).
Note: When printing multiple sheets of glossy media, the minimum top margin is 1.2 inches (30 mm).
- BL The minimum left margin is 0.12 inch (3.0 mm).
- BR The minimum right margin is:
0.12 inch (3.0 mm) for Half letter, Executive, A6, and C6 envelopes
0.38 inch (9.7 mm) for Letter and Legal
0.15 inch (3.8 mm) for A4
0.54 inch (13.8 mm) for DL envelopes
1.38 inches (35.1 mm) for #10 envelopes
- C The minimum bottom margin is 0.55 inch (14.0 mm).



Note:
Always load paper into the sheet feeder short edge first except envelopes. Load envelopes long edge first.

Ink Cartridges

Black ink cartridge (S020093):

Color	Black
Print capacity*	540 pages (A4 paper; text at Normal - 360 dpi; 5%)
Cartridge life	2 years from production date and up to 6 months after opening the package at 77 °F (25 °C).
Temperature	Storage: -4 to 104 °F (-20 to 40 °C); 1 month at 104 °F (40 °C) Transit: -22 to 140 °F (-30 to 60 °C); 1 month at 104 °F (40 °C); 120 hours at 140 °F (60 °C) Freezing:**-3.2 °F (-16 °C)
Dimensions	0.8 inch (W) × 2.1 inches (D) × 1.5 inches (H) 19.8 mm (W) × 52.7 mm (D) × 38.5 mm (H)

Color ink cartridge (S020089):

Colors	Cyan, magenta, and yellow
Print capacity*	300 pages (A4 paper; Normal - 360 dpi; 5% each color)
Cartridge life	2 years from production date and up to 6 months after opening the package at 77 °F (25 °C)
Temperature	Storage: -4 to 104 °F (-20 to 40 °C); 1 month at 104 °F (40 °C) Transit: -22 to 140 °F (-30 to 60 °C); 1 month at 104 °F (40 °C); 120 hours at 140 °F (60 °C) Freezing:**-0.4 °F (-18 °C)
Dimensions	1.7 inches (W) × 2.1 inches (D) × 1.5 inches (H) 42.9 mm (W) × 52.7 mm (D) × 38.5 mm (H)

* The print capacity may vary depending on how often you use the print head cleaning function. Also, if you print large graphics and dense text with little white space, you use ink faster.

** The ink thaws and is usable after approximately 3 hours at 77°F (25°C).



Caution:
To ensure good results, use genuine EPSON cartridges and do not refill them. Other products may cause damage to your printer not covered by EPSON's warranty.

Do not use an ink cartridge after the expiration date on the package.

Mechanical

Paper feed method: Friction with auto sheet feeder, top entry

Sheet feeder capacity: Maximum 100 sheets of 17 lb (64 g/m²) paper

Dimensions:

Storage Width: 16.8 inches (429 mm)
 Depth: 10.8 inches (275 mm)
 Height: 6.6 inches (168 mm)

Printing Width: 16.8 inches (429 mm)
 Depth: 24.1 inches (613 mm)
 27.4 inches (695 mm)*
 Height: 12.2 inches (309 mm)
 7.7 inches (196 mm)*

* when loading transparencies

Weight: 11.4 lb (5.2 kg) without the ink cartridges

Electrical

Specification	120 V model	240 V model
Input voltage range	103.5 to 132 V	198 to 264 V
Rated frequency range	50 to 60 Hz	
Input frequency range	49.5 to 60.5 Hz	
Rated current	0.5A maximum	0.3A maximum
Power consumption	Approx. 18 W (ISO 10561 Letter Pattern)	

Environmental

Temperature: Operation 50 to 95 °F (10 to 35 °C)
 Storage* -4 to 140 °F (-20 to 60 °C)
 1 month at 104 °F (40 °C)
 120 hours at 140 °F (60 °C)

Humidity: Operation 20 to 80% RH
 Storage* 5 to 85% RH
 (without condensation)

* Stored in shipping container

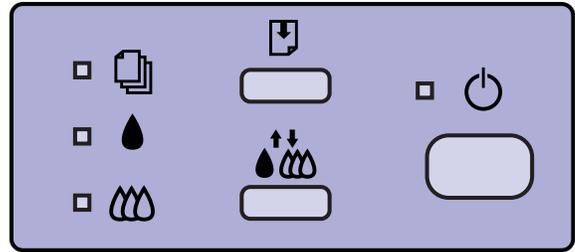
Safety Approvals

Safety standards: UL 1950 with D3, CSA 22.2 950 with D3

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

Control Panel

The printer's control panel lights display the printer status and the buttons control certain functions.



