

Canon

Exif Print

Photo Printer

PIXMA iP1500

Quick Start Guide



Getting Help from Canon

Help Us Help You Better

Before you contact Canon, please record the following information.

Serial Number (located on the inside of the printer): _____

Model Number (located on the front of the printer): _____

Setup Software and User's Guide version number (USCD X.X)
located on the CD-ROM: _____

Purchase Date: _____

Canon U.S.A. Customer Technical Support Sequence*

1. Internet — www.canontechsupport.com

For quick and comprehensive self-help in an intuitively guided interactive troubleshooting environment, the place to start is our helpful tech support web site. In addition, the latest driver downloads, answers to frequently asked questions, product information, and “where to buy” instructions are found here.

2. Email Tech Support — www.canontechsupport.com

For individual attention to a special issue, try emailing our friendly technical engineers, specially trained to communicate quick, easy, and logical solutions to your inquiries within 24 hours.

3. Toll-Free Live Tech Support — (1-800-828-4040)

This option provides live telephone technical support, free of service charges, Monday-Saturday (excluding holidays), during your product's 1 year limited warranty period. Telephone Device for the Deaf (TDD) support is available at (1-866-251-3752).

4. Extended Service and Support — www.canonesp.com

Canon CarePAK Extended Service Plan is a cost-attractive and easy-to-use extended service program that provides up to three full years of service and support coverage at a very attractive price. CarePAK offers toll-free Canon technical support and includes Canon's superb InstantExchange product replacement program. For further information about extending your Canon service and support, call (1-800-385-2155), or visit our Web site at www.canonesp.com. CarePAK must be purchased during your product's warranty period.

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Canon

PIXMA iP1500

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Canon U.S.A., Inc. has reviewed this manual thoroughly in order that it will be an easy-to-use guide to your Canon PIXMA iP1500 Photo Printer. All statements, technical information and recommendations in this manual and in any guides or related documents are believed reliable, but the accuracy and completeness thereof are not guaranteed or warranted, and they are not intended to be, nor should they be understood to be, representation or warranties concerning the products described.

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Basic Printing

 **Note** This *Quick Start Guide* describes some of the features of your iP1500 printer and how to use them. For more information, view the iP1500 *User's Guide* installed on your computer, or use the online help within your printer driver interface:

Windows

While in the printer's Properties window, press the **F1** key, or click  in the upper right corner. Then click the feature you want to know more about, or click **Help** when displayed.

Macintosh

While in the **Page Setup** dialog box or **Print** dialog box, click  in the lower left corner.

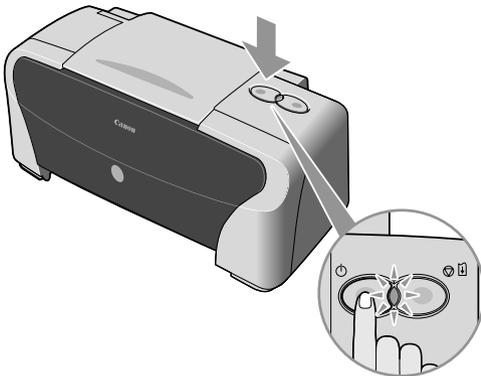
Click  provides detailed information about each setting.

When the Help window appears, select your desired topic.

Turning on the Printer

1 Press the **POWER** button.

The **POWER** lamp flashes while the printer warms up and changes to steady (non-flashing) green when the printer is ready.



- Important**
- Before unplugging the power cord, turn off the printer and ensure that the green lamp has gone out.
 - If the **POWER** lamp changes to orange and begins flashing, refer to the section "**Handling Error Messages**" on page 54.

Loading Paper

■ Print Media to Avoid

Do not use the following types of paper. Using such paper will not only produce unsatisfactory results, but can also cause the printer to jam or malfunction.

- Folded, curled or wrinkled paper
- Damp paper
- Paper that is too thin (less than 64 gsm or 17 lb)
- Paper that is too thick* (more than 105 gsm or 28 lb)

*non-Canon branded paper

- Picture postcards
- Postcards with an affixed photo or sticker
- Envelopes with a double flap
- Envelopes with pressure seals
- Envelopes with an embossed or treated surface
- Paper with holes (such as Loose-leaf paper)

■ Loading Paper

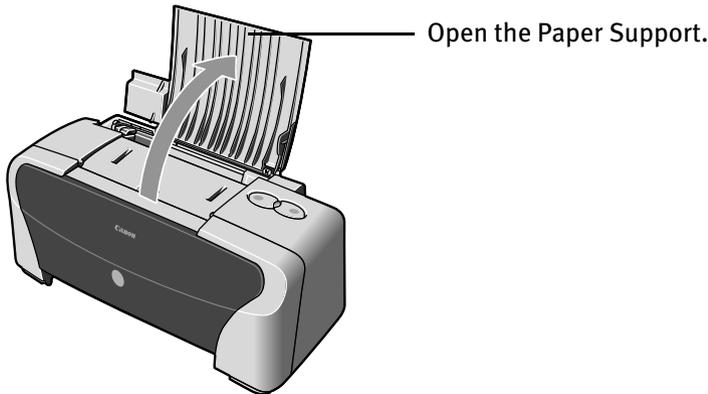
This section describes how to load plain paper into your printer.

- For detailed information on the speciality media Canon provides for use with its various printers, refer to the section "Using Speciality Media" on page 7.
- Consult "Printing Media" in the *User's Guide* for detailed instructions on how to load envelopes and speciality media into the printer.

1 Flatten the four corners of the paper before loading it.

Important When paper is curled, gently bend them in the opposite direction until the paper becomes completely flat.

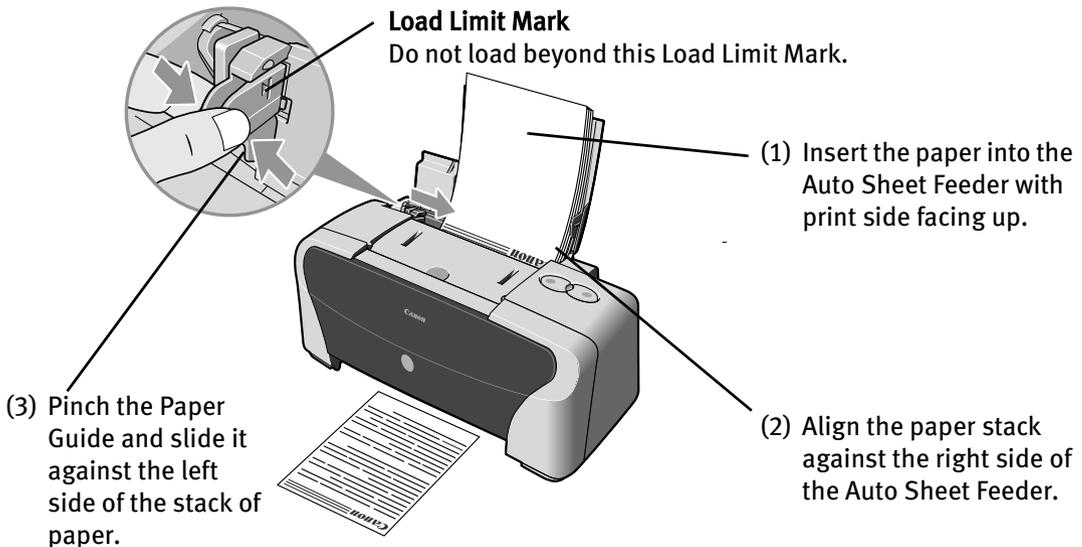
2 Prepare to load paper.



-  **Note**
- Place the printer on a flat surface.
 - Do not place any obstacles in front of the printer to secure the space for paper output. If the Paper Output Slot is stacked with printed sheets, they may be folded or jammed.

3 Load the paper.

■ Loading the Plain Paper

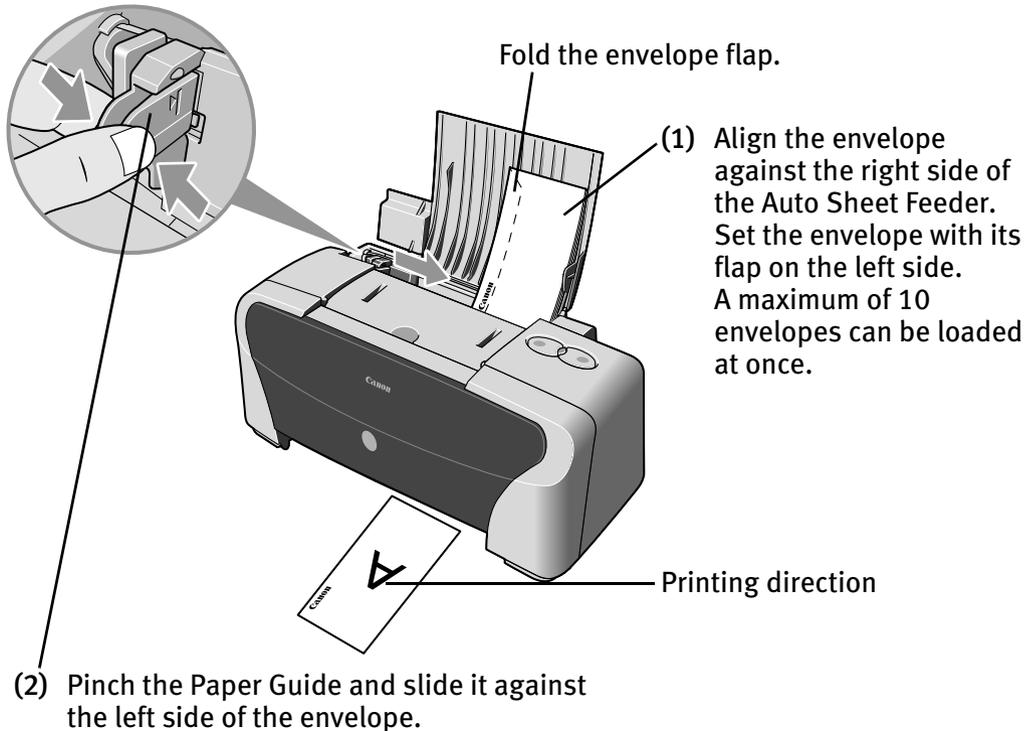


-  **Note**
- Remove the printed papers as necessary from the Paper Output Slot.
 - Do not touch the printed surfaces until the ink dries. For specific drying times, refer to the instructions packaged with your media.

■ Loading the Envelopes

Use either DL or US Comm. #10 size envelopes.

- Important**
- Do not use the envelopes with embossed or treated surface, with a double flap or pressure seals, with sticker flaps.
 - Select either **DL Env.** or **Comm. Env. #10** According to the envelope size you are using.

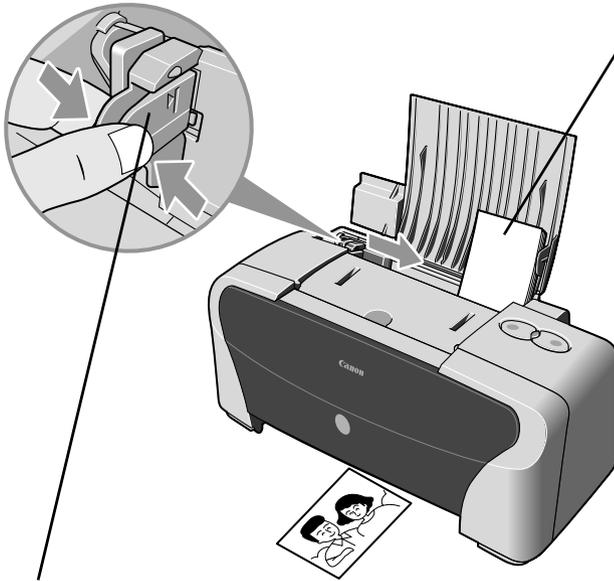


- (3) Select **Envelope** in **Media Type**, and then select **Comm. Env. #10** or **DL Env.** in **Page Size**.

For the printer driver setting, refer to "Printing with Windows" on page 9, "Printing with Macintosh" on page 11.

■ Loading the 4" x 6" size papers

You can print on the 4" x 6" size papers.



- (1) Align the paper stack against the right side of the Auto Sheet Feeder. Despite the direction of the photograph, load the paper in the vertical direction. You can load a maximum of 20 papers in 4" x 6" size.

- (2) Pinch the Paper Guide and slide it against the left side of the stack of paper.
- (3) Select 4 x 6 in in **Page Size**.

For the printer driver setting, refer to "Printing with Windows" on page 9, "Printing with Macintosh" on page 11.

Using Speciality Media

Canon recommends that you use genuine Canon media to ensure optimal print quality.

