EPSON

EPSON STYLUS®

Photo 2000P

Printer Basics

Printed on recycled paper

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Welcome!

Your EPSON Stylus Photo 2000P comes with a variety of materials to help you get the most from your printer. See the following sections:

- "About Your Documentation" below
- "Viewing Your Electronic Reference Guide" on page 2
- "Watching Printer Movies" on page 4

About Your Documentation

To set up your printer and install the software that makes it work, see the *Start Here* poster that came with your printer.

This book contains all the basic information you need to know about printing. You'll find instructions on:

- printing with Windows® or on a Macintosh®
- using EPSON papers
- printing on roll paper
- maintaining the printer
- solving basic problems

For more information on printing, see your electronic *Reference Guide* on the printer software CD-ROM. For instructions on viewing the guide, see page 2.

The following symbols are used in this book:

	Warnings must be followed carefully to avoid bodily injury.
	Cautions must be observed to avoid damaging your equipment.
	Notes contain important information about your printer.
	Tips contain additional hints for better printing.

Viewing Your Electronic Reference Guide

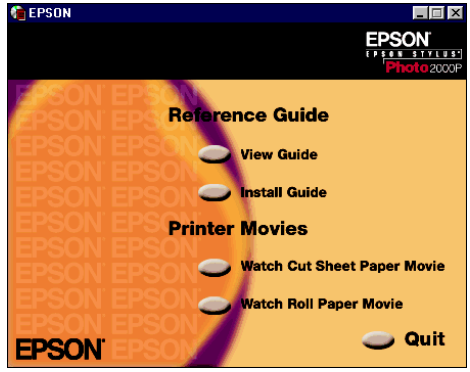
Your printer software CD-ROM includes an electronic *Reference Guide* for your printer. The manual is in HTML format, so you need a browser—such as Internet Explorer 3.0 or later or Netscape Navigator™ 3.0 or later—to view it. If you are using a different browser, the pages may not display correctly. (A browser is not included on the printer software CD-ROM.)

You can view your electronic *Reference Guide* from the CD-ROM or copy it to your hard drive and view it from there. Follow these steps:

1. Insert your printer software CD-ROM.
2. **Windows**: Double-click My Computer, double-click your EPSON CD-ROM icon, then double-click the EPSON icon.

   Macintosh: Double-click the EPSON CD-ROM icon, if necessary.
3. Double-click View Reference Guide and Movies.

You see this screen:



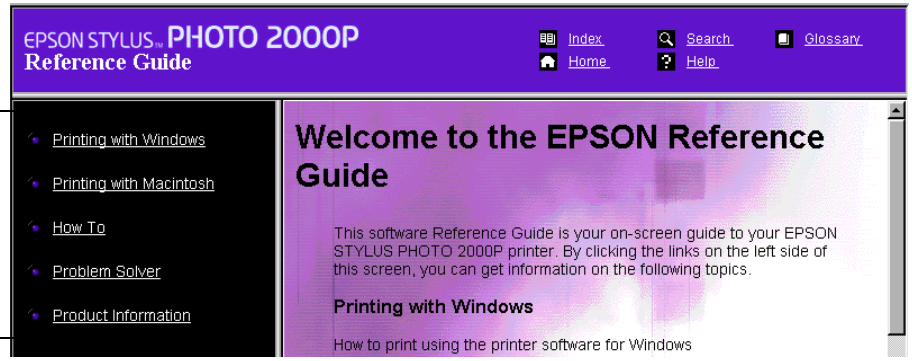
4. You can either view the guide from the CD-ROM (View Guide) or copy it to your hard drive (Install Guide) and view it from there. For details on viewing the guide, see below.

If you copied the manual to your hard drive, you can access it at any time, as follows:

Windows: Select Start, Programs, EPSON, and double-click ESP2000P Guide.

Macintosh: Open the EPSON Stylus Photo 2000P folder and double-click View Reference Guide.

When you first open the *Reference Guide*, you see this screen:



Click here to expand the table of contents

Click a topic on the left to expand the table of contents.

After expanding the table of contents, you can click on the topic you want to view. If there's a right arrow ▶, click it to view subtopics, then click on a topic to go to it. Click the down arrow ▼ to close a subtopic list.

If you see an icon in place of a graphic when viewing your Reference Guide in Netscape Navigator, click the Reload button to load the graphic.

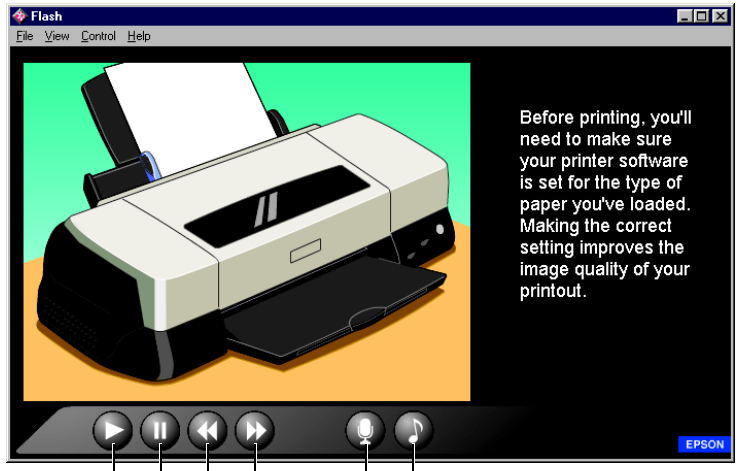
Watching Printer Movies

Your printer software CD-ROM includes two printer movies that give you a quick and easy overview on using EPSON papers with your printer. (The movies show you how to load both single sheets and rolls of paper.) To watch the movies, follow these steps:

1. Insert your printer software CD-ROM.
2. **Windows**: Double-click My Computer, double-click your EPSON CD-ROM icon, then double-click the EPSON icon.

   Macintosh: Double-click the EPSON CD-ROM icon, if necessary.
3. Double-click View Reference Guide and Movies, then select the movie you want to watch.

As you watch the movie, you can turn the narration and music on or off, pause the movie, or move forward or back to replay a scene.



Printing from Start to Finish

Here's how to print a basic document—such as a photograph, award certificate, or graphic—from loading the paper to making printer settings to starting the print job. Follow the instructions in these sections:

- "Printing with Windows" below
- "Printing on a Macintosh" on page 13

If you're already familiar with EPSON ink jet printing, you can skip ahead to:

- "Making Advanced Settings" on page 18
- "Getting the Colors You Expect" on page 20
- "Using EPSON Papers and Envelopes" on page 22
- "Using Roll Paper" on page 27

Printing with Windows

This section describes the basic steps for printing with Windows. (To print on a Macintosh, see page 13.)

Selecting and Loading Paper

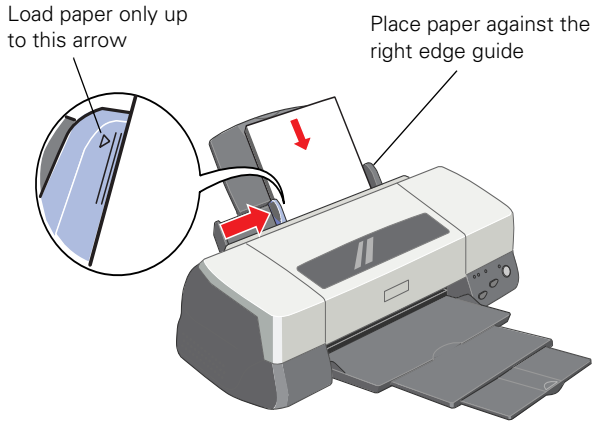
Before starting your print job, you need to select a suitable paper for your project. This is an important step, because the paper you choose affects the quality and appearance of your printout.

Selecting Paper for Your Project

Your printer can use a variety of papers, which differ in composition, texture, sheen, and brightness. These papers have been specially formulated to work with the EPSON Stylus Photo 2000P and be compatible with EPSON Archival™ Ink (the standard ink for your printer). See "Using EPSON Papers and Envelopes" on page 22 for guidelines on selecting the best paper for your project.

If this is your first time printing, be sure to use one of the papers included in the **EPSON Photo Quality Media Pack** that came with your printer. See page 22 for tips on loading and printing with the paper.

Once you've selected your paper, make sure the printer and computer are turned on. Then load the paper by placing it against the right edge guide; slide the left edge guide against the paper to hold it in place.



Keep the following in mind when loading paper:

- Most EPSON papers for this printer should be loaded only one sheet at a time; see "Using EPSON Papers and Envelopes" on page 22 for loading instructions.
- You can load up to 50 sheets of plain paper at a time, no higher than the arrow on the left edge guide. (Keep in mind that plain paper should be used only for printing trial layouts and black text documents. For photo-quality output, use one of the EPSON papers described on page 22.
- Load letterhead or preprinted paper into the printer face-up, top edge first.

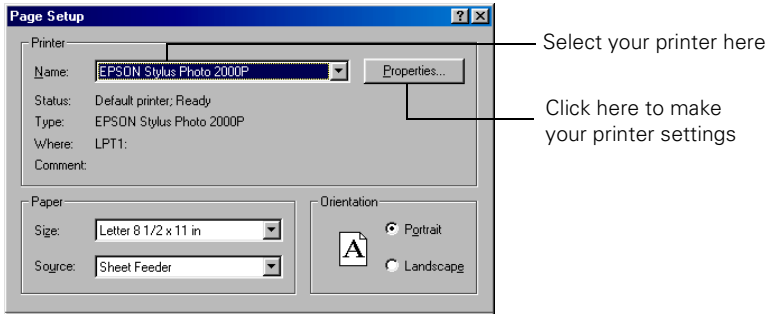
CAUTION

Don't place traditional fine art papers in your printer; dust or fibers from the paper can cause the printer's feeding mechanism to malfunction.

Making Basic Printer Settings

After you create your document in an application, such as Adobe® Photoshop,® you need to make certain printer settings to ensure that your images look as good on paper as they do on the screen.

From the File menu, click Page Setup. (If you're using an application other than Photoshop, you may need to select Print Setup or Print from the File menu.) You see a dialog box similar to the one below:



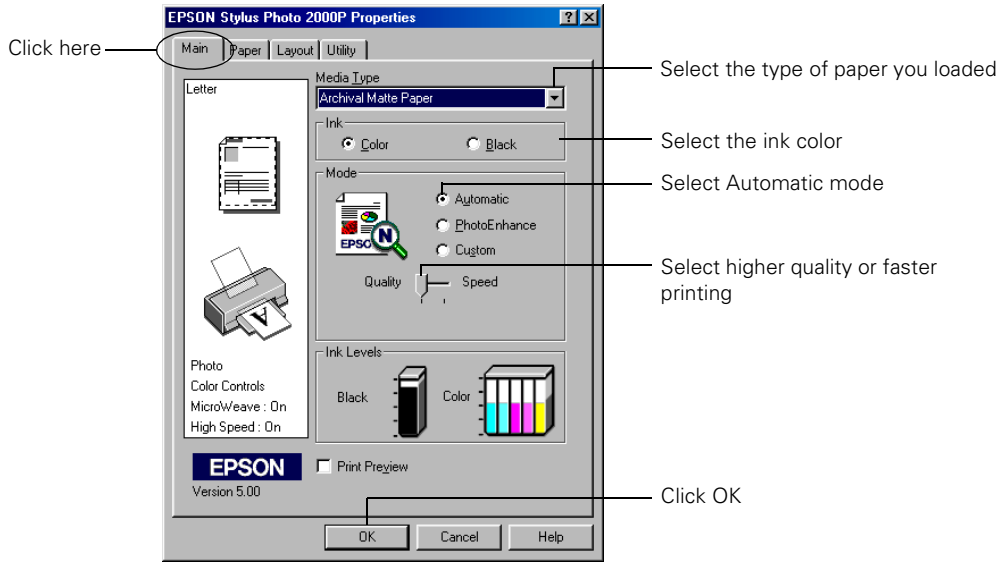
Do the following:

- Make sure EPSON Stylus Photo 2000P is selected.
- Click the Properties button.

If you don't see the Properties button, you may need to click a Setup, Printer, or Options button instead. Then click Properties on the next screen.

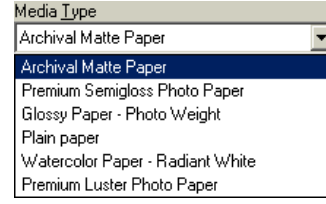
Once you click Properties, you see your printer's Properties dialog box.

The most important setting you'll make is for the type of paper you're using. This lets the printer optimize ink output for that paper, and can greatly affect image quality. If necessary, click the Main tab to display the settings shown below:



Make the following settings on the Properties dialog box:

- Choose the type of paper you're printing on (click the arrow to scroll through the Media Type list). If you're not sure which setting to select, see page 25.

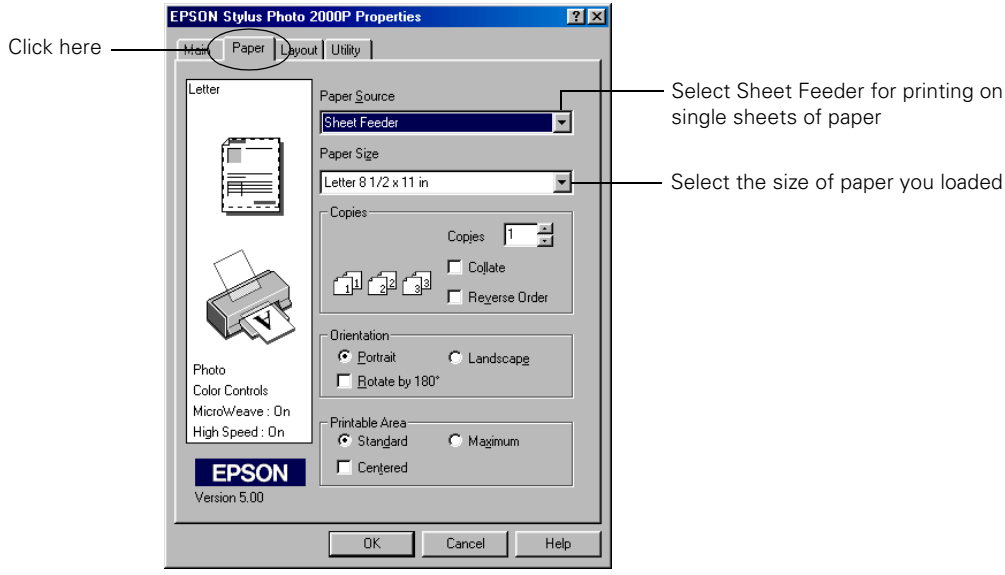


- Set the Ink option to Color to print a color document or photo. The Color setting should also be selected when printing sepia and toned black-and-white images. (The EPSON Stylus Photo 2000P is not recommended for neutral black-and-white photography.) For a black text document, click Black.
- Set the Mode option to Automatic. It's the easiest way to get good printing results on all types of paper.
- Set the slider in the Mode box to Quality or Speed to select high resolution or faster printing. (The slider may not be available for your paper type.)