Most of the time, you control the printer using your software, but you'll use the control panel if you:

- Replace an ink cartridge
- Clear a paper jam
- Run a printer check
- Change the character table.

Lights

- The power light is on when the printer is on. It flashes while receiving data, replacing the ink cartridge, or cleaning the print heads, and in certain error conditions.
- On when there is no paper loaded or it's loaded incorrectly. Flashes if there is a paper jam or in certain error conditions.
- The black ink out light flashes when black ink is low or during certain error conditions. It is on when the ink cartridge is empty or not installed, or when there is a paper jam.
- The color ink out light flashes when color ink is low or during certain error conditions. It is on when the ink cartridge is empty or not installed, or when there is a paper jam.

Error Conditions

Control panel light status

Problem	 power	 paper out	 black ink out	 color ink out
Black ink low	On	Off	Flashing	Off
Black ink out	On	Off	On	Off
Color ink low	On	Off	Off	Flashing
Color ink out	On	Off	Off	On
Paper out or incorrectly loaded	On	On	Off	Off
Paper jammed	On	Flashing	Off	Off
Carriage error	Flashing	On	On	On
Fatal error	Flashing	Flashing	Flashing	Flashing

Buttons

 The power button turns the printer on and off. It also resets the printer (clears its memory) if you press it twice while the power is on.

 The load/eject button loads or ejects a sheet of paper if you press and release it within two seconds. (The printer normally loads and ejects paper automatically.) When the printer is off and you hold down the load/eject button while turning the printer on, it runs a printer check.

 You use the cleaning button for replacing ink cartridges and cleaning the print heads, based on the status of the ink out lights. When the printer is off and you hold down the cleaning button while turning the printer on, it changes the character table.

Running a Printer Check

1. Turn off the printer and your computer.
2. Disconnect the interface cable from the printer.
3. Make sure paper is loaded in the printer.
4. Hold down the  load/eject button and turn on the printer. Then release both buttons. The printer prints out one page containing the printer's ROM version number, character table number, and a nozzle check pattern.



Caution:
Load paper that's at least 7.17 inches (182 mm) wide so ink doesn't spray onto the platen.

5. After it prints the page, turn off the printer. Reconnect the interface cable, then turn on the printer and your computer.

Changing the Character Table

The printer uses a character table for printing United States and standard European characters (PC437). If you want to use a multilingual character table (PC850), you can change to it using the printer's control panel.

1. Turn off the printer.
2. Hold down the  cleaning button and turn on the printer. Then release both buttons.

The character table is changed to PC850. To change it back to PC437, repeat the steps above. To check the current character table number, run a printer check as described in the previous section.

Printer Driver Setting Summary

The following tables summarize the settings available in each menu tab (with default values in bold type). See your printer driver's online help for more details.

Main menu settings

Setting	Options	Description
Mode	Automatic Advanced	Selects Automatic to choose settings based on the Media Type and data in the print file, or selects Advanced to choose settings for a particular document type or to customize settings.
Advanced mode document types *	Custom Settings Photo Text/Graph Video/Digital Camera Economy	In Advanced mode, selects settings for a particular document type.
Quality/Speed slide bar **	Quality Speed	When Plain paper is selected, chooses settings for speed or quality.
Media Type	Plain paper 360 dpi Ink Jet Paper Photo Quality Ink Jet Paper Photo Quality Glossy Paper Photo Quality Glossy Film Ink Jet Transparencies	See the table of EPSON media names and the Media Type settings they require on page 6.
Ink	Color Black	If your print job contains any color data, choose Color. If it contains only black data, select Black.

* Available only when using Advanced mode.