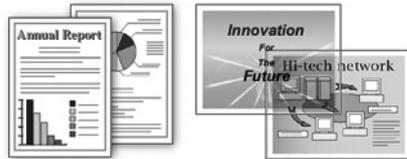
■ Photo Quality Media

- Photo Paper Pro
- Photo Paper Plus Glossy
- Photo Paper Plus Double Sided
- Photo Paper Plus Semi-Gloss
- Matte Photo Paper
- Glossy Photo Paper



■ Media Suited to Business Documents

- High Resolution Paper
- Transparencies



■ Canon Speciality Media

Media Name	Paper Support Load Limit	Printer Driver Settings for Media Type
Photo Paper Pro	Letter: up to 10 sheets* 4"×6": up to 20 sheets	Photo Paper Pro
Photo Paper Plus Glossy	Letter: up to 10 sheets* 5"×7": up to 10 sheets 4"×6": up to 20 sheets	Photo Paper Plus Glossy
Photo Paper Plus Double Sided	Letter: 1 sheet 5"×7": 1 sheet	Photo Paper Plus Double Sided
Photo Paper Plus Semi-Gloss	Letter: up to 10 sheets* 4"×6": up to 20 sheets	Photo Paper Plus Glossy
Matte Photo Paper	Letter: up to 10 sheets	Matte Photo Paper
Glossy Photo Paper	Letter: up to 10 sheets* 4"×6": up to 20 sheets	Glossy Photo Paper
High Resolution Paper	Letter: up to 80 sheets	High Resolution Paper
T-Shirt Transfers	1 sheet	T-Shirt Transfer
Transparencies	Up to 30 sheets*	Transparency

-  **Note**
- When using plain paper (64 gsm or 17 lb), up to 100 sheets can be set. Select **Plain Paper** from the printer driver **Media Type**.
 - For detailed description of print media types, refer to “Printing Media” in the *User’s Guide*.
 - * When paper cannot be fed normally, load the necessary number of sheets in the Auto Sheet Feeder with them separating from each other to avoid them from sticking together.
For instructions on how to print from the software applications, refer to the *Photo Application Guide*.

Windows

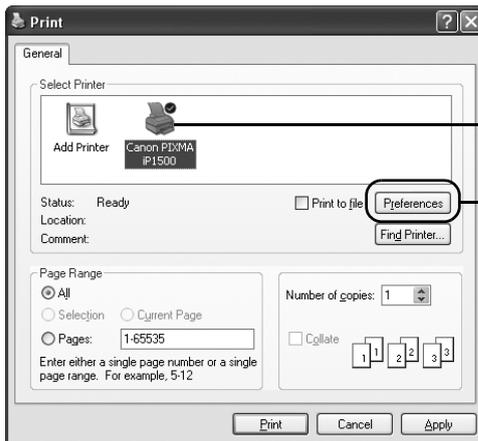
Printing with Windows

-  **Note**
- The menu screens and dialog boxes that appear may vary, depending on the software application you are using.
 - The steps described in this section are for printing in Windows XP.

1 Create a document or open a file to print.

2 Open Printer Properties dialog box.

(1) Select **Print** from the application software's **File** menu.



(2) Ensure that **Canon PIXMA iP1500** is selected.

(3) Click **Preferences** or **Properties**.

-  **Note** In Windows 2000, click the **Main** tab in the **Print** dialog box.

3 Specify the required settings.



(1) Click **Media Type** to select the media loaded in the printer.

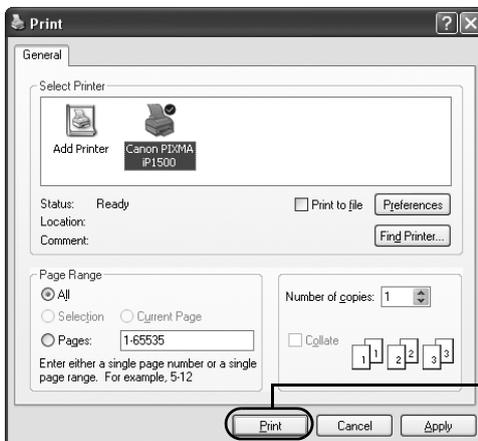
(2) Click **OK**.



Note

- From the **Page Setup** tab select the correct document size to be printed.
- To adjust Print Quality settings, select **Custom** and click **Set** on the **Main** tab. You can control quality in the **Set Print Quality** dialog box.
- For details about other printer driver functions, refer to “Printer Driver Functions” in the *User’s Guide* or Help.
- Select **Preview before printing** by clicking the check box. This displays a preview screen that allows you to confirm the selected printing effects and how your document will look when printed. Some applications do not contain the function to display the preview.

4 Print the document.



(1) Click **Print**.

-  **Note**
- You can cancel a print job in progress by simply pressing the **RESUME/CANCEL** button on the printer.
See "Canceling Printing" on page 13.
 - Click **Cancel Printing** on BJ Status Monitor to stop printing. To show BJ Status Monitor, click **Canon PIXMA iP1500** on the taskbar. BJ Status Monitor opens automatically when a printer error occurs.

Macintosh

Printing with Macintosh

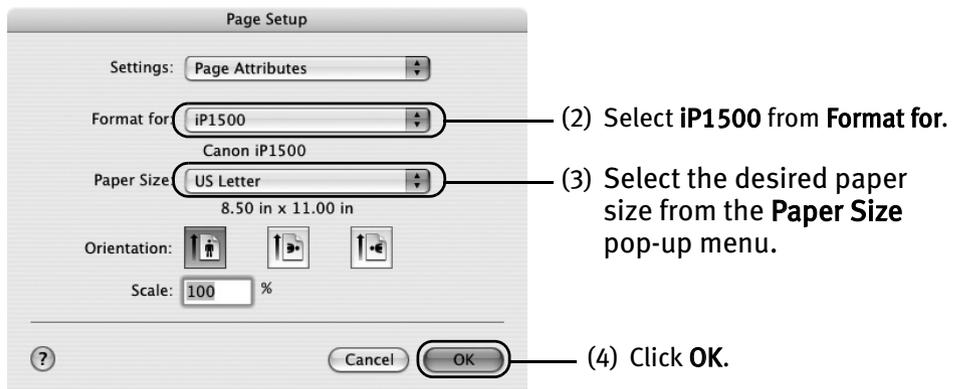
-  **Note**
- The menu screens and dialog boxes that appear may vary, depending on the software application you are using.
 - The steps described in this section are for printing in Mac OS X v.10.3.

1 Create a document or open a file to print.

2 Select Paper Size.

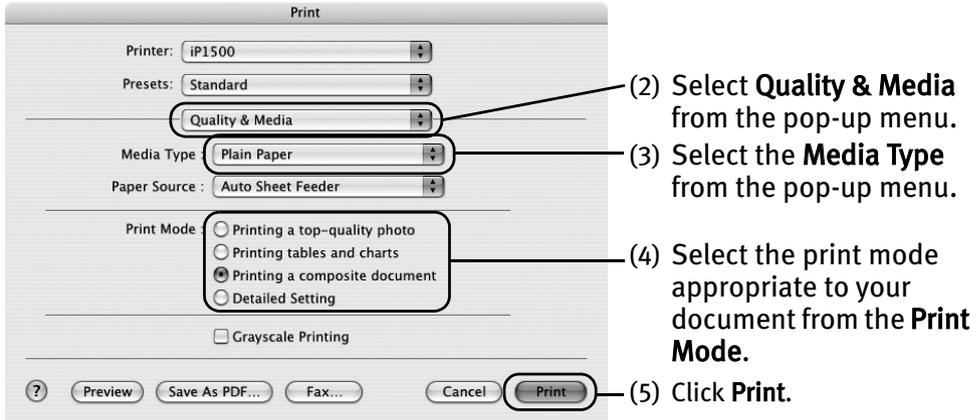
(1) Select the **Page Setup** from the application software's **File** menu.

Page Setup dialog box opens.



3 Specify the required settings.

- (1) Select **Print** from the application software's **File** menu.



-  **Note**
- When you select the print mode appropriate to your document from the **Print Mode**, the document will be printed in color and print quality suited to the characteristics of the **Media Type** you have selected.

Printing a top-quality photo: Select when printing documents consisting mainly of photographs and graphics featuring fine color gradation.

Printing tables and charts: Select when printing documents consisting mainly of graphs and graphics (illustrations) with strong color definition.

Printing a composite document: Select when printing documents consisting mainly of text.

Detailed Setting: You can fine-tune the Print Quality and Halftoning settings.

See "Adjusting Print Quality" on page 15.

- For details about other printer driver functions, refer to "Printer Driver Functions" in the *User's Guide* or Help.
- Double-clicking the name of your printer in the Printer list displays a dialog that prompts you to confirm the status of the print job(s). To cancel a job in progress, select the desired document, then click **Delete**. To temporarily stop a job in progress, click **Pause**. To cancel all the jobs in the list, click **Stop Printing**.

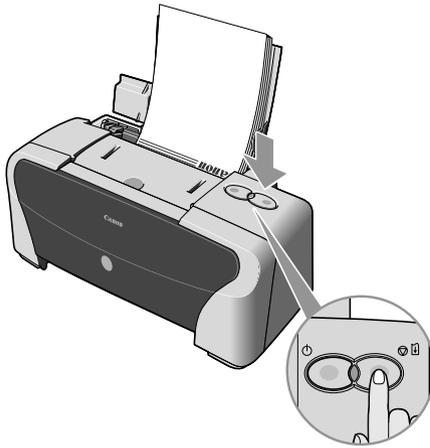
Windows

Canceling Printing

You can cancel a print job while printing with the **RESUME/CANCEL** button on the printer.

- 1** Press the **RESUME/CANCEL** button while printing.

Printing is canceled and paper is fed out.



Advanced Printing

Accessing Printer Driver

The **Printer Properties** dialog box can be opened from either within an application, or directly from the Windows **Start** menu.

-  **Note**
- This manual refers to Windows XP operation. The operations may vary depending on your operating system.
 - Depending on your application program, the command and menu names may differ, and there may be more steps involved in opening the **Printer Properties** dialog box. For more details, see the user's manual for your application.

■ Opening the Printer Properties Dialog Box from Your Application Program

- 1** In your application, select the command to print a document.

The **Print** dialog box can usually be opened by selecting **Print** from the **File** menu.

- 2** Ensure that the Canon PIXMA iP1500 is selected. Then click **Preferences (or Properties)**.

The **Printer Properties** dialog box opens.

■ Opening the Printer Properties Dialog Box Directly from the Start Menu

This method is used for maintenance operations such as Print Head cleaning, or to specify printer settings common to all application programs.

When the **Printer Properties** dialog box is opened from the **Start** menu, additional tabs appear, including the **Details** tab. These do not appear when the **Printer Properties** dialog box is opened from within an application.

For more information about these additional tabs, refer to your Windows documentation.

- 1** Click **Start** and select **Control Panel, Printers and Other Hardware**, and then **Printers and Faxes**.

For non-Windows XP users, click **Start**, select **Settings**, and then **Printers**.

- 2** Select the Canon PIXMA iP1500 icon.

3 Open the File menu and select Printing Preferences (or Properties).

The **Printer Properties** dialog box opens.

Adjusting Print Quality for Photographs

■ Improving Printed Images

Two important factors control the quality and output of your printed images:

Paper and Ink

Using recommended Canon paper, speciality media, and inks for printing photographs can significantly improve the quality of your printouts. See inside the back cover for a list of Canon media and inks for this printer.

For more detailed information, refer to “Printing Media” in the *User's Guide*.

Printer Driver Settings

The printer driver has a variety of settings that can be used to enhance the colors and output of your photographs. Many of these features are covered in this chapter.

 **Note** You can also access the online help in either of the following ways depending on your operating system:

Windows

- Press the **F1** key
- Click  in the upper right corner, then click the feature you want to know more about.
- Click **Help** when displayed.

Macintosh

- Click  in the **Page Setup** dialog box or the **Print** dialog box.

■ Adjusting Print Quality

Features that affect the appearance and quality of your printed images can be controlled with the printer driver.

The iP1500 automatically adjusts printer settings to improve print quality based on the media type (plain paper, Photo Paper Pro, and so on). You can also customize the **Print Quality** settings if desired.

To manually adjust Print Quality settings:

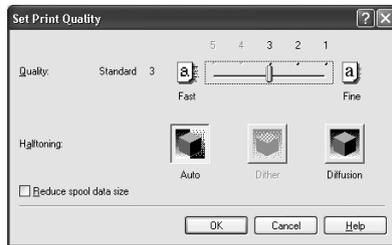
Windows

- 1 Open the Printer Properties dialog box.

See "Opening the Printer Properties Dialog Box from Your Application Program" on page 14.

- 2 Select Custom in Print Quality, then click Set... to open the Set Print Quality dialog box.

- 3 Move the slide bar to adjust the Print Quality.



- 4 When the process is complete, click OK.

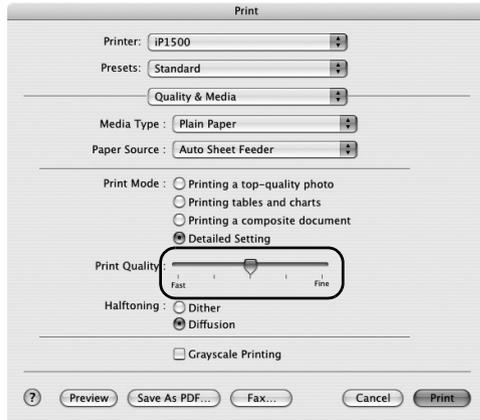
Macintosh

- 1 Open the Print dialog box.

