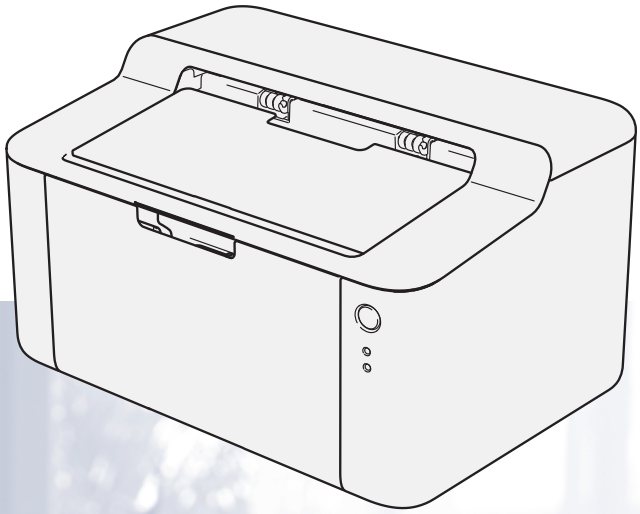
User’s Guide

Brother Laser Printer

HL-1110(E)
HL-1112(E)



For visually-impaired users

You can read this manual with Screen Reader ‘text-to-speech’ software.

You must set up the hardware and install the driver before you can use the machine.

Please use the Quick Setup Guide to set up the machine. You can find a printed copy in the box.

Please read this User’s Guide thoroughly before you use the machine.

Please visit us at http://solutions.brother.com/ where you can get product support, the latest driver updates and utilities, and answers to frequently asked questions (FAQs) and technical questions.

Note: Not all models are available in all countries.

Version B

UK/IRE

Brother numbers

IMPORTANT

For technical and operational help, you must call the country where you bought the machine.

Register your product

Please complete the Brother Warranty Registration or, for your convenience and most efficient way to register your new product, register on-line at

http://www.brother.com/registration/

Frequently asked questions (FAQs)

The Brother Solutions Center is our one-stop resource for all your machine needs. You can download the latest drivers, software and utilities, read FAQs and troubleshooting tips to learn how to get the most from your Brother product.

http://solutions.brother.com/

You can check here for Brother driver updates.

Customer Service

Visit http://www.brother.com/ for contact information on your local Brother office.

Service center locations

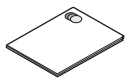
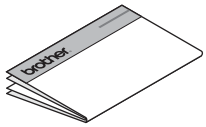
For service centres in Europe, contact your local Brother Office. Address and telephone contact information for European offices can be found at http://www.brother.com/ by selecting your country.

Internet Addresses

Brother Global website: http://www.brother.com/

For Frequently Asked Questions (FAQs), Product Support and Technical Questions, and Driver Updates and Utilities: http://solutions.brother.com/

User’s Guides and where to find them?

Which manual?	What's in it?	Where is it?	
		Windows users	Macintosh users
Product Safety Guide	Read this Guide first. Please read the Safety Instructions before you set up your machine. See this Guide for trademarks and legal limitations.	 http://solutions.brother.com/	
Quick Setup Guide	Follow the instructions for setting up your machine and installing the drivers and software for the operating system and connection type you are using.	 http://solutions.brother.com/	
User’s Guide	Learn the print operations, how to replace consumables, and performing routine maintenance. See troubleshooting tips.	http://solutions.brother.com/	http://solutions.brother.com/

Using the documentation

Thank you for buying a Brother machine! Reading the documentation will help you make the most of your machine.

Symbols and conventions used in the documentation

The following symbols and conventions are used throughout the documentation.

⚠ WARNING	WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injuries.
IMPORTANT	IMPORTANT indicates a potentially hazardous situation which, if not avoided, may result in damage to property or loss of product functionality.
NOTE	Notes tell you how you should respond to a situation that may arise or give tips about how the operation works with other features.
	Prohibition icons indicate actions that must not be performed.
	Electrical Hazard icons alert you to possible electrical shock.
	Fire Hazard icons alert you to the possibility of fire.
	Hot Surface icons warn you not to touch machine parts that are hot.
Bold	Bold style identifies keys on the machine control panel or computer screen.
Italics	Italicized style emphasizes an important point or refers you to a related topic.

Table of Contents

1 Printing Methods 1

About this Machine 1
Machine overview 1
Acceptable paper 2
Recommended paper and print media 2
Paper capacity of the paper tray 2
2-sided printing 3
Guidelines for printing on both sides of the paper 3
Manual 2-sided printing 4

2 Driver and Software 5

Printer driver 5
Printing a document 6
Printer driver settings 7
Windows® 8
Accessing the printer driver settings 8
Features in the Windows® printer driver 8
Basic tab 9
Advanced tab 14
Print Profiles tab 20
Device Settings tab 22
Support 23
Uninstalling the printer driver 24
Status Monitor 25
Macintosh 27
Features in the printer driver (Macintosh) 27
Choosing page setup options 27
Removing the printer driver 34
Status Monitor 35
Software 36
Remote Printer Console (Windows® only) 36

3 General Information 37

Control panel 37
LEDs (Light Emitting Diodes) 37
Service call indications 41
Power On/Off key 42
Print a Printer Settings page 43
Using the Power On/Off key 43
Using the printer driver 43
Ecology features 44
Toner Save 44
Sleep Time 44
Deep Sleep mode 44
Power Off mode 45

A Troubleshooting and other information 46

Consumable items 46
Toner Setting 47
Identifying your problem 48
Error messages in the Status Monitor 49
Improving the print quality 50
Paper jams 54
If you are having difficulty with your machine 58
Cleaning and Checking the machine 60
Machine Information 61
Default settings 61

B Specifications 62

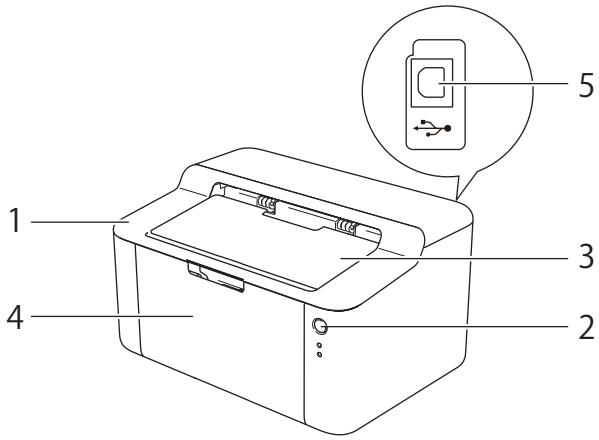
General 62
Print media 64
Important information for choosing your paper 65
Printer 66

C Index 67

1 Printing Methods

About this Machine

Machine overview



1 Top cover

2 Control panel

3 Face-down output tray support flap (support flap)

4 Paper tray

5 USB port

NOTE

For details about how the LEDs show the machine's status, see *LEDs (Light Emitting Diodes)* on page 37.
For the Power On/Off key functions, see *Power On/Off key* on page 42.

Acceptable paper

Print quality may vary according to the type of paper you are using.

For best results, follow the instructions below:

- DO NOT put different types of paper in the paper tray at the same time because it may cause paper jams or misfeeds.
- For correct printing, you must choose the same paper size from your software application as the paper in the tray.
- Avoid touching the printed surface of the paper immediately after printing.
- Before you buy a lot of paper, test a small quantity to make sure that the paper is suitable.

Recommended paper and print media

Paper Type	Item
Plain paper	Xerox Premier TCF 80 g/m^2 Xerox Business 80 g/m^2
Recycled paper	Xerox Recycled Supreme 80 g/m^2

Paper capacity of the paper tray

Paper size	Paper types	No. of sheets	Paper weight
A4, Letter, Legal, Folio [1]	Plain paper and Recycled paper	Up to 150 sheets (80 g/m^2)	65 - 105 g/m^2

[1] Folio size is 215.9 mm x 330.2 mm.

2-sided printing

The supplied printer drivers all enable 2-sided printing. For more information about how to choose the settings, see *2-sided / Booklet* on page 11 for Windows® and *2-sided Printing* on page 34 for Macintosh.

Guidelines for printing on both sides of the paper

- If the paper is thin, it may wrinkle.
- If paper is curled, straighten it and put it back in the paper tray. If the paper continues to curl, replace the paper.
- If the paper is not feeding correctly, it may be curled. Remove the paper and straighten it. If the paper continues to curl, replace the paper.
- When you use the manual 2-sided function, it is possible that there may be paper jams or poor print quality. (If there is a paper jam, see *Paper jams* on page 54. If you have a print quality problem, see *Improving the print quality* on page 50.)

Manual 2-sided printing

If you are using the Macintosh Printer Driver, see *Manual 2-sided Printing* on page 34.

Manual 2-sided printing with the Windows® printer driver

1. Choose the following settings from each drop-down list of the printer driver.
   - **Paper Size**

     You can use all the paper sizes specified for the tray you are using.
   - **Media Type**

     You can use all the media types that are specified for the tray you are using.
   - **2-sided / Booklet**

     Choose **2-sided (Manual)**.
   - **2-sided Type** in **2-sided Settings**

     There are four options for each orientation. (See *2-sided / Booklet* on page 11.)
   - **Binding Offset** in **2-sided Settings**

     You can specify the offset for binding. (See *2-sided / Booklet* on page 11.)

   For any other settings, see *Driver and Software* in Chapter 2.
2. Send the print data to the machine. The machine will print all the even-numbered pages on one side of the paper first. Then, the Windows® driver instructs you (with a pop-up message) to reinsert the paper to print the odd-numbered pages.