** Available only when using Automatic mode and Plain paper.

Advanced dialog box settings

Setting	Options	Description
Print Quality*	Fine - 720 dpi Normal - 360 dpi Economy	Selects either 720 dpi, 360 dpi, or Economy printing mode.
Media Type	Plain paper 360 dpi Ink Jet Paper Photo Quality Ink Jet Paper Photo Quality Glossy Paper Photo Quality Glossy Film Ink Jet Transparencies	See the table of EPSON media names and the Media Type settings they require on page 6.
Ink	Color Black	If your print job contains any color data, choose Color. If it contains only black data, select Black.
Halftoning**	No halftoning Error diffusion Coarse Dithering Fine Dithering	Sets the method used to place dots of ink on the paper. See the printer driver online help for details.
MicroWeave	On Off	Controls printing of dots in fine increments.
High Speed	On Off	Controls bidirectional printing mode.
Flip Horizontal	On Off	Lets you create a mirror-image effect (useful for creating transfer images).
Finest Detail	On Off	Controls printing of dots in the finest increments.

Setting	Options	Description
Color Enhancement settings	On or Off Mode Automatic Photo-realistic Vivid Brightness -25% - 0% - +25% Contrast -25% - 0% - +25% Saturation -25% - 0% - +25% Cyan -25% - 0% - +25% Magenta -25% - 0% - +25% Yellow -25% - 0% - +25%	Control the color correction technique and various image and color adjustments when you're not using Video/Digital Camera mode (described below).
Video/Digital Camera mode	On Off	Turns on a color correction mode specifically for images captured with video or a digital camera.
ICM (Windows 95 only)	On Off	Turns on an Image Color Matching color correction mode to match your screen and printed colors

* The Print Quality is selected automatically depending on the current Media Type. If you choose a Print Quality setting that is not appropriate for your media, the driver changes the Media Type setting. Always check that your Media Type is still correct after changing the Print Quality.

** In Automatic mode, the Halftoning setting is selected based on the data encountered in your print job. In Advanced mode, Halftoning is preselected for each document type setting. No Halftoning is available only when you select Black as the Ink setting.

Paper menu settings

Setting	Options	Description
Paper Size	A4 210 × 297 mm Letter 8 1/2 × 11 in Legal 8 1/2 × 14 in B5 182 × 257 mm A5 148.5 × 210 mm A6 index card 105 × 148 mm Executive 7 1/2 × 10 in Half Letter 5 1/2 × 8 1/2 in Index card 5 × 8 in Index card 8 × 10 in Envelope #10 4 1/8 × 9 1/2 in Envelope DL 110 × 220 mm Envelope C6 114 × 162 mm User Defined *	Indicates the size of the paper or other media you have loaded in the printer.
Duplication Method	Copies 1 to 99 Collate On or Off Reverse Order On or Off	Let you print multiple copies and collated copies, and reverse the order in which the pages are printed.
Orientation	Portrait Landscape	Sets the direction of printing on the page.
Printable Area**	Maximum Centered	Selects the print margin to the maximum printable area or centered on the page.

* Using this option, you can add a customized paper size in this size range:
Width: 3.9 to 9.5 inches (100 × 241 mm)
Length: 3.9 to 43.9 inches (100 × 1117 mm)

** This option is not available when you're using a User Defined Paper Size.

Utility menu options

Utility	Description
Status Monitor *	See "Using Spool Manager Programs" for details.
Nozzle Check	See pages 11 and 12 for details.
Head Cleaning	
Print Head Alignment	See page 12 for details.

* Available only when you're using Windows 95.

Selecting the Correct Media Type Setting

Use this table to help you match the media type you loaded in the printer with the Media Type setting in the printer driver.

For this media name . . .	Select this Media Type setting
Plain paper	Plain paper
Envelopes	Plain paper
EPSON 360 dpi Ink Jet Paper or EPSON Special Coated Paper for 360 dpi Printing	360 dpi Ink Jet Paper
EPSON High Quality Ink Jet Paper	Photo Quality Ink Jet Paper
EPSON Photo Quality Ink Jet Paper or EPSON Special Coated Paper for 720 dpi Printing	Photo Quality Ink Jet Paper
EPSON Photo Quality Glossy Paper	Photo Quality Glossy Paper
EPSON Photo Quality Glossy Film or EPSON High Quality Glossy Paper	Photo Quality Glossy Film
EPSON Ink Jet Transparencies	Ink Jet Transparencies
EPSON Photo Quality Ink Jet Cards	Photo Quality Ink Jet Paper
EPSON Photo Quality Self Adhesive Sheets	Photo Quality Ink Jet Paper
EPSON Iron-on Transfer Paper	Photo Quality Glossy Film