For more information about printer settings, click the Help button. Or you can right-click any item on the screen and then click What's This?.

Making Paper Settings

Now click the Paper tab to display the settings shown below:



Make the following selections:

- Set the Paper Source to Sheet Feeder if you're printing on single sheets of paper. If your image is at least as wide as the paper, you can print it edge-to-edge ("bleed" it to the left and right sides of the page) by selecting Sheet Feeder–No Margins (available only at certain paper widths: 4, 8.3, 8.5, and 13 inches). To print on roll paper, see "Using Roll Paper" on page 27.
- Choose the size of paper you're printing on (click the arrow to scroll through the Paper Size list).

Click OK to apply the new settings. Then do one of the following:

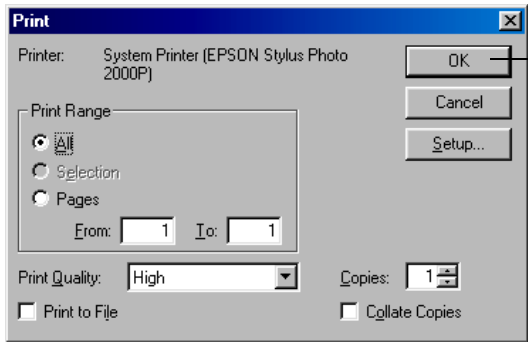
- If you see your application's Print dialog box, continue with the next section.
- If you see a dialog box with a different name (such as Page Setup in Photoshop), click OK again. Then select Print from the File menu.

It's a good idea to check your settings before printing. Some applications can override your printer's Paper Size and Orientation settings. If so, you may have to reapply these settings before printing.

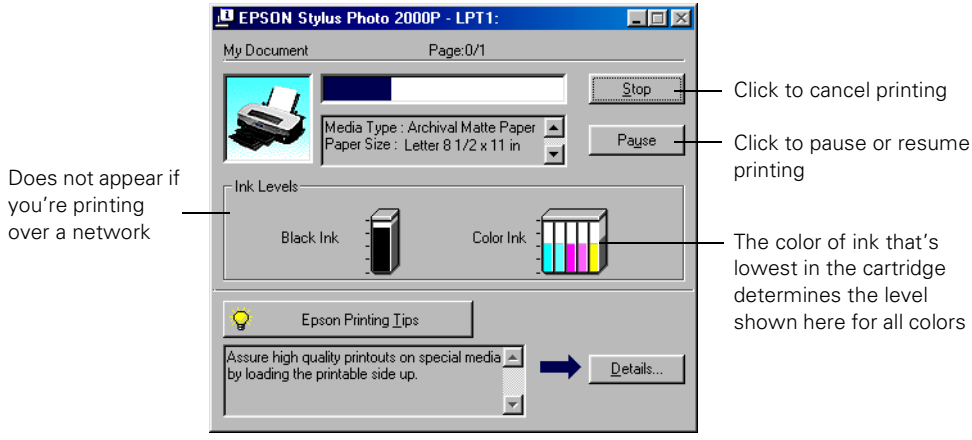
For details on other options—such as printing on custom paper sizes and choosing image orientation—see your electronic *Reference Guide* (described on page 2).

Starting the Print Job

You see your application's Print dialog box:



Click OK (or Print) to start printing. After a moment, the Progress Meter appears and shows the progress of your print job. You can use the buttons to cancel, pause, or restart printing. You can also see how much ink you have left and view printing tips.

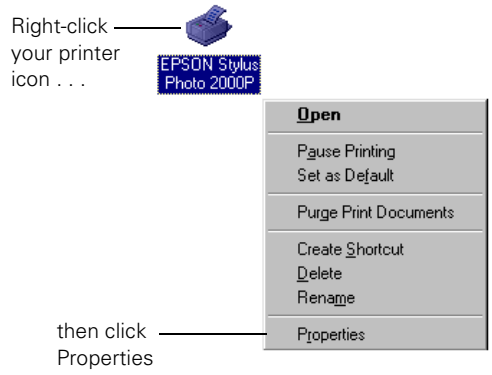


For more advanced printer settings, see pages 18 through 20. For more information on printing—for example, previewing your printout or adding a watermark—see your electronic *Reference Guide* (described on page 2).

Keeping the Settings You Use Most Often

The printer settings you make apply only to the application you're currently using. If you usually print one type of document in different applications—for example, Premium Semigloss Photo Paper with no margins—you can change the default printer settings for all your programs. You do this using the Windows Printer utility:

1. Click Start, point to Settings, and then select Printers.
2. Right-click your EPSON Stylus Photo 2000P printer icon.
3. Select Properties (Document Defaults in Windows NT or Printing Preferences in Windows 2000).
4. Select the Main, Paper, and Layout tab and choose the default settings you want to use for all your applications. Click OK when you're finished.



Remember, you can always change the settings in your application when you want to print different types of documents.

Another way to select a group of settings quickly is to save them as a group; see "Customizing Your Print Settings" on page 19.

Printing on a Macintosh

This section describes the basic steps for printing on a Macintosh. (To print with Windows, see page 7.)

Selecting and Loading Paper

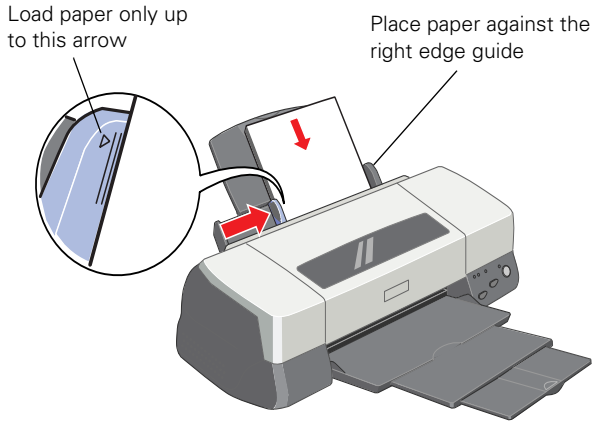
Before starting your print job, you need to select a suitable paper for your project. This is an important step, because the paper you choose affects the quality and appearance of your printout.

Selecting Paper for Your Project

Your printer can use a variety of papers, which differ in composition, texture, sheen, and brightness. These papers have been specially formulated to work with the EPSON Stylus Photo 2000P and be compatible with EPSON Archival Ink (the standard ink for your printer). See "Using EPSON Papers and Envelopes" on page 22 for guidelines on selecting the best paper for your project.

If this is your first time printing, be sure to use one of the papers included in the **EPSON Photo Quality Media Pack** that came with your printer. See page 22 for tips on loading and printing with the paper.

Once you've selected your paper, make sure the printer and computer are turned on. Then load the paper by placing it against the right edge guide; slide the left edge guide against the paper to hold it in place.



Keep the following in mind when loading paper:

- Most EPSON papers for this printer should be loaded only one sheet at a time; see "Using EPSON Papers and Envelopes" on page 22 for loading instructions.
- You can load up to 50 sheets of plain paper at a time, no higher than the arrow on the left edge guide. (Keep in mind that plain paper should be used only for printing trial layouts and black text documents. For photo-quality output, use one of the EPSON papers described on page 22.)
- Load letterhead or preprinted paper into the printer face-up, top edge first.

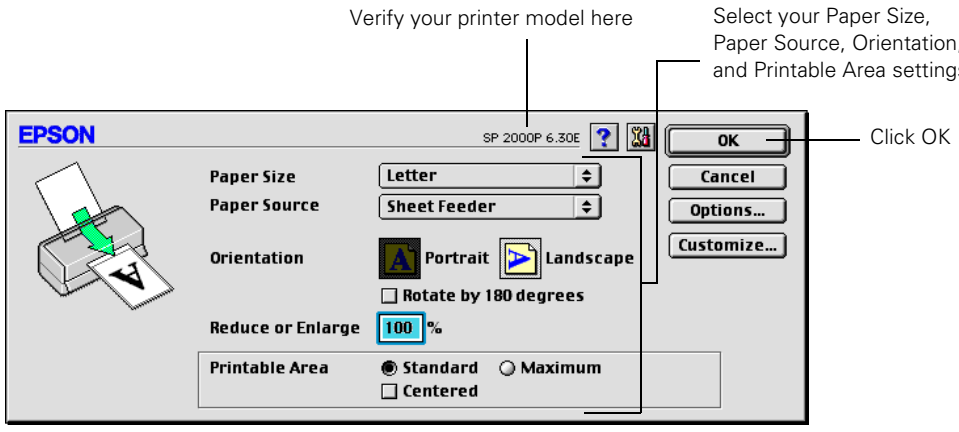
CAUTION

Don't place traditional fine art papers in your printer; dust or fibers from the paper can cause the printer's feeding mechanism to malfunction.

Making Paper Settings

After creating your document in an application, such as Photoshop, you're ready to print it using your EPSON printer.

From the File menu, click Page Setup. You see your application's page setup dialog box:



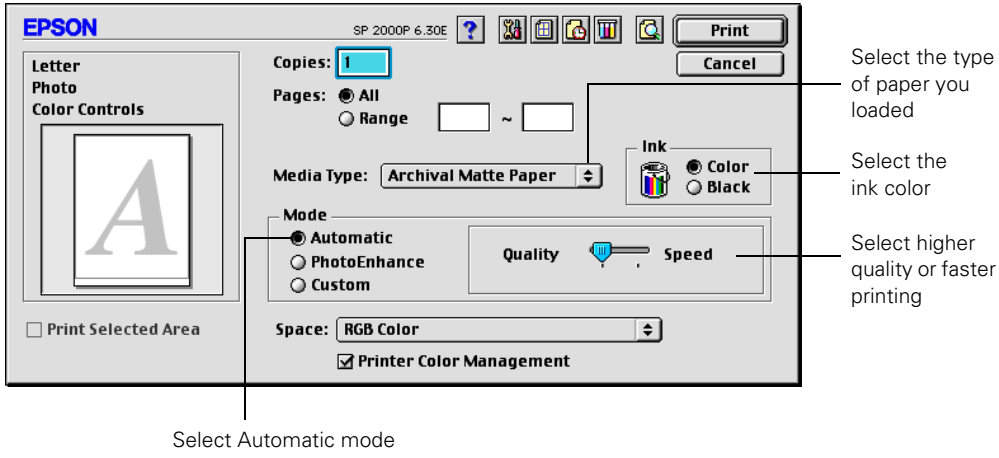
Make the following selections on the page setup dialog box (your dialog box may look slightly different):

- Make sure EPSON Stylus Photo 2000P is selected. (If the printer model is incorrect, you need to select it in the Chooser; see the *Start Here* poster for instructions.)
- Set the Paper Source to Sheet Feeder if you're printing on single sheets of paper. If your image is at least as wide as the paper, you can print it edge-to-edge ("bleed" it to the left and right sides of the page) by selecting Sheet Feeder–No Margins (available only at certain paper widths: 4, 8.3, 8.5, and 12.95 inches). To print on roll paper, see "Using Roll Paper" on page 27.
- Choose the size of paper you're printing on (click the arrow to scroll through the Paper Size list).
- Click OK to close the page setup dialog box and return to your application's window.

For details on other options—such as printing on custom paper sizes and choosing image orientation—see your electronic *Reference Guide* (described on page 2).

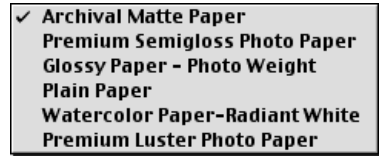
Making Basic Printer Settings

Now open the File menu and click Print. You see the printer settings dialog box for your application (your dialog box may look slightly different):



The most important setting you'll make is for the type of paper you're using. This lets the printer optimize ink output for that paper, and can greatly affect image quality.

Make the following settings in the dialog box:

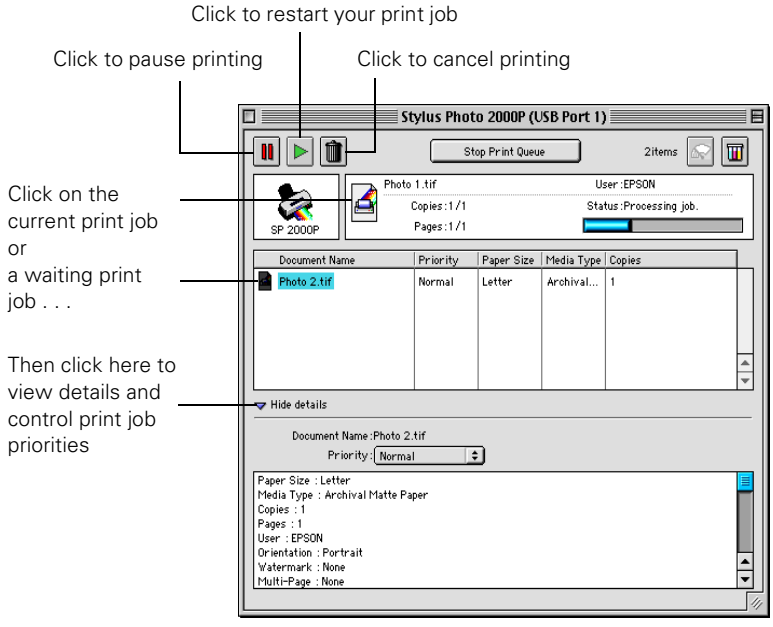


- Choose the type of paper you're printing on (click the arrow to scroll through the Media Type list). If you're not sure which setting to select, see page 25.
- Set the Ink option to Color to print a color document or photo. The Color setting should also be selected when printing sepia and toned black-and-white images. (The EPSON Stylus Photo 2000P is not recommended for neutral black-and-white photography.) To print a black text document, click Black.
- Set the Mode option to Automatic. It's the easiest way to get good printing results on all types of paper.
- Set the slider in the Mode box to Quality or Speed to select high resolution or faster printing. (The slider may not be available for your paper type.)