NOTE

Before reinserting the paper, straighten it well, or you may get a paper jam. Very thin or thick paper is not recommended.

2 Driver and Software

Printer driver

A printer driver is software that translates data from the format used by a computer to the format that a particular printer needs. Typically, this format is page description language (PDL).

The printer drivers for the supported versions of Windows® is on the CD-ROM we have supplied and for Macintosh it is on the Brother Solutions Center website at http://solutions.brother.com/. Install the drivers by following the steps in the Quick Setup Guide. The latest printer drivers for Windows® and Macintosh can be downloaded from the Brother Solutions Center website at:

http://solutions.brother.com/

For Windows®

- Windows® printer driver (the most suitable printer driver for this product)

For Macintosh

- Macintosh printer driver (the most suitable printer driver for this product)

For Linux® [1] [2]

- LPR printer driver
- CUPS printer driver

[1] For more information and to download the printer driver for Linux please visit your model page at http://solutions.brother.com/ or use the link on the CD-ROM we have supplied.

[2] Depending on Linux distributions, the driver may not be available or it may be released after the initial release of your model.

Printing a document

When the machine receives data from your computer, it begins printing by picking up paper from the paper tray. The paper tray can feed plain paper and recycled paper to the machine. (See *Paper capacity of the paper tray* on page 2.)

1. From your application, choose the Print command.
   If any other printer drivers are installed on your computer, choose **Brother HL-XXXX series** (Where XXXX is your model name.) as your printer driver from the Print or Print Settings menu in your software application, and then click **OK** or **Print** to begin printing.

2. Your computer sends the data to the machine. The **Ready** LED (◯) will blink.

3. When the machine finishes printing all the data, the **Ready** LED (◯) finishes blinking.

NOTE

- You can choose the paper size and orientation in your application software.
- If your application software does not support your custom paper size, choose the next largest paper size.
- Then adjust the print area by changing the right and left margins in your application software.

Printer driver settings

You can change the following printer settings when you print from your computer:

- Paper Size
- Orientation
- Copies
- Media Type
- Print Quality
- Print Settings
- Multiple Page
- 2-sided / Booklet
- Print Preview
- Scaling
- Reverse Print
- Use Watermark
- Header-Footer Print
- Toner Save Mode
- Administrator
- Density Adjustment
- Improve Print Output
- Skip Blank Page
- Print Text in Black
- Print Profile

Windows®

Accessing the printer driver settings

1. (For Windows® XP and Windows Server® 2003)
   Click **Start**, and then **Printers and Faxes**.
   (For Windows Vista® and Windows Server® 2008)
   Click the (**Start**) button, **Control Panel**, **Hardware and Sound**, and then **Printers**.
   (For Windows® 7 and Windows Server® 2008 R2)
   Click the (**Start**) button, and then click **Devices and Printers**.
   (For Windows® 8)
   Move your mouse to the lower right corner of your desktop. When the menu bar appears, click **Settings**, and then click **Control Panel**. In the **Hardware and Sound** group, click **View devices and printers**.
   (For Windows Server® 2012)
   Move your mouse to the lower right corner of your desktop. When the menu bar appears, click **Settings**, and then click **Control Panel**. In the **Hardware** group, click **View devices and printers**.

2. (For Windows® XP, Windows Server® 2003, Windows Vista® and Windows Server® 2008)
   Right-click the **Brother HL-XXXX series** icon (where XXXX is your model name) and then select **Properties** option. If printer driver options appear, select your printer driver.

   (For Windows® 7, Windows Server® 2008 R2, Windows® 8 and Windows Server® 2012)
   Right-click the **Brother HL-XXXX series** icon (where XXXX is your model name) and then select **Printer properties** option. If printer driver options appear, select your printer driver.

3. Choose the **General** tab and then click **Preferences...** (**Printing Preferences...**).

Features in the Windows® printer driver

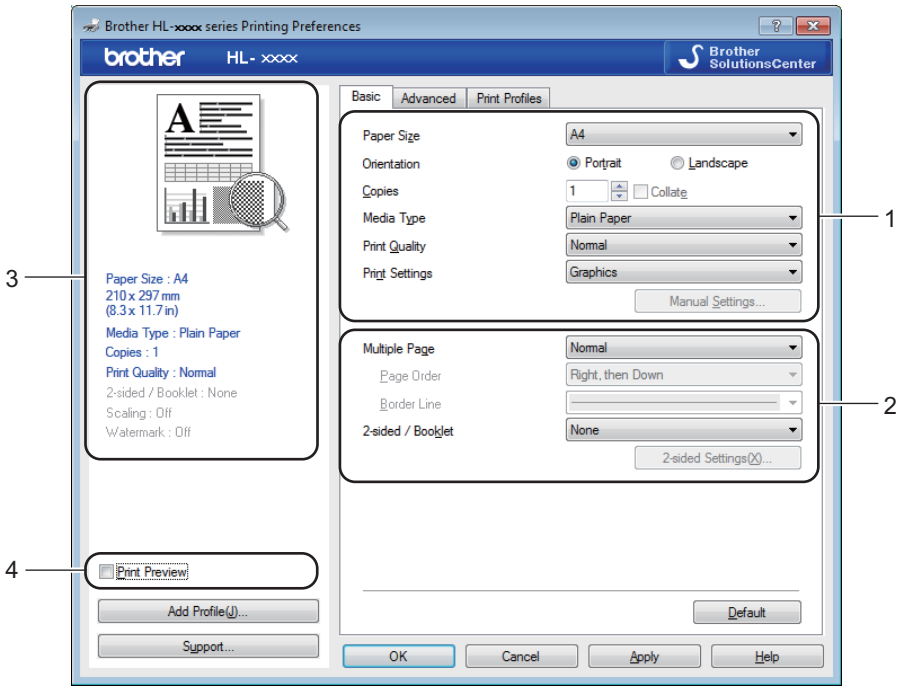
For more information, see the **Help** text in the printer driver.

NOTE

- The screens in this section are from Windows® 7. The screens on your PC will vary depending on your operating system.
- To access the printer driver settings, see *Accessing the printer driver settings* on page 8.

Basic tab

You can also change the Page Layout settings by clicking the illustration on the left side of the **Basic** tab.



1. Choose the **Paper Size**, **Orientation**, **Copies**, **Media Type**, **Print Quality** and **Print Settings** (1).
2. Choose **Multiple Page** and **2-sided / Booklet** (2).
3. Confirm your current settings in the window (3).
4. Click **OK** to apply your chosen settings.
   To return to the default settings, click **Default**, then **OK**.

NOTE

If you want to preview your document before printing, check the Print Preview check box (4).

Paper Size

From the drop-down list choose the Paper Size you are using.

Orientation

Orientation selects the position of how your document will be printed (**Portrait** or **Landscape**).

Portrait (Vertical)	Landscape (Horizontal)

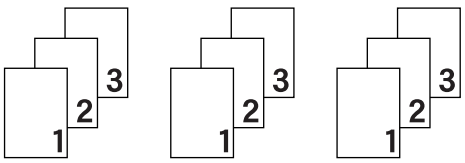
Copies

The copies selection sets the number of copies that will be printed.

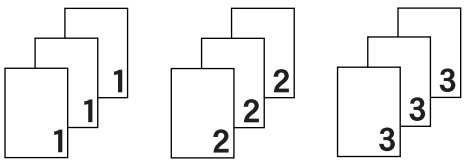
- **Collate**

  With the Collate check box selected, one complete copy of your document will be printed and then repeated for the number of copies you selected. If the Collate check box is not selected, then each page will be printed for all the copies selected before the next page of the document is printed.

Collate checked



Collate non-checked



Media Type

You can use the following types of media in your machine. For the best print quality, select the type of media that you wish to use.

- **Plain Paper**
- **Recycled Paper**

Print Quality

You can choose the print quality as follows.

- **Draft**
- **Normal**
- **Fine**

Print Settings

You can change the print settings as follows:

- **Graphics**

  This is the best mode for printing documents that contain graphics.

- **Text**

  This is the best mode for printing text documents.

- **Manual**

  You can change the settings manually by choosing **Manual** and clicking the **Manual Settings...** button. You can set brightness, contrast and other settings.

Multiple Page

The **Multiple Page** selection can reduce the image size of a page allowing multiple pages to be printed on one sheet of paper or enlarge the image size for printing one page on multiple sheets of paper.

- **Page Order**

  When **N in 1** option is selected, the page order can be selected from the drop-down list.

- **Border Line**

  When printing multiple pages onto one sheet, with the **Multiple Page** feature, you can choose to have a solid border, dash border or no border around each page on the sheet.

- **Print cut-out line**

  When **1 in NxN Pages** option is selected, the **Print cut-out line** option can be selected. This option allows you to print a faint cut-out line around the printable area.

2-sided / Booklet

When you want to print a booklet or do 2-sided printing, use this function.

- **None**

  This disables 2-sided printing.

- **2-sided (Manual)**

  When you want to do 2-sided printing, use this option.

  - **2-sided (Manual)**

    The machine prints all the even numbered pages first. Then the printer driver will stop and show the instructions required to re-insert the paper. When you click **OK** the odd numbered pages will be printed.

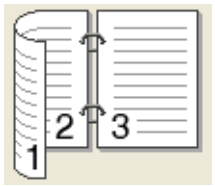
  When you choose **2-sided (Manual)**, the **2-sided Settings...** button becomes available to choose. You can set following settings in the **2-sided Settings** dialog box.

- **2-sided Type**

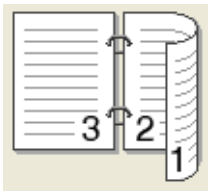
  There are four types of 2-sided binding directions available for each orientation.