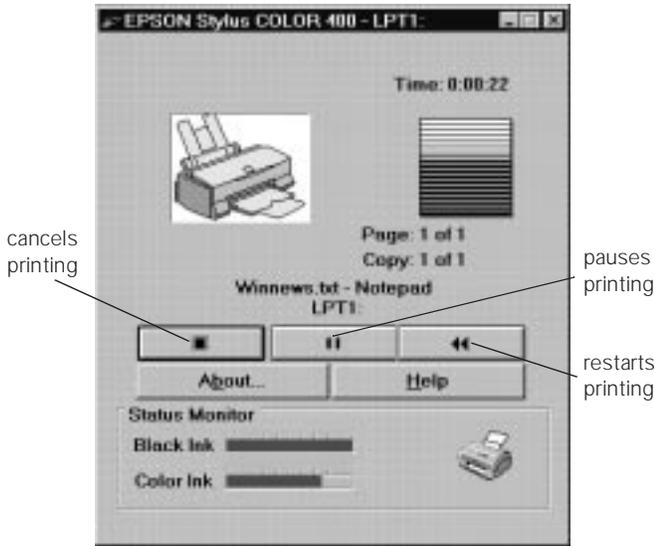
Using the Spool Manager Programs

The printer uses the EPSON Spool Manager to send data to the printer so you can continue working in your software program while printing. Spool Manager also includes the Despooler and Status Monitor (Windows 95 only) programs to let you monitor and control the print job without exiting your application program.

The Despooler dialog box, similar to the one shown below, appears when you send a print job to the printer so you can monitor the progress of the print job. Use the buttons to cancel, pause, or restart the job.



Note:
If you don't want the Despooler dialog box to appear each time you print you can turn it off. To do this, start Spool Manager, open the View menu, and select Show Despool Popup; the checkmark next to the option disappears.



If you're using Windows 95, the Status Monitor box appears inside the Despooler dialog box (as shown above) each time you send a print job. It includes a gauge representing the amount of ink left in the cartridges and an icon that reports the current status of your printer. The icon also alerts you to any printer error conditions.



Note:
The Status Monitor appears only if your printer is connected to the host computer; it does not appear when you are printing over a network with the printer connected to another computer.

The Status Monitor displays these icons:

	Checking the printer status.
	A printing error has occurred and your printer cannot print.
	The printer is ready to print.
	The printer is currently printing.
	The ink level is low or empty; check the Ink Out light on the control panel and replace the cartridge.

If you need to run Spool Manager while you're printing, select the icon (Windows 3.1) or button (Windows 95) near the bottom of your screen. You can also run Spool Manager from the EPSON program group or folder when you're not sending a print job. (See the printer driver online help utility.)



Note:
In Windows 3.1, you may not see the Spool Manager icon in the bottom portion of your screen if the Program Manager window or an application window is maximized. Reduce the window size to reveal the icon.

Choosing Paper and Other Media

You can use most plain paper with your printer and achieve good results. For better results, use EPSON specially coated ink jet paper because it provides the best surface for the ink used in your printer. EPSON offers specially designed media for EPSON ink jet printers, available in a choice of sizes.

Media name	Size	Part number
EPSON 360 dpi Ink Jet Paper	A4 Letter	S01025, S041059 S041060
EPSON High Quality Ink Jet Paper	Letter	S041111
EPSON Photo Quality Ink Jet Paper	A4 Letter Legal	S041061, S041026 S041062 S041067
EPSON Photo Quality Glossy Paper	A4 Letter	S041126 S041124
EPSON Photo Quality Glossy Film	A4 Letter A6	S041071 S041072 S041107
EPSON Ink Jet Transparencies	A4 Letter	S041063 S041064
EPSON Photo Quality Ink Jet Cards	A6 5 × 8 10 × 8	S041054 S041121 S041122
EPSON Iron-On Transfer Paper	Letter	SE41001
EPSON Photo Quality Self Adhesive Sheets	A4	S041106

Choose your media based on the print quality you'll require for your type of document:

- Use plain paper for draft copies, text printing, and other documents for good results.
- Select EPSON 360 dpi Ink Jet Paper to get better results for everyday graphics and text printing at the Normal - 360 dpi print quality setting.
- EPSON High Quality Ink Jet Paper is ideal for sharp, everyday graphics printing at the Fine - 720 dpi print quality setting.
- Use EPSON Photo Quality Ink Jet Paper or Ink Jet Cards for great results printing graphics and photos at the Fine - 720 dpi print quality setting.
- Choose EPSON Photo Quality Glossy Paper or Film for the finest camera-ready quality, especially when printing graphics or photos at the Fine - 720 dpi print quality setting.