See "Printing with Macintosh" on page 11.

- 2 Select Quality & Media from the pop-up menu, and then click Detailed Setting.

3 Move the slide bar to adjust the Print Quality.



4 When the process is complete, click OK.

To automatically optimize the image:

Photo Optimizer PRO automatically adjusts the photographic image created with a digital camera. Use this feature to compensate for unsatisfactory color balance and over- or under-exposure before printing.

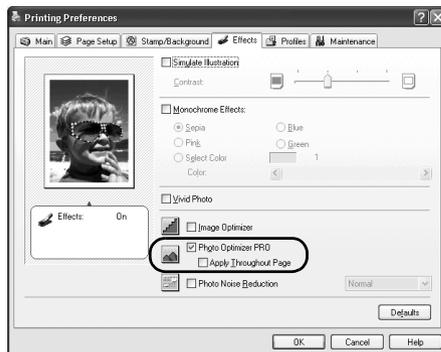
Windows

1 Open the Printer Properties dialog box.

See "Opening the Printer Properties Dialog Box from Your Application Program" on page 14.

2 Click the Effects tab.

3 Select the Photo Optimizer PRO check box.



4 Click OK.

To use Vivid Photo option:

Vivid Photo intensifies background colors such as fields, trees, oceans and skies, while maintaining natural skin tones in the images.

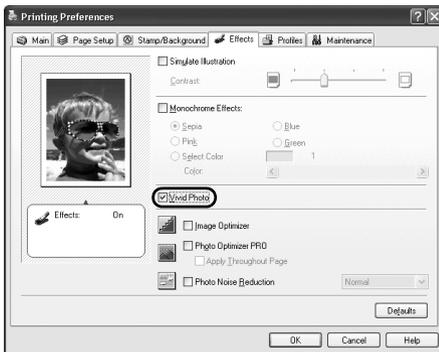


Note In Windows Me or Windows 98

If Background Printing has been disabled, the Vivid Photo function is not available.

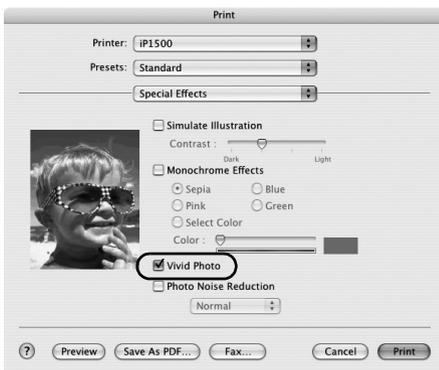
Windows

To use Vivid Photo, select the **Vivid Photo** check box on the **Effects** tab.



Macintosh

To use Vivid Photo, select the **Vivid Photo** check box under **Special Effects**.



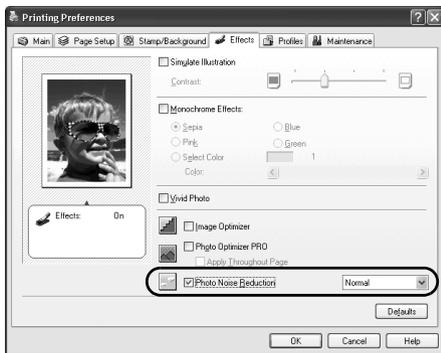
To reduce noise from images captured with a digital camera:

Photo Noise Reduction function reduces noise from blue portions, such as the sky and dark portions of the images captured with your digital camera.

 **Note** In **Windows Me** or **Windows 98** If Background Printing has been disabled, the Photo Noise Reduction function is not available.

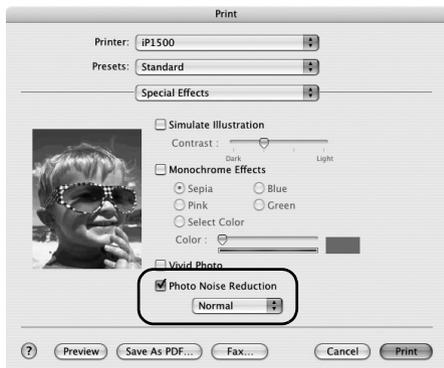
Windows

To use Photo Noise Reduction, select the **Photo Noise Reduction** check box on the **Effects** tab.



Macintosh

To use Photo Noise Reduction, select the **Photo Noise Reduction** check box under **Special Effects**.



■ Saving and Recalling Driver Settings

When you change printer driver settings for a specific print job, such as printing black and white photos, or printing documents with a special background, you can save and name these settings for future use on similar print jobs.

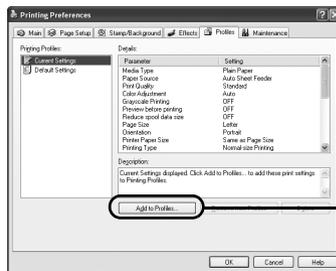
Windows

1 Open the Printer Properties dialog box.

See "Opening the Printer Properties Dialog Box from Your Application Program" on page 14.

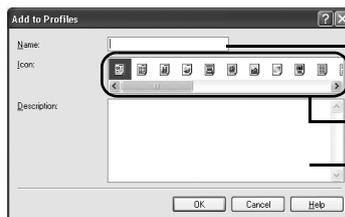
2 Click the Profiles tab.

3 Enter new settings in Profiles.



(1) Click **Add to Profiles**.

The **Add to Profiles** dialog box opens.



(2) Enter the name of profile for registering settings.

(3) Select an icon.

(4) Enter a description on the registering profile.

4 Click OK.

5 Click OK on the Profiles tab.

This registers your printer driver print settings.

 **Note** You can retrieve or delete the print settings profile at any time.

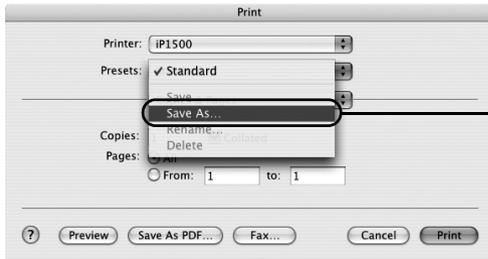
Retrieving profile: Select the desired profile from **Printing Profiles**, and click **Retrieve from Profiles**.

Deleting unwanted profile: Select the desired profile from **Printing Profiles**, and click **Delete**.

For details, click **Help** and refer to the topic of this function.

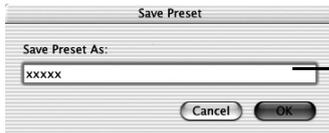
Macintosh

- 1 Open the Print dialog box.
See "Printing with Macintosh" on page 11.
- 2 Select all of the necessary settings.
- 3 Register new printer driver settings.



(1) Select **Save As** from the pop-up menu.

Save Preset dialog box opens.



(2) Enter a name of your printer driver settings.

- 4 Click OK.
This registers your printer driver settings.

 **Note** You can retrieve or change the saved driver settings at any time.

Retrieving print settings: Select the name of the print settings to retrieve from the **Presets** in the **Print** dialog box.

Changing drivers settings: When registered print settings are selected, you can delete them or change their name.

Using the Bundle Software

The *Setup Software & User's Guide CD-ROM* includes photo applications designed to edit the photographs taken by a digital camera and print them as photo-lab quality prints. Please use the application(s) suitable for your print purposes.



- Note**
- To install applications, refer to the *Easy Setup Instructions*.
 - For details about photo applications, refer to the *Photo Application Guide*.

■ Easy-PhotoPrint (Windows*/Macintosh)

You can make a Borderless Print easily and quickly, just by selecting a photograph taken with a digital camera and the paper type on which to print. Also it has tools to correct red eye caused by the camera's flash or smooth and beautify the facial skin. It is compatible with Exif Print**.

■ PhotoRecord (Windows*)

You can create fun and unique photo albums with the decorative themes such as frame, background, and clip-art. You can also copy or move the decorated photos. It is compatible with Exif Print**.

For more information on the applications, refer to the *Photo Application Guide*.

- * Windows XP, Windows 2000, Windows Me, and Windows 98 are supported.
- ** Exif Print is the worldwide standard. Under Exif Print, the digital camera can record data tags for specific camera settings and functions such as whether the flash was on or off, if the camera was in portrait or night scene mode, etc. Canon BJ Printers support Exif Print and use a suitable photo application to read the camera data precisely, producing optimal prints. This enables you to create prints that reproduce your vision more accurately than ever before.

Printing Borderless Photographs

This chapter describes the steps used to print from photo applications included with your *Setup Software and User's Guide CD-ROM* using the Borderless Printing mode.

 **Note** **Media Types Suitable for Borderless Printing**
Media types compatible with Borderless Printing include

- Photo Paper Plus Glossy (LTR, 4"×6", 5"×7")
- Photo Paper Plus Semi-Gloss (LTR, 4"×6")
- Photo Paper Pro (LTR, 4"×6")
- Matte Photo Paper (LTR)
- Glossy Photo Paper (LTR, 4"×6")
- Photo Paper Plus Double Sided (LTR, 5"×7")

 **Note** You can edit images taken with a digital camera by using the Red-Eye Correction function and Digital Face Smoothing function and print them with Easy-PhotoPrint. For more information, refer to the *Photo Application Guide*.

Follow the steps below to create color prints of digital camera photographs with Easy-PhotoPrint using the Borderless Printing function. This chapter describes the steps used to print borderless photos with Easy-PhotoPrint under Windows XP. The steps used under Macintosh are basically the same. Easy-PhotoPrint supports Exif Print. Easy-PhotoPrint can handle only JPEG files (file name extension: .jpg and .jpeg).

1 Start Easy-PhotoPrint.

- (1) Store the photographs you took with your digital camera in the folder on the hard disk.

This section describes how to print photographs stored in the folder on the hard disk.

- (2)  Click **Start**, select **All Programs** (or **Programs**), **Canon Utilities**, **Easy-PhotoPrint**, and then **Easy-PhotoPrint**.



Double-click the hard disk icon, the **Applications** folder, the **Easy-PhotoPrint** folder, and then double-click the **Easy-PhotoPrint** icon.

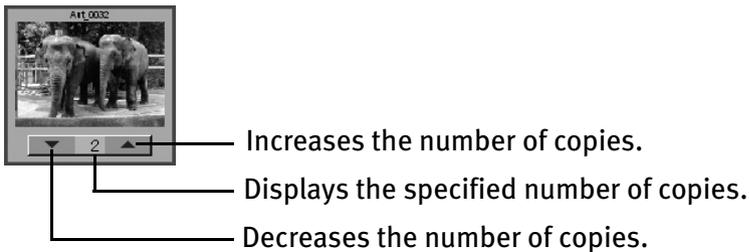
The  **Image Selection** sheet is displayed.

2 Select photographs.

- (1) Select the folder containing the photograph you want to print. All photographs in the selected folder are displayed.

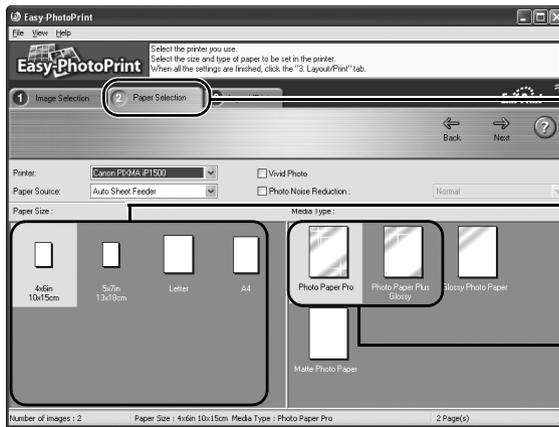


- (2) Click [▲] on the thumbnail of the photograph you want to print and specify the number of copies.



 **Note** Clicking the **Correct/Enhance** button on the **1 Image Selection** tab, allowing you to edit and enhance the photos to be printed. For more information, refer to the *Photo Application Guide*.

3 Select the paper.



(1) Click the **2 Paper Selection** tab.

(2) Select the size of the paper you use from **Paper Size**.

(3) Select the type of the paper you use from **Media Type**.

4 Select the layout.



(1) Click the **3 Layout/Print** tab.

(2) Select **Borderless (full)**.

Note Clicking the **Correct/Enhance** button on the **3 Layout/Print** tab, allowing you to edit and enhance the photos to be printed. For more information, refer to the *Photo Application Guide*.

(3) Load the media specified in the **2 Paper Selection** tab.

(4) **Windows**
Click **Print**.

Macintosh

Click **Print**. When the confirmation message is displayed, click **OK**. Click **Print** in the **Print** dialog box.