Portrait

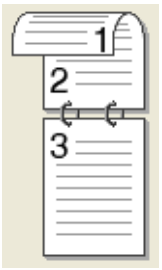
Long Edge (Left)



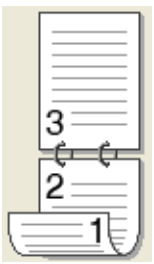
Long Edge (Right)



Short Edge (Top)



Short Edge (Bottom)

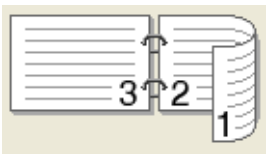


Landscape

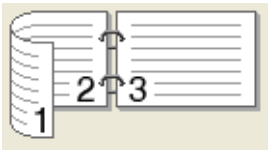
Long Edge (Top)

Long Edge (Bottom)

Short Edge (Right)



Short Edge (Left)



- **Binding Offset**

  When you check **Binding Offset**, you can also specify the offset for binding in inches or millimetres.

■ **Booklet (Manual)**

Use this option to print a document in booklet format using 2-sided printing; it will arrange the document according to the correct page number and allows you to fold at the centre of the print output without having to change the order of the page number.

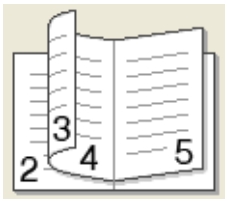
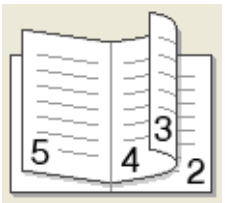
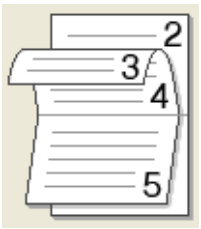
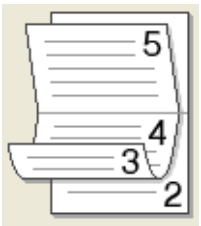
- **Booklet (Manual)**

  The machine prints all the even numbered sides first. Then the printer driver will stop and show the instructions required to re-install the paper. When you click **OK** the odd numbered sides will be printed.

When you choose **Booklet (Manual)**, the **2-sided Settings...** button becomes available to choose. You can set the following settings in the **2-sided Settings** dialog box.

- **2-sided Type**

  There are two types of 2-sided binding directions available for each orientation.

Portrait		Landscape	
Left Binding	**Right Binding**	**Top Binding**	**Bottom Binding**
			

- **Booklet Printing Method**

  When **Divide into Sets** is selected:

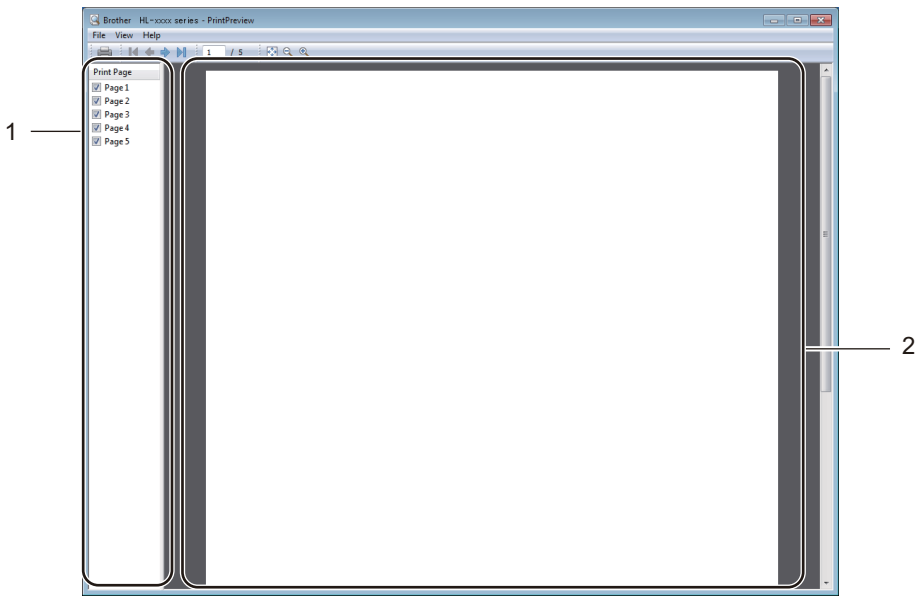
  This option allows you to print the whole booklet into smaller individual booklet sets; it still allows you to fold at the centre of the smaller individual booklet sets without having to change the order of the page number. You can specify the number of sheets in each smaller booklet set, from 1 to 15. This option can help when folding the printed booklet that has a large number of pages.

- **Binding Offset**

  When you check **Binding Offset**, you can also specify the offset for binding in inches or millimetres.

Print Preview

You can preview a document before it is printed. If you check the **Print Preview** check box, the Print Preview Viewer window will open before printing starts.



1 Page List Area

The Page List Area displays the page numbers for the actual pages that will be printed. If you chose a page in this list, a preview of the print results for the page will be displayed in the Preview Area.

If you do not want to print a page, clear the check mark.

2 Preview Area

The Preview Area displays a preview of the print results for the pages chosen in the Page List Area.

NOTE

If **2-sided (Manual)** or **Booklet (Manual)** was chosen in the Printer driver settings, you cannot use the Print Preview function.

Advanced tab

Change the tab settings by clicking one of the following selections:

- **Scaling** (1)
- **Reverse Print** (2)
- **Use Watermark** (3)
- **Header-Footer Print** (4)
- **Toner Save Mode** (5)
- **Administrator** (6)
- **Other Print Options** (7)

Scaling

You can change the print image scaling.

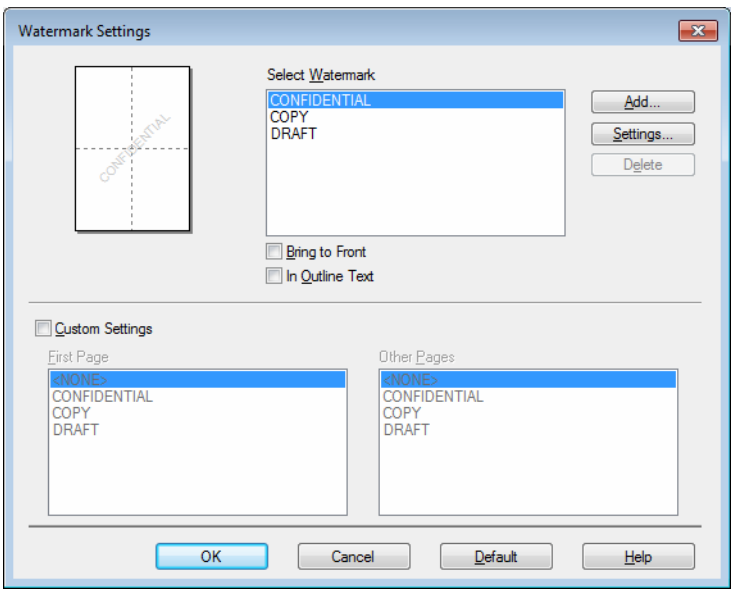
Reverse Print

Check **Reverse Print** to reverse the data from up to down.

Use Watermark

You can put a logo or text into your document as a watermark. You can choose one of the preset Watermarks, or you can use a bitmap file that you have created. Check **Use Watermark** and then click the **Settings...** button.

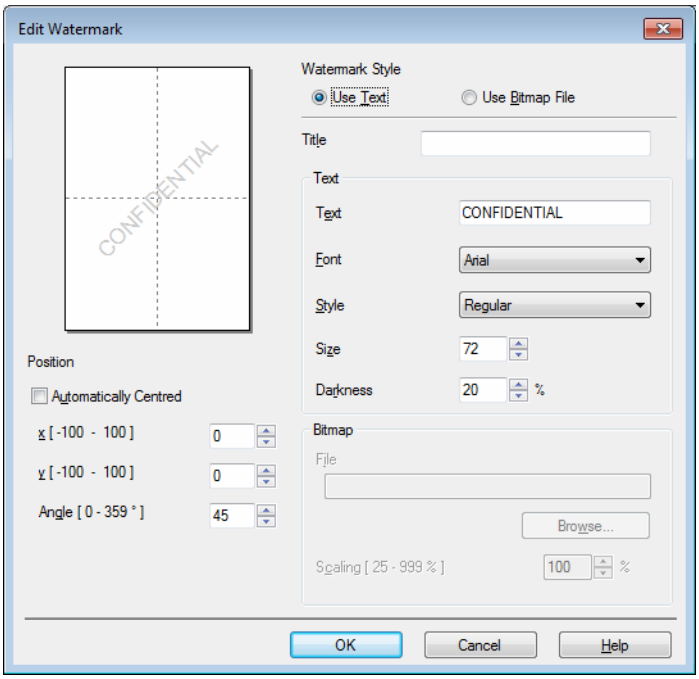
Watermark Settings



Select Watermark

Choose a watermark to use.

To make an original watermark, click the **Add** button to add the watermark settings and then choose **Use Text** or **Use Bitmap File** in **Watermark Style**.



- **Title**

  Enter a suitable title into the field.

- **Text**

  Enter your Watermark Text into the **Text** box, and then choose the **Font**, **Style**, **Size** and **Darkness**.

- **Bitmap**

  Enter the file name and location of your bitmap image in the **File** box, or click **Browse** to search for the file. You can also set the scaling size of the image.

- **Position**

  Use this setting if you want to control the position of the watermark on the page.

