

## Accessories

### Ink Cartridges

Cartridge	Part number
Black	S020093
Color	S020110

### Media

Media name	Size	Part number
EPSON 360 dpi Ink Jet Paper	Letter A4	S041060 S041059
EPSON High Quality Ink Jet Paper	Letter A4	S041111 S041117
EPSON Photo Quality Ink Jet Paper	Letter A4 Ledger/B Legal	S041062 S041061 S041070 S041067
EPSON Photo Quality Glossy Paper	Letter A4	S041124 S041126
EPSON Photo Quality Glossy Film	Letter A4 Ledger/B A6	S041072 S041071 S041075 S041107
EPSON Photo Paper	Letter A4 4 × 6 Ledger/B Panoramic (8.3 × 23.4 inches)	S041141 S041140 S041134 S041156 S041145
EPSON Ink Jet Transparencies	Letter A4	S041064 S041063
EPSON Photo Quality Ink Jet Cards	A6 8 × 10	S041054 S041122
EPSON Photo Sticker Kit	A6, 16 frames per sheet (includes software)	S041144-KIT
EPSON Photo Sticker Refill	A6, 16 frames per sheet	S041144
EPSON Iron-On Cool Peel Transfer Paper	Letter Letter	S041153 (10 sheets) S041155 (50 sheets)
EPSON Photo Quality Self Adhesive Sheets	A4	S041106
EPSON Ink Jet Back Light Film	A3	S041131

## Printer Specifications

### Printing

Printing method EPSON's exclusive drop-on-demand Micro Piezo™ ink jet technology

Nozzle configuration

Black 32 nozzles

Color 32 nozzles × 5 (cyan, magenta, yellow, light cyan, light magenta)

Printable columns and printing speeds

Print quality	Printable width	Available dots	CR speed
180 dpi	11.46 inches (291 mm)	2062	20 ips
360 dpi	11.46 inches (291 mm)	4125	20 ips
720 dpi	11.46 inches (291 mm)	8250	20 ips
1440 dpi	11.46 inches (291 mm)	16502	20 ips

dpi = dots per inch, ips = inches per second

Resolution Maximum 1440 dpi × 720 dpi

Print direction Bidirectional with logic seeking

Control code ESC/P Raster™

## Ink Cartridge

Specification	Black ink cartridge (S020093)	Color ink cartridge (S020110)
Color(s)	Black	Cyan, Magenta, Yellow, Light Magenta, Light Cyan
Print capacity*	540 pages/A4 (ISO/IEC 10561 Letter Pattern at 360 dpi)	220 pages (A4, 360 dpi, 5% duty each color)
Cartridge life	2 years from production date (if unopened) (within 6 months after opening package, at 77 °F (25 °C))	
Storage temperature	Installed: -4 to 104 °F (-20 to 40 °C) 1 month at 104 °F (40 °C) Uninstalled: -22 to 104 °F (-30 to 40 °C) 1 month at 104 °F (40 °C)	
Transit temperature	-22 to 140 °F (-30 to 60 °C) 1 month at 104 °F (40 °C) 120 hours at 140 °F (60 °C)	
Freezing temperature**	5 °F (-15 °C)	1.4 °F (-17 °C)
Dimensions	0.7 (W) × 2.1 (D) × 1.5 (H) inches 19.8 (W) × 52.7 (D) × 38.5 (H) mm	2.0 (W) × 2.1 (D) × 1.5 (H) inches 51.4 (W) × 52.7 (D) × 38.5 (H) mm

\* The print capacity may vary, depending on how often you clean the print head.

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



Caution:  
EPSON recommends the use of genuine EPSON ink cartridges. Other products not manufactured by EPSON may cause damage to your printer not covered by EPSON's warranties.

Do not use an ink cartridge if the date on the package has expired.