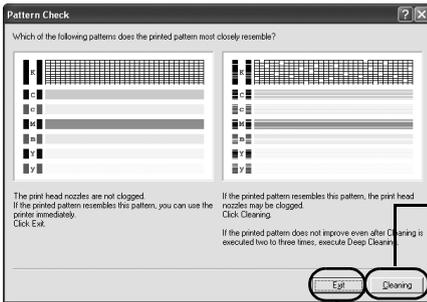
Printing Maintenance

When Printing Becomes Faint or Colors are Incorrect

When printing becomes faint or colors are incorrect, the Print Head Nozzles are probably clogged. Follow the procedures below to clean the nozzles.

Step 1

"Printing the Nozzle Check Pattern" on page 27



After Print Head cleaning, print the nozzle check pattern.

If the print quality is poor, perform Print Head cleaning

If the pattern is printed normally, click Exit.

Step 2

"Print Head Cleaning" on page 31

If the problem remains after performing Print Head cleaning three times

Step 3

"Print Head Deep Cleaning" on page 34

If the problem still remains

Step 4

"Replacing an Ink Tank" on page 41



Note

- If ruled lines are printed misaligned, adjust the Print Head position. See "Aligning the Print Head" on page 37.
- If ink tank replacement does not resolve the problem, the Print Head may be worn out. Contact the Customer Care Center.

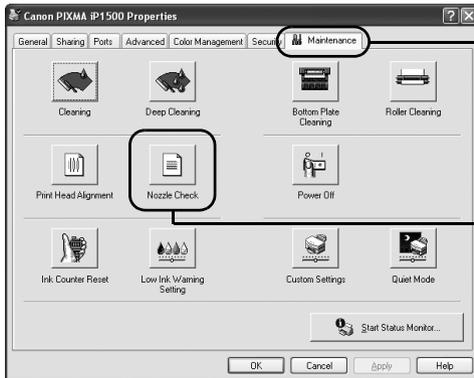
Printing the Nozzle Check Pattern

Print the nozzle check pattern to determine whether the ink ejects properly from the Print Head Nozzles. Use this function when printed results are blurred or the color is incorrect.

■ Printing the Nozzle Check Pattern

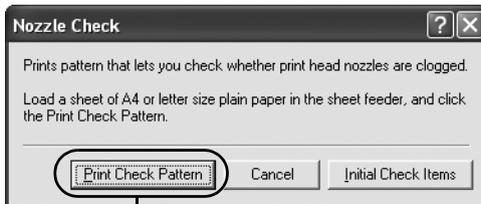
Windows

- 1 With the printer on, load a sheet of Letter-sized plain paper in the printer.
- 2 Open the **Printer Properties** dialog box.
See "Opening the Printer Properties Dialog Box Directly from the Start Menu" on page 14.
- 3 Print the Nozzle Check Pattern.



(1) Click the **Maintenance** tab.

(2) Click **Nozzle Check**.



(3) Click **Print Check Pattern**.

 **Note** Click the **Initial Check Items** button. Confirmation message for printing the nozzle check pattern is displayed.

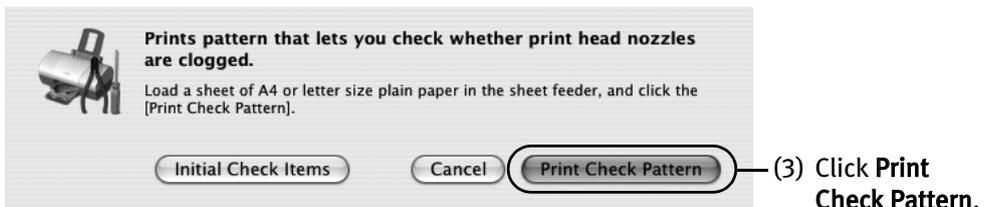
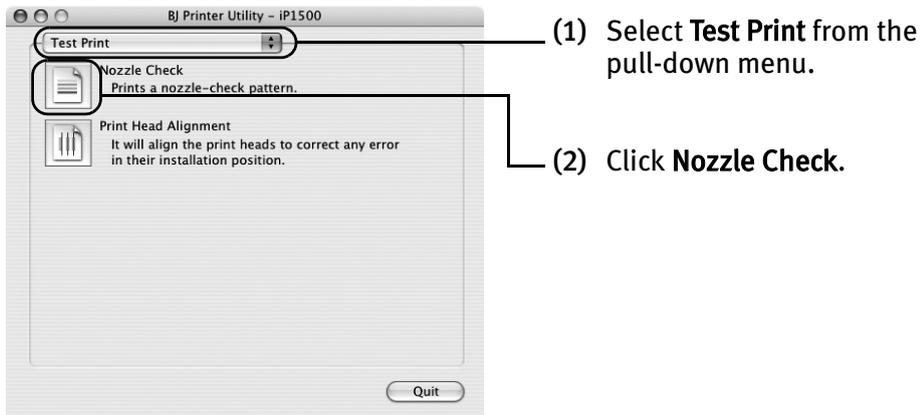
- (4) When the confirmation message is displayed, click **OK**.
- (5) Confirm the nozzle check pattern.

See "Examining the Nozzle Check Pattern" on page 29.

- (6) If you want to start Print Head cleaning, click **Cleaning** on the **Pattern Check** screen. Otherwise, click **Exit** to finish.

Macintosh

- 1** With the printer on, load a sheet of Letter-sized plain paper in the printer.
- 2** Open the **BJ Printer Utility** dialog box.
 - (1) Double-click the hard disk icon where the printer driver was installed, the **Applications** folder, and then the **Utilities** folder.
 - (2) Double-click the **Printer Setup Utility** icon.
If you are using the OS other than Mac OS X v.10.3, double-click the **Print Center** icon.
 - (3) Select **iP1500** from the **Name** list and click **Utility** or **Configure**.
 - (4) Select **iP1500** from the **Product** list and click **Maintenance**.
- 3** Print the Nozzle Check Pattern.



 **Note** Click the **Initial Check Items** button. Confirmation message for printing the nozzle check pattern is displayed.

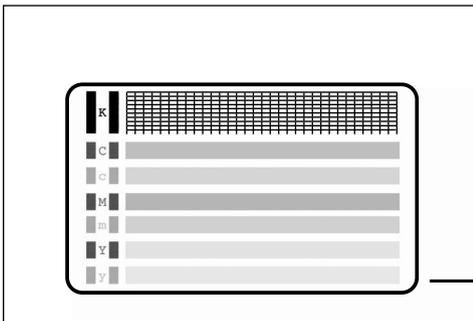
(4) Confirm the nozzle check pattern.

See "Examining the Nozzle Check Pattern" on page 29.

(5) If you want to start Print Head cleaning, click **Cleaning** on the **Pattern Check** screen. Otherwise, click **Quit** to finish.

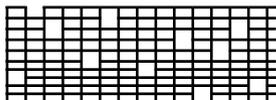
■ Examining the Nozzle Check Pattern

The nozzle check pattern should appear as follows when ink is discharged properly. Examine the nozzle check pattern output by the printer.

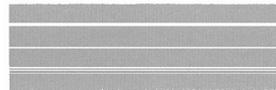


Lines missing or white stripes in this pattern require running Print Head cleaning. See "Print Head Cleaning" on page 31.

When with lines missing (black ink)



When white stripes appear (color ink)



 **Note** If the ink level is low, the nozzle check pattern is not printed properly.

Replace an ink tank.

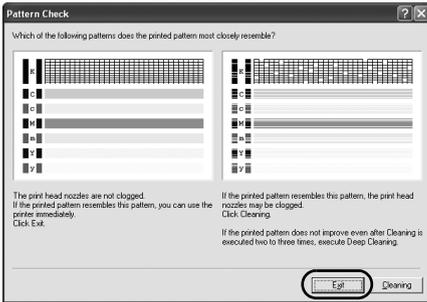
See "Replacing an Ink Tank" on page 41.

Lines missing or white stripes in this pattern require running Print Head cleaning.

Click the **Cleaning** button on the **Pattern Check** screen to proceed to Print Head cleaning.

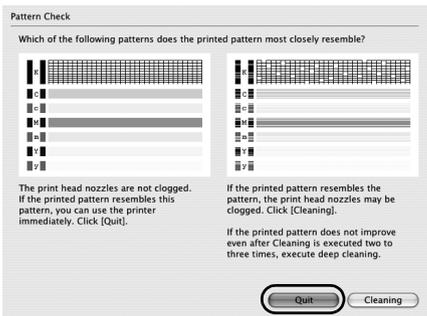
See "Print Head Cleaning" on page 31.

Windows



If there are neither missing lines nor white stripes in the nozzle check pattern, click **Exit** to finish the nozzle check.

Macintosh



If there are neither missing lines nor white stripes in the nozzle check pattern, click **Quit** to finish the nozzle check.

Print Head Cleaning

If missing lines or white stripes are found in the printed nozzle check pattern, perform Print Head cleaning to unclog the Print Head Nozzles. Cleaning the Print Head consumes ink, so perform Print Head cleaning only when necessary.

Note If you pressed the Cleaning button on the Examining the Nozzle Check Pattern screen displayed after nozzle check pattern printing, start the Print Head cleaning procedure from 3-(3).

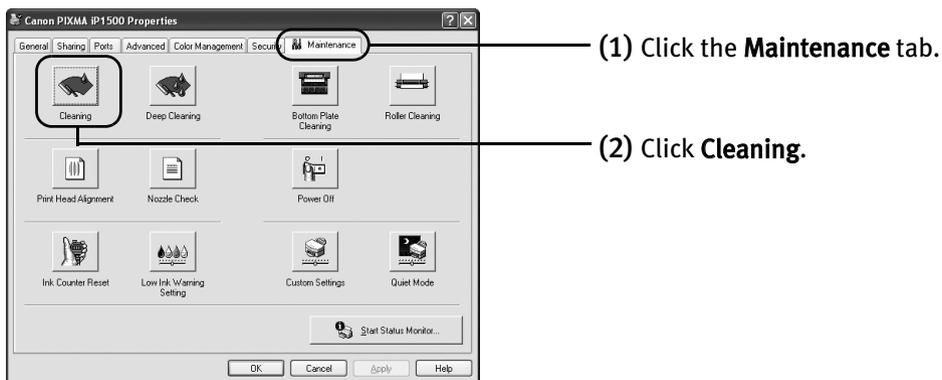
Windows

1 Ensure that the printer is turned on.

2 Open the Printer Properties dialog box.

See "Opening the Printer Properties Dialog Box Directly from the Start Menu" on page 14.

3 Start Print Head Cleaning.



(3) When the confirmation message is displayed, click **OK**.

Important Do not perform any other operations until the Print Head cleaning finishes. This takes about 40-50 seconds.

(4) If you want to print the nozzle check pattern, click **Print Check Pattern**. Otherwise, click **Cancel** to finish.

See "Examining the Nozzle Check Pattern" on page 29.

Macintosh

1 Ensure that the printer is turned on.

2 Open the BJ Printer Utility dialog box.

(1) Double-click the hard disk icon where the printer driver was installed, the **Applications** folder, and the **Utilities** folder.

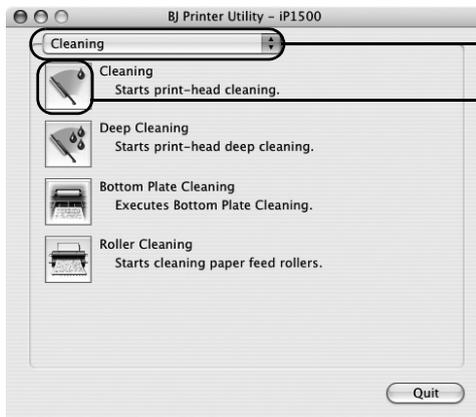
(2) Double-click the **Printer Setup Utility** icon.

If you are using the OS other than Mac OS X v.10.3, double-click the **Print Center** icon.

(3) Select **iP1500** from the **Name** list and click **Utility** or **Configure**.

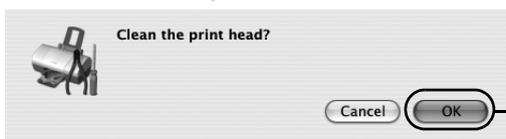
(4) Select **iP1500** from the **Product** list and click **Maintenance**.

3 Start Print Head Cleaning.



(1) Select **Cleaning** from the pop-up menu.

(2) Click **Cleaning**.



(3) When the confirmation message is displayed, click **OK**.

Important Do not perform any other operations until the Print Head cleaning finishes. This takes about 40-50 seconds.

- (4) If you want to print the nozzle check pattern, click **Print Check Pattern**. Otherwise, click **Cancel** to finish.

See "**Examining the Nozzle Check Pattern**" on page 29.



Note

- If this does not solve the problem, clean the Print Heads again, up to three times.
- After Print Head cleaning finishes, print the nozzle check pattern to verify that the Print Head Nozzles are clean.

See "**Printing the Nozzle Check Pattern**" on page 27.

- If the problem remains, try Print Head deep cleaning.

See "**Print Head Deep Cleaning**" on page 34.

Print Head Deep Cleaning

If print quality does not improve by standard Print Head cleaning, try Print Head deep cleaning, which is a more powerful process. Print Head deep cleaning consumes more ink than standard Print Head cleaning, so perform this procedure only when necessary.