Bring to Front

This option will overlay the selected characters or image onto your printed document.

In Outline Text

Check **In Outline Text** if you only want to print an outline of the watermark. It is available when you choose a text watermark.

Custom Settings

You can choose which watermark is to be printed on the first page or on the other pages.

Header-Footer Print

When this feature is enabled, it will print the date and time on your document from your computer's system clock and the PC login user name or the text you entered. By clicking **Settings**, you can customize the information.

■ **ID Print**

If you select **Login User Name**, your PC login user name will be printed. If you select **Custom** and enter text in the **Custom** edit box, the text you entered will be printed.

Toner Save Mode

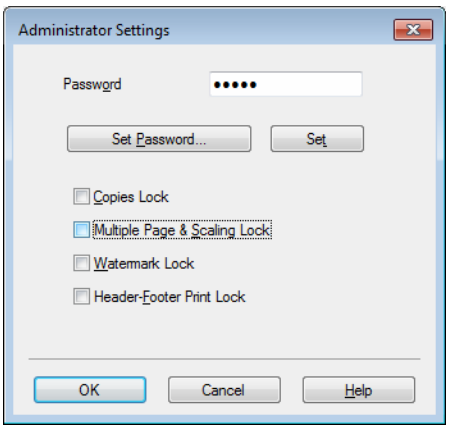
You can conserve toner use with this feature. When you set **Toner Save Mode** to on, print appears lighter. The default setting is off.

NOTE

- We do not recommend **Toner Save Mode** for printing photo or Greyscale images.
- **Toner Save Mode** is not available when **Fine** is selected for **Print Quality**.

Administrator

Administrators have the authority to limit access to functions such as scaling and watermark.



■ **Password**

Enter the password into this box.

NOTE

Click **Set Password...** to change the password.

■ **Copies Lock**

Lock the copy pages selection to prevent multiple copy printing.

■ **Multiple Page & Scaling Lock**

Lock the scaling setting and multiple page setting.

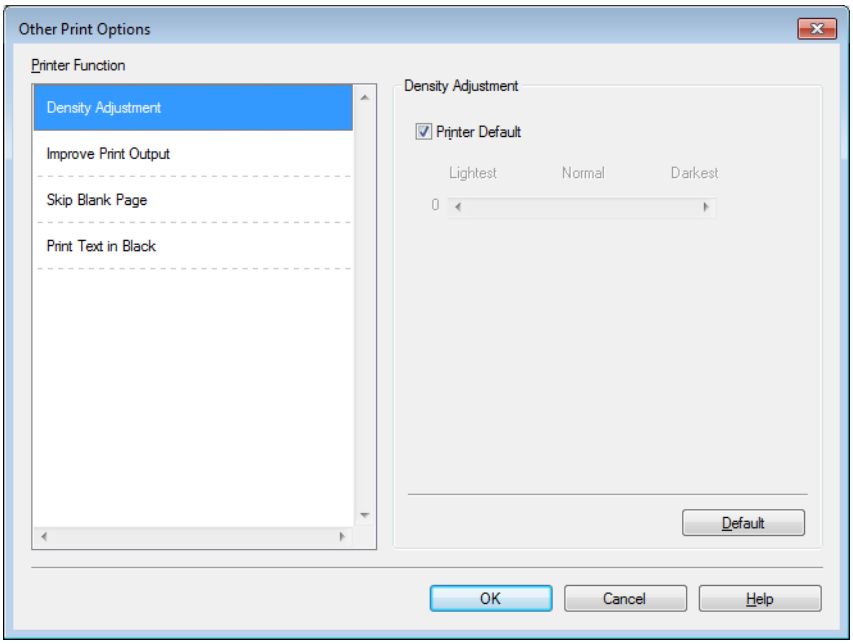
■ **Watermark Lock**

Lock the current settings of the Watermark option to prevent changes being made.

■ **Header-Footer Print Lock**

Lock the current settings of the Header-Footer Print option to prevent changes being made.

Other Print Options



You can set the following in Printer Function:

■ **Density Adjustment**

■ **Improve Print Output**

■ **Skip Blank Page**

■ **Print Text in Black**

Density Adjustment

Increase or decrease the print density.

NOTE

Density Adjustment is not available when **Fine** is selected for **Print Quality**.

Improve Print Output

This feature allows you to improve a print quality problem.

■ **Reduce Paper Curl**

If you choose this setting, the paper curl may be reduced.

If you are printing only a few pages, you do not need to choose this setting.

NOTE

This operation will decrease the temperature of the machine's fusing process.

■ **Improve Toner Fixing**

If you choose this setting, the toner fixing capabilities may be improved.

NOTE

This operation will increase the temperature of the machine's fusing process.

Skip Blank Page

If **Skip Blank Page** is checked, the printer driver automatically detects blank pages and excludes them from printing.

NOTE

This option does not work when you choose the following options:

- **Use Watermark**
- **Header-Footer Print**
- **N in 1** and **1 in NxN Pages** in **Multiple Page**
- **2-sided (Manual)**, **Booklet (Manual)** in **2-sided / Booklet**
- **Print Preview**

Print Text in Black

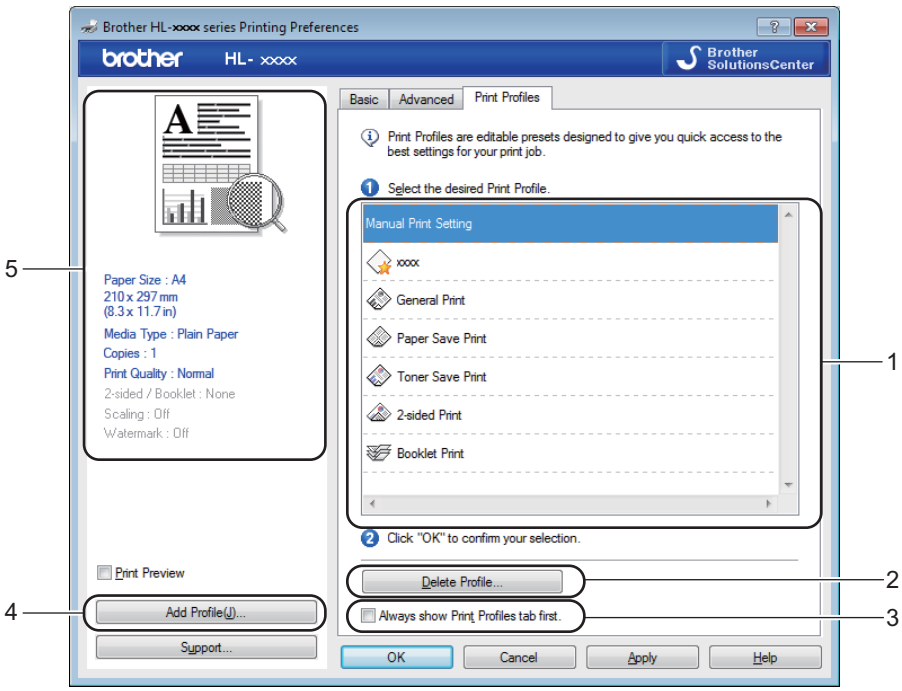
This function enables all text to be printed in Black instead of grey scale.

NOTE

It may not work with certain characters.

Print Profiles tab

Print Profiles are editable presets designed to give you quick access to frequently used printing configurations.



- **Print profile list box** (1)
- **Delete Profile** (2)
- **Always show Print Profiles tab first** (3)
- **Add Profile** (4)
- **Current print profile view** (5)

1. Choose your profile from the print profile list box.
2. If you want to display the **Print Profiles** tab at the front of the window from the next time you print, check **Always show Print Profiles tab first**.
3. Click **OK** to apply your chosen profile.

Add Profile

The **Add Profile** dialog box appears by clicking **Add Profile**. You can add 20 new profiles with your preferred settings.

1. Enter the desired title in **Name**.
2. Choose an icon you want to use from the Icon list, then click **OK**.
3. The current settings shown on the left side of the printer driver window will be saved.

Delete Profile

The **Delete Profile** dialog box appears by clicking **Delete Profile**. You can delete any of the profiles you have added.

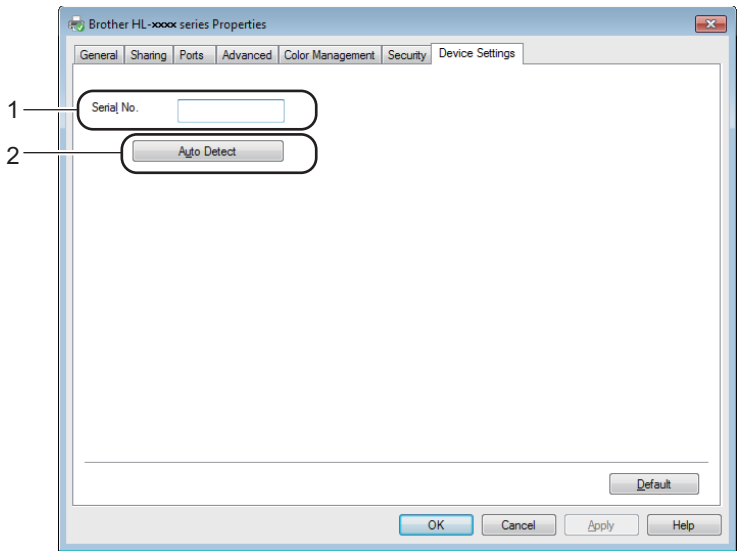
1. Choose your profile from the print profile list box.
2. Click **Delete**.
3. Click **Yes**.
4. The selected profile will be deleted.

Device Settings tab

NOTE

To access the **Device Settings** tab, see *Accessing the printer driver settings* on page 8.