**Paper**

Paper type	Size	Paper types	Thickness	Weight
Single sheets	Letter (8.5 × 11 inches) Legal (8.5 × 14 inches) Ledger or B size (11 × 17 inches) Statement (5.5 × 8.5 inches) Executive (7.5 × 10 inches) A3 (297 × 420 mm) A4 (210 × 297 mm) A5 (148 × 210 mm) B4 (257 × 364 mm) B5 (182 × 257 mm)	Plain bond paper and special ink jet papers distributed by EPSON	0.003 to 0.004 inch (0.08 to 0.11 mm) for plain bond paper	17 to 24 lb (64 to 90 g/m <sup>2</sup> ) for plain bond paper
Transparencies, Glossy film, Glossy paper	Letter (8.5 × 11 inches) A4 (210 × 297 mm) A6 (105 × 148 mm), glossy film only Photo paper (4 × 6 inches)	Transparencies, glossy paper, and glossy film distributed by EPSON	—	—
Adhesive sheets	A4 (210 × 297 mm)	Self adhesive sheets distributed by EPSON	—	—
Envelopes	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)	Plain bond paper or air mail paper	0.006 to 0.017 inch (0.16 to 0.43 mm)	12 to 20 lb (45 to 75 g/m <sup>2</sup> )
Index (ink jet) cards	A6 (105 × 148 mm) 8 × 10 inches (203 × 254 mm)	Ink jet cards distributed by EPSON	—	—
Photo paper	Letter (8.5 × 11 inches) A4 (210 × 297 mm) Ledger or B size (11 × 17 inches) 4 × 6 inches (102 × 152 mm) Panoramic (210 × 594 mm)	Photo paper distributed by EPSON	—	—
Photo stickers	A6 (105 × 148 mm) 16 frames per sheet	Photo stickers distributed by EPSON	—	—
Iron-on cool peel transfer paper	Letter (8.5 × 11 inches) A4 (210 × 297 mm)	Transfer paper distributed by EPSON	—	—
Ink jet back light film	A3 (297 × 420 mm)	Ink jet back light film distributed by EPSON	—	—

Note:

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

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.

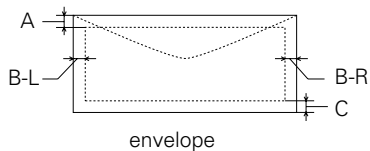
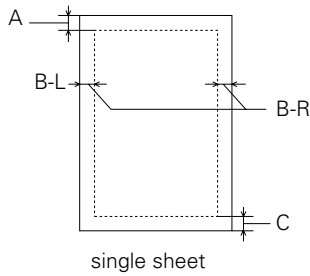
Use special papers distributed by EPSON under these conditions:

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

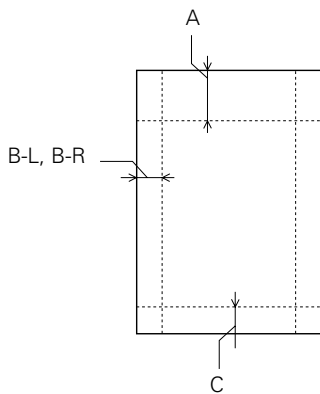
Store printouts on EPSON glossy media and self adhesive sheets under these conditions:

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

## Printable area

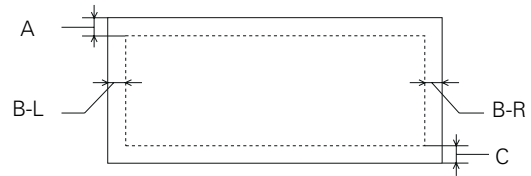


- A: The minimum top margin is 0.12 inch (3.0 mm).  
When loading multiple sheets of EPSON Photo Quality Film, the minimum top margin is 1.2 inches (30 mm).
- B-L,  
B-R: The minimum left and right margins are 0.12 inch (3.0 mm).  
The minimum right margin for envelopes is as follows:  
0.28 inch (7 mm) for DL envelopes.  
1.10 inches (28 mm) for No. 10 envelopes.  
0.12 inch (3 mm) for C6 envelopes.
- C: The minimum bottom margin is 0.54 inch (14.0 mm).



EPSON 4 × 6-inch Photo Paper  
(dotted lines indicate perforations)

- A: The maximum top margin is 0.67 inch (17.0 mm).
- B-L,  
B-R: The maximum left and right margin is 0.24 inch (6.1 mm).
- C: The maximum bottom margin is 0.24 inch (6.1 mm).



EPSON Panoramic Photo Paper

- A: The minimum top margin is 0.12 inch (3.0 mm).
- B-L, The minimum left margin is 0.12 inch (3.0 mm).
- B-R: The minimum right margin is 0.54 inch (14.0 mm).
- C: The minimum bottom margin is 0.12 inch (3.0 mm).

### Note:

Always load paper into the sheet feeder short edge first. However, envelopes should be loaded long edge first.