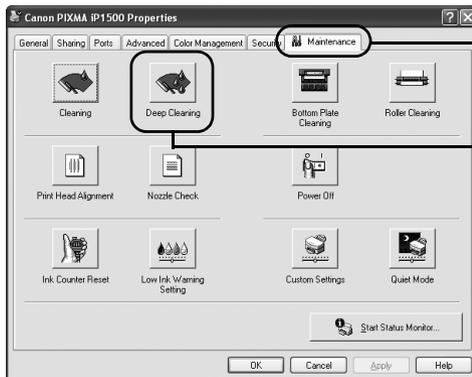
Windows

1 Ensure that the printer is turned on.

2 Open the Printer Properties dialog box.

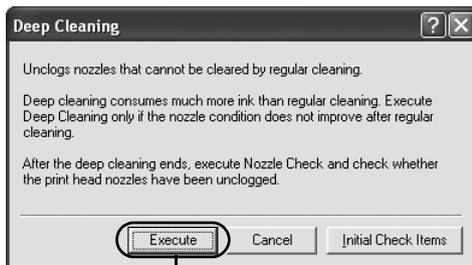
See "Opening the Printer Properties Dialog Box Directly from the Start Menu" on page 14.

3 Start Print Head Deep Cleaning.



(1) Click the **Maintenance** tab.

(2) Click **Deep Cleaning**.



(3) Click **Execute**. When the confirmation message is displayed, click **OK**.

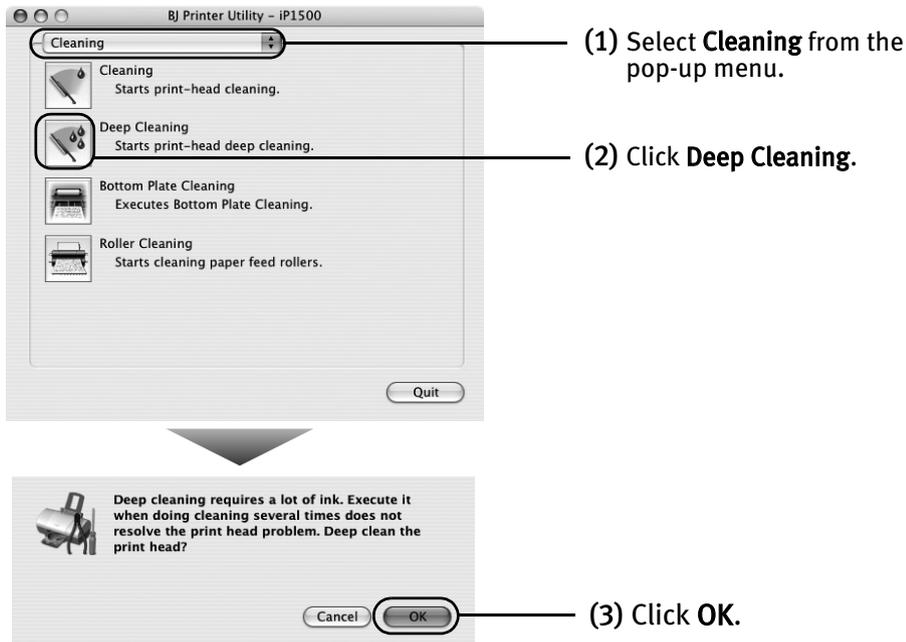
 **Note** Click the **Initial Check Items** button. Confirmation message for Print Head deep cleaning is displayed.

- (4) When the confirmation message is displayed, click **OK**.
Print Head deep cleaning starts when the **POWER** lamp starts blinking.
Do not perform any other operations until the Print Head deep cleaning is completed (about one minute).

Macintosh

- 1** Ensure that the printer is turned on.
- 2** Open the BJ Printer Utility dialog box.
 - (1) Double-click the hard disk icon where the printer driver was installed, the **Applications** folder, and then the **Utilities** folder.
 - (2) Double-click the **Printer Setup Utility** icon.
If you are using the OS other than Mac OS X v.10.3, double-click the **Print Center** icon.
 - (3) Select **iP1500** from the **Name** list and click **Utility** or **Configure**.
 - (4) Select **iP1500** from the **Product** list and click **Maintenance**.

3 Start Print Head Deep Cleaning.



Print Head deep cleaning starts when the **POWER** lamp starts blinking. Do not perform any other operations until the Print Head deep cleaning is completed (about one minute).

 **Note** After Print Head deep cleaning finishes, print the nozzle check pattern to verify that the Print Head Nozzles are clean.

See "Printing the Nozzle Check Pattern" on page 27.

If not, check that there are sufficient ink levels in all ink tanks before turning off the printer. Be sure to perform another Print Head deep cleaning 24 hours after turning off the printer.

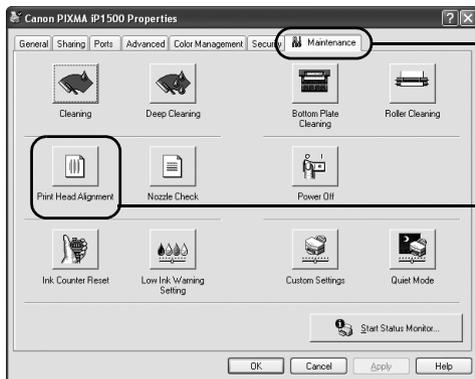
If this does not resolve the problem, the Print Head may be worn out. Contact the Customer Care Center.

Aligning the Print Head

If ruled lines are displaced or the print result is unsatisfactory, Print Head alignment is required.

Windows

- 1 With the printer on, load a sheet of Letter-sized plain paper in the printer.
- 2 Open the Printer Properties dialog box.
See "Opening the Printer Properties Dialog Box Directly from the Start Menu" on page 14.
- 3 Print the pattern.

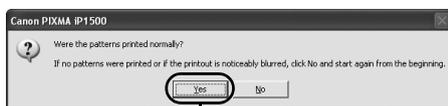


(1) Click the **Maintenance** tab.

(2) Click **Print Head Alignment**.



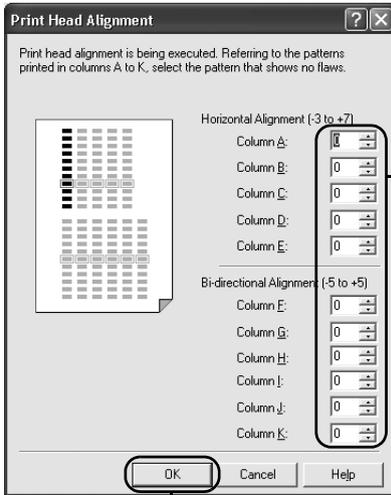
(3) Click **OK**.
When the confirmation message is displayed, click **OK**.
The Pattern will be printed.



(4) After the pattern is printed, click **Yes**.

4 Align the Print Head.

- (1) Look at the print out. From the patterns, select the most even, least irregular patterns and enter the number that corresponds.



(2) Enter the numbers.

(3) Click **OK**.

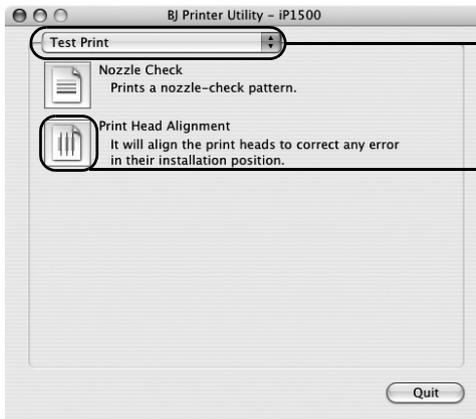
 **Note** If it is difficult to pick up the best pattern on Column H, pick the setting that produces the least noticeable vertical white stripes.



- (4) When the confirmation message is displayed, click **OK**.

Macintosh

- 1** With the printer on, load a sheet of Letter-sized plain paper in the printer.
- 2** Open the BJ Printer Utility dialog box.
 - (1) Double-click the hard disk icon where the printer driver was installed, the **Applications** folder, and the **Utilities** folder.
 - (2) Double-click the **Printer Setup Utility** icon.
If you are using the OS other than Mac OS X v.10.3, double-click the **Print Center** icon.
 - (3) Select **iP1500** from the **Name** list and click **Utility** or **Configure**.
 - (4) Select **iP1500** from the **Product** list and click **Maintenance**.
- 3** Print the pattern.



(1) Select **Test Print** from the pop-up menu.

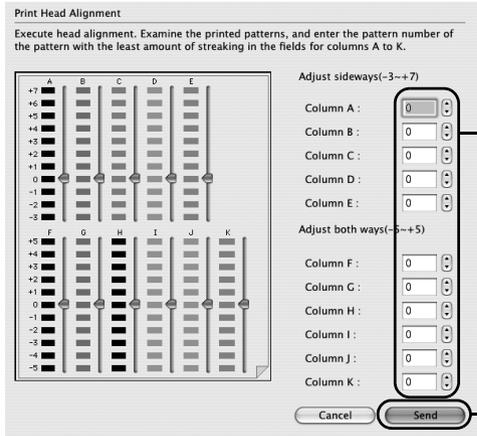
(2) Click **Print Head Alignment**.



(3) Click **OK**.
The Pattern will be printed.

4 Align the Print Head.

- (1) Look at the print out. From the patterns, select the most even, least irregular patterns and enter the number that corresponds.



The dialog box titled "Print Head Alignment" contains a grid of 11 columns (A-K) and 11 rows of patterns. Each column has a vertical slider with a central knob and numerical labels from -5 to +7. To the right of the grid are two sections of controls: "Adjust sideways(-3--+7)" for columns A-E and "Adjust both ways(-5--+5)" for columns F-K. Each control consists of a numeric input field and up/down arrow buttons. At the bottom are "Cancel" and "Send" buttons. An arrow points from the "Send" button to the text "(2) Enter the numbers." Another arrow points from the "Send" button to the text "(3) Click Send."

 **Note** If it is difficult to pick up the best pattern on Column H, pick the setting that produces the least noticeable vertical white stripes.



Replacing an Ink Tank

If the print result is not improved after maintenance such as Print Head cleaning, an ink tank runs out of ink. Replace the ink tank with a new one. When replacing an ink tank, check the model number very carefully. The printer will not print properly if the wrong ink tank is used, or installed in the incorrect position.

Black: BCI-24 Black



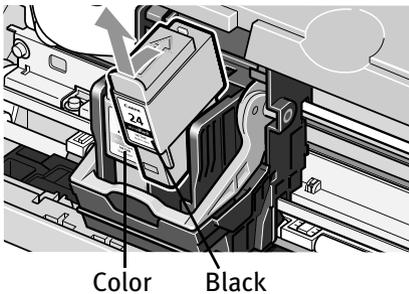
Color: BCI-24 Color



■ Replacing an Ink Tank

When an ink tank runs out of ink, replace it using the following steps.

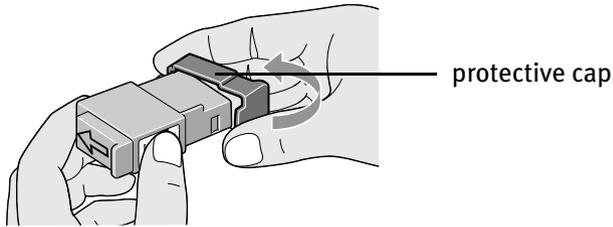
- 1** Ensure that the printer is turned on, and then open the Front Cover. The Print Head Holder moves to the left.
- 2** Remove the empty ink tank.



- Important**
- Handle ink tanks carefully to avoid staining clothing or the surrounding area.
 - Discard empty ink tanks according to the local laws and regulations regarding disposal of consumables.

3 Prepare a replacement ink tank.

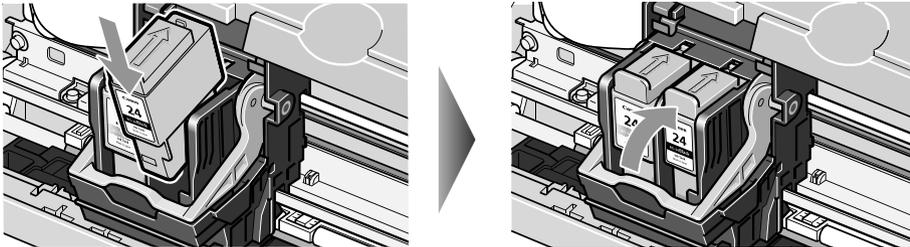
- (1) Unpack a new ink tank and remove the orange protective cap.



- Important**
- Do not re-attach the protective cap once you have removed it.
 - Once the protective cap is removed, do not touch the open ink port.

4 Insert the ink tank.

- (1) Insert a new ink tank into a slot.
- (2) Press on the tab until the ink tank snaps firmly into place.



5 Close the Front Cover.

The Print Head Holder moves to the right.