You can auto detect the serial number in the **Device Settings** tab as follows.



■ **Serial No.** (1)

By clicking **Auto Detect** (2), the printer driver will probe the machine and display its serial number. If it fails to receive the information, the screen will display “----------”.

■ **Auto Detect** (2)

The **Auto Detect** function shows the available settings in the printer driver.

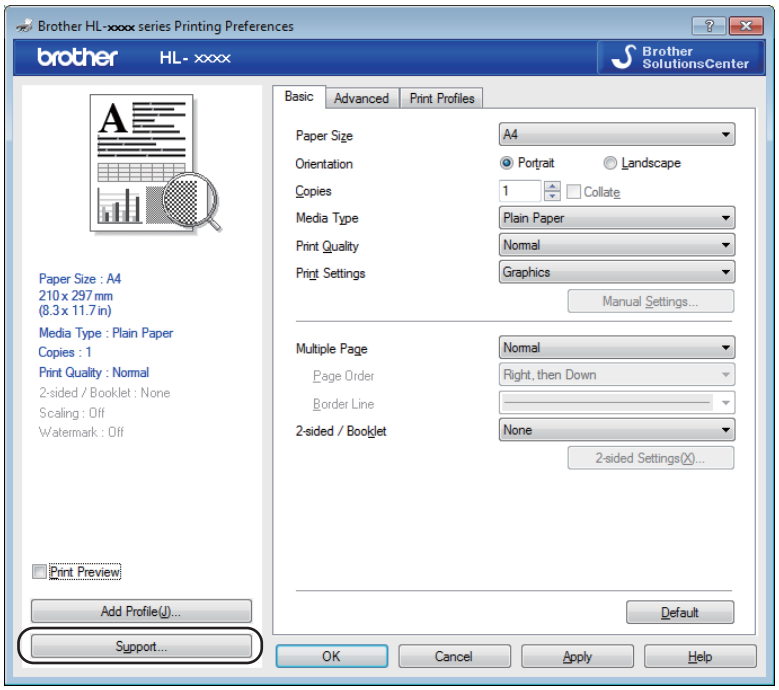
NOTE

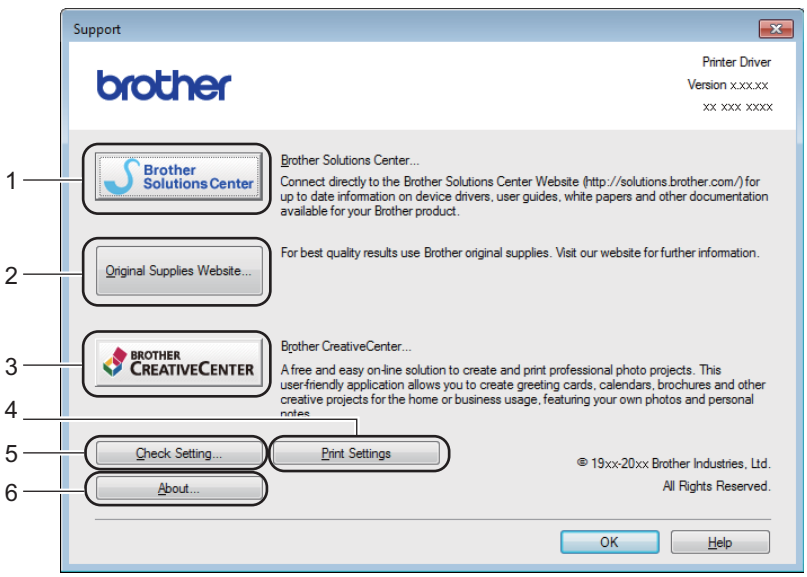
The **Auto Detect** (2) function is not available under the following machine conditions:

- The machine is turned off.
- The machine is in an error state.
- The machine is connected to the print server using a USB cable in a shared network environment.
- The cable is not connected to the machine correctly.

Support

Click **Support...** in the **Printing Preferences** dialog box.





■ **Brother Solutions Center** (1)

The Brother Solutions Center (http://solutions.brother.com/) is a website offering information about your Brother product including FAQs (Frequently Asked Questions), User's Guides, driver updates and tips for using your machine.

- **Original Supplies Website** (2)

  You can visit our website for original/genuine Brother supplies by clicking this button.

- **Brother CreativeCenter** (3)

  You can visit our website for free and easy online solutions for business and home users by clicking this button.

- **Print Settings** (4)

  This button will print the pages that show how the internal settings of the machine have been configured.

- **Check Setting...** (5)

  You can check the current driver settings.

- **About...** (6)

  This button will list the printer driver files and version information.

Uninstalling the printer driver

You can uninstall the printer driver that you have installed with the following steps.

NOTE

- This is not available if you originally installed the printer driver from the Windows® **Add a printer** function.
- After uninstalling, we recommend that you restart your computer to remove files that were in use during the uninstall.

(For Windows® XP, Windows Vista® and Windows® 7)

1. Click the **Start** button, point to **All Programs**, **Brother**, and then to your machine name.
2. Click **Uninstall**.
3. Follow the instructions on the screen.

(For Windows® 8)

1. Click (**Brother Utilities**).
2. Click the drop-down list and select your model name (if not already selected).
3. Click **Tools** in the left navigation bar.
4. Click **Uninstall**.
5. Follow the instructions on the screen.

Status Monitor

The **Status Monitor** utility is a configurable software tool for monitoring the status of one or more devices, allowing you to get immediate notification of error messages.

You can check the device status at anytime by double-clicking the icon in the tasktray or by choosing **Status Monitor** located in **Start/All Programs/Brother/HL-XXXX** on your PC.

(Windows® 7)

To show the **Status Monitor** icon on your taskbar, click the button. The **Status Monitor** icon will appear in the small window. Then drag the icon to the taskbar.

(Windows® 8)

Click (**Brother Utilities**), and then click the drop-down list and select your model name (if not already selected). Click **Tools** in the left navigation bar, and then click **Status Monitor**.

NOTE

- For more information about using the Status Monitor software, right-click the **Status Monitor** icon and choose **Help**.
- The automatic software update feature is active when the status monitor feature is active. With the update feature you can receive both Brother applications and machine firmware updates automatically.

Monitoring the machine’s status

The Status Monitor icon will change colour depending on the machine status.

- A green icon indicates the normal stand-by condition.

- A yellow icon indicates a warning.

- A red icon indicates a printing error has occurred.

There are two locations where you can display the **Status Monitor** on your PC - in the tasktray or on the desktop.

Macintosh

Features in the printer driver (Macintosh)

This machine supports Mac OS X v10.6.8, 10.7.x, 10.8.x.

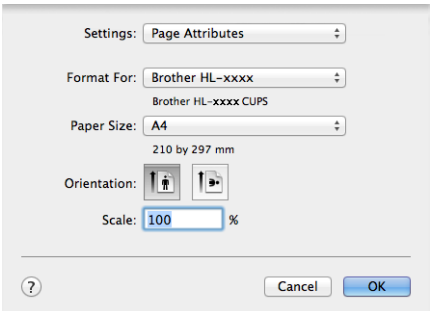
NOTE

- The screens in this section are from OS X v10.7. The screens on your Macintosh will vary depending on your operating system version.
- The printer driver for Macintosh is available from the download page for your model on the Brother Solutions Center (http://solutions.brother.com/).

Choosing page setup options

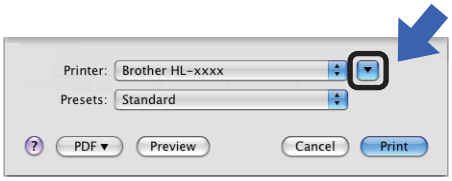
You can set the **Paper Size**, **Orientation** and **Scale**.

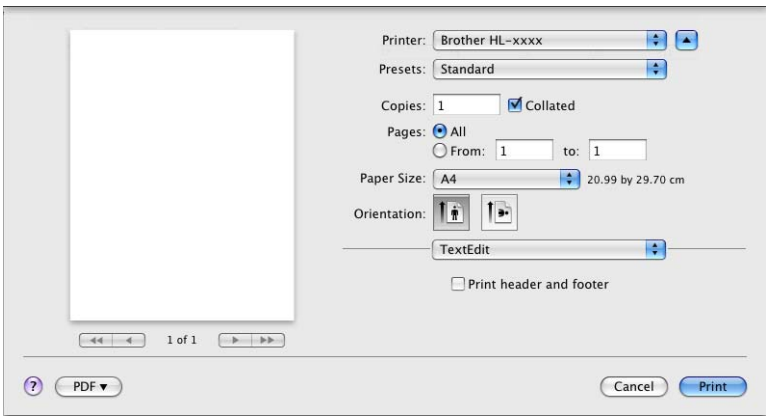
1. From an application such as TextEdit, click **File**, then **Page Setup**. Make sure **Brother HL-XXXX** (where XXXX is your model name.) is chosen in the **Format For** pop-up menu. You can change the settings for **Paper Size**, **Orientation** and **Scale**, then click **OK**.



2 From an application such as TextEdit, click **File**, then **Print** to start printing.

■ (For Mac OS X v10.6.8)
For more page setup options, click the disclosure triangle beside the Printer pop-up menu.