Starting the Print Job

Click Print to print your document.

If you turned on background printing in the Chooser, you can select EPSON Monitor3 from the Application menu at the right side of the menu bar to check the progress of your print job. You see the EPSON Monitor3 dialog box:



If you're not using background printing, but you need to cancel the current print job, hold down the ⌘ key and press the . (period) key.

For more advanced printer settings, see pages 18 through 20. For more information on printing—for example, previewing your printout or adding a watermark—see your electronic *Reference Guide* (described on page 2).

Making Advanced Settings

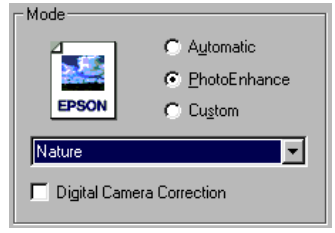
Your printer software includes powerful features that let you improve the appearance of digital images and control your printer's use of color. See the following sections:

- "Enhancing Digital Photos" below
- "Using Preset Project Types" on page 19
- "Customizing Your Print Settings" on page 19

Enhancing Digital Photos

Your printer software includes PhotoEnhance™ options that increase image brightness and contrast to improve the appearance of low-resolution and improperly exposed photos. To use PhotoEnhance, set the Mode option to PhotoEnhance in your printer settings dialog box. (If you're printing high-resolution images, leave the Mode option set to Automatic.)

If your photograph was taken with a digital camera, you can select Digital Camera Correction to give your printed images the appearance of photographs taken with a film camera. For more fine-tuning, you can select from a list of specialized settings for photographs, such as People or Nature, or add special effects, such as a Soft Focus or Sepia tint.



NOTE

PhotoEnhance does not affect your original image; it only affects your printout.

PhotoEnhance works only with Color ink; you cannot turn on PhotoEnhance with Black ink selected.

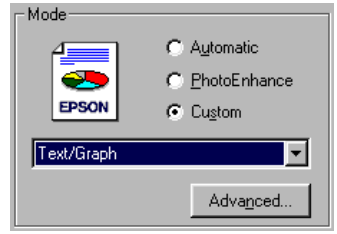
Don't use PhotoEnhance when printing on roll paper; it may affect your margins.

Printing with PhotoEnhance may take longer on some systems.

Using Preset Project Types

Your printer software includes project types with preset printing options. This lets you quickly select the best settings for your particular type of document, or select a color-matching method for your project.

To use this feature, set the Mode option to Custom in your printer settings dialog box. Then click the Custom Settings list to select from these project types:

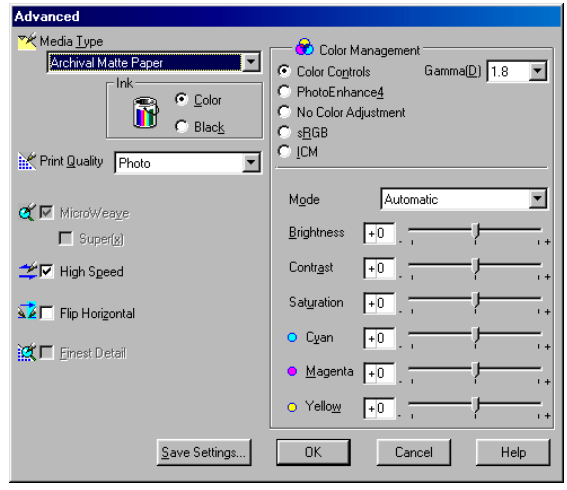


- Text/Graph: For printing graphics-intensive documents like presentations with charts and graphs.
- Draft: For printing rough drafts of text on plain paper. Saves ink.
- ICM (Image Color Matching; Windows 95, 98, Me, and 2000 only): For printing documents created in an ICM compatible application.
- sRGB (standard Red Green Blue; recommended only with Windows 98, Me, and 2000): For printing documents created in an sRGB compatible application using sRGB colors, such as those designed for the World Wide Web. See your Windows online help for details.
- ColorSync (Macintosh only): For printing documents in conjunction with ColorSync® compatible devices and applications.

Customizing Your Print Settings

For maximum control over your project, you can customize your print settings—such as the overall brightness or contrast of the image, or the saturation level of individual colors. You can also add special background effects, such as canvas or parchment.

To access these settings in your printer software, click Custom and then click the Advanced button.



The default Gamma setting of 1.8 provides the optimum contrast for your photos. However, you can change it to either 1.5 (for decreased contrast) or 2.2 (for increased contrast; recommended for matching colors with sRGB devices).

After you customize your print settings, you can click Save Settings to save them as a group so you can reuse them whenever you print a similar project.

To learn more about an advanced feature in your printer software, right-click it and select What's This?. Or see your electronic *Reference Guide*, as described on page 2.

Getting the Colors You Expect

Here are some tips for getting accurate color reproduction from your printer. For more information, visit the EPSON web site at www.epson.com. If you're using an Adobe product, such as Photoshop, check the Adobe web site at www.adobe.com for more tips.

Printing CMYK Format Files

To print a file saved in CMYK (cyan, magenta, yellow, and black) format with accurate colors, you first need to convert the file to RGB format. This is because your printer software automatically converts RGB files to your printer's 6-color CMYKcm format (including light cyan and light magenta). If you send a CMYK format file to print, you'll get unexpected color results. To print with the correct colors, convert any CMYK format input files to RGB format before printing. For the best results, create your original print files in the RGB color space. This larger color space transfers directly to your printer without any loss of color information inherent in color space conversions.

Using Color Management Profiles

If you're printing in Adobe Photoshop using a color management profile created in another program, you'll need to turn off your printer's color management features to get accurate results. If you use a profile but leave your printer's color management features turned on, your colors won't be correct. To turn off color management, follow these steps:

1. Start your application, open the file you want to print, and select your custom color management profile. (See your application documentation for details.)
2. To turn off your printer software color management, access your printer settings dialog box; see page 9 (for Windows) or page 16 (for Macintosh).
3. Click Custom, then click Advanced. You see the Advanced dialog box.
4. Select the No Color Adjustment option on the top right of the dialog box.
5. Select the rest of your printer software settings and click OK.

Adjusting for Different Lighting Conditions

Due to the nature of all pigment-based inks, lighting conditions can affect the appearance of colors in your printed output. For example, a print viewed in daylight may appear to have a slightly different color balance when viewed under tungsten lighting. This phenomenon is known as metamerism.

To minimize the effects of metamerism, the colors in your prints will look best when illuminated by a D50 (daylight) light source. For display under a different light source, you can optimize the appearance of colors in your prints in one of these ways:

- Adjust the RGB color space in your application to optimize the output for your light source.
- Adjust the color balance of the image in your application.
- Use third-party color management software to create a color profile that optimizes your output for your light source.
- Manually adjust the color controls in the printer software's Advanced dialog box.

Using EPSON Papers and Envelopes

How can you get the best-looking photos, most vivid colors, and sharpest images? Always use EPSON's special ink jet papers.

To show you how much difference EPSON paper can make, we've included some free samples. Check out the **EPSON Photo Quality Media Pack** that came with your printer. Instructions for printing on the samples and on envelopes are given in the following sections. (To print on roll paper, see "Using Roll Paper" on page 27.)

In addition to the papers described below, other papers may become available for your printer. See the inside back cover to order paper and other supplies or to obtain current product information from the EPSON Store™.

Use only papers specifically designed for the EPSON Stylus Photo 2000P. Other EPSON papers may not work as well with your printer.

Traditional fine art papers may deposit dust or fibers inside your printer and cause its feeding mechanism to malfunction.

See the following sections:

- "Printing on EPSON Ink Jet Papers" below
- "Printing on Envelopes" on page 24
- "Choosing the Correct Media Type Setting" on page 25
- "Taking Care of Your Prints" on page 25

Printing on EPSON Ink Jet Papers

Always load EPSON ink jet papers with the whiter (or brighter) and smoother side face-up. This is the printable side of the page.

Avoid handling the printable surface (moisture and oils from your skin can affect print quality), and return unused paper to the original package when you finish printing.

Follow the guidelines below to select the best paper for your project, load it in the printer, and make the correct printer settings.

Archival Matte Paper

Archival Matte Paper has a professional-looking, flat matte finish for printing photos, graphics, and digital fine art on a smooth, non-glossy surface. Keep the following in mind when printing on this paper:

- Always load it with the whiter side face-up.
- Load up to 20 letter-size sheets at a time. Load only one sheet if printing on A3 (11.7 × 16.5 inch) or Super B (13 × 19 inch) paper.
- Use a loading support sheet if it is included in the paper package.
- Select Archival Matte Paper as the Media Type setting.

Premium Semigloss Photo Paper

Premium Semigloss Photo Paper is a photo-weight paper with a semigloss finish suitable for photographic applications. Keep the following in mind:

- Always load it with the whiter, glossier side face-up.
- Load one sheet at a time.
- Select Premium Semigloss Photo Paper as the Media Type setting.
- Remove each sheet from the output tray immediately after it's done printing, and let the colors set for several minutes before stacking.

This paper is also available in 4-inch-wide rolls; see "Using Roll Paper" on page 27 for more information.

Premium Luster Photo Paper

Premium Luster Photo Paper is a resin-coated photo-weight paper of the type commonly used by portrait photo labs. Its light sheen and textured surface create the look of real photo prints. Keep the following in mind when printing on this paper:

- Always load it with the whiter, glossier side face-up.
- Load one sheet at a time.
- Select Premium Luster Photo Paper as the Media Type setting.
- Remove each sheet from the output tray immediately after it's done printing, and let the colors set for several minutes before stacking.

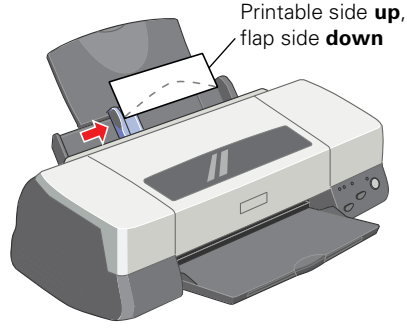
This paper is also available in 8.3- and 13-inch-wide rolls; see page 27 for details.

Watercolor Paper–Radiant White

Watercolor Paper–Radiant White has the look and feel of textured watercolor papers typically used by artists. Photographs printed on this paper have a soft watercolor tone. Keep the following in mind when printing on this paper:

- The whiter, smoother side is the printable side of the page. Always load this paper with the printable side face-up.
- Load one sheet at a time.
- Select Watercolor Paper - Radiant White as the Media Type setting.

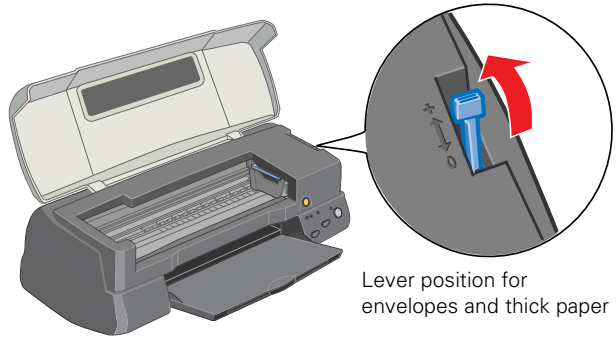
Printing on Envelopes



You can load up to 10 envelopes at a time, flap edge first and printable side up. Place them against the right edge guide and slide the left edge guide against them.

(You'll get better results if you press the envelopes flat before loading them, or load one envelope at a time.)

Set the thickness lever to the **+** position when you print on envelopes or other thick media. (Return the lever to the **0** position before printing on regular paper.)



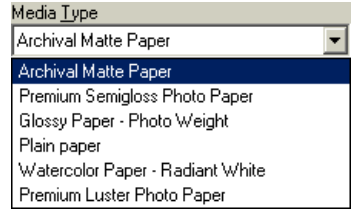
Lever position for envelopes and thick paper

Select Plain paper as the Media Type setting and Black as the Ink setting, then choose the correct envelope size as the Paper Size setting.

If the printing smears or you have banding (light lines), try turning off High Speed printing in the Advanced dialog box. (See page 19 for instructions on accessing the dialog box.)

Choosing the Correct Media Type Setting

Before printing, always check the Media Type setting in your printer software. See the table below for the settings you should use.



This setting is important because it tells your printer what kind of paper you're using. The printer can then adjust the ink coverage accordingly.

The Media Type setting for your paper may not be the same as the name of the paper. When in doubt, see to the table below or the instructions that came with your paper.

For this paper . . .	Select this Media Type setting . . .
EPSON Archival Matte Paper	Archival Matte Paper
EPSON Watercolor Paper - Radiant White	Watercolor Paper - Radiant White
EPSON Premium Semigloss Photo Paper	Premium Semigloss Photo Paper
EPSON Premium Luster Photo Paper	Premium Luster Photo Paper
Plain paper (sheets or envelopes)	Plain paper

Some of the Media Type settings may never need to be used, since not all papers are available in all markets.

Taking Care of Your Prints

For optimum image quality and longer print life, print your photos with genuine EPSON Archival Ink (the standard ink for the EPSON Stylus Photo 2000P printer) and certain EPSON papers. When printed with this combination and displayed under glass in normal indoor fluorescent lighting conditions, your prints will last 200 years or more before noticeable fading occurs using compatible EPSON matte type papers; 140 years or more using compatible EPSON Premium photo papers. Images printed on other EPSON papers won't last as long, but can be preserved for many years if properly cared for.