-  **Note**
- To maintain optimal print quality, use an ink tank within six months of its first use.
 - Once an ink tank has been used, do not remove it from the printer and leave it out in the open. This will cause the ink tank to dry out and the printer may not function properly if it is reinstalled.
 - Color ink consumption may occur even when black-and-white or gray scale printing is specified.
Color ink is consumed in the head cleaning and deep cleaning, which are necessary to maintain the printer's capabilities.
 - When an ink tank runs out of ink, replace the ink tank with a new one immediately.
If printing is continued with no ink in the ink tank, a problem may occur.

■ Resetting the Ink Counter

When an ink tank is replaced, the ink counter must be reset.

The low ink warning is only displayed properly if the ink counter is reset.

Windows

Message Prompting Confirmation of Ink Tank Replacement

If a Front Cover is open for a certain period of time, the printer will output a message prompting you to confirm replacement of the ink tank at the start of the next print job. When an ink tank has been replaced, follow the procedure below to reset the ink counter. The low ink warning is only displayed properly if the ink counter is reset.

1 Check the message, and click Yes.

Mistakenly clicking **No**, instead, will prevent the low ink warning from functioning properly. If this happens, manually reset the ink counter in **Printer Properties** dialog box.



2 Select the replaced ink tank, and click OK.

The dialog box allows you to select the replaced ink tank.

When both black and color ink tanks have been replaced, select both Black and Color.

If you have not replaced the ink tank with a new one, click **Cancel**.



Resetting the Ink Counter in Printer Properties dialog box

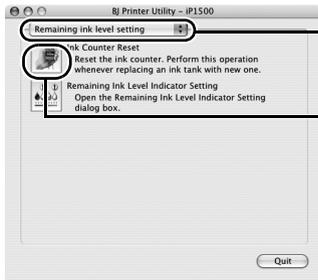
Windows

- 1 Open the **Printer Properties** dialog box and click the **Maintenance** tab.
- 2 Click **Ink Counter Reset**.
- 3 Select the newly installed ink tank, then click **OK**.

Macintosh

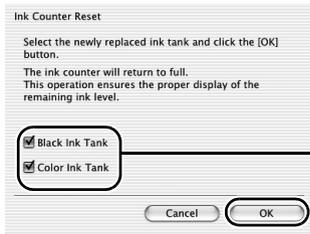
- 1 Open the **BJ Printer Utility** dialog box.
 - (1) Double-click the hard disk icon where the printer driver was installed, the **Application** folder, and the **Utilities** folder.
 - (2) Double-click the **Printer Setup Utility** icon.
If you are using the OS other than Mac OS X v.10.3, double-click the **Print Center** icon.
 - (3) Select **iP1500** from the **Name** list and click **Utility** or **Configure**.
 - (4) Select **iP1500** from the **Product** list and click **Maintenance**.

2 Reset the Ink Counter.



(1) Select **Remaining ink level setting** from the pop-up menu.

(2) Click **Ink Counter Reset**.



(3) Select the newly installed ink tank.

(4) Click **OK**.

■ How Low Ink Warning Setting Works

The low ink warning notifies you of low ink levels during printing. The Low Ink Warning has been preset to be automatically displayed.

When you reset the ink counter, it will assume that the ink tank is full regardless of how much ink actually remains. The reset is the only way to match the counter value with an actual ink volume. Reset the ink counter when installing a new ink tank.

Low Ink Warning Display

The '!' shows a low ink level in the ink tank.

BJ Status Monitor



The color ink becomes low.

BJ Printer Utility



The color ink becomes low.

Note How to Check Ink Level

Windows

Open the **Printer Properties** dialog box. Click **Maintenance** tab and then **Start Status Monitor**.

See "Opening the Printer Properties Dialog Box from Your Application Program" on page 14.

If the ink level becomes low, the low ink warning is displayed when printing is performed.

Macintosh

Open the **BJ Printer Utility**, and then select **Ink Level Information** from the pop-up menu.

See "Open the BJ Printer Utility dialog box." on page 44.

How to Display Low Ink Warning Correctly

- Reset the ink counter every time you install a new ink tank.
The ink counter cannot work correctly unless you synchronize it with the actual ink level. The ink counter can only be adjusted when it is reset at the time a new ink tank is installed.
- Do not reset the ink counter of an ink tank in use.
Synchronization of the counter and the actual ink level will not work properly.

Important If you did not reset the counter when you installed the current ink tanks, the low ink warning may not function correctly, until the next time you replace the ink tanks. Also, be sure to treat both counters separately. Refer to "Low Ink Warning Accompanied by Ink Tank Icon With '?'" on page 56.

Troubleshooting

Troubleshooting usually falls into one of the following categories. In this chapter you will find the most common printing problems. Refer to the *User's Guide* for additional information on topics not covered in this section.

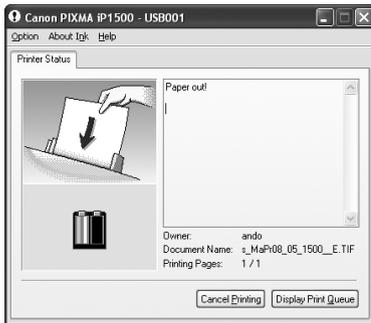
- "Cannot Install the Printer Driver" on page 49
- "Print Quality is Poor or Contains Errors" on page 50
- "Troubleshooting Printer Hardware" on page 52
- "Paper Does Not Feed Properly" on page 53
- "Handling Error Messages" on page 54
- "An Error Message Appears on the Screen" on page 55

Windows

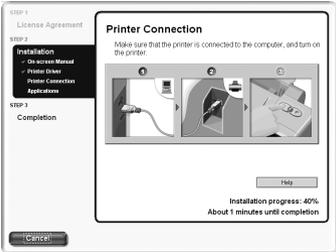
When an Error Occurs

The BJ Status Monitor opens and displays a message. Take the appropriate action described in the message.

The message may vary depending on your operating system.



Cannot Install the Printer Driver

Problem	Possible Cause	Try This
Cannot Install the Printer Driver	Installation procedure not followed correctly	Follow the <i>Easy Setup Instructions</i> for proper printer driver installation. If the installer was forced to terminate due to an error, remove the CD-ROM from the CD-ROM drive and restart your computer. Reinstall the printer driver. If this problem persists, contact the Customer Care Center.
	Other applications running in the background	Other applications opened on your computer can interfere with the installation routine. Close all open software applications before reinstalling the printer driver. Refer to the <i>Easy Setup Instructions</i> for installing the printer driver.
	Installation does not start automatically when the CD-ROM is inserted into the drive	Windows If printer driver installation did not start automatically when you inserted the CD-ROM into the CD-ROM drive: 1. Click Start and select My Computer . 2. Double-click the CD-ROM icon. For non-Windows XP, open the My Computer window, and then double-click the CD-ROM icon. Macintosh Double-click the CD-ROM icon on your desktop to start installation.
	Installation CD-ROM not working properly	Ensure that there are no problems with the <i>Setup Software & User's Guide CD-ROM</i> . Windows Use Windows Explorer to ensure that the CD-ROM can be read. Macintosh Ensure that the CD-ROM icon is displayed on the desktop. If there is any problem with the CD-ROM , contact the Customer Care Center.
	Unable to proceed beyond the Printer Connection Screen	Windows  If you cannot proceed beyond the Printer Connection screen; 1. Click Cancel . 2. When the Installation Failure screen is displayed, click Start Over . 3. Easy Intall screen is displayed, click Back . 4. Click Exit , then remove the CD-ROM. 5. Turn the printer off. 6. Restart the computer. 7. Carefully follow the procedures described in the <i>Easy Setup Instructions</i> and reinstall the printer driver.

Print Quality is Poor or Contains Errors

Problem	Possible Cause	Try This
Ink does not eject properly/Printing is Blurred/ Colors are Wrong / White Streaks appear / Printed Ruled Lines are Displaced	Ink tank is not seated properly	Check that the ink tanks are firmly seated in the Print Head and reseal them if necessary. See " Insert the ink tank. " on page 42.
	Print Head Nozzles clogged	Print the nozzle check pattern to check for uneven ink output. See " Printing the Nozzle Check Pattern " on page 27. When a specific color is missing from the nozzle check pattern, clean the Print Head. If ink supply is uneven: See " Print Head Cleaning " on page 31.
	Print Head is misaligned	Align the Print Head. See " Aligning the Print Head " on page 37.
	Media not loaded with the print-side up	Check that your paper is loaded with the correct print side facing up.  Note Follow the instructions packaged with your speciality media for loading and handling.
	Incorrect paper type	Windows On the Main tab, ensure that the Media Type selected matches the media loaded. Macintosh In the Print dialog box, select Quality & Media from the pop-up menu, and then ensure that the Media Type selected matches the media loaded.
	Glossy photo paper other than the Canon speciality media is used	Selecting Other Photo Paper from Media Type , which may resolve the problem. Load one sheet at a time and remove each sheet as soon as it is printed.
	Print Quality not set properly	Be sure to set the Print Quality setting to High for Windows or Fine for Macintosh. Windows On the Main tab, click High for the Print Quality setting. Macintosh 1. In the Print dialog box, select Quality & Media from the pop-up menu, and then click Detailed Setting . 2. Drag the Print Quality slide bar to the Fine end.
Printed Paper Curls or Ink Blots	Paper being used is too thin	Use High Resolution Paper or Photo Paper Pro to print images that require a lot of ink (i.e. pictures with intense colors or photographs).
	Color Intensity setting is too high	Reduce the Intensity setting in the printer driver and try printing again. Windows 1. Open the Printer Properties dialog box. 2. On the Main tab, select Manual for Color Adjustment , and then click Set . 3. Drag the Intensity slide bar to adjust the intensity. Macintosh 1. In the Print dialog box, select Color Option from the pop-up menu. 2. Drag the Intensity slide bar to set the intensity.

Problem	Possible Cause	Try This
Printed Surface is Scratched/Back of Paper is Smudged	Media is curled	If media is curled, its print side may be smudged by touching the Print Head. Uncurl the media. See " Uncurling the Media " in the <i>User's Guide</i> .
	Inside of the printer is dirty.	Periodically clean the inside of the printer with cotton swabs or the like. See " Cleaning the Inside of the Printer " in the <i>User's Guide</i> .
	Inappropriate paper type used	Check to see if the paper you are printing on is too thick or curled. See " Print Media to Avoid " on page 3. Note that smudging may occur at the top and bottom edges of the paper when using Borderless Printing. Ensure that the paper you are using is compatible with Borderless Printing. Windows See " Media Types Suitable for Borderless Printing " on page 23. Macintosh See " Media Types Suitable for Borderless Printing " on page 23.
	Paper Feed Roller is dirty	Clean the Paper Feed Roller. See " Paper Does Not Feed Properly " on page 53.

Troubleshooting Printer Hardware

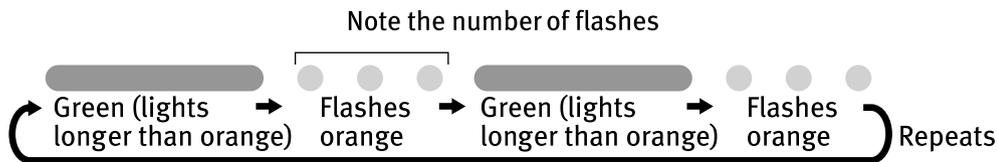
Problem	Possible Cause	Try This
Printer Does Not Start or Printer Stops During Print Jobs	Print Head has overheated due to long periods of continuous printing	<p>Stop printing and turn the printer off for at least 15 minutes to allow the Print Head to cool down.</p> <p>The Print Head tends to overheat when printing continuously for long periods of time. The Print Head is designed to automatically pause at line breaks before resuming printing in order to cool down.</p> <p>Caution The area around the Print Head can become extremely hot during extended print operation. Always avoid touching the Print Head and its peripheral components.</p>
	Printing high-resolution photographs and graphics	<p>Wait until the print job finishes.</p> <p>The POWER lamp flashes green while the print data is being processed. Printing photographs and high-density graphics can take time.</p>
	Printer cable is too long	<p>Avoid using USB cables longer than 16.4 feet.</p>
	There may be problems in your operating system	<p>Restart your computer. It may solve the problem.</p> <p>Delete an undesired print job if there is any. Use BJ Status Monitor in Windows or Printer Setup Utility in Macintosh for the deletion. If you are using the OS other than Mac OS X v.10.3, use the Print Center for deletion.</p> <p>Windows</p> <ol style="list-style-type: none"> 1. Open the Printer Properties dialog box. See "Opening the Printer Properties Dialog Box from Your Application Program" on page 14. 2. Click Maintenance tab and then Start Status Monitor. 3. Click Display Print Queue. 4. Select Cancel All Documents in the Printer menu. When the confirmation messages is displayed, click Yes. The print job is deleted. <p> Note In Windows Me or Windows 98 Click to select an undesired document and select Purge Print Documents in the Printer menu.</p> <p>Macintosh</p> <ol style="list-style-type: none"> 1. Select Applications from the Go menu. 2. Double-click the Printer Setup Utility icon in the Utilities folder. If you are using the OS other than Mac OS X v.10.3, double-click the Print Center icon. 3. Double-click iP1500 displayed under Name in the Printer List. 4. Click to select an undesired document and click . <p>The print job is deleted.</p>
Cannot Print to End of Job	Incorrect page size selected	<p>Ensure that the page size setting matches the size of the paper loaded in the printer:</p> <ul style="list-style-type: none"> - Check the Paper Size setting from within your application to ensure that it matches the size of the paper loaded. - Check the Page Setup tab in the Printer Properties dialog box (for Windows) or the Page Setup dialog box (for Macintosh) to ensure that it matches the size of the paper loaded.
	Not enough free space on hard disk	<p>Your operating system may be out of free disk space. Check the available space on your computer's hard disk.</p>