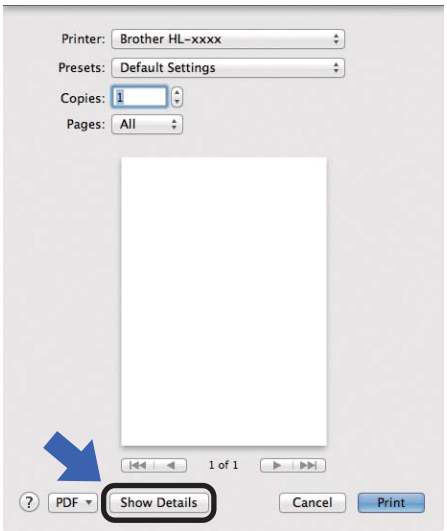


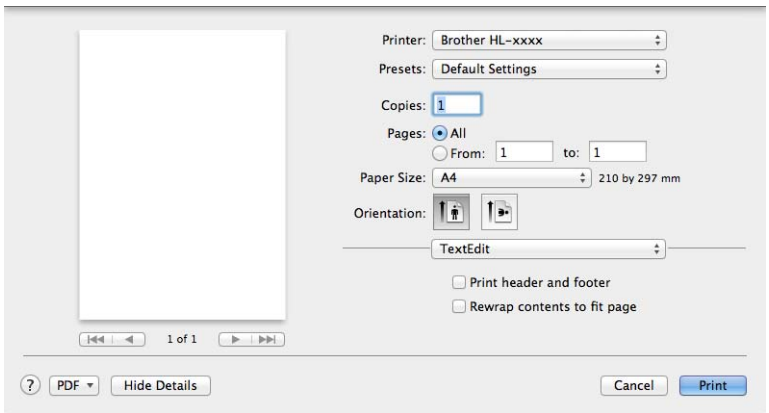


NOTE

You can save the current settings as a preset by choosing **Save As** from the **Presets** pop-up menu.

■ (For OS X v10.7.x and v10.8.x)
For more page setup options, click the **Show Details** button.



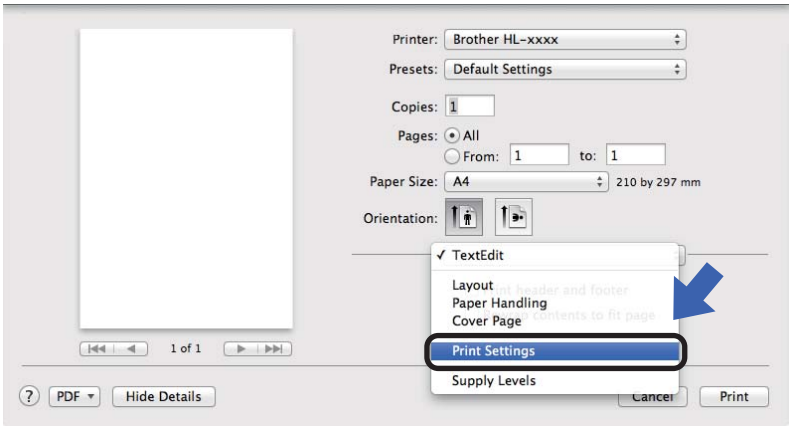


NOTE

You can save the current settings as a preset by choosing **Save Current Settings as Preset...** from the **Presets** pop-up menu.

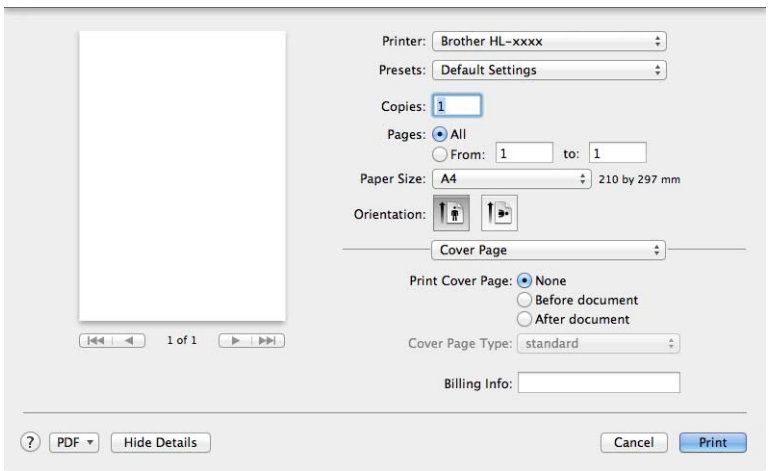
Choosing printing options

To control special printing features, choose **Print Settings** from the Print dialog box. For the details of available options, see the following descriptions of each option.



Cover Page

You can choose the following cover page settings:



- **Print Cover Page**

  If you want to add a cover page to your document, use this function.

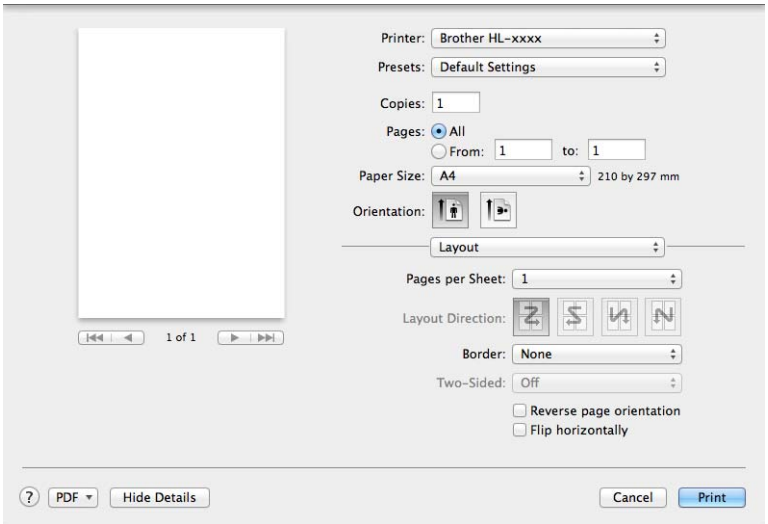
- **Cover Page Type**

  Choose a template for the cover page.

- **Billing Info**

  If you want to add the billing information to the cover page, enter text in the **Billing Info** box.

Layout



- **Pages per Sheet**

  The **Pages per Sheet** selection can reduce the image size of a page by allowing multiple pages to be printed on one sheet of paper.

- **Layout Direction**

  When you specify the pages per sheet, you can also specify the direction of the layout.

- **Border**

  If you want to add a border, use this function.

- **Reverse page orientation**

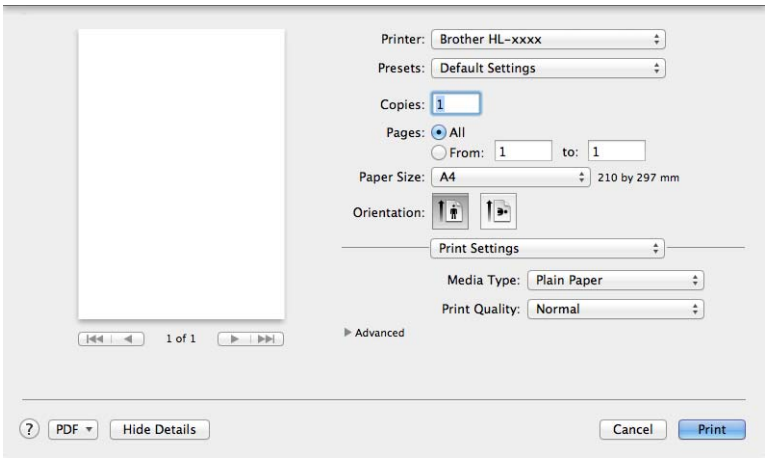
  Check **Reverse page orientation** to reverse the data from up to down.

- **Flip horizontally**

  Check **Flip horizontally** to print as a reflection flipped left-to-right.

Print Settings

You can change settings by choosing a setting in the **Print Settings** list:



■ Media Type

You can change the media type to one of the following:

- **Plain Paper**
- **Recycled Paper**

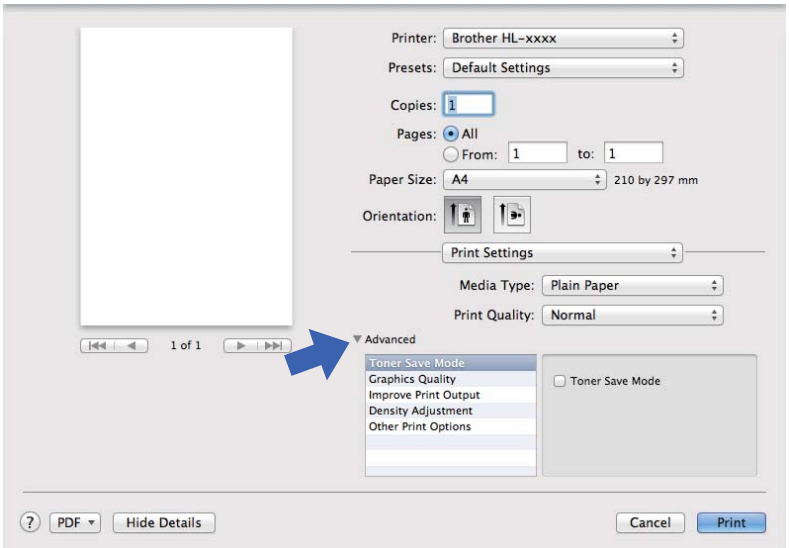
■ Print Quality

You can change the print quality as follows:

- **Draft**
- **Normal**
- **Fine**

Advanced print settings

When you click the triangle mark (▶) beside **Advanced**, the advanced print settings appear.



■ Toner Save Mode

You can conserve toner use with this feature. When you set **Toner Save Mode** to on, print appears lighter. The default setting is off.

NOTE

- We do not recommend **Toner Save Mode** for printing Photo or Greyscale images.
- **Toner Save Mode** is not available when **Fine** is selected for **Print Quality**.