## Mechanical

Paper feed method	Friction
Paper path	Rear entry sheet feeder
Sheet feeder capacity	100 sheets of 17 lb (64 g/m <sup>2</sup> ) paper
Dimensions	
Storage	Width: 21.5 inches (546 mm) Depth: 10.8 inches (275 mm) Height: 6.8 inches (172 mm)
Printing (maximum dimensions)	Width: 21.5 inches (546 mm) Depth: 31.0 inches (788 mm) Height: 13.9 inches (353 mm)
Weight	15.4 lb (7 kg) without the ink cartridges

## Electrical

Specification	120 V Model	220–240 V Model*
Input voltage range**	99 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	0.4 A	0.2 A
Power consumption	Approx. 15 W (ISO/IEC 10561 Letter Pattern) Approx. 5 W in standby mode (120 V model) Approx. 5.5 W in standby mode (220–240 V model)	

\* This product is also designed for an IT power system phase-to-phase voltage of 220–240 V.

\*\* Check the label on the back of the printer for the voltage of your printer.

## 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 (without condensation)

Operation	20 to 80% RH
Storage*	5 to 85% RH

\*Stored in shipping container

## Safety approvals

Safety standards UL 1950 with D3, CSA C22.2 No. 950 with D3

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

## Initialization

The printer can be initialized (returned to a fixed set of conditions) in these ways:

Hardware initialization	* The printer is turned on. * The printer receives an $\overline{\text{INIT}}$ signal from the parallel interface.
Software initialization	* Software sends an ESC @ (initialize the printer) command.

## Hardware initialization

When the printer is turned on, the printer mechanism is initialized and the input data buffer and print buffer are cleared. Printer settings are returned to their default values. However, the printer mechanism is not initialized if the printer is turned on within ten seconds after turning it off. In this case, the printer caps the print head, and ejects any paper in the paper path.

## Software initialization

This clears the print buffer and returns printer settings to their default values. However, it does not initialize the printer mechanism or clear the data buffer.

## Interface

Your printer is equipped with an 8-bit parallel interface and a serial interface.

### Parallel interface

The built-in parallel interface has the following characteristics:

#### Forward channel

Data format:	8-bit parallel, IEEE-1284 compatibility mode
Synchronization:	$\overline{\text{STROBE}}$ pulse
Handshake timing:	BUSY and $\overline{\text{ACKNLG}}$ signals
Signal level:	TTL compatible
Connector:	57-30360 Amphenol connector or equivalent

#### Reverse channel

Transmission mode:	IEEE-1284 Nibble mode
Adaptable connector:	57-30360 Amphenol connector or equivalent
Synchronization:	Refer to the IEEE-1284 specification
Handshaking:	Refer to the IEEE-1284 specification
Signal level:	IEEE-1284 Level 1 device
Data transmission timing:	Refer to the IEEE-1284 specification

### Serial interface

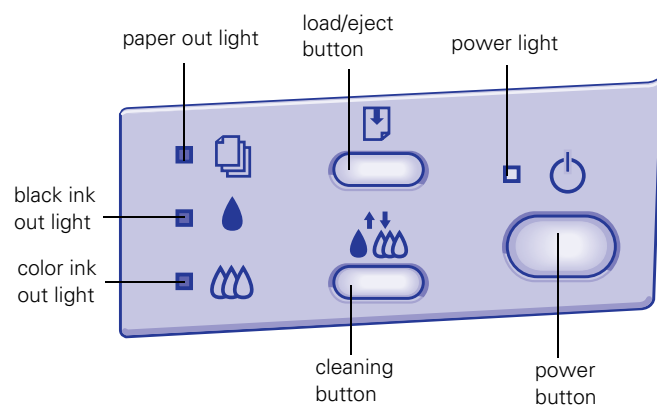
The printer's built-in serial interface is based on the RS-423 standard. This interface has the following characteristics:

Standard:	Based on RS-423
Synchronization:	Synchronous










# EPSON Stylus Photo EX



Bit rate:	Approx. 900Kbps
Handshaking:	X-ON/X-OFF and DTR protocol
Word format:	Data bit: 8 bits Parity bit: None Start bit: 1 bit Stop bit: 1 bit
Connector	8-pin mini-DIN
Recommended cable:	Apple System Peripheral-8 cable (part number M0197)



## Control Panel




The four lights on your printer's control panel show the printer's status and alert you to problems like paper jams.