Paper Does Not Feed Properly

Problem	Possible Cause	Try This
Paper Does Not Feed Properly	Inappropriate paper type used	<ul style="list-style-type: none"> • Check to see if the paper you are printing on is too thick or curled. See "Print Media to Avoid" on page 3. • Check if the paper exceeds the load limit mark (). If it exceeds, load less paper. See "Load the paper." on page 4.
	Paper Feed Roller is dirty	<p>Follow the steps described below to clean the Paper Feed Rollers. If envelopes or post cards do not feed properly, even after correcting any paper curl, clean the Paper Feed Roller.</p> <p>Three sheets of Letter paper are required for the cleaning. Have them on hand.</p> <p>Windows</p> <ol style="list-style-type: none"> 1. Ensure that the printer is on and there is no paper loaded in the printer. 2. Open the Printer Properties dialog box. 3. Click the Maintenance tab. 4. Click Roller Cleaning. 5. The confirmation message is displayed. Follow the instruction on the screen. <p>Macintosh</p> <ol style="list-style-type: none"> 1. Ensure that the printer is on and there is no paper loaded in the printer. 2. Open the Page Setup dialog box. 3. Click Utilities.... 4. Select Cleaning from the pull-down menu. 5. Click Roller Cleaning. 6. The confirmation message is displayed. Follow the instruction on the screen.
	Paper Jams	<p>Remove the paper according to the following procedure.</p> <ol style="list-style-type: none"> 1. Gently pull the jammed paper out of the Sheet Feeder or the Paper Output Slot, whichever is easier. <ul style="list-style-type: none"> • If the paper tears and some of it is left in the printer, open the Front Cover and remove the piece of paper. Do not touch internal parts in the printer. • If you cannot extract the paper, turn the printer off, and then turn it back on. The remaining paper will be ejected automatically.  <ol style="list-style-type: none"> 2. Close the Front Cover. 3. Reload the paper into the Auto Sheet Feeder, then press the RESUME/CANCEL button on the printer. <p>If you cannot remove the paper or if the paper tears inside the printer, or if the paper jam error continues after removing the paper, contact the Customer Care Center.</p>

Handling Error Messages

When a printer error occurs, the **POWER/ERROR** lamp flashes. The number of flashes indicates the type of error that has occurred. Count the flashes and take the appropriate action to correct the error.



Number of Flashes	Possible Cause	Try This
Two flashes	Printer is out of paper	Reload paper and press the RESUME/CANCEL button.
Three flashes	Paper jam	If a paper jam occurs, clear the jammed paper, reload paper in the printer, then press the RESUME/CANCEL button. See "Paper Jams" on page 53.
Four flashes	Ink tanks installed incorrectly	Reinstall the ink tanks. Ensure that the tanks are firmly seated in the Print Head.
Five flashes	No Print Head installed / Defective Print Head	Install a Print Head correctly. Press the POWER button to turn off the printer, and press the POWER button again to turn on the printer. If the same error occurs, the Print Head may be defective. Contact the Customer Care Center.
Eight flashes	Waste ink absorber* almost full	The printer has a built-in waste ink absorber to hold the ink consumed during Print Head cleaning. Eight flashes indicates that this absorber is nearly full. Press the RESUME/CANCEL button to clear the error so printing can continue. Contact the Customer Care Center.
 Note	POWER lamp flashes alternately green and orange	An error that requires contacting the Customer Care Center may have occurred. Disconnect the printer cable from the printer, and then turn the printer off and unplug the printer from the power supply. Reconnect the printer cable, and then plug the printer back in and turn the printer back on after leaving it for a while. If the problem remains, contact the Customer Care Center.

* The waste ink absorber absorbs ink used at cleaning and so on. When you experience this error, you must replace the waste ink absorber and check the printer.

An Error Message Appears on the Screen

Problem	Possible Cause	Try This
Windows Error Writing / Output to USBnnn or MPUSBPRNnn	Printer not ready	The POWER lamp will flash green when the printer is warming up or when a print job is being sent to the printer. It will glow a steady (non-flashing) green when it is ready for use or when the print job is completed.
	Paper is not loaded	Load paper and press the RESUME/CANCEL button.
	Faulty connection	Ensure that the printer cable is securely connected to the computer. Note If you are using switching hub or other device, disconnect the printer and reconnect it directly to the computer and try printing again. If successful, the problem may have been with the device. There could also be a problem with the cable(s). Replace the cable(s) and try printing again.
	Printer port error	Verify the printer port status. Double-click Universal Serial Bus (USB) controllers on the Device Manager dialog box, then double-click Canon PIXMA iP1500 to see the status. Refer to the <i>User's Guide</i> for instructions on how to verify the status.
	Printer port settings and printer interface do not match	Ensure that the destination Printer Port is set to MPUSBPRNnn (Canon PIXMA iP1500) or USBnnn (Canon PIXMA iP1500) (Where nn represents a number). If the settings are not correct, follow the procedures described in the <i>Easy Setup Instructions</i> and reinstall the printer driver. Refer to the <i>User's Guide</i> for instructions on how to verify status and the correct action to take.
	Printer driver is not installed properly	Uninstall then reinstall the printer driver. <ol style="list-style-type: none"> 1. Click Start, and select All Programs (or Programs), Canon PIXMA iP1500, and Uninstall. 2. Follow the on-screen instructions to uninstall driver. 3. Follow the procedures described in the <i>Easy Setup Instructions</i> and reinstall the printer driver.
Macintosh "Error No.: 300"	Printer not ready	If the POWER lamp is off, turn the printer on. If the POWER lamp is flashing green, the printer is initializing. Wait until the POWER lamp stops flashing.
	Printer not properly connected	Ensure that the printer is securely connected to the computer. Note If you are using switching hub or other device, disconnect the printer and reconnect it directly to the computer and try printing again. If successful, the problem may have been with the device. There could also be a problem with the cable(s). Replace the cable(s) and try printing again.
	Your printer name is not displayed in the Printer List of Printer Setup Utility (or Print Center).	<ol style="list-style-type: none"> 1. Select Applications from the Go menu. 2. Double-click the Printer Setup Utility icon in the Utilities folder. If you are using the OS other than Mac OS X v.10.3, double-click the Print Center icon. 3. Ensure that iP1500 is displayed in the Printer List. If iP1500 is not displayed in the Printer List, reinstall the printer driver. Note If the problem persists, delete all unnecessary documents from the Extensions and Control Panels folder.

Problem	Possible Cause	Try This
<p>Windows</p> <p>Have you replaced ink tank with a new one? message is displayed</p>	<p>If the ink tank has been replaced with a new one</p>	 <p>Click Yes to reset the ink counter. See "Resetting the Ink Counter" on page 43.</p>
<p>Low Ink Warning Accompanied by Ink Tank Icon With '?'</p>	<p>Failure to reset ink counter when installing new ink tank</p>	<p>Click No or Cancel on the dialog box described above. You can choose the option to disable the display of this confirmation message.</p> <ol style="list-style-type: none"> 1. Ensure that the printer is turned on and open the Printer Properties dialog box. 2. Click the Maintenance tab and then click Low Ink Warning Setting. 3. Clear a check box of Display a confirmation message of ink tank replacement and click Send. <p>The ink tank level accompanied by the ink tank icon with the "?" indicates ink tank is not synchronized with its ink counter.</p>  <p>Always be sure to reset the ink counter in your printer driver when you replace ink tank. See "Resetting the Ink Counter" on page 43.</p> <p>Windows</p> <p>A "?" is displayed next to the Ink counter between the time one ink tank is removed and the ink counter is reset when the next one is installed. Display of the "?" can be disabled by unchecking the Display low Ink Warning check box.</p> <ol style="list-style-type: none"> 1. Open the Printer Properties dialog box. 2. Click the Maintenance tab and then click Low Ink Warning Setting icon. 3. Clear a check box of Display low ink warning off and click Send. <p>Macintosh</p> <p>If you do not want to display the remaining ink level in the Ink Level Information, clear a check box of Display the remaining ink level.</p> <ol style="list-style-type: none"> 1. Select Applications from the Go menu. 2. Double-click the Printer Setup Utility icon in the Utilities folder. If you are using the OS other than Mac OS X v.10.3, double-click the Print Center icon. 3. Select iP1500 from the Name List and click Utility or Configure. 4. Select iP1500 from the Product list and click Maintenance. 5. Select Remaining ink Level setting from the pop-up menu. 6. Click Remaining Ink Level Indicator Setting icon. <p>Clear a check box of Display the remaining ink Level and click Send.</p>

Appendix

Installing the Printer Driver when using Mac OS 9.x

When using other than Mac OS X (Mac OS 9.x), install the printer driver following the procedure below.

- 1** Turn on your Mac and insert the *Setup Software & User's Guide CD-ROM*.
TURN THE PRINTER ON.
- 2** Open the Mac OS 9 folder on the CD-ROM, then double-click the Printer Driver folder.
- 3** Double-click the Installer icon in the Printer Driver folder.
- 4** Read the License Agreement and click Accept, if you agree.
- 5** Click Install.
The printer driver will load automatically.
- 6** If the message “No other applications can be running...” is displayed, click Continue.
- 7** When the “Installation was successful” screen displays, click Restart.
- 8** Open the Mac OS 9 folder on the CD-ROM, then double-click the Application folder.
- 9** Double-click on the software to be installed.
Follow the on-screen instructions.
- 10** When the “Installation has Finished” screen appears, click OK.
- 11** When prompted, restart your computer.
- 12** Select the Apple menu, then Chooser.
- 13** Click the iP1500 icon in the Chooser.
 **Note**
 - If iP1500 is not displayed in Printer field, check if the printer is turned on or properly connected to the computer.
 - Do not click the PIXMA iP1500 (s) icon.
- 14** Close the Chooser.

 **Note** Register your product at www.registercanon.com to ensure product support.

- 15** To ensure highest quality output, carry out Print Head alignment.
Refer to the *Mac OS 9 Printer Driver Guide* for instructions or how to align the Print Head.

User's Guide Table of Contents

Your printer's *User's Guide* offers detailed information on the following topics.

How to Use This Manual

- How to Read This Manual

Safety Precautions

Printer Parts and Their Function

- Front View
- Operation Panel
- Rear View
- Inside the Printer

Further Printing Techniques

- Printing Photographs
- Printer Driver Functions (Windows)
- Printer Driver Functions (Macintosh)
- BJ Printer Utility (Macintosh)

Printing Media

- Compatible Media Types
- Photo Paper Pro PR-101
- Photo Paper Plus Glossy PP-101
- Photo Paper Plus Semi-Gloss SG-101
- Matte Photo Paper MP-101
- Glossy Photo Paper GP-401
- High Resolution Paper HR-101N
- T-Shirt Transfers TR-301
- Transparencies CF-102
- Envelopes

Checking the Status of the Printer

- BJ Status Monitor Functions (Windows)
- Printer Setup Utility (or Print Center) (Macintosh)

Routine Maintenance

- When Printing Becomes Faint or Colors are Incorrect
- Printing the Nozzle Check Pattern
- Print Head Cleaning
- Print Head Deep Cleaning
- Aligning Print Head
- Replacing an Ink Tank
- Transporting Printer

Troubleshooting

- Cannot Install Printer Driver
- Print Quality is Poor
- Printer Does Not Start or Stops During Print Jobs
- Paper Does Not Feed Properly or Paper Jams
- The POWER Lamp Flashes Orange
- An Error Message is Displayed on the Screen
- Problems Relating to Windows (Windows)

Appendix

- Printing Area
- Uninstalling Printer Drivers
- Uninstalling the User's Guide (Windows)
- Uncurling the Media
- Cleaning the Inside of the Printer
- Specifications

Index

Specifications

Printer

Printing resolution:	4800* x 1200 dpi. max. (*Ink droplets can be placed in a pitch of 1/4800 inch at minimum.)
Print speed *	Black printing Max Speed (Custom Setting 5): 18 ppm Standard: 13.2 ppm Color printing Max Speed (Custom Setting 5): 13 ppm Standard: 6.8 ppm
*Print speed may vary with the content of the document and the processing speed of the host computer.	
Print width:	203.2 mm max. (8.0 in) (for Borderless Printing: 215.9 mm / 8.5 in)
Resident print control mode:	Canon extended mode
Receive buffer:	32 KB
Interface:	USB
Acoustic noise level:	Approx. 43 dB (A) (in the highest print quality mode)
Operating environment:	Temperature: 5 to 35°C (41 to 95°F) Humidity: 10 to 90%RH (no condensation)
Storage environment:	Temperature: 0 to 40°C (32 to 104°F) Humidity: 5 to 95% RH (no condensation)
Power supply:	AC 110-120 V, 50/60 Hz AC 220-240 V, 50/60 Hz
Power consumption:	Standby: Approx. 1 W Printing: Approx. 8 W OFF: 1 W or lower
Dimensions (with a paper support retracted):	416 (W) x 207 (D) x 165 (H) mm 16.38 (W) x 8.15 (D) x 6.50 (H) in
Weight:	Approx. 2.5 kg (5.51 lb.)
Print Head:	Black: 160 x 2 nozzles (600 dpi) Cyan, Magenta, Yellow: 128 x 2 nozzles per each color (600 dpi)
Ink Tanks:	Capacity (pages): Black (BCI-24 Black) approx. 300* ¹ , approx. 520* ² Color (BCI-24 Color) approx. 170* ²

*¹ 1500 characters per page, normal text, at standard and plain paper mode with Windows XP printer driver

*² Based on printing the ISO JIS-SCID No.5 pattern at standard and plain paper mode with Windows XP printer driver

BJ Printer Driver Systems Requirements

Windows

- Use a computer equipped on which Windows XP, Windows 2000, Windows Me, or Windows 98 can operate.
- USB interface
- CD-ROM drive
- Available hard-disk space for printer driver installation (including temporary files)
Windows XP/Windows 2000: 50MB
Windows Me/Windows 98: 15MB

USB operation can only be guaranteed on a PC with pre-installed Windows XP, Windows 2000, Windows Me, or Windows 98.