■ Graphics Quality

You can change the print quality as follows:

- **Graphics**

  This is a graphics mode (contrast priority). Choose this setting for printing text and figures, such as business and presentation documents. You can represent sharp contrasts between shaded areas.

- **Text**

  This is the best mode for printing text documents.

■ Improve Print Output

This feature allows you to improve a print quality problem.

- **Reduce Paper Curl**

  If you choose this setting, the paper curl may be reduced.

  If you are printing only a few pages, you do not need to choose this setting.

NOTE

This operation will decrease the temperature of the machine's fusing process.

- **Improve Toner Fixing**

  If you choose this setting, the toner fixing capabilities may be improved.

NOTE

This operation will increase the temperature of the machine's fusing process.

■ **Density Adjustment**

Increase or decrease the print density.

■ **Other Print Options**

- **Skip Blank Page**

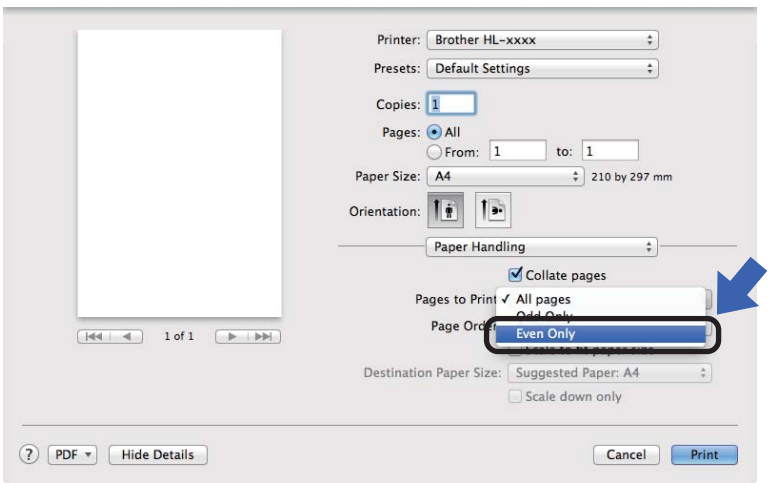
  If **Skip Blank Page** is checked, the printer driver automatically detects blank pages and excludes them from printing.

2-sided Printing

■ **Manual 2-sided Printing**

Select **Paper Handling**.

- Choose **Even Only** and **Print**. Reload the printed paper into the tray (blank side face down). Choose **Odd Only** and **Print**.



Removing the printer driver

1. Log in as an ‘Administrator’.
2. From the Apple menu, choose **System Preferences**. Click **Print & Scan** [1], then choose the printer you want to remove and remove it by clicking the **-** button.
3. Click **Delete Printer**.

[1] **Print & Fax** for Mac OS X v10.6.8 users

Status Monitor

The **Status Monitor** utility is a configurable software tool for monitoring the status of the machine, letting you see error messages at pre-set update intervals.
You can check the device status by launching Brother Status Monitor following these steps:

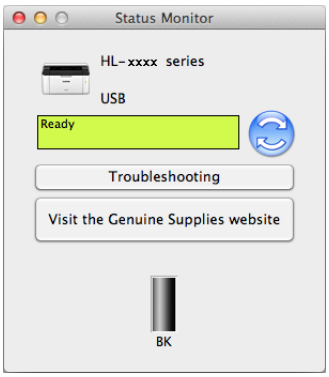
1. Run the **System Preferences**, select **Print & Scan** [1], then choose the machine.
2. Click the **Options & Supplies...**. Select the **Utility** tab then click **Open Printer Utility**. Status Monitor will start up.

[1] **Print & Fax** for Mac OS X v10.6.8 users

Updating the machine's status

If you want the latest machine status while the **Status Monitor** window is open, click the Refresh icon.

You can set the interval at which the software will update the machine status information. Go to the menu bar, **Brother Status Monitor** and choose **Preferences**.



Hiding or showing the window

After starting the **Status Monitor**, you can hide or show the window. To hide the window, go to the menu bar, **Brother Status Monitor** and choose **Hide Status Monitor**. To show the window, click the **Brother Status Monitor** icon in the dock.

Quitting the window

Click **Brother Status Monitor** in the menu bar and then choose **Quit Status Monitor** from the pop-up menu.

Software

Remote Printer Console (Windows® only)

Remote Printer Console is software to change many of the printer settings independently of your application. For example, you can change the settings for printer margin and so on. These settings are then remembered and used by the machine. The application and printer driver settings will take priority over the Remote Printer Console settings.

NOTE

Not available to countries subject to applicable export regulations.

How to use and install the Remote Printer Console software

To use the Remote Printer Console software, follow the steps below.

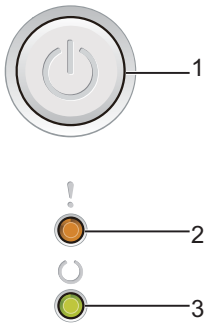
1. Put the supplied installer CD-ROM into your CD-ROM drive and close the opening screen when it appears.
2. Open Windows® Explorer and choose the CD-ROM drive.
3. Double-click the **tools** folder.
4. Double-click the **rpc** folder.
5. Refer to the **RPC_User's_Guide.pdf** for how to install and use the Remote Printer Console.

3 General Information

Control panel

LEDs (Light Emitting Diodes)

This section refers to two LEDs and one key on the control panel.



1 **Power On/Off**

You can turn the machine on and off.

Press and hold down to turn the machine on.

Press and hold down to turn the machine off. All the LEDs turn off when you enable the Power Off mode.

Also, you can use the following functions:
1 Job Cancel / All Jobs Cancel
Error recovery / Form feed
For details, see *Power On/Off key* on page 42.

2 **Error LED (!)**

The **Error** LED (!) indicates that the machine is in error state.

Also, the **Error** LED (!) indicates the kind of error in combination with other LEDs.

3 **Ready LED (◯)**

The **Ready** LED (◯) will blink depending on the machine status.

The LED indications shown in the table below are used in the illustrations in this chapter.

○	LED is off.
● or ●	LED is on.
◐	LED is dimmed.
☼ or ☼	LED is blinking.

LEDs	Machine Status
	Sleep The machine is in Sleep Mode (Power Save mode). While the machine is in Sleep Mode, the **Ready** LED (◯) is dimmed, but the machine can still receive data. Receiving a print job will automatically wake up the machine to start printing. For more information, see *Sleep Time* on page 44.
	Deep Sleep The machine is in Deep Sleep Mode, reducing more power consumption than Sleep mode. While the machine is in Deep Sleep Mode, the **Ready** LED (◯) is dimmed, but the machine can still receive data. Receiving a print job will automatically wake up the machine to start printing. For more information, see *Deep Sleep mode* on page 44.
	Ready The machine is ready to print.
	Printing The machine is printing.
	Please Wait The machine is warming up. The **Ready** LED (◯) will blink in 1 second intervals.
	Cooling Down The inside of the machine is extremely hot. The machine will pause its current print job and go into Cooling Down mode. Wait until the machine is in Ready mode. The **Ready** LED (◯) will blink in 1 second intervals.
	Receiving Data The machine is either receiving data from the computer or processing data in the memory. The **Ready** LED (◯) will blink in 0.5 second intervals.
	Data Remaining There is remaining print data in the machine's memory. If the **Ready** LED (◯) is blinking for a long time and nothing has printed, press to print the remaining data in the memory. The **Ready** LED (◯) will blink in 0.5 second intervals.

LEDs	Machine Status
	Toner Low The toner cartridge will need to be replaced soon. Buy a new toner cartridge and have it ready for when **Replace Toner** is indicated. The **Error** LED (!) will blink once in 1.5 seconds intervals. If the printout is faint, hold the drum unit and toner cartridge assembly level with both hands and gently shake it from side to side several times to spread the toner evenly inside the cartridge.
	Replace Toner (Continue mode) The machine continues printing until the LED indicates **Toner Ended**. The **Error** LED (!) will blink once in 1.5 seconds intervals. For details about Continue mode, see *Toner Setting* on page 47.
	Replace Toner (Stop mode) Replace the toner cartridge with a new one. The **Error** LED (!) will blink once in 1.5 seconds intervals. For details about Stop mode, see *Toner Setting* on page 47. (See the instructions that we have supplied with the new toner cartridge.)
	No Toner Remove the drum unit and toner cartridge assembly, remove the toner cartridge from the drum unit, and re-install the toner cartridge back into the drum unit again. Re-install the drum unit and toner cartridge assembly back in the machine. If the problem continues, replace the toner cartridge. The **Error** LED (!) will blink once in 1.5 seconds intervals. (See the instructions that we have supplied with the new toner cartridge.)
	Toner Ended Replace the toner cartridge with a new one. The **Error** LED (!) will blink once in 1.5 seconds intervals. (See the instructions that we have supplied with the new toner cartridge.)
	Cartridge Error The drum unit and toner cartridge assembly is not installed correctly. Take the drum unit and toner cartridge assembly out of the machine and put it back in. Use only a genuine Brother Original drum unit and genuine Brother Original toner units. The **Error** LED (!) will blink 4 times and turn off for 1 second.
	Drum End Soon / **Replace Drum** Replace the drum with a new one. Reset the drum counter. (See the insertion included with the drum unit.) We recommend you keep a Brother Original drum unit ready for installation. The **Error** LED (!) will blink 3 times and turn off for 1 second.