-  When the paper out light comes on, your paper ran out or is incorrectly loaded. Load paper in the sheet feeder and then press the  load/eject button.
-  When the paper out light *flashes*, you have a paper jam. Take all of the paper out of the sheet feeder, reload the paper, then press the  load/eject button. If the light continues to flash, turn off the printer and gently pull out any jammed paper.
-  or  When an ink out light *flashes*, your ink supply is low. Make sure you have a replacement cartridge.
-  or  When an ink out light comes on, you need to replace the ink cartridge.
-  The power light is on when the printer is on. The power light *flashes* when the printer is receiving a print job or performing a maintenance operation such as cleaning the print head.

 When the power and paper out lights *flash* and the ink out lights are on, your printer has a carriage error. Turn off the printer by pressing the  power button; wait several seconds; then turn it on again. If this does not clear the error condition, contact EPSON as described in the *User's Guide*.

 When all the lights *flash*, your printer may have an internal error. Turn off the printer by pressing the  power button; wait several seconds; then turn it on again. If this does not clear the error condition, contact EPSON as described in the *User's Guide*.

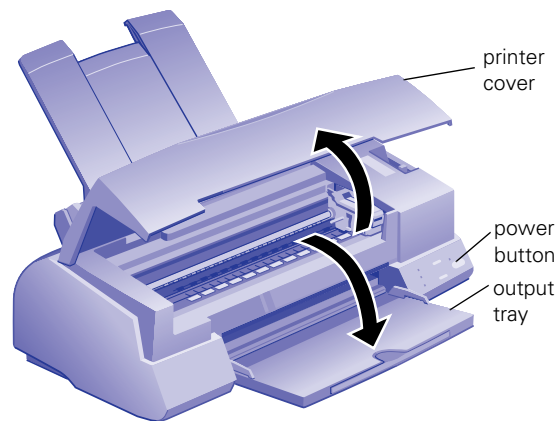
## Installing an Ink Cartridge in a New Printer





1. Plug the power cord into a grounded outlet.
2. Make sure the power is off (the  power light is off).




Caution:  
Don't use an outlet controlled by a wall switch or timer, or one that uses the same circuit as a large appliance. This may disrupt the power, which can erase memory or even damage the power supply.

3. Lower the output tray and open the printer cover.

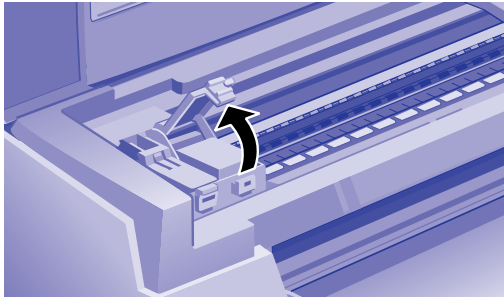


4. Press the  power button to turn on the printer. The  power light flashes, the  and  ink out lights come on, and the ink cartridge holders move left to the installation position.



Caution:  
Always use the  power button to turn the printer on or off. Never use an external switch—such as a power strip—to turn off the printer.

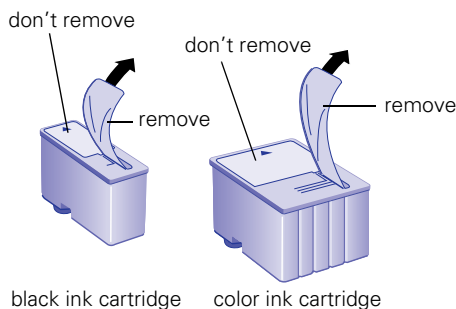
- Pull up the two ink cartridge clamps. (The illustration shows the color ink cartridge clamp.)




- Remove the ink cartridges from their foil packages. Then remove only the yellow part of the tape seal on the top of each cartridge. Do not remove the white part.



**Caution:**  
You must remove the yellow tape seal from the top of the cartridge or you will permanently damage it. It's OK if the tape does not exactly tear off along the dotted line. Don't remove the tape seal from the bottom.



**Warning:**  
If ink gets on your hands, wash them thoroughly with soap and water. If ink gets in your eyes, flush them immediately with water.