- ❑ Select EPSON Ink Jet Transparencies for great printouts of overhead transparencies at the Normal - 360 dpi print quality setting.
- ❑ Choose EPSON Iron-on Transfer Paper to print Fine - 720 dpi images for transfer onto t-shirts, tablecloths, and more.
- ❑ Use EPSON Photo Quality Self Adhesive Sheets to create great quality labels at the Fine - 720 dpi print quality setting.

Replacing an Ink Cartridge

If a  black or  color ink out light flashes, the indicated cartridge is low on ink. If the light stays on, the cartridge is empty and you need to replace it.



Caution:

To ensure good results, use genuine EPSON cartridges and do not refill them. Other products may cause damage to your printer not covered by EPSON's warranty.

Use these EPSON ink cartridges within six months of installing them and before the expiration date on the package:

Black ink cartridge S020093

Color ink cartridge S020089.

1. Make sure the printer is on and not printing, and that either the  black or  color ink out light is flashing or on.
2. Lower the output tray and then raise the printer cover.



Caution:

For best results, don't replace an ink cartridge unless its ink out light is flashing or on.

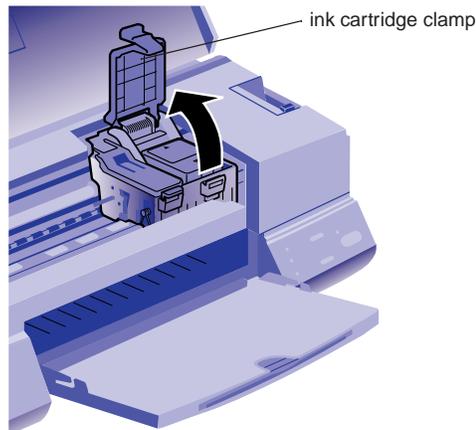
If ink runs out, you can't continue printing, even if ink remains in the other cartridge.

If you press the  cleaning button when no ink out light is flashing or on, the printer cleans the print heads, as described on page 11.

3. Press the  cleaning button and hold it for three seconds. If you have to replace an ink cartridge before its ink out light flashes or comes on (if the cartridge is too old, for instance), press the  load/eject button and hold it for three seconds instead of the  cleaning button.

The print heads move slightly left to the ink cartridge install position and the  power light begins flashing. (The print heads return to their home position if you don't proceed to step 4 within 60 seconds.)

4. Pull up the ink cartridge clamp only for the cartridge you want to replace. The cartridge rises up from its holder.



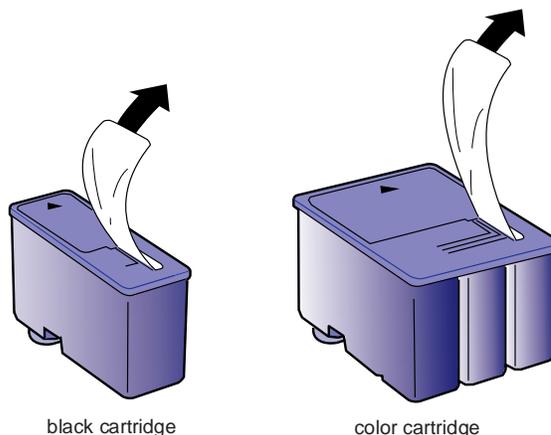
5. Lift the cartridge out of the printer and dispose of it carefully.



Warning:

If ink gets on your hands, wash them thoroughly with soap and water. If ink gets into your eyes, flush them immediately with water.

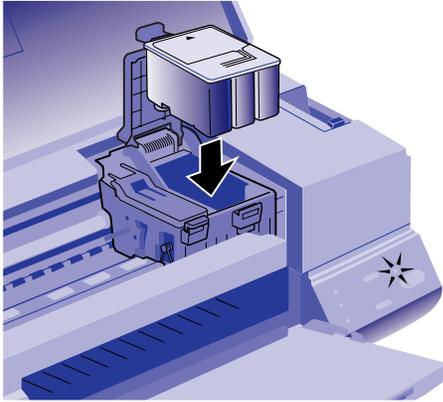
6. Remove the new ink cartridge from its packaging. Then remove only the disposable yellow portion of the tape seal as shown here.