As with all photos, care should be taken to protect the long life of your prints. For storage in photo albums, we recommend acid-free, archival sleeves that are commonly available from camera shops and other retailers. For indoor display, we recommend

avoiding direct sunlight and mounting prints under glass to help protect them from humidity, cigarette smoke, and other atmospheric contaminants. Color stability varies with lighting conditions, color intensity, color range, and print media. Using the guidelines above, your EPSON photo prints can keep your memories alive for many years.

EPSON's lightfast tests were conducted by placing the printed image under a 2 mm-thick glass frame, in these conditions:

- Light source: fluorescent light
- Intensity: 70,000 lux
- Temperature: 75 °F (24 °C)
- Humidity: 60%

Using Roll Paper

Before printing, you need to decide on the size and type of roll paper that's best-suited to your project. Choose from these varieties:

- **EPSON Premium Luster Photo Paper, 8.3 and 13 inches wide**
  For printing panoramic photographs, banners, and signs
- **EPSON Premium Semigloss Photo Paper, 4 inches wide**
  For printing multiple 4 × 6-inch snapshots and panoramic photographs

Other papers for your printer may become available in the future. See the inside back cover to order paper and other supplies or to obtain current product information from the EPSON Store.

Use only papers specifically designed for the EPSON Stylus Photo 2000P. Other EPSON papers may not work as well with your printer.

Traditional fine art papers may deposit dust or fibers in your printer and cause its feeding mechanism to malfunction.

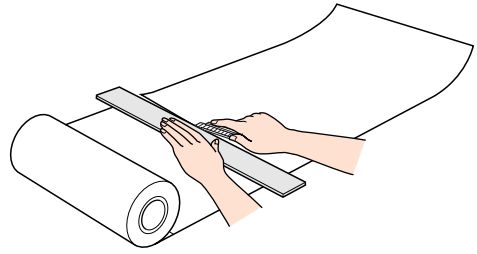
After selecting the kind of paper you want to use, you can either feed it from the roll or cut paper from the roll and feed it as a single sheet. Each printout can be up to 44 inches long. After you've finished printing, remove any leftover paper from the printer and return it to its original packaging.

Follow the instructions in these sections:

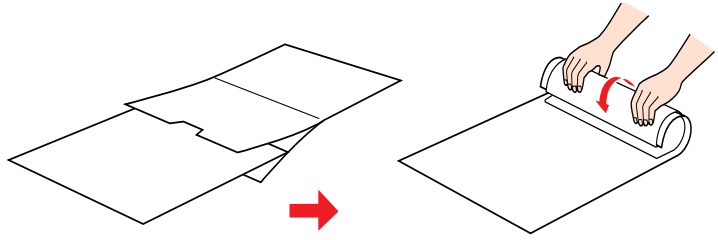
- "Loading Roll Paper" on page 28
- "Printing on Roll Paper" on page 30
- "Removing and Storing Roll Paper" on page 34
- "Printing on Paper Cut from a Roll" on page 35

Loading Roll Paper

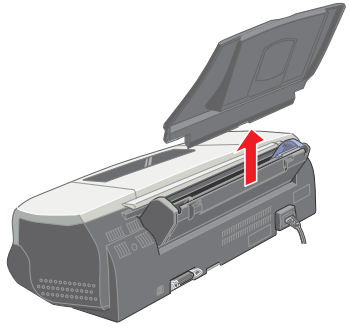
1. Before loading the roll, make sure the edge is cut cleanly—at a 90-degree angle in each corner—to ensure proper loading. If necessary, trim the edge using a straight-edge tool or triangle.

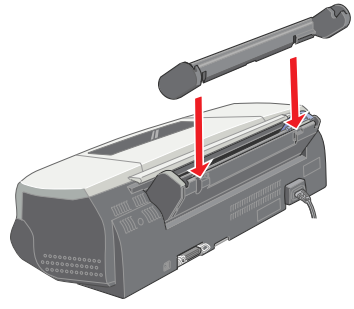


2. To make loading easier, roll the first several inches of the paper backward to uncurl it. Use the plastic sheet included with your printer to prevent your hands from marring the printable surface. (Or you can just use a folded sheet of paper.)

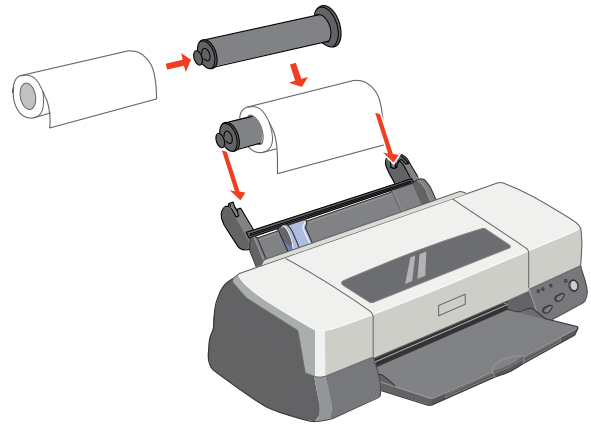


3. Remove the printer's paper support and install the roll paper holder in the same mounting slots.

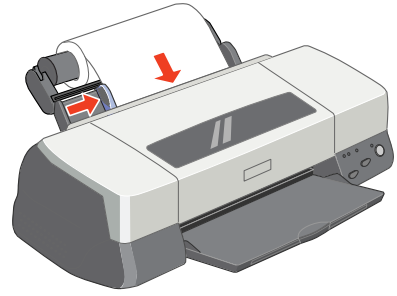




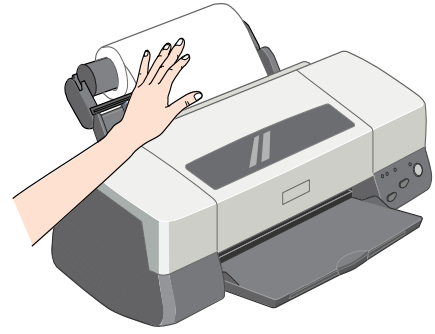
4. Insert the roll paper onto the spindle, making sure it's oriented as shown here. Then place the spindle with the roll paper onto the holder.



5. Load the end of the paper into the printer as far as it will go, then slide the left edge guide against the paper.



6. Gently hold the paper in place as you press and release the load/eject button to feed the paper into the printer. Avoid handling the paper excessively to prevent contamination with dirt or grease.



(If the paper doesn't feed properly, lift the paper out and then reload it. If the paper doesn't come out easily, hold down the load/eject button for three seconds. Then turn the printer off, remove the paper, and turn the printer back on to reset it. When reloading, make sure the end is cut straight and not curled or damaged. If necessary, re-trim the paper as shown in step 1.)

7. Make sure the output tray is open but the extensions are closed, and leave ample room at the front of the printer for your paper to eject smoothly.

8. Follow the steps in the next section to print on the roll paper.

Printing on Roll Paper

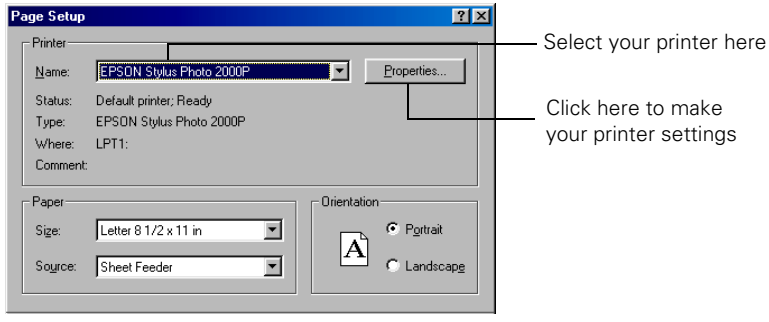
You control the way you print on roll paper by selecting the right combination of printer settings for your document. You can print with small side margins, without side margins ("bleed" your images to the edges), with guidelines between images to help you cut them straight, or with a combination of these.

Make sure you've loaded the roll paper as described on page 28. Then follow the steps in one of these sections:

- "Windows Instructions" below
- "Macintosh Instructions" on page 32

Windows Instructions

1. Open your image in an application such as Photoshop.
2. Size your image so that it fits onto the paper you've loaded in the printer. For example, if you want to print edge-to-edge, use your application to adjust the image size so that it's at least as wide as the paper. If you want white borders on the top and bottom of your image, make the document size (Canvas Size in Photoshop) larger than the size of the image.
3. Select Page Setup from the File menu. (If you're using an application other than Photoshop, you may need to select Print Setup or Print from the file menu.) You see a dialog box similar to this one:

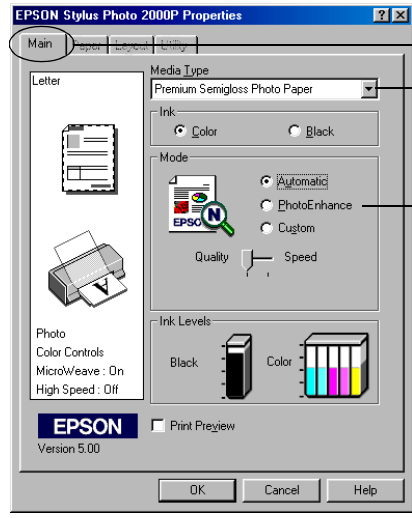


4. Make sure EPSON Stylus Photo 2000P appears and click the Properties button.

You see your printer's Properties dialog box:

5. Click the Main tab, if necessary. Select the correct Media Type setting for your paper. (If you're not sure which setting to use, see "Choosing the Correct Media Type Setting" on page 25.)

   Also make sure the PhotoEnhance setting is turned off, or it could affect your margins.

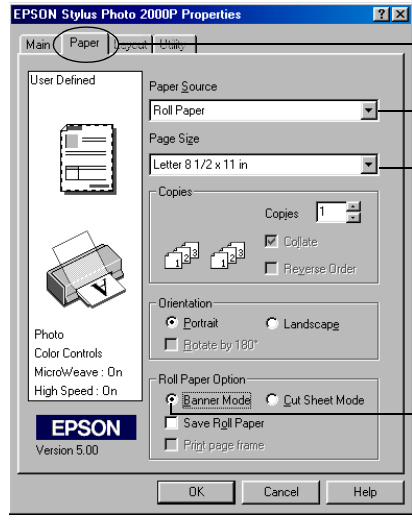


6. Click the Paper tab.
7. Select these settings:

   - Roll Paper as the Paper Source; this leaves a margin of at least 0.12 inch (3 mm) on both sides of your printout

     or

     Roll Paper–No Margins if you want to print your image edge-to-edge (available only at certain paper widths: 4, 8.3, 8.5, and 13 inches).



   - Choose a Page Size that matches the size of the document you created in your application. (If necessary, select User Defined as the Page Size, then enter your document size and give it a name.)
   - Select Banner Mode as the Roll Paper Option.

If you're printing more than one copy of the image and you want to print a cutting line between copies, select Cut Sheet Mode, then click the Print page frame checkbox.

8. Click OK to apply the new settings. Then do one of the following:
   - If you already see your application's Print dialog box, continue on to step 9.
   - If you see a dialog box with a different name (such as Page Setup in Photoshop), click OK again. Then select Print from the File menu.

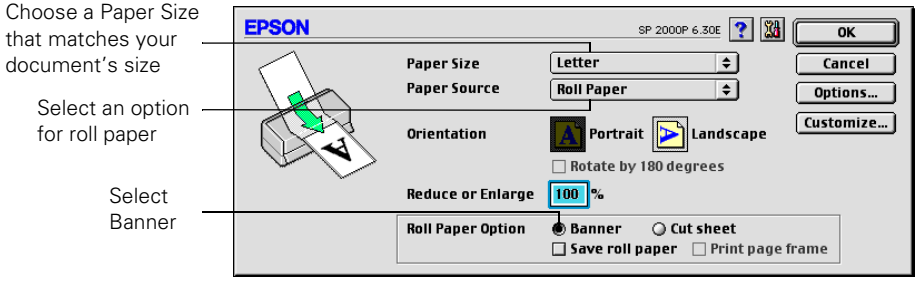
It's a good idea to check your settings before printing. Some applications can override your printer's Paper Size and Orientation settings. If so, you may have to reapply these settings before printing.

9. Enter the number of copies you want to print and click OK (or Print).

After you finish printing, follow the steps on page 34 to remove and store your printouts.

Macintosh Instructions

1. Open your image in an application such as Photoshop.
2. Size your image so that it fits onto the paper you've loaded in the printer. For example, if you want to print edge-to-edge, use your application to adjust the image size so that it's at least as wide as the paper. If you want white borders on the top and bottom of your image, make the document size (Canvas Size in Photoshop) larger than the size of the image.
3. Select Page Setup from the File menu. You see your Page Setup dialog box:



4. Select these settings:

   - Roll Paper as the Paper Source; this leaves a margin of at least 0.12 inch (3 mm) on both sides of your printout

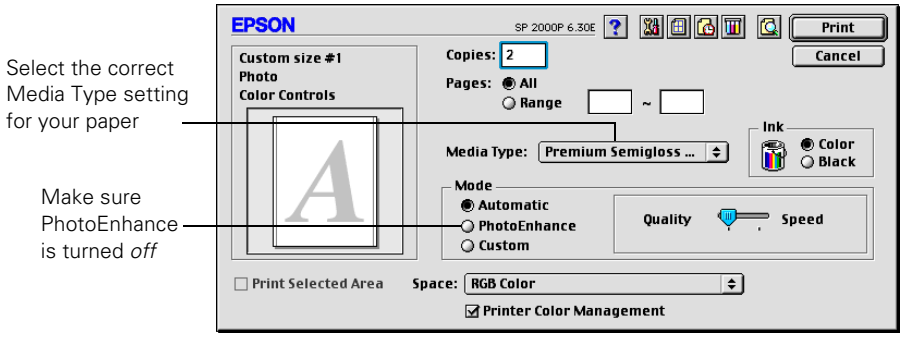
     or

     Roll Paper–No Margins if you want to print your image edge-to-edge (available only at certain paper widths: 4, 8.3, 8.5, and 12.95 inches).

   - Choose a Paper Size that matches the size of the document you created in your application. (If necessary, click the Customize button and enter the size of your document, then name the size and click OK.)
   - Select Banner as the Roll Paper Option.