- Insert the ink cartridges into their holders. Be sure the labels are face up and the arrows point toward the back of the printer. The black ink cartridge goes on the left and the color ink cartridge goes on the right.
- Push down the clamps until they lock in place.
- Press the  cleaning button and close the printer cover.

The printer moves the print head and begins charging the ink delivery system. Charging can take up to two minutes. During this time, the power light flashes, and the printer makes various sounds. Don't turn off the printer or interrupt the charging process or you'll use more ink than necessary. Charging is complete when the power light stops flashing and is continually lit.




**Caution:**  
Never turn off the printer when the power light is flashing. But if the light is still flashing after five minutes and the printer isn't moving or making noise, you may turn off the printer.

## Testing the Printer

You can run a printer check to determine whether a problem comes from the printer itself or some other source.

- If the results are satisfactory, the problem lies in software settings, the interface cable, or your computer.
- If the printer check does not print correctly, there is a problem with your printer.

Follow these steps to check the printer:

- Make sure both the printer and computer are turned off.
- Disconnect the interface cable from the printer.
- Make sure paper is loaded in the printer.
- Hold down the  load/eject button and press the power button. Hold down the buttons until the power light starts to flash. Then release both buttons.

The printer prints one page containing the printer's ROM version, ink counter code, character table number, and a nozzle check pattern. Only the nozzle check pattern is shown below:



- After it prints the page, turn off the printer. Remember to reconnect the interface cable, then turn on the printer and your computer.

## Printing on Special Media

When you print on special media, you need to be careful about choosing the correct Media Type and Paper Size settings in your printer software. The following table lists the available EPSON media and the corresponding Media Type setting to select in your printer software.

For this media name...	Load a maximum of this many sheets...	Then select this Media Type setting in your printer software...
Plain paper, letter size	100 (load preprinted forms top edge first)	Plain paper
Plain paper, legal size	100 (pull up the paper support extension)	
Envelopes	10 (set the thickness lever to the + position, load flap edge first and printable side up)	
Labels (single sheets)	1	
EPSON 360 dpi Ink Jet Paper	70 letter size 30 legal size	
EPSON Special Coated Paper for 360 dpi Printing		
EPSON Iron-On Cool Peel Transfer Paper <sup>1</sup>	1 sheet	
EPSON High Quality Ink Jet Paper	70 letter size 30 legal size	
EPSON Photo Quality Ink Jet Paper		Photo Quality Ink Jet Paper
EPSON Special Coated Paper for 720 dpi Printing		
EPSON Photo Quality Ink Jet Cards	30 cards (use a support sheet)	
EPSON Special Coated Index Cards for 720 dpi Printing		
EPSON Photo Quality Self Adhesive Sheets	1	
EPSON Photo Quality Glossy Paper	20 (use a support sheet)	Photo Paper
EPSON Photo Paper	20 (use a support sheet)	
EPSON Panoramic Photo Paper	1	

For this media name...	Load a maximum of this many sheets...	Then select this Media Type setting in your printer software...
EPSON Photo Quality Glossy Film <sup>2</sup>	30 (use a 1.2 inch top margin and a support sheet)	Photo Quality Glossy Film
EPSON Photo Stickers	1 (use a support sheet)	
EPSON High Quality Glossy Paper	30 (use a support sheet)	
EPSON Ink Jet Transparencies	10 (use a support sheet)	Ink Jet Transparencies
EPSON Ink Jet Back Light Film	1	Ink Jet Back Light Film

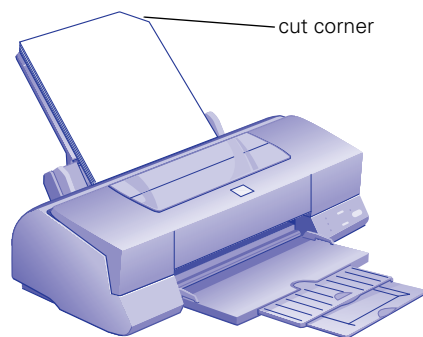
- <sup>1</sup> Use the Flip Horizontal option to reverse your image before you print it—especially if it includes text—so the image will appear correctly when it's transferred.
- <sup>2</sup> For better results, load EPSON Photo Quality Glossy Film one sheet at a time. This also allows you to use a smaller top margin.