Caution:

You must remove the tape seal from the top of the cartridge; leaving the tape on will permanently damage it. Do not remove the clear seal from the bottom of the cartridge; ink will leak out.

- Lower the ink cartridge into its holder with the label facing up and the arrow pointing to the back of the printer. The color cartridge goes on the right and the black cartridge goes on the left.



- Press down the ink cartridge clamp until it locks in place.



Caution:
Don't open the clamp or remove a cartridge except to replace it with a new one. Once you remove a cartridge, you can't reuse it, even if it contains ink.

- Press the  cleaning (or  load/eject) button to begin charging. (Even if you don't press a button, ink charging begins 60 seconds after you close the clamp.)
- The  power light continues to flash while the ink charges. When charging is finished, the  power light stops flashing and the print heads move to the far right position. Close the printer cover and resume printing.

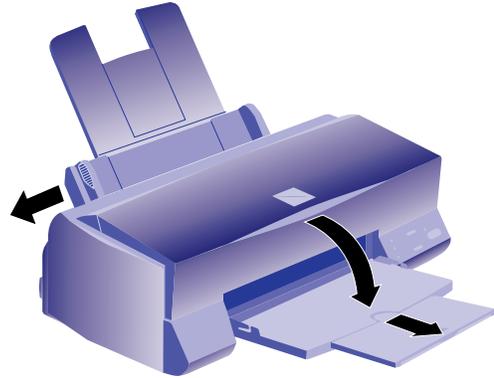


Caution:
Never turn off the printer while the  power light is flashing.

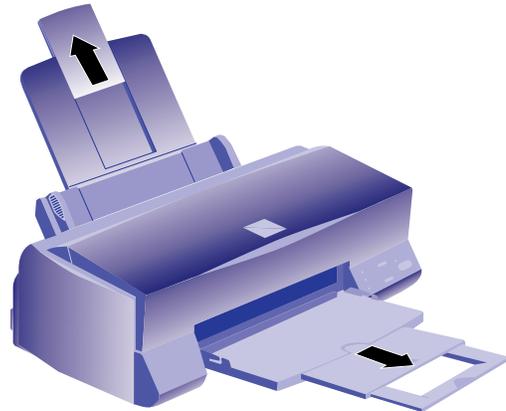
Loading Plain Paper

Always load paper or other media with the printable side facing up. Look for an arrow on the paper packaging to indicate the printable side.

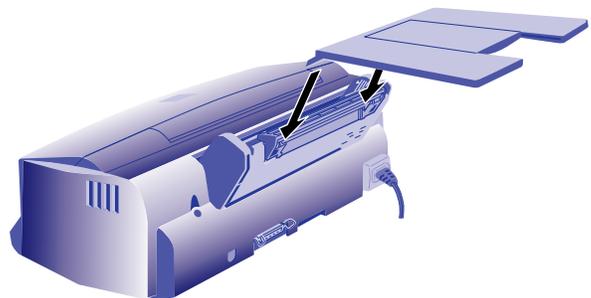
- Lower the output tray and slide out the extension. Then slide the left edge guide all the way left.



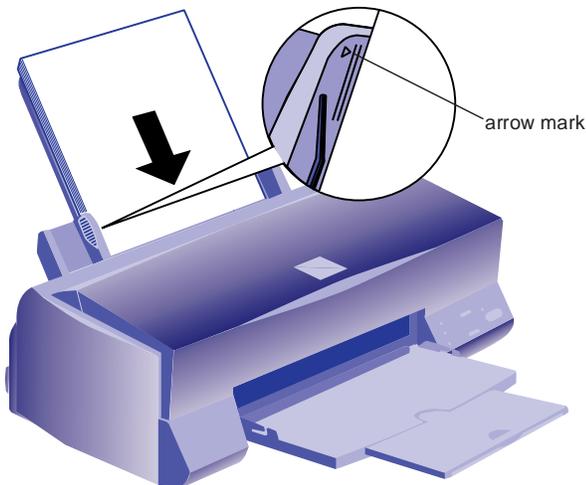
To load long paper, pull out the paper support extension and both output tray extensions.



To print on transparencies, remove the paper support and reinstall it in the rear paper support slot.