   If you're printing more than one copy of the image and you want to print a cutting line between copies, select Cut Sheet Mode, then click the Print page frame checkbox.

5. Click OK.
6. Select Print from the File menu. You see your printer settings dialog box:



7. Select the correct Media Type setting for your paper. (If you're not sure which setting to use, see "Choosing the Correct Media Type Setting" on page 25.) Also make sure the PhotoEnhance setting is turned off, or it could affect your margins.
8. Select the number of copies you want to print and click Print.

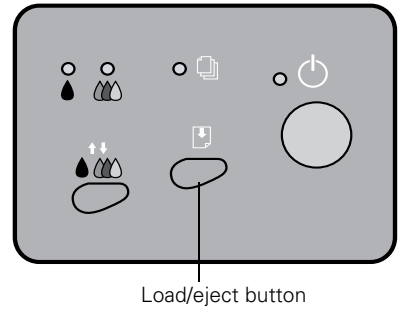
After you finish your printout, you can leave the paper in place and start another print job immediately after it. If you wish to make a dividing line between print jobs, press the load/eject button. The printer prints a small line on the roll paper to show you where to cut it and feeds the paper forward. Press the load/eject button again; the paper automatically moves back into the correct position before printing.

If you're done printing, follow the steps in the next section to remove and store the roll paper.

Removing and Storing Roll Paper

After you finish printing, you need to cut off your printout from the rest of the roll and remove the roll paper from the printer. Follow these steps:

1. Press the load/eject button. The printer prints a small line on the roll paper to show you where to cut it and feeds the paper forward.
2. Cut the roll paper, using the line as a guide.



NOTE

Don't cut inside the line closer to the printer.

Don't pull on the paper as you cut it; you may damage your printout.

3. If you want to continue printing on the roll paper, press the load/eject button again; the paper automatically moves back into the correct position before printing.

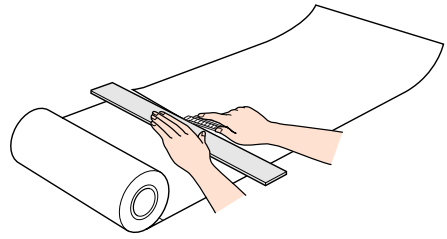
   If you've finished printing on the roll paper, hold down the load/eject button for about three seconds. The roll paper feeds backward so you can remove it from the printer. (You may need to repeat this step to back it all the way out.)

After you finish printing, remove the roll paper from the printer and return the unused paper to its original package. Store or display your printouts by following the guidelines in "Taking Care of Your Prints" on page 25. Keep unused paper, as well as your printouts, away from high temperatures and humidity and out of direct sunlight.

Printing on Paper Cut from a Roll

If you want to print on paper cut from a roll without using the roll paper holder, follow these steps:

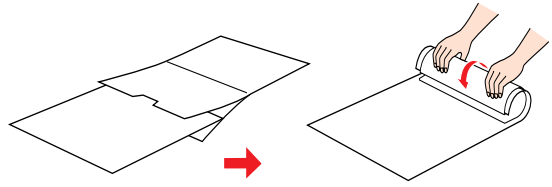
1. Before loading the paper, cut it to the desired length of your image plus two inches for the necessary margins. Cut the edge cleanly, at a 90-degree angle in each corner, to ensure proper loading.



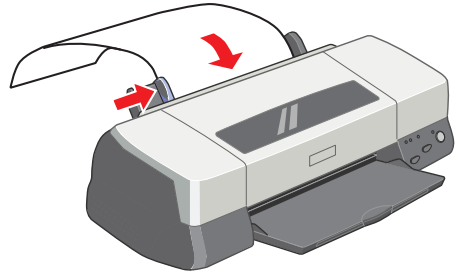
NOTE

If you alter the paper's width before printing, you may not be able to print edge-to-edge; marginless printing is available only at certain paper widths (4, 8.3, 8.5, and 12.95 inches).

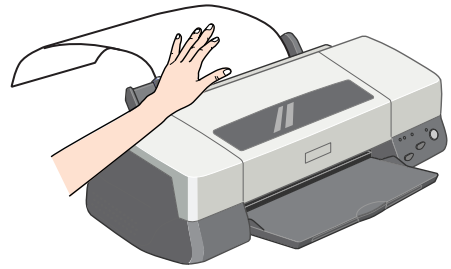
2. To make loading easier, roll the first several inches of the paper backward to uncurl it. Use the plastic sheet included with your printer to prevent your hands from marring the printable surface. (Or you can just use a folded sheet of paper.)



3. Remove the printer's paper support and insert the cut sheet, printable side up, as far as it will go. Slide the left edge guide against the paper.



4. Gently hold the paper in place as you press and release the load/eject button to feed the paper into the printer. Avoid handling the paper excessively to prevent contamination with dirt or grease.



(If the paper doesn't feed properly, lift the paper out and then reload it. If the paper doesn't come out easily, hold down the load/eject button for three seconds. Then remove the paper and turn the printer off and back on to reset it. When reloading, make sure the end is cut straight and not curled or damaged. If necessary, re-trim the paper as shown in step 1.)

5. Open your image in an application such as Photoshop, and make the following selections (for details, see "Windows Instructions" on page 30 or "Macintosh Instructions" on page 32):

   - Select the correct Media Type setting for your paper. (If you're not sure which setting to use, see "Choosing the Correct Media Type Setting" on page 25.)
   - Select one of the following as the Paper Source:

     Sheet Feeder to leave a margin of at least 0.12 inch (3 mm) on both sides of your printout

     or

     Sheet Feeder–No Margins if you want to print your image edge-to-edge.
   - Enter your cut paper size as the Paper Size setting. Remember, your cut paper size should be at least two inches longer than your document size to provide the correct margins.

     Windows: Select User Defined as the Paper Size setting, then input the size of your cut paper.

     Macintosh: Click the Customize button, then input the size of your cut paper and click OK. The custom size is automatically selected as the Paper Size setting.

6. Click OK (or Print). You may need to click OK (or Print) on another screen to start printing.

After you finish printing, store or display your printout by following the guidelines in "Taking Care of Your Prints" on page 25. Keep unused paper, as well as your printout, away from high temperatures and humidity and out of direct sunlight.

Maintaining Your Printer

This section describes maintenance procedures to keep your printer working its best and preparation steps for moving your printer. Follow the instructions here for:

- "Cleaning the Print Head" below
- "Replacing an Ink Cartridge" on page 40
- "Aligning the Print Head" on page 43
- "Cleaning the Printer" on page 45
- "Transporting the Printer" on page 46

For more details, see your electronic *Reference Guide,* as described on page 2.

Cleaning the Print Head

If your printed image is unexpectedly light or faint, or has missing bands of color, 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.

When you don't turn on your printer for a long time, the print head nozzles can dry out and diminish print quality. It's a good idea to turn on your printer at least once a month to maintain good print quality.

Follow these steps to clean the print head:

1. Make sure the printer is connected directly to your computer. If it's connected over a network, see "Using the Control Panel to Clean the Print Head" on page 39.
2. Make sure the printer is turned on but not printing, and both the ♦ black and ♦ color ink out lights are off. (If an ink out light is flashing, replace the ink cartridge instead.)

3. If you have an application running, access the printer settings dialog box as described on page 9 (Windows) or page 16 (Macintosh).

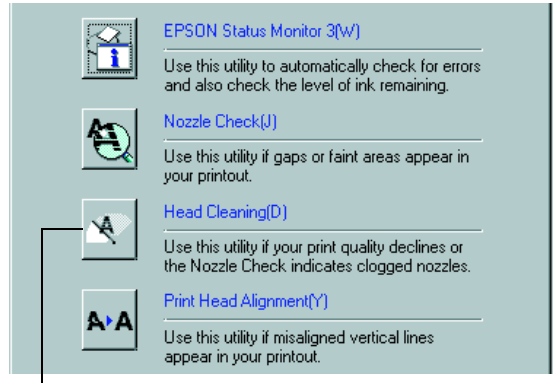
   Or, with Windows, click Start, point to Settings, then select Printers. Right-click your EPSON Stylus Photo 2000P printer icon, then select Properties (Document Defaults in Windows NT or Printing Preferences in Windows 2000).

4. **Windows**: Click the Utility tab.

   Macintosh: Click the Utility button.

5. On the Utility menu, click the Head Cleaning button.

6. Follow the instructions on the screen to clean the print head. Cleaning takes about 30 seconds, during which the printer makes some noise and the ⏻ power light flashes.



Head Cleaning button

CAUTION

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

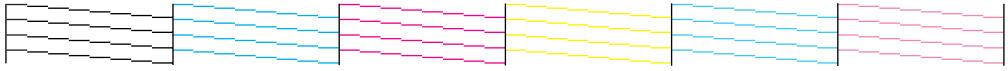
7. When the ⏻ power light stops flashing, run a nozzle check to confirm that the print head nozzles are clean. Load plain paper in the printer and click Print nozzle check pattern. Then click Next. Examine the nozzle check pattern as described on page 39.

8. If the pattern has missing dots or lines, click Clean to clean the print head again. If the pattern looks complete, click Finish.

If you don't see any improvement after cleaning three or four times, check for solutions in "Problems Getting Good Print Quality" on page 53. You can also turn the printer off and wait overnight—this allows any dried ink to soften—and then try cleaning the print head again.

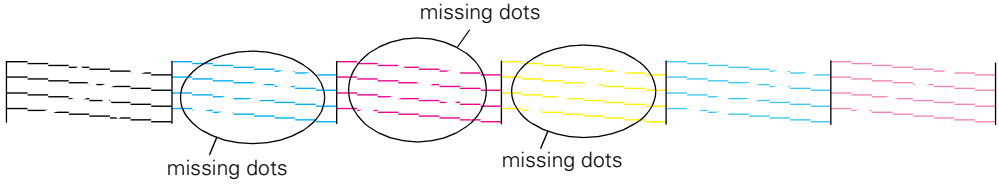
Examining the Nozzle Check Pattern

A good nozzle check pattern should look something like this:



Each line in the pattern should be complete, with no gaps or missing dots. If your printout looks okay, you're done.

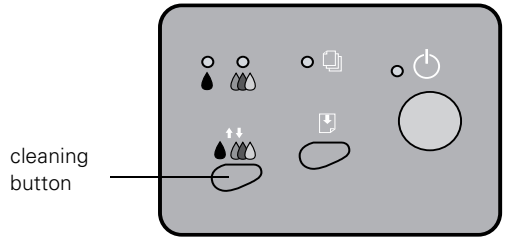
If any dots are missing, as shown below, clean the print head again; see page 37 for instructions.



Using the Control Panel to Clean the Print Head

If your printer is connected over a network, you have to use the control panel to clean the print head. (If the printer is connected directly to your computer, it's better to use the head cleaning utility as described above.)

Press the cleaning button and hold it down for three seconds. Cleaning takes about 30 seconds, during which the printer makes some noise and the power light flashes.



When the power light stops flashing, open an application and print a small image containing black and color data. If you still see missing dots or lines, repeat the cleaning cycle as described above.

If you don't see any improvement after cleaning three or four times, check for solutions in "Problems Getting Good Print Quality" on page 53. You can also turn the printer off and wait overnight—this allows any dried ink to soften—and then try cleaning the print head again.

Replacing an Ink Cartridge

When the 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.

When an installed ink cartridge is more than six months old, you may also need to replace it if you notice that your printouts don't look as good as they used to. If the print quality doesn't improve after cleaning and aligning the print head, you can replace one or both cartridges. To check the level of ink you have left, see the graphic in the printer driver (Windows) or click the ink level icon in the printer driver or EPSON Monitor 3 utility (Macintosh).

You cannot print if either ink cartridge is empty. Leave the empty cartridge installed in the printer until you have obtained a replacement; otherwise the ink remaining in the print head nozzles may dry out.

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

Region	Black ink cartridge	Color ink cartridge
U.S.	T015201	T016201
Canada	T015311	T016311

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

When you need new ink cartridges, contact your dealer or call EPSON at (800) 873-7766 or visit the EPSON Store at www.epsonstore.com (U.S. sales only). In Canada, please call (800) 873-7766 for dealer referral.

The printer's first ink cartridges will run out of ink sooner than the replacement cartridges. This is because the printer has to charge its ink delivery system when cartridges are installed the first time.

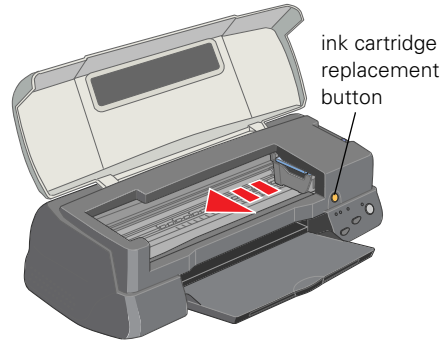
To conserve ink, avoid cleaning the print head more often than necessary, and always turn the printer off using the power button (not from a power strip or external switch).

Removing and Installing Ink Cartridges

Be sure you have a new ink cartridge before you begin. Once you start the ink cartridge replacement procedure, you must complete all the steps in one session.

Follow these steps to replace ink cartridges:

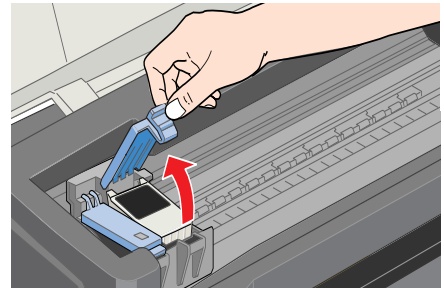
1. Make sure the printer is turned on and not printing (the ⏻ power light should be on, but not flashing).
2. Check the ♦ black and ♦ color ink out lights to see which ink cartridge you need to replace.
3. Open the printer cover and press the yellow ink cartridge replacement button. The print head moves left and the ⏻ power light begins flashing.