## Additional Media Loading Guidelines



**Caution:**  
Don't use the cleaning sheets that may be included with your special media; they may damage the printer.

- ❑ If the corresponding Media Type option for your paper is not shown in the Media Type list, change the **Print Quality** setting in the More Settings dialog box, select **Automatic** as the Mode setting, or change the predefined setting in the Custom Settings list in the printer settings dialog box. Then select the correct media type.
- ❑ Some special media have a cut corner that you need to position correctly; follow any instructions in the package. Always handle sheets by the edges, and don't touch the printable surface.



- ❑ If the special media has protective sheets between each sheet of media, be sure to remove the protective sheets before printing.

Load the printable side of the media face up in the sheet feeder.



## Replacing an Ink Cartridge



**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.

When a black or color ink out light flashes, the indicated cartridge is low on ink. This is a good time to make sure you have a new cartridge. When the light stays on, the cartridge is empty and you need to replace it. You cannot print if either ink cartridge is empty.

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: S020110

## Removing an Empty Ink Cartridge

You can replace a cartridge when the black or color ink out light is either flashing or on. Follow these steps:

1. Make sure the printer is turned on and not printing.
2. Determine which cartridge needs to be replaced.
3. Lower the output tray and raise the printer cover.

Note:

If you press the cleaning button when neither ink out light is flashing or on, the printer cleans the print head as described on page 10. If you need to replace an ink cartridge before the lights flash (because the ink is too old, for example) follow the instructions in "Replacing an Outdated Ink Cartridge."

4. Press the cleaning button and hold it for three seconds.  
The print head moves all the way to the left and the power light begins flashing. (The print head returns to its home position if you don't proceed to step 5 within 60 seconds.)
5. Pull up the ink cartridge clamp. The cartridge rises up from its holder.



**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 the cartridge contains ink, reusing it may damage the print head.

6. Lift the cartridge out of the printer and dispose of it carefully.
7. Follow the steps in the next section to install the new ink cartridge.



**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.

## Installing the New Cartridge

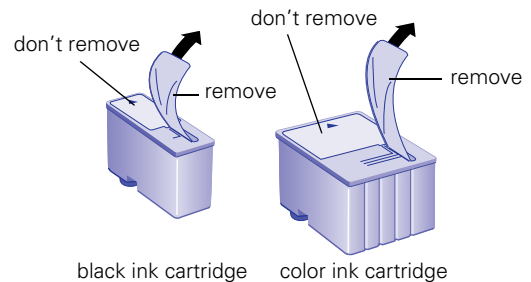
Once you have removed the empty cartridge, you're ready to install the new one. Follow these steps:

1. Remove the new ink cartridge from its packaging.



**Caution:**  
You must remove the yellow 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.

2. Remove only the yellow part of the tape seal on the top of the cartridge. Do not remove the white part. (It's OK if the tape does not exactly tear off along the dotted line.)



3. Lower the ink cartridge into its holder with the label facing up and the arrow pointing to the back of the printer. The larger cartridge (color) goes on the right, the black ink cartridge on the left.
4. Press down the ink cartridge clamp until it locks in place.
5. If you need to replace the other ink cartridge, remove it as described in "Removing an Empty Ink Cartridge." Then follow steps 1 through 4 in this section.
6. Press the cleaning button and close the printer cover.

The printer moves the print head and begins charging the ink delivery system. (Even if you don't press the button, ink charging begins 60 seconds after you close the clamp.)



The power light flashes and the printer makes various sounds. Charging takes about two minutes. When it's finished, you can print again.




**Caution:**  
Never turn off the printer while the power light is flashing, unless the printer hasn't moved or made any noise for more than 5 minutes.

## Replacing an Outdated Ink Cartridge

If an ink cartridge is more than six months old, you may need to replace it. How can you tell? You may notice that your printouts don't look as good as they used to. If print quality doesn't improve after cleaning and aligning the print head, you may need to replace one or both cartridges.

Follow these steps to replace an ink cartridge before the  black or  color ink out light is flashing or on:

1. Make sure the printer is turned on and not printing.
2. Lower the output tray and raise the printer cover.
3. Press the  load/eject button and hold it down for a few seconds until the print head moves to the left. (The printer automatically moves the print head back to the home position after 60 seconds if you don't continue with step 4.)



**Caution:**  
To avoid damaging the printer, never move the print head by hand.

4. Pull up the ink cartridge clamp. The cartridge rises up from its holder.
5. Lift the cartridge out of the printer and dispose of it carefully.
6. Follow the steps in the previous section, "Installing the New Cartridge," to install the new ink cartridge.