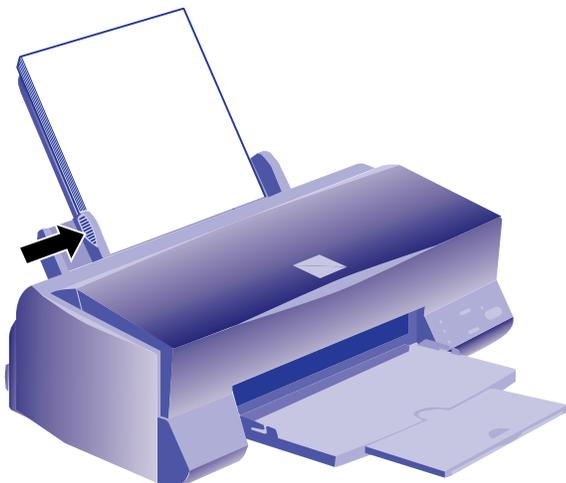


2. Fan a stack of paper and then even the edges.
3. Load the stack with the printable side up and the short edge first. (Load pre-printed forms and letterhead top edge first.) Place the paper's right edge against the right edge guide.



Note:
Don't load paper above the arrow mark inside the left edge guide.

4. Slide the left edge guide back against the stack of paper.



5. Select the Media Type and other printer driver settings that are appropriate for the media you loaded.

Loading Special Media

When loading special media, use the same steps described in the previous section, but keep the following guidelines in mind.

EPSON 360 dpi, High Quality, and Photo Quality Ink Jet Paper

You can load paper up to the arrow mark on the left edge guide. If you use legal-size ink jet paper, don't load it more than half way to the arrow mark.



Note:
Some special media have a cut corner that you need to position correctly; follow any instructions in the package. Always handle the sheets by the edges, and don't touch the printable surface.

EPSON Photo Quality Glossy Paper, Glossy Film, and Transparencies

Before loading transparencies, reposition the paper support as shown on page 9. For media or transparencies, put a support sheet (packed with the media) or a plain paper sheet beneath the stack.



Caution:
Don't use the cleaning sheets that may be included with your special media; they may cause a paper jam.

You can load up to 20 sheets of glossy paper or up to 30 sheets of glossy film or transparencies. If you load multiple sheets of glossy film, the minimum top margin you can use is 1.2 inches (30 mm). For best results, or to print with a smaller top margin, load and print glossy film one sheet at a time.

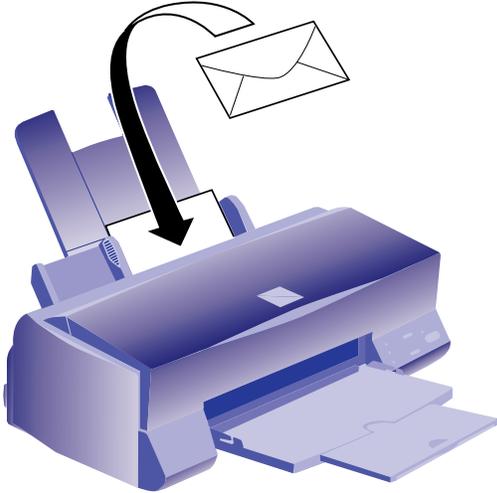
Remove each sheet from the output tray immediately after it is printed and make sure each sheet is dry before stacking it.



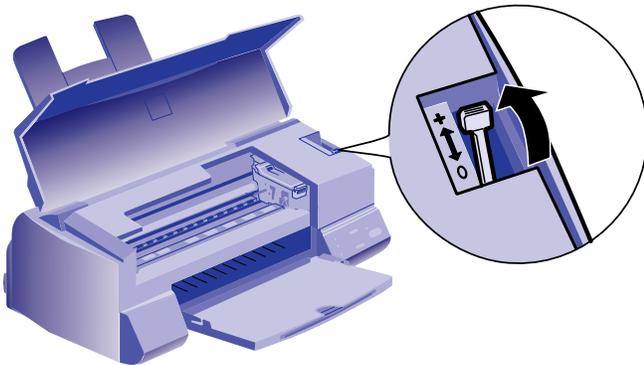
Note:
Use ink jet papers within one year of purchase. Use glossy media and transparencies within six months. Store unused media in its original package and keep it away from high heat and humidity.

Envelopes

You can load up to 10 envelopes as shown. Select Plain paper as your Media Type setting and don't use the Fine - 720 dpi Print Quality setting.