Macintosh

- Use a Macintosh series computer equipped with USB interface on which Mac OS X v.10.2.1 or later or Mac OS 9.x can operate.
- USB interface
- CD-ROM drive
- Available hard-disk space for printer driver installation
Mac OS X v.10.2.1 or later: 100 MB
Mac OS 9.x: 30 MB
- The following functions are not supported when using Mac OS X v.10.2.1 or later:
 - Duplex Printing
 - Poster Printing
 - Fit to Page Printing
 - Booklet Printing
 - Reverse Order Printing (except for Mac OS X v.10.3.x)
 - Photo Optimizer PRO

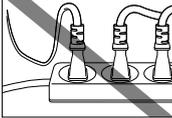
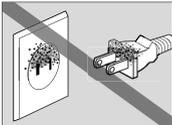
Additional Systems Requirements for Electric Manual

- 15 MB free hard disk space
- Windows: Microsoft® Internet Explorer 5.0 or later.
- Mac OS: Microsoft® Internet Explorer 5.0 or later, Safari 1.0 or later.

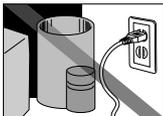
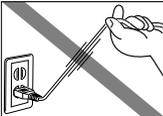
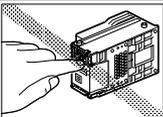
⚠ Safety Precautions

Please read the safety warnings and cautions provided in this manual to ensure that you use your printer safely. Do not attempt to use printer in any way not described in this manual.

Warning You may cause an electric shock/fire or damage the printer if you ignore any of these safety precautions.

Choosing a location	Do not place the printer close to flammable solvents such as alcohol or thinners.	
Power supply	Never attempt to plug in or unplug the printer from the power supply when your hands are wet.	
	Always push the plug all the way into the power outlet.	
	Never damage, modify, stretch or excessively bend or twist the power cord. Do not place heavy objects on the power cord.	
	Never plug the printer into a power socket that is shared with other equipment (extension lead/cord, 2- or 3- way adapter, etc.).	
	Never use the printer if the power cord is bundled or knotted.	
	If you detect smoke, unusual smells or strange noises around the printer, immediately unplug the printer at the power supply and call for service.	
Cleaning the printer	Use a damp cloth to clean the printer. Never use flammable solvents such as alcohol, benzene or thinners.	
	If flammable solvents come in contact with electrical components inside the printer, it could cause a fire or electric shock.	
	<p>Always unplug the printer from the power outlet before cleaning the printer.</p> <p>If you accidentally switch the printer on while cleaning it, you could injure yourself or damage the printer.</p>	
Maintaining the printer	<p>Do not attempt to disassemble or modify the printer. There are no user serviceable parts inside the printer.</p> <p>The printer contains high-voltage components. Never attempt any maintenance procedure not described in this guide.</p>	
Working around the printer	<p>Do not use flammable sprays near the printer.</p> <p>This could cause a fire or electric shock if the spray comes into contact with electrical components inside the printer.</p>	

Caution You may cause injury or damage the printer if you ignore any of these safety precautions.

Choosing a location	Do not install the printer in a location that is unstable or subject to excessive vibration.	
	Do not install the printer in locations that are very humid or dusty, in direct sunlight, outdoors, or close to a heating source. To avoid the risk of fire or electric shocks, install the printer in a location with an ambient temperature range of 5°C to 35°C (41°F to 95°F) and humidity of 10% to 90% (condensation free).	
	Do not place the printer on a thick rug or carpet.	
	When moving the printer, carry the printer at both ends.	
Power supply	Ensure that the area around the power outlet is kept clear at all times so you can easily unplug the power cord if necessary.	
	Never remove the plug by pulling on the cord.	
	Do not use an extension lead/ cord.	
	Never use a power supply source other than the one rated for the printer in the country where you purchased the printer. AC 110-120 V, 50/60 Hz AC 220-240 V, 50/60 Hz	
Working around the printer	Never put your hands or fingers in the printer while it is printing.	
	Do not place any object on the printer.	
	Do not place metal objects (paper clips, staples, etc.) or containers of flammable solvents (alcohol, thinners, etc.) on top of the printer.	
	If any foreign object (metal or liquid) fall into the printer, unplug the power cord and call for service.	
Print heads and ink tanks	For safety reasons store print heads and ink tanks out of the reach of small children. If a child ingests any ink, consult a doctor immediately.	
	Do not shake Print Head or ink tanks. Ink may leak out and stain clothing or the surrounding area.	
	Never touch the electrical contacts on a Print Head after printing. The metal parts may be very hot and could cause burns.	

Regulatory Information

Color Printer Model: K10240

This device complies with Part 15 of the FCC Rules. 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.

Note: 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 communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or 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.

Use of a shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC Rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Canon U.S.A., Inc.
One Canon Plaza
Lake Success, NY 11042
1-516-328-5600

Canadian Radio Interference Regulations

This digital apparatus does not exceed Class B limits for radio noise emissions from a digital apparatus as set out in the interference-causing equipment standard entitled “Digital Apparatus”, ICES-003 of the Industry Canada.

Cet appareil numérique respecte les limites de bruits radio électriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: “Appareils Numériques”, NMB-003 édictée par l’Industrie Canada.

CANON U.S.A., INC. LIMITED WARRANTY --- (USA Only)

The limited warranty set forth below is given by Canon U.S.A., Inc. ("Canon USA") with respect to the new or refurbished Canon-brand product ("Product") packaged with this limited warranty, when purchased and used in the United States only.

The Product is warranted against defects in materials and workmanship under normal use and service (a) for a period of one (1) year from the date of original purchase when delivered to you in new condition in its original container or (b) for 90 days from the date of original purchase for refurbished Products. Defective parts or a defective Product returned to a Canon USA repair facility or a Canon USA Authorized Service Facility ("ASF"), and proven to be defective upon inspection, will be repaired, exchanged for new or comparable rebuilt parts, or exchanged for a refurbished Product, as determined by the Canon USA repair Facility or the ASF. Warranty repair or replacement shall not extend the original warranty period of the Product. A dated proof of purchase is required at the time of warranty service. A copy of your dated bill of sale will satisfy this requirement. This warranty does not cover any accessories, or any consumables, such as paper or ink cartridges, as to which there shall be no warranty or replacement.

This limited warranty shall only apply if the Product is used in conjunction with compatible computers, peripheral equipment and software. Canon USA shall have no responsibility for such items except for compatible Canon brand peripheral equipment covered by a separate warranty ("Separate Warranty"). Repairs of such Canon brand peripheral equipment shall be governed by the terms of the Separate Warranty. Non-Canon brand equipment and software that may be distributed with the Product are sold "as is" and without warranty of any kind by Canon USA, including any implied warranty regarding merchantability or fitness for a particular purpose, and all such warranties are disclaimed. The sole warranty, if any, with respect to such non-Canon brand items is given by the manufacturer or producer thereof.

This limited warranty covers all defects encountered in normal use of the Product and does not apply in the following cases:

- (a) Loss of or damage to the Product due to abuse, neglect, mishandling, improper packaging by you, alteration, accident, electrical current fluctuations, improper use, failure to follow operating or maintenance instructions in, or environmental conditions prescribed in, Canon USA's user's manual or other documentation, or services performed by someone other than a Canon USA repair facility or ASF. Without limiting the foregoing, dropping the Product, scratches, and abrasions will be presumed to have resulted from misuse, abuse or failure to operate the Product as set forth in the user's manual or other documentation for the Product.
- (b) Use of parts or supplies (other than those sold by Canon USA) that cause damage to the Product or cause abnormally frequent service calls or service problems.
- (c) If the Product has had its serial number or dating defaced, altered or removed.

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Canon USA offers a full range of customer technical support* options:

- Interactive troubleshooting, e-mail technical support, the latest driver downloads and answers to frequently asked questions (www.canontechsupport.com)

Appendix

- Toll-free live technical support within the limited warranty Monday-Saturday (excluding holidays) at 1-800-828-4040
- The location of the ASF nearest you for carry-in service (1-800-423-2366)
- Telephone Device for the Deaf (**TDD 1-866-251-3752**)

If the problem cannot be corrected by using one of the above technical support options, repair options (i.e. Carry-In/Mail-In Service*, InstantExchange Warranty Service*), along with details and conditions of each, are available at the time of your call to the live technical support number(s) above or via the website at www.canontechsupport.com. Please note that under the InstantExchange program, a replacement product will be provided to you prior to your return of the defective product. Since the defective product becomes the property of Canon USA at the time of the exchange, the defective product must be returned in the shipping materials provided. If the defective product is not returned, as directed, you will be responsible for the value of the replacement product, for which Canon USA may invoice you.

This limited warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

* Support program specifics are subject to change without notice.

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Ordering Information

For additional supplies, use the following descriptions and order numbers.

Description	Order #
Ink Tanks	
BCI-24 Black	6881A003
BCI-24 Color	6882A003
Canon Specialty Papers	
Glossy Photo Paper (8.5" x 11"/20 sheets)	1026A009
High Resolution Paper (8.5" x 11"/100 sheets)	1033A011
Matte Photo Paper (8.5" x 11"/50 sheets)	7981A004
Photo Paper Plus Glossy (4" x 6"/20 sheets)	7980A007
Photo Paper Plus Glossy (4" x 6"/50 sheets)	7980A012
Photo Paper Plus Glossy (4" x 6"/120 sheets)	7980A022
Photo Paper Plus Glossy (5" x 7"/20 sheets)	7980A019
Photo Paper Plus Glossy (8.5" x 11"/20 sheets)	7980A006
Photo Paper Plus Semi-Gloss (4" x 6"/50 sheets)	8386A010
Photo Paper Pro for Borderless Printing (4" x 6"/20 sheets)	1029A014
Photo Paper Pro for Borderless Printing (4" x 6"/75 sheets)	1029A027
Photo Paper Pro (8.5" x 11"/15 sheets)	1029A004
Photo Paper Pro (8.5" x 11"/30 sheets)	1029A028
Transparencies (8.5" x 11"/50 sheets)	1043A004

Call **1-800-OK-CANON** to locate a dealer near you, or visit the Canon eStore at www.estore.usa.canon.com.



Quick Start Guide

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One Canon Plaza, Lake Success, NY 11042, U.S.A.

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30-2, Shimomaruko 3-Chome, Ohta-ku, Tokyo 146-8501, Japan

Canon Canada, Inc.

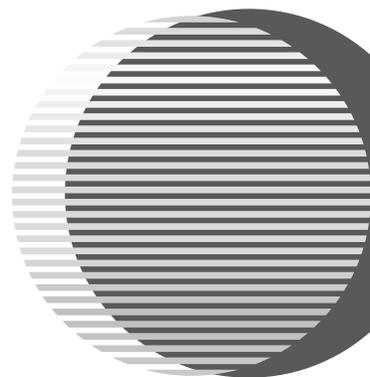
6390 Dixie Road, Mississauga, Ontario, L5T 1P7, Canada

Canon Latin America, Inc.

703 Waterford Way, Suite 400, Miami, FL 33126, U.S.A.

Canon Mexicana S. de R.L. de C.V.

Periferico Sur No. 4124 Col. Ex-Rancho de Anzaldo, C.P. 01900, Mexico, D.F.



The following ink tanks are compatible with iP1500.



BCI-24 Black



BCI-24 Color

For details on ink tank replacement, refer to “Replacing an Ink Tank” in this guide.