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## Cleaning the Print Head

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

Cleaning the print head uses ink, so clean it only if print quality declines. You can use either of the following to clean the print head:


- The Head Cleaning utility (recommended) in your printer software (if the printer is on a local port rather than a network)
- The printer's control panel buttons.


## Using the Head Cleaning Utility

Follow these steps to run the utility:

1. Make sure the printer is turned on but not printing, and the  black and  color ink out lights are off.
2. Access the printer settings dialog box.
3. Click the **Utility** tab (Windows) or the **Utility** button (Macintosh). You see the Utility menu.
4. Click the **Head Cleaning** button.
5. Follow the instructions on the screen to clean the print head. Cleaning takes about two minutes, during which the printer makes some noise and the  power light flashes.



**Caution:**  
Never turn off the printer while the  power light is flashing, unless the printer hasn't moved or made any noise for more than 5 minutes.





When the  power light stops flashing, you need to run a nozzle check to confirm that the print head is clean and to reset the printer's cleaning cycle.

6. Make sure paper is loaded in the printer and click **Print nozzle check pattern** (Windows) or **Confirmation** (Macintosh). Then click **Next**. See "Examining the Nozzle Check Pattern" for further instructions.


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


## Using the Control Panel

Follow these steps to clean the print head:

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 for three seconds. Cleaning takes about two minutes, during which the printer makes some noise and the  power light flashes.



**Caution:**  
Never turn off the printer while the  power light is flashing, unless the printer hasn't moved or made any noise for more than 5 minutes.

After the cleaning cycle is complete and the  power light stops flashing, you need to run a nozzle check to confirm that the print head is clean and to reset the printer's cleaning cycle.

3. Access the printer settings dialog box.
4. Click the **Utility** tab (Windows) or the **Utility** button (Macintosh). You see the Utility menu.
5. Click the **Nozzle Check** button. Then click **Next**. See the next section for instructions on examining the nozzle check pattern.

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

## Examining the Nozzle Check Pattern

Examine the nozzle check pattern after printing it. It should look something like this, with each of the six sections showing one of the ink colors:



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



## Aligning the Print Head

If your printouts contain misaligned vertical lines, you may need to align the print head. Follow these steps:

1. Make sure the printer is turned on and paper is loaded.
2. Access the printer settings dialog box.
3. Click the **Utility** tab (Windows) or the **Utility** button (Macintosh). You see the **Utility** menu.
4. Click the **Print Head Alignment** button.
5. Follow the instructions on the screen to print a test page and select the correct alignment.

Note:

For best results, use EPSON ink jet paper or photo quality paper when you check the print head alignment.

## Cleaning the Printer



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 get water on the printer components.

Don't spray lubricants or oils inside the printer.

To keep your printer working at its best, you should clean it several times a year, following these steps:

1. Turn off the printer, unplug the power cord, and disconnect the printer cable.
2. Remove all the paper from the sheet feeder.

3. Clean the exterior of the printer with a soft, damp cloth. Keep the printer cover closed so water doesn't get inside.
4. Clean ink out of the printer's interior with a damp cloth.



Caution:  
Don't use the cleaning sheets that may be included with your special media; they may damage the printer.

## Transporting the Printer

If you want to move your printer some distance, you need to prepare it for transportation and repack it in the original box.



Caution:  
To avoid damage, always leave the ink cartridges installed when transporting the printer.

Follow these steps:

1. Turn on the printer and wait until the print head locks in the far right position. Then turn off the printer.
2. Unplug the power cord from the electrical outlet. Then disconnect the interface cable from the printer.
3. Remove any paper from the sheet feeder and remove the paper support.
4. Push in the output tray extensions and close the tray.
5. Repack the printer and attachments in the original box using the protective materials that came with it. See the **Notice Sheet** that was packed with the printer.

Be sure to keep the printer flat as you transport it. If you notice a decline in print quality after transporting the printer, clean the print head; if output is misaligned, align the print head.

## Related Documentation

TM-SP700AD	EPSON Stylus Photo EX Service Manual
PL-PHOTOEX	EPSON Stylus Photo EX Parts Price List
CPD-6296	EPSON Stylus Photo EX User's Guide
CPD-6300	EPSON Stylus Photo EX Getting Started guide