If ink smears when printing on envelopes or other thick media, set the adjust lever to the + position. To do this, open the printer cover and position the lever as shown. Then close the cover and print. (Be sure to return the lever to the 0 position before printing on other media.)



EPSON Photo Quality Index Cards

You can load up to 30 index cards with a support sheet (packed with the cards) or a sheet of plain paper beneath the stack. If ink smears on the cards, set the adjust lever to the + position, as described above.

EPSON Photo Quality Self Adhesive Sheets and Iron-On Transfer Paper

You should load these media one sheet at a time. Make sure your adhesive sheets are fully adhered to their backing sheet before you load it.

When printing on transfer paper, be sure to invert the image by selecting a Flip Horizontal option in your software or the printer driver. Follow the instructions in the paper package to iron the image onto a surface.

Printer Care

Cleaning the Print Heads

If your printed image is unexpectedly light or faint, or dots are missing from the image, you may need to clean the print heads. This unclogs the nozzles so they can deliver ink properly.

Cleaning the print heads uses ink, so to conserve ink, clean them only if print quality declines.



Note:

If a  black ink out or  color ink out light is flashing or on, you need to replace an ink cartridge, not clean the print heads.

There are two ways to clean the print heads: (1) using the Head Cleaning utility in the printer driver, or (2) using the printer's control panel buttons.

Using the Head Cleaning Utility

1. Make sure the printer is turned on and not printing, and the  black and  color ink out lights are off.
2. Access the printer driver.
3. Click the Utility tab.
4. Click the Head Cleaning icon.
5. Follow the instructions on the screen to clean the print heads. Cleaning takes about two minutes, during which the printer makes some noise and the  power light flashes. It's finished when the  power light stops flashing.
6. Now check if the print heads are clean and reset the cleaning function by running a nozzle check. Make sure paper is loaded in the printer, then click Print nozzle check pattern on the Head Cleaning utility screen.



Caution:

Never turn off the printer while the  power light is flashing.

If your print quality has not improved, repeat the steps above.

Using the Control Panel

1. Make sure the printer is turned on and not printing, and that the  black and  color ink out lights are off.

2. Press the  cleaning button and hold it down for three seconds to clean the print heads. Cleaning takes about two minutes, during which the printer makes some noise and the  power light flashes. It's finished when the  power light stops flashing.
3. Now check if the print heads are clean and reset the cleaning function by running a nozzle check. Make sure paper is loaded in the printer, then select Nozzle Check from the printer driver Utility menu.



Caution:
Never turn off the printer while the  power light is flashing.

If your print quality has not improved, repeat the steps above.

Examining the Nozzle Check Pattern

Examine the nozzle check pattern you print. It should look something like this, with the lower pattern colored cyan, magenta, and yellow:



Each staggered horizontal and straight vertical line should be complete, with no gaps in the dot pattern. If your printout looks okay, you're done. If any dots are missing, clean the print heads again, as explained in the previous sections.

Aligning the Print Heads

If your printouts contain misaligned vertical lines, you may need to align the print heads.

1. Make sure the printer is turned on and paper is loaded.
2. Access the printer driver.



Caution:
Load paper that's at least 8.27 inches (210 mm) wide so ink doesn't spray onto the platen.

3. Click the Utility tab.
4. Click the Print Head Alignment icon.
5. Follow the instructions on the screen to print a test page and select the correct alignment.

Cleaning the Printer

1. Turn off the printer, unplug the power cord, and disconnect the printer cable.



Caution:
Don't touch the gears inside the printer.
Never use alcohol or thinner for cleaning; they can damage the printer components and case.
Don't use a hard or abrasive brush.
Don't get water on the printer components.
Don't spray lubricants or oils inside the printer.

2. Remove all the paper from the sheet feeder.
3. Carefully clean away dust and dirt with a soft, damp cloth.
4. Clean the exterior of the printer with a soft, damp cloth. Keep the printer cover closed so water doesn't get inside.
5. If necessary, clean ink out of the printer's interior with a soft, damp cloth.

Information Reference List

Engineering Change Notices

None

Product Support Bulletins

None

Technical Information Bulletins

None

Related Documentation

TM-STYCLR400	EPSON Stylus COLOR 400 Service Manual
PL-STYCLR400	EPSON Stylus COLOR 400 Parts Price List
4006669	EPSON Stylus COLOR 400 User's Guide
4006668	EPSON Stylus COLOR 400 Quick Setup