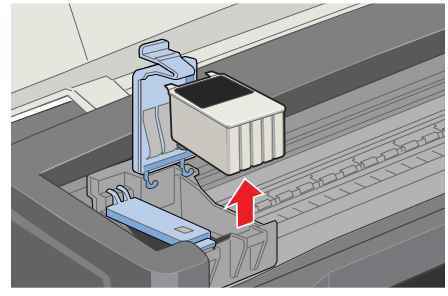
CAUTION

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

4. The color cartridge is on the right and the black cartridge is on the left. Pull up the ink cartridge clamp all the way. The cartridge rises up from its holder.



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

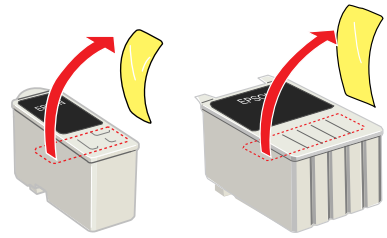


WARNING

Keep ink cartridges out of the reach of children and do not drink the ink.

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. Unwrap the new ink cartridge. Then remove the yellow tape seal on top.

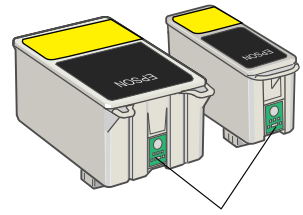


black cartridge color cartridge

CAUTION

You must remove the yellow tape from the top of the cartridge or you will permanently damage it. Don't pull off any other part of the label or try to remove the clear seal underneath the cartridge.

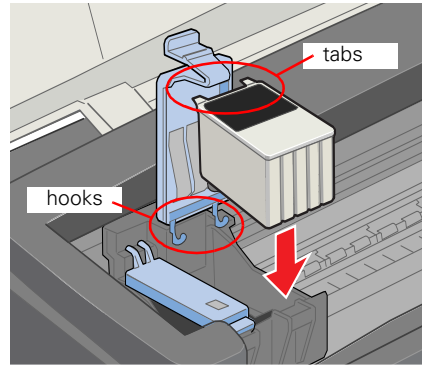
Don't touch the green circuit board on the back of the cartridge; you may inhibit normal operation and printing.



Don't touch the green circuit boards on the back

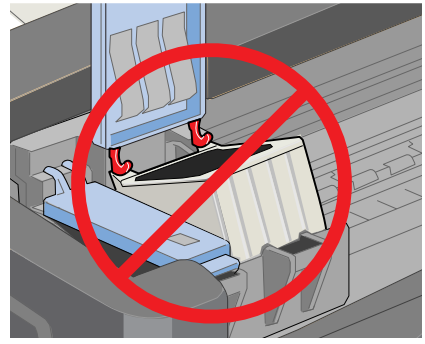
7. Tilt the ink cartridge forward slightly as you lower it into its holder.

Hang the tabs at the back of the cartridge on top of the hooks as shown.

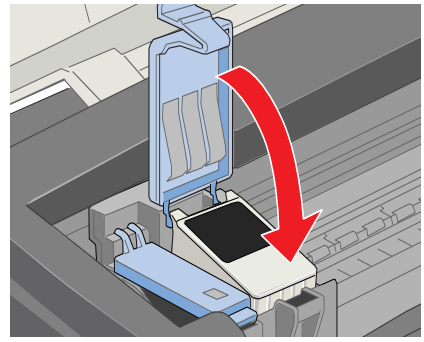


CAUTION

Don't place the cartridge tabs *under* the hooks; you may damage the clamp when you close it.



8. Lower the ink cartridge clamp and press it down to lock it in place. (The color clamp is a bit harder to close than the black clamp.)
9. If you need to replace the other ink cartridge, repeat steps 4 through 8 before continuing with step 10.
10. Press the yellow ink cartridge replacement button and close the printer cover. The printer moves the print head and begins charging the ink delivery system.



The ⏻ power light flashes, and the printer makes noise. Charging takes about one minute. When it's finished, the ⏻ power light stops flashing and stays on.

CAUTION

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

Aligning the Print Head

If your printouts contain jagged characters or misaligned vertical lines, you may need to align the print head. Your printer must be connected to a local port, not on a network, to use the Print Head Alignment utility.

The utility is in two parts and takes approximately 15 to 20 minutes to complete. Follow these steps:

1. Make sure the printer is turned on but not printing, and letter-size paper is loaded.

CAUTION

Load paper that's at least 8.27 inches (210 mm) wide to prevent ink from spraying inside the printer and smudging your printouts.

For the best results, use a photo-quality paper, such as EPSON Archival Matte Paper, to check the print head alignment. Don't use plain, recycled, or photocopier paper.

2. If you have an application running, access the printer settings dialog box as described on page 9 (Windows) or page 16 (Macintosh).

   Or, with Windows, click Start, point to Settings, then select Printers. Right-click your EPSON Stylus Photo 2000P printer icon. Select Properties (Document Defaults in Windows NT or Printing Preferences in Windows 2000).

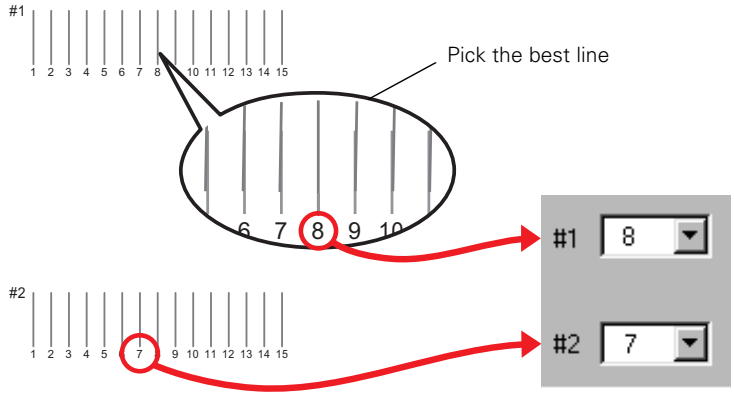
3. **Windows**: Click the Utility tab.

   Macintosh: Click the Utility button.

4. You see the Utility menu. Click the Print Head Alignment button.

5. Follow the instructions on the screen to print a test page.

6. Select the best line from the first group of lines on the printout, then enter its number in box #1 on screen. Select the line with the cleanest, straightest edges. Then choose the best line in the second group, and enter its number in box #2 on screen.



7. If you want to check the results, click Realignment to print another test page. Make sure the middle line (numbered 8) in each group is the best. If it isn't, you may need to repeat step 6 more than once to align your print head completely.

8. Click Next and follow the on-screen instructions to print two columns of boxes.

9. Select the box with the least grainy appearance (smoothest gray) from the first column, then enter its number in box #1 on screen. Then choose the best box from the second column and enter its number in box #2 on screen.

10. If you want to check the results, click Realignment to reprint the boxes. Make sure the middle box (numbered 5) in each column is the best. If it isn't, you may need to repeat step 9 more than once.

11. When done, click Finish.

Cleaning the Printer

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

1. Turn off the printer and wait for the ⏻ power light to go out.
2. Unplug the power cord and disconnect the printer cable.
3. Remove all the paper from the sheet feeder.
4. Clean the exterior of the printer with a soft, damp cloth.
5. Clean ink out of the printer's interior with a soft, damp cloth.

Don't clean the gears or touch any other parts inside the printer, except as described below.

Never use a hard or abrasive brush, or alcohol or thinner for cleaning; they can damage the printer components and case.

Don't get water on printer components, and don't spray oils or lubricants inside the printer.

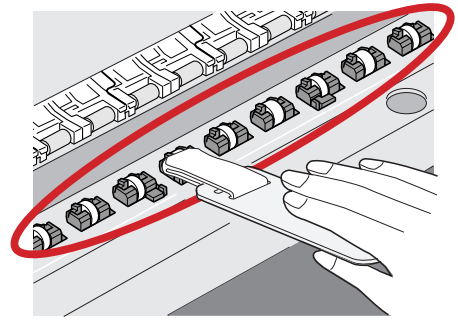
If you notice streaks of ink marring your printouts, your printer's paper eject rollers may be dirty. You can clean the rollers using the cleaning tool that came with your printer (or you can just use cotton swabs). Follow these steps:

1. Plug in the printer, but make sure it's turned off and the ⏻ power light is not on.
2. Place several sheets of plain paper in the printer.
3. Dampen the cleaning tool, and then squeeze out any excess water.
4. Hold down the yellow ink cartridge replacement button, and then turn on the printer by pressing the ⏻ power button. Continue holding down the yellow button until you see all three control panel lights flashing.
5. Press the load/eject button. A sheet of paper feeds into the printer (under the paper eject rollers) and the rollers turn slowly.

6. Wipe off ink from the rollers using the dampened cleaning tool as shown.

   If the paper ejects before you finish cleaning, press the load/eject button to feed another sheet into the printer.

7. When you're finished, turn the printer off.



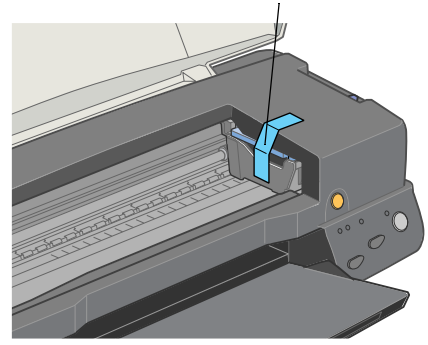
Transporting the Printer

If you move your printer some distance, you need to prepare it for transportation in its original box or one of a similar size. Follow these steps:

CAUTION

To avoid damage, always leave the ink cartridges installed when transporting the printer. Be sure to remove the tape used in step 4 after setting up the printer in its new location.

1. Turn on the printer, 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 printer cable from the printer.
3. Remove any paper from the printer and remove the paper support.
4. Open the printer cover. Secure the ink cartridge holder to the printer with tape as shown, then close the printer cover.



5. Close the cover, push in the output tray extensions, and close the tray.
6. Repack the printer and attachments in the original box using the protective materials that came with it.

Keep the printer level as you transport it. After transporting it, remove the tape securing the print head and test your printer. If you notice a decline in print quality, clean the print head (see page 37) or align the print head (see page 43).

Problem Solving

This section gives you the basics for diagnosing and solving printer problems.

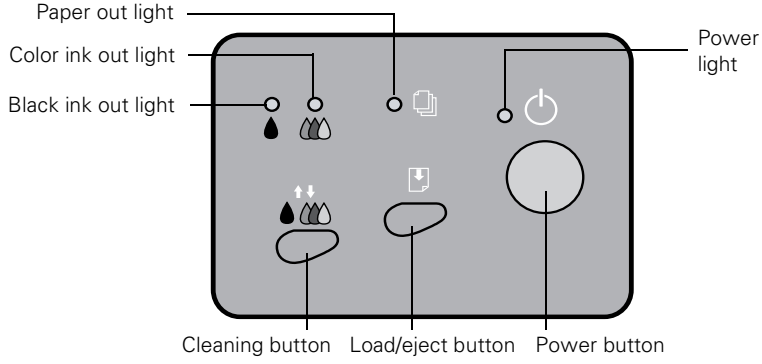
- First see “Diagnosing Printer Problems” below to determine the cause of the problem.
- Then see “Problems and Solutions” on page 51 for solutions to common setup, software, print quality, and paper feeding problems.

It’s a good idea to check EPSON’s web site periodically for possible updates to your printer driver. Visit http://www.epson.com and check the section for your product to see if there is a new driver available, free of charge, for downloading to your computer. Downloading instructions are posted for your convenience.

Diagnosing Printer Problems

You can diagnose some problems by checking the printer’s control panel lights, as described below, or running a printer check, as described on page 49.

Checking the Control Panel Lights



Follow the guidelines on the next page to check the control panel lights.

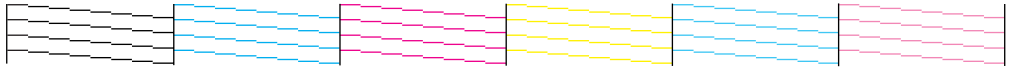
⏻ is on	The ⏻ power light is on when the printer is ready to print. It flashes when the printer is receiving a print job, charging ink, or cleaning the print head.
flashes	When the paper out light flashes, you have a paper jam. Press the load/eject button to try to clear the jam. If that doesn't work, turn off the printer and gently pull out all the paper. Make sure none of the sheets are curled, creased, old, stuck together, or too thin. Then reload the paper against the right edge guide and slide the left edge guide against it. Turn on the printer and press the load/eject button to resume printing. (If you're using roll paper, see page 28 for additional loading instructions.)
is on	When the paper out light comes on, your paper is out or incorrectly loaded. Make sure none of the sheets are curled, creased, old, stuck together, or too thin. Then reload the paper against the right edge guide and slide the left edge guide against it. Press the load/eject button to resume printing. (If you're using roll paper, see page 28 for additional loading instructions.)
or flash	When an ink out light flashes, your ink supply is low. Make sure you have a replacement cartridge.
or are on	When an ink out light comes on, you need to replace the ink cartridge. Make sure you have a replacement cartridge. See page 40 for replacement instructions. If an ink out light comes on after you've replaced a cartridge, you installed a cartridge your printer can't use. Remove it and replace it with the correct type.
⏻ and flash and and are on	When the ⏻ power and paper out lights flash, and both of the ink out lights come on, jammed paper may be blocking movement of the print head. Turn off the printer, open the cover, and check inside for any jammed paper. Then turn the printer back on. If the lights still flash and come on, contact your dealer or EPSON; see page 59 for information.
⏻ flash	When all the lights flash, your printer may have an internal error. Make sure you removed all the packing material as described on the *Start Here* poster in your printer box. Then turn off the printer, wait a few seconds, and turn it on again. If the lights still flash, contact your dealer or EPSON; see page 59 for contact information.
⏻ are off	When all the lights are off, the printer is not receiving power. Try these solutions: ■ Make sure the printer is turned on. ■ Turn off the printer, plug in the power cord securely, and turn on the printer again. ■ Make sure the outlet is operable and is not controlled by a switch or timer. If in doubt, try using another outlet.

Running a Printer Check

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

1. Make sure both the printer and computer are turned off.
2. Disconnect the interface cable from the printer.
3. Make sure letter-size or larger paper is loaded in the printer.
4. Hold down the load/eject button, then press and release the power button. Continue holding down the load/eject button until the power light starts to flash, then release it.

   The printer prints a page showing its ROM version number, ink counter, and a nozzle check pattern. Only the nozzle check pattern is shown below. (If the pattern has gaps or missing dots, you need to clean the print head; see page 37.)



5. To end the check, turn off the printer after it prints the check page. Then reconnect the interface cable and turn on your printer and computer.

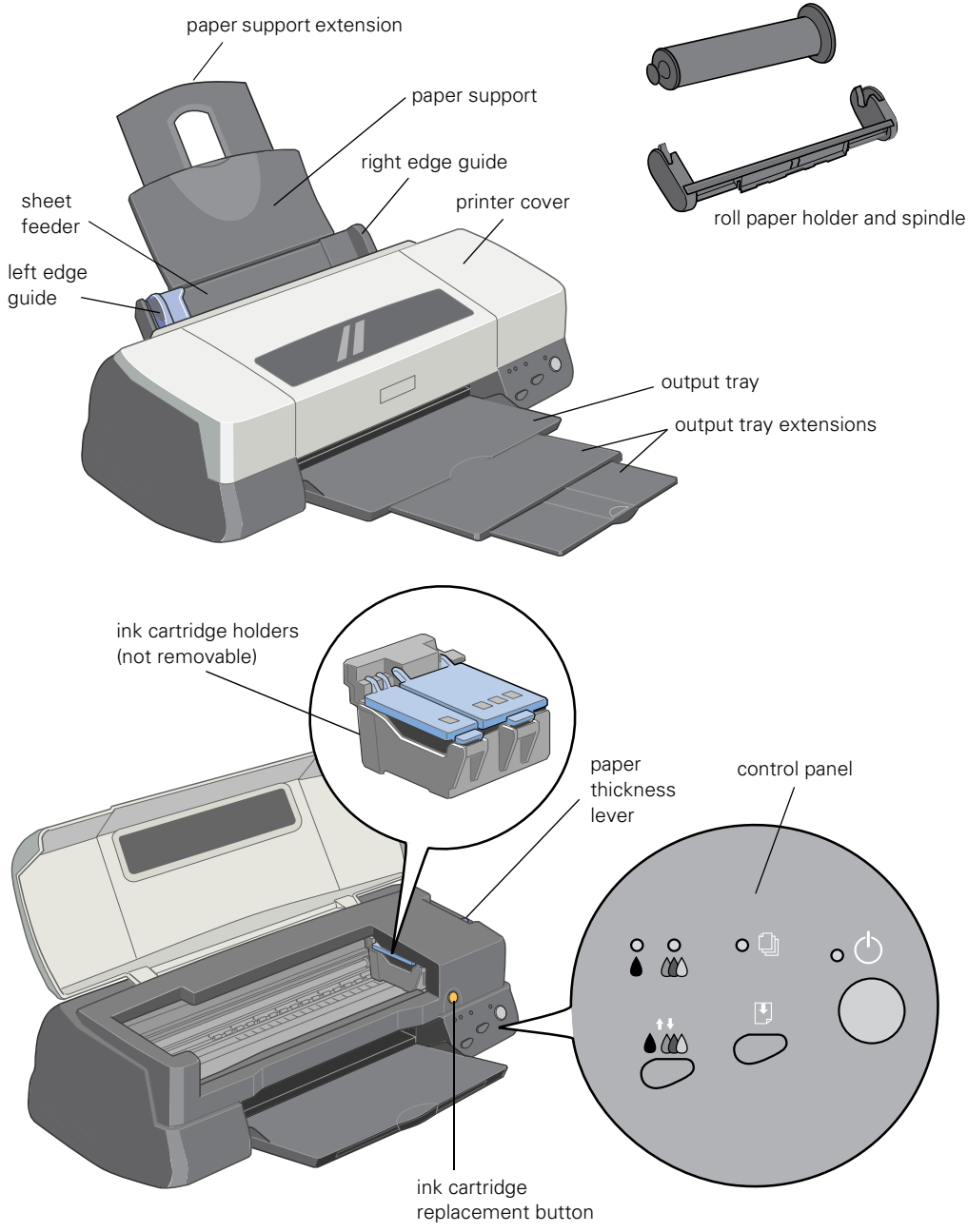
If the check page prints, the problem probably lies in your software settings, the interface cable, or your computer.

If the check page doesn't print, you may have a problem with your printer.

Try the suggestions in "Problems and Solutions" beginning on page 51. If nothing seems to work, contact your dealer or EPSON as described on page 59.

Identifying Printer Parts

If you need help identifying the parts of the printer, refer to these illustrations:



Problems and Solutions

Here are some troubleshooting tips if you have any problems setting up your printer, installing software, getting good print quality, feeding paper, or other problems.

Problems Setting Up the Printer or Installing Software

The printer started making noise after ink cartridge installation.

- The first time you install ink cartridges, the printer must charge its ink delivery system for about three minutes. Wait until charging finishes (the ⏻ power light stops flashing) before you turn off the printer. If you turn off the printer while it's charging, it may charge improperly and use excess ink the next time you turn it on.
- Make sure the ink cartridge clamps are locked down and that no packing material remains in the printer. Turn off the printer, disconnect it from your computer, and turn it on again to clear the error. Then turn it off, reconnect it, and turn it on again.
- If the printer stops moving or making noise, but the ⏻ power light is still flashing after five minutes, turn off the printer. If the light is still flashing when you turn it back on, contact your EPSON dealer or see "Where To Get Help" on page 59.

You're having problems installing the printer software.

- Carefully follow the instructions on the *Start Here* poster.
- Make sure you've closed all other applications, including any screen savers and virus protection software. Then try installing the printer software again.
- Make sure your printer cable is securely connected to the printer and computer.

You're printing over a network.

See your electronic *Reference Guide* for instructions on configuring your printer for use on a network.

Problems with Printing

Only the ⏻ power light is on, but nothing prints.

- Make sure the interface cable is connected securely and that the cable meets the system requirements on page 61 or page 62.
- Run a printer check as described on page 49. If the check page prints, make sure your printer and application software are installed correctly.
- If you're printing on a network, you need to set up your printer for network printing, as described in your electronic *Reference Guide*.

The printer looks and sounds as though it's printing, but nothing prints.

Make sure the print head nozzles are not clogged. To clean the print head, see page 37.

Printing is too slow.

Make sure your system meets the requirements listed on page 61 or page 62. If you're printing a high-resolution image, you need more than the minimum requirements listed.

You may also need to:

- Clear space on your hard disk or run a defragmentation utility.
- Close open applications that you're not using.
- Increase your system's memory (RAM).
- Uninstall and reinstall your printer software if you upgraded to a newer version of Windows.

For the fastest printing, try the following:

- Choose Black ink if your document is black text only.
- Set the Quality/Speed slider to Speed.
- In the printer settings Advanced dialog box, turn Super(x) off, and turn High Speed on.
- If you're using the parallel port, enable ECP/DMA mode on your computer's parallel port for maximum print speeds. See your computer documentation or the manufacturer for instructions.

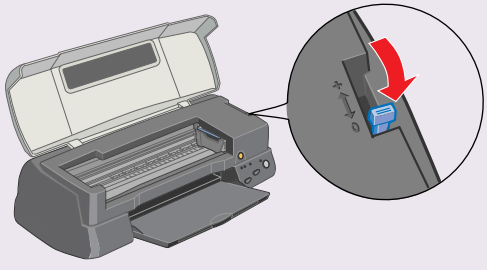
Your printer makes noise when you turn it on or after it has been sitting for a while.

Your printer is performing routine maintenance.

Problems Getting Good Print Quality

You see banding (light lines on the printout).

- Make sure the print head nozzles are not clogged. To clean the print head, see page 37.
- Make sure the Media Type setting matches the paper you loaded. See page 25 for guidelines.
- Make sure the printable side of the paper is face up. It is usually whiter, shinier, or smoother.
- Make sure the paper thickness lever is in the **0** position (shown below). Set it to the **+** position to print on thick paper or envelopes. Also turn off High Speed in the printer settings.



- Make sure an ink cartridge isn't low on ink or too old. Ink cartridges should be used within six months of installing them. To replace an ink cartridge, see page 40.
- Try using Automatic mode. See page 9 (Windows) or page 16 (Macintosh) for instructions.
- Run the Print Head Alignment utility using EPSON photo-quality paper (such as Archival Matte Paper). See page 43 for instructions.

Your printout is grainy.

- If you're printing a black-and-white image, make sure Color is selected as the Ink setting; this provides smoother gradations in grayscale images.
- Make sure you're using one of the EPSON papers designed for your printer.
- Set the Quality/Speed slider to the Quality setting in your printer software; see page 9 (Windows) or page 16 (Macintosh).
- Run the Print Head Alignment utility. See page 43 for instructions.
- You may need to increase the image resolution or print it in a smaller size; see your application software's documentation.

Your printout is blurry or smeared.

- Make sure your paper isn't damp or curled, or loaded face down. If it's damp or curled, reload new paper.
- Use a support sheet or load your paper one sheet at a time.
- Make sure your paper meets the specifications in the electronic *Reference Guide*.
- Use only EPSON papers that are compatible with your printer to ensure proper absorption of EPSON Archival inks. Other papers may not be compatible and could cause ink bleeding or pooling.
- Run the Print Head Alignment utility. See page 43 for instructions.
- Check the paper thickness lever position. If it's in the **+** position, your printer is set for thicker paper or envelopes and your image may smear. For most papers, set the paper thickness lever to the **0** position, as shown on page 53.
- Remove each sheet from the output tray after printing, especially when you're printing on glossier paper.

Your printout is faint or has gaps in the image.

- Make sure the print head nozzles are not clogged. To clean the print head, see page 37.
- Check the control panel lights to see if the ink cartridges are low on ink. To replace an ink cartridge, see page 40.
- Make sure the Media Type setting matches the paper you loaded. See page 25 for guidelines.
- Make sure your paper isn't damaged, old, dirty, or loaded face down. If it is, reload a new sheet with the printable side up; it's usually whiter, shinier, or smoother than the other side.

You see wrong or missing colors.

- Make sure an ink cartridge isn't too old or low on ink. To replace an ink cartridge, see page 40.
- Make sure the Ink setting is set to Color for color images and your application is set for color printing.
- Make sure the print head nozzles are not clogged. To clean the print head, see page 37.
- If you're printing a high-resolution image, turn off PhotoEnhance as described on page 18.
- Try using Automatic mode. See page 9 (Windows) or page 16 (Macintosh) for instructions.
- You may be using a PhotoEnhance special effect that alters image colors, such as Sepia; see page 18.
- No printing system can exactly match your on-screen colors. However, you can use a color management system to get as close as possible. See the advanced color management tips on page 21 and your electronic *Reference Guide*.
- You may be printing a file saved in CMYK format. To print correctly, the file should be saved in RGB format. See the color matching tips on page 20.
- Due to the nature of pigment-based inks, lighting conditions can affect the appearance of your printed output. Generally, colors look more accurate when illuminated by a D50 light source.

You see colored hues in the gray parts of a black-and-white photograph.

On the EPSON Stylus Photo 2000P, grayscale images look best when printed in color mode. Color mode provides the smoothest gradations, but may make some hues noticeable. For best results, make sure the Media Type setting matches the paper you loaded (see page 25) and try one of the following:

- Leave Color as the Ink setting (the EPSON Stylus Photo 2000P is not recommended for neutral black-and-white photography).
- Clean and align your print head, as described on page 37 and page 43.
- If you scanned the image, make sure you calibrated the color correctly with your scanning software.
- Create a color calibration profile with a color management program to improve the image's color balance.

Problems with Paper Feeding

Too many copies are printing.

Make sure you've selected the correct number of copies in your printer settings and application.

Paper doesn't eject fully or is wrinkled.

- If the paper doesn't eject fully, you may have set the wrong paper size. Press the load/eject button to eject the paper. Then select the correct paper size in your application or printer settings.
- If it ejects wrinkled, the paper may be damp or too thin.
- If you're ejecting roll paper, carefully follow the steps in "Removing and Storing Roll Paper" on page 34.

Paper doesn't feed.

Remove the paper and check that:

- It's not curled, creased, or too old.
- It's not loaded above the arrow mark on the left edge guide.
- It's not jammed inside the printer. (If the paper out light is flashing, paper is jammed.)

Reload the paper and don't set the left edge guide too tightly.

If you're loading roll paper, carefully follow the steps in "Loading Roll Paper" on page 28.

Paper jams inside the printer.

Press the load/eject button, turn off your printer, open the cover, and remove all the paper that's inside, including any small pieces that may have torn off.

If your paper jams frequently:

- Use smooth, high-quality paper, loaded printable side up.
- Fan the stack and then even the edges before loading it.
- Don't load paper above the arrow mark on the left edge guide.
- Place the paper against the right edge guide and slide the left edge guide against your paper.

Multiple pages feed at once.

Remove the paper, then:

- Make sure the paper isn't damp or too thin.
- Fan the edges of the stack of paper to separate the sheets.
- Reload the paper and don't set the left edge guide too tightly.

Roll paper feeds too far between images.

Make sure Save Roll Paper is not selected in your printer settings.

Solving Miscellaneous Printout Problems

The margins are incorrect.

- Make sure you've selected the correct paper size in your printer settings. See page 11 (Windows) or page 15 (Macintosh).
- Check your application's instructions on selecting the correct margins for your paper size. The margins must be within the printable area of the page. See "Specifications" in your electronic *Reference Guide* for more information.
- If you're printing on roll paper, make sure you've selected either Roll Paper or Roll Paper–No Margins as your Paper Source to get the margins you want. See page 30 for details.

You see incorrect characters.

- Make sure the interface cable is securely connected and that the cable meets the system requirements on page 61 or page 62. Then try printing again.
- Make sure your printer is selected in your application, or as the Windows default printer or the current printer in the Macintosh Chooser.
- If you're using a switch box with your printer, connect the printer directly to your computer and try printing again.

The image size or position is incorrect.

Make sure the paper and layout options are set correctly; see page 7 (Windows) or page 13 (Macintosh) for instructions on accessing the settings.

The image is inverted, as if viewed in a mirror.

Turn off Flip Horizontal in the Advanced dialog box (see page 19) or the mirror setting in your application software.

The printer prints blank pages.

- Make sure you've selected the correct paper size in your printer settings. See page 11 (Windows) or page 15 (Macintosh).
- Make sure the print head nozzles are not clogged. To clean the print head, see page 37.

Uninstalling Printer Software

If you need to uninstall and then reinstall your printer software, as when upgrading your computer's operating system, follow these steps:

Uninstalling Windows Software

1. Double-click My Computer, then double-click the Control Panel icon.
2. Double-click Add/Remove Programs. Click EPSON Printer Software in the program list.
3. **For Windows 2000:** Click Change/Remove. Then select your EPSON Stylus Photo 2000P printer icon and click OK. Follow the instructions on screen.

   For other Windows systems: Select the EPSON Stylus Photo 2000P printer icon. Click Add/Remove and follow the instructions on screen. If you're using a USB port, click EPSON USB Printer Devices in the program list, then click Add/Remove.
4. Restart your computer.

Uninstalling Macintosh Software

1. Insert your printer software CD-ROM; double-click the EPSON CD-ROM icon if necessary.
2. Double-click Install Printer Driver/Utility, then double-click the Installer icon. Click Continue.
3. On the installer screen, click the arrow in the Easy Install list at the top and select Uninstall. Then click the Uninstall button at the bottom and follow the instructions. When you're finished, click Quit.
4. Restart your Macintosh.

Reinstalling Printer Software

Before reinstalling your printer software, first uninstall it as described above. Then follow the instructions on the *Start Here* poster to reinstall your software. (You won't need to reinstall your electronic *Reference Guide*.)

Where To Get Help

If you need help with your printer or its software, see the contact information below.

For help using any other software on your system, see the documentation for that software for technical support information.

EPSON Technical Support

EPSON provides technical assistance 24 hours a day through the electronic support services and automated telephone services listed in the following table:

Service	Access
World Wide Web	From the Internet, you can reach EPSON Support at **http://www.epson.com**. At this site, you can download drivers and other files, look at documentation such as product brochures and user manuals, and access troubleshooting information.
EPSON Internet FTP Site	If you have Internet FTP capability, use your Web browser (or other software for FTP downloading) to log onto **ftp.epson.com** with the user name **anonymous** and your e-mail address as the password.
EPSON E-MAIL Technical Support	To receive technical advice through e-mail, go to **http://www.epson.com** and complete the form under the troubleshooting tab, as requested.
Automated Telephone Services	A variety of automated help services are available 24 hours a day, seven days a week. To use these services, you must have a touch tone telephone and call **(800) 922-8911**.

To speak directly to a technical support representative, dial:

- U.S.: **(562) 276-7235**, 6 AM to 8 PM, Pacific Time, Monday through Friday and 7 AM to 4 PM, Saturday. Toll or long distance charges may apply.
- Canada: **(905) 709-2567**, 6 AM to 6 PM, Pacific Time, Monday through Friday. Toll or long distance charges may apply.

Before you call, please have the following information ready:

- Product name (EPSON Stylus Photo 2000P)
- Product serial number (located on the back of the printer)
- Proof of purchase (such as a store receipt) and date of purchase
- Computer configuration
- Description of the problem

EPSON Store

You can purchase ink cartridges, paper, manuals, and accessories from EPSON at (800) 873-7766 or by visiting the EPSON Store at www.epsonstore.com (U.S. sales only). In Canada, please call (800) 873-7766 for dealer referral.

Requirements and Notices

This section contains your printer's system requirements and warranty. It also includes important safety instructions that you should follow when using your printer.

System Requirements

Windows

To use your printer and its software, your system should have:

- A Microsoft® Windows compatible PC with a Pentium® processor, 200 MHz or faster, recommended
- Windows 95, Windows 98, Windows Me, Windows 2000, or Windows NT® 4.0
- 64MB of RAM (128MB or more recommended)
- 200MB or more of free hard disk space recommended
- CD-ROM or DVD drive for installing the printer software
- USB connection: a computer running Windows 98, Windows Me, or Windows 2000 with a Windows-compliant USB port and a shielded USB "AB" cable up to 9.8 ft. (3 meters) long.

  Parallel connection: an IEEE-1284 compliant parallel cable, up to 10 feet (3 meters) long.

Using an improperly shielded USB cable—especially a cable more than 9.8 ft. (3 meters) long—may cause the printer to malfunction.

Macintosh

To use your printer and its software, your system should have:

- An Apple® iMac™ series Power Macintosh® G3 or G4 with USB port
- Mac® OS 8.5.1 or later

If your iMac is running OS 8.1, you'll need to upgrade your operating system before connecting the printer to your computer. If your iMac is running OS 8.5.1, Apple recommends that you install iMac Update 1.1, available on the Apple web site. To find out which operating system your Macintosh is running, select About This Computer from the Apple menu.

- 64MB of available RAM (128MB or more recommended)
- 200MB of free hard disk space recommended
- CD-ROM or DVD drive for installing the printer software
- A shielded USB "AB" cable up to 9.8 ft. (3 meters) long.

Using an improperly shielded USB cable—especially a cable more than 9.8 ft. (3 meters) long—may cause the printer to malfunction.

ENERGY STAR Compliance

As an ENERGY STAR Partner, EPSON has determined that this product meets the ENERGY STAR guidelines for energy efficiency. The EPA 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, and copiers in an effort to reduce air pollution caused by power generation.

Important Safety Instructions

Before using your printer, read the following safety instructions to make sure you use the printer safely and effectively:

- Be sure to follow all warnings and instructions marked on the printer.
- Do not place the printer on an unstable surface or near a radiator or heating vent or in direct sunlight.
- Use only the type of power source indicated on the printer's label.
- Connect all equipment to properly grounded power outlets. Avoid using outlets on the same circuit as photocopiers or air control systems that regularly switch on and off.

- Place the printer near a wall outlet where the plug can be easily unplugged.
- Do not let the power cord become damaged or frayed.
- If you use an extension cord with the printer, make sure the total ampere rating of the devices plugged into the extension cord does not exceed the cord's ampere rating. Also, make sure the total ampere rating of all devices plugged into the wall outlet does not exceed the wall outlet's ampere rating.
- Turn off and unplug the printer before cleaning. Clean with a damp cloth only. Do not spill liquid on the printer.

Always turn the printer off using the ⏻ power button. Don't switch off the power strip or unplug the printer until the ⏻ power light is off.

- Do not block or cover the openings in the printer's case or insert objects through the slots.
- Except as specifically explained in this manual, do not attempt to service the printer yourself.
- Unplug the printer and refer servicing to qualified service personnel under the following conditions:

  If the power cord or plug is damaged; if liquid has entered the printer; if the printer has been dropped or the case damaged; if the printer does not operate normally or exhibits a distinct change in performance. Adjust only those controls that are covered by the operating instructions.

Ink Cartridge Safety Instructions

- Keep ink cartridges out of the reach of children and do not drink the ink.
- Do not shake an ink cartridge; this can cause leakage.
- If ink gets on your skin, wash the area thoroughly with soap and water. If ink gets in your eyes, flush them immediately with water.
- Install the ink cartridge immediately after you remove it from its foil package. If you leave a cartridge unpacked for a long time before using it, normal printing may not be possible.
- Do not dismantle the ink cartridges. This could damage the print head.
- Do not touch the green chip on the back of the cartridge. This may inhibit normal operation and printing.
- In these ink cartridges, the IC chip retains a variety of cartridge-related information (such as the amount of ink remaining) so that a cartridge may be removed and reinserted freely. However, each time the cartridge is inserted, some ink is consumed because the printer automatically performs a reliability check.
- If you remove an ink cartridge for later use, be sure to protect the ink supply area from dirt and dust, and store it in the same environment as the printer. Note that there is a valve in the ink supply port, making covers or plugs unnecessary, but care is needed to prevent the ink from staining items that the cartridge touches. Do not touch the ink cartridge ink supply port or the surrounding area.

- Do not use an ink cartridge beyond the date printed on the cartridge carton; otherwise it may result in reduced print quality. For best results, use up the ink cartridges within six months of first installing them.
- Store ink cartridges in a cool, dark place.
- After bringing an ink cartridge inside from a cold storage site, allow it to warm up at room temperature for at least three hours before using it.
- Do not put your hand inside the printer or touch the cartridge during printing.
- Do not move the print head by hand; otherwise you may damage the printer.
- Before transporting the printer, make sure the print head is capped in the far right position and the ink cartridges are in place.

Legal Notices

FCC Compliance Statement

For United States Users

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio or television reception. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio and television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING

The connection of a non-shielded equipment interface cable to this equipment will invalidate the FCC Certification of this device and may cause interference levels which exceed the limits established by the FCC for this equipment. It is the responsibility of the user to obtain and use a shielded equipment interface cable with this device. If this equipment has more than one interface connector, do not leave cables connected to unused interfaces. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

For Canadian Users

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le materiel brouilleur du Canada.

Declaration of Conformity

According to 47CFR, Part 2 and 15 for:
Class B Personal Computers and Peripherals; and/or
CPU Boards and Power Supplies used with Class B
Personal Computers:

We: EPSON AMERICA, INC.

Located at: MS: 6-43
3840 Kilroy Airport Way
Long Beach, CA 90806-2469
Telephone: (562) 290-5254

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR §2.909. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Trade Name: EPSON

Type of Product: Ink Jet Printer

Model: P153A

Epson America, Inc. Limited Warranty

What is Covered: Epson America, Inc. ("Epson") warrants to the first end-user customer that the Epson printer covered by this limited warranty statement, if purchased and used in the United States or Canada, conforms to the manufacturer's specifications and will be free from defects in workmanship and materials for a period of one year from the date of original purchase. Epson also warrants that the consumable ink cartridges enclosed with the printer will perform to the manufacturer's specified usage, which usage may expire before the expiration of the limited warranty for the EPSON printer. For warranty service, you must provide proof of the date of original purchase.

What Epson Will Do To Correct Problems: Should your EPSON printer prove defective during the warranty period, please call the EPSON Connection at (562) 276-7235 (U.S.) or (905) 709-2567 (Canada) for warranty repair instructions and return authorization. An Epson service technician will provide telephone diagnostic service to determine whether the unit requires repair. If service is needed during the warranty period, Epson will, at its option, exchange or repair the unit without charge for parts or labor. If Epson authorizes an exchange for the defective unit, Epson will ship a replacement printer to you, freight prepaid.You are responsible for securely packaging the defective printer and returning it to Epson within five (5) working days of receipt of the replacement unit. You must provide a credit card number to secure the cost of the replacement printer in the event that you fail to return the defective one. If your printer is being repaired, Epson will direct you to send your printer to Epson or its authorized service center.The printer will be fixed and sent back to you. You are responsible for packing the printer and for shipping costs to and from the Epson authorized service center. When warranty service involves the exchange of the product or of a part, the item replaced becomes Epson property. The exchanged product or part may be new or refurbished to the Epson standard of quality. Epson's liability for replacement of the covered product will not exceed the original retail selling price of the covered product. Exchange products or parts assume the remaining warranty period of your original product covered by this limited warranty.

What This Warranty Does Not Cover: This warranty covers only normal use in the United States and Canada. This warranty does not cover damage to the Epson printer caused by parts or supplies not manufactured, distributed or certified by Epson. This warranty does not cover ribbons, ink cartridges or third party parts, components or peripheral devices added to the Epson printer after its shipment from Epson, e.g., dealer or user-added boards or components. Epson is not responsible for warranty service should the Epson label or logo or the rating label or serial number be removed or should the product fail to be properly maintained or fail to function properly as a result of misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as fire, flood, and lightning, improper electrical current, software problems, interaction with non-Epson products, or service other than by an Epson Authorized Servicer. If a claimed defect cannot be identified or reproduced, you will be held responsible for the costs incurred.

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In Canada, warranties include both warranties and conditions.

Some jurisdictions do not allow limitations on how long an implied warranty lasts, and some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from jurisdiction to jurisdiction.

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EPSON Ink Jet Papers

Use EPSON paper and inks to get the same photo quality results that earn EPSON printers all of their awards! These EPSON papers are specially designed to work with the EPSON Stylus Photo 2000P printer. When your images are printed with EPSON Archival™ Ink (the standard ink for your printer) and stored under the right conditions (see page 21), your prints can resist fading for over 200 years.

Archival Matte Paper

Bright, flat-matte finish and smooth surface let you create images with high contrast and sharpness. Perfect for professional-looking photos, graphics, and digital fine art.

Premium Semigloss Photo Paper

Photo-weight paper with a satin-coated surface. Perfect for all photographic applications and available in a variety of sizes, including 4-inch by 26.2-foot rolls.

Watercolor Paper–Radiant White

Looks and feels like textured watercolor papers typically used by artists. Ideal for creating portraits and other photographic images with a soft watercolor tone.

See the inside back cover for a list of EPSON papers and ordering information.

How to Order EPSON Ink and Paper

To order EPSON ink cartridges and paper, or to find out about new types of paper designed for your printer, visit the EPSON Store at www.epsonstore.com (U.S. sales only). You can also contact your dealer or call EPSON at (800) 873-7766. In Canada, please call (800) 873-7766 for dealer referral.

Ink cartridges

Region	Black ink cartridge	Color ink cartridge
U.S.	T015201	T016201
Canada	T015311	T016311

EPSON papers

Paper name	Size	Part number
EPSON Archival Matte Paper	Letter (8 1/2 x 11 inches)	S041341
	A3 (11.7 x 16.5 inches)	S041343
	Super B (13 x 19 inches)	S041339
EPSON Watercolor Paper - Radiant White	Super B (13 x 19 inches)	S041351
EPSON Premium Semigloss Photo Paper	Letter (8 1/2 x 11 inches)	S041331
	Super B (13 x 19 inches)	S041327
	4 inch x 26 ft roll	S041329
EPSON Premium Luster Photo Paper	Letter (8 1/2 x 11 inches)	S041405
	A3 (11.7 x 16.5 inches)	S041406
	Super B (13 x 19 inches)	S041407
	8.3 inch x 32.8 ft roll	S041408
	13.0 inch x 32.8 ft roll	S041409