LEDs	Machine Status
	Drum ! The corona wire needs to be cleaned. See *Cleaning the corona wire* on *Improving the print quality*. The **Error** LED (!) will blink 3 times and turn off for 1 second.
	No Drum If the toner cartridge is placed in the machine without the drum unit, put the toner cartridge into the drum unit, and then reinstall the drum unit and toner cartridge assembly in the machine. The **Error** LED (!) will blink 3 times and turn off for 1 second.
	Jam Tray / **Jam Inside 1** / **Jam Inside 2** / **Jam Inside 3** Clear the paper jam. See *Paper jams* on page 54. If the machine does not start printing, press . The **Error** LED (!) will blink twice and turn off for 1 second.
	Wrong Paper Type The width or length of the paper in the paper tray is too small. Put paper that can be used in the paper tray, and then press . Usable paper sizes are A4, Letter, Legal, and Folio. (See *Acceptable paper* on page 2.) The **Error** LED (!) will blink twice and turn off for 1 second.
	No Paper Put paper in the paper tray you are using. The **Error** LED (!) will blink twice and turn off for 1 second.
	Cover is Open Close the top cover of the machine. The **Error** LED (!) will blink 4 times and turn off for 1 second.
	Out of Memory Press and hold for about 2 seconds until all the LEDs light up and then release it. The machine will cancel the print job and clear it from the memory. The machine also cancels the print job and clears it from the memory automatically one minute after entering the **Out of Memory** state. Reduce the complexity of your document or lower the print quality. The **Error** LED (!) will blink 4 times and turn off for 1 second.
	Job Cancel The machine is canceling the job. The **Error** LED (!) and **Ready** LED (◯) will light up alternately.

Service call indications

If there is an error that cannot be cleared by the user, the machine will show that a service call is needed by lighting up all the LEDs as shown below.

If you see the service call indication shown above, turn off the machine, and then turn it back on and try to print again.

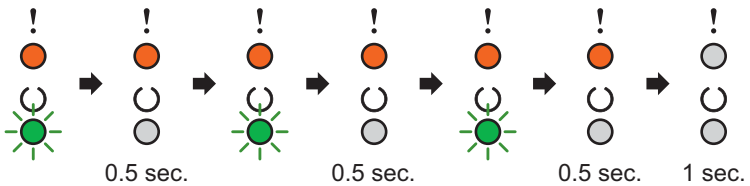
If the error is not cleared after turning the machine off and then back on, press . The LEDs will light up as shown in the following table to identify the error. The number under the LED icon shows how many times the LED will blink.

LED error indication

LEDs	Main PCB failure	Fuser unit failure [1]	Laser unit failure	Main motor failure	High voltage failure	Zero Cross error
Error	●	●	●	●	●	●
Ready	☼ (7)/(4)	☼ (3)	☼ (5)	☼ (6)	☼ (2)	☼ (1)

[1] If this error occurs, turn off the machine, wait a few seconds, and then turn it on again. Leave the machine for approx. 15 minutes with the power on. If the error occurs again, call Brother customer service or your local Brother dealer.

For example, the LED indication below shows a fuser unit failure.



Make a note of the indication, referring to *LED error indication* on page 41, and report the error status to Brother customer service or your local Brother dealer.

NOTE

Make sure that the top cover is completely closed before you report a service call.

Power On/Off key

Power On/Off key has the following functions:

- Power Off

  Make sure that the machine is in the **Ready** mode, then hold down for about 2 seconds. All the LEDs turn off when you enable the Power Off mode. For details about Power Off mode, see *Power Off mode* on page 45.

- Cancel printing

  Cancel the current job being printed: Press and hold for about 2 seconds. The machine will then eject the paper. The **Error** LED (!) and **Ready** LED (◯) will light up alternately. Then release .

  Cancel all the received jobs: To delete all jobs, cancel the current job first following the procedure above. While all the LEDs light up alternately, press again. All the LEDs will keep on lighting up alternately as the job(s) is being canceled.

- Error recovery

  If there is an error, the machine will recover automatically from some errors. If an error is not automatically cleared, press to clear the error, and then continue to use the machine.

- Form feed

  If the **Ready** LED (◯) blinks for a long time, press . The machine will print any data that is left in the machine's memory.

Print a Printer Settings page

You can print the current settings using the control panel button or printer driver.

Using the Power On/Off key

1. Make sure that the top cover is closed and the power cord is plugged in.
2. Turn on the machine and wait until the machine is in Ready mode.
3. Press three times. The machine will print the current printer settings page.

Using the printer driver

If you are using the Windows® printer driver, you can print the current printer settings page by clicking the **Print Settings** button in the **Support** dialog box.

Ecology features

Toner Save

You can save toner using this feature. When you set Toner Save to on, prints appear lighter. The default setting is off.

You can change the toner save mode setting on the printer driver.

To change the toner save mode setting, see the following:

- *Advanced tab* on page 14 (Windows® printer driver)
- *Print Settings* on page 32 (Macintosh printer driver)

Sleep Time

The Sleep mode setting can reduce power consumption. When the machine is in Sleep Mode (Power Save mode) it acts as though it were turned off. The machine will wake up and start printing when it receives a print job.

The machine automatically goes into Sleep mode after it is idle for 1 minute. When the machine receives a print file or document, the timer will be reset. While the machine is in Sleep mode the **Ready** LED (◯) glows dimly.

Deep Sleep mode

If the machine is in Sleep mode and does not receive any jobs for a certain length of time, the machine will go into Deep Sleep mode automatically and the **Ready** LED (◯) glows dimly. Deep Sleep mode uses less power than Sleep Mode. The machine will wake up, when the machine receives a print job.

Power Off mode

If the machine is in Deep Sleep mode for 1 hour, it enters Power Off mode automatically. Power Off mode is the lowest power consumption mode, which achieves a power consumption of less than 0.28 W. To start printing, hold key on the control panel until all the LEDs light up. Then send the print data.

You can enable the Power Off mode feature manually by following these steps:

1. Make sure that the top cover is closed and the power cord is plugged in.
2. Turn on the machine and wait until the machine is in the Ready mode.
3. Hold down key for about 2 seconds.
   All the LEDs turn off when you enable the Power Off mode.

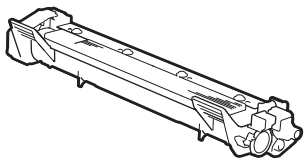
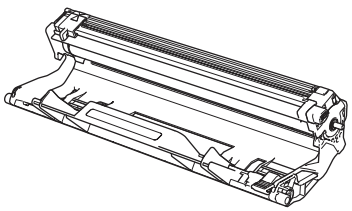
NOTE

You can change the Power Off mode setting through the Remote Printer Console. For more information on the Remote Printer Console, see *Remote Printer Console (Windows® only)* on page 36.

A Troubleshooting and other information

Consumable items

The drum unit and toner cartridge are two separate consumables. Make sure both are installed as an assembly. For more information on how to replace the consumable items, see the instructions included with the drum unit for replacing the drum unit or see the instructions listed on the box of the toner cartridge for replacing the toner cartridge.

Toner cartridge	Drum unit
Model Name: (For HL-1110 and HL-1112) TN-1050 (For HL-1110E and HL-1112E) TN-1030	Model Name: (For HL-1110 and HL-1112) DR-1050 (For HL-1110E and HL-1112E) DR-1030
	

IMPORTANT

- Brother machines are designed to work with toner of a particular specification and will work to a level of optimum performance when used with Brother Original toner cartridges. Brother cannot guarantee this optimum performance if toner or toner cartridges of other specifications are used. The machine may not detect toner or toner cartridges of other specifications correctly but may instead detect such items as standard yield toner cartridges. Brother does not therefore recommend the use of cartridges other than Brother Original cartridges with this machine, or the refilling of empty cartridges with toner from other sources. If damage is caused to the drum unit or other parts of this machine as a result of the use of toner or toner cartridges other than Brother Original products due to the incompatibility or lack of suitability of those products with this machine, any repairs required as a result may not be covered by the warranty.
- For best performance, use a Brother Original drum unit and Brother Original toner units.
  Printing with a third party drum unit or toner unit may reduce not only the print quality but also the quality and life of the machine itself. Warranty coverage may not apply to problems caused by the use of a third party drum or toner unit.

NOTE

Go to http://www.brother.com/original/index.html for instructions on how to return the used toner cartridge to the brother collection program. If you choose not to return your used toner cartridge, please discard the used toner cartridge according to local regulations, keeping it separate from domestic waste. If you have questions, call your local waste disposal office. (See Product Safety Guide: *Recycling information in accordance with the WEEE and Battery Directives*)

Toner Setting

The printing operation varies depending on the machine setting:

■ Default setting (Stop mode)

The machine will stop printing until you replace the toner cartridge with a new one when the LEDs indicate **Replace Toner**.

■ Continue mode

To force the machine to continue printing after the LEDs indicate **Replace Toner**, press seven times to enter Continue mode (all the LEDs blink twice, and then the **Ready** LED (◯) turns on). The machine will continue printing until the LEDs indicate **Toner Ended**.

To return to the default setting (Stop mode), press seven times (all the LEDs blink once).

NOTE

- Make sure that the top cover is closed before you change the mode.
- When the LEDs indicate an error mode, you cannot change the mode.
- If you continue printing in the Continue mode, we cannot guarantee the print quality.
- While using Continue mode the print may appear faint.

Identifying your problem

First, check the following.

- The machine's power cord is connected correctly and the machine is turned on.
- All of the protective parts have been removed.
- Paper is inserted correctly in the paper tray.
- The interface cable is securely connected to the machine and the computer.

If you did not solve your problem with the above checks, identify your problem and then go to the page suggested below:

If you are having difficulty with your machine on page 58

Improving the print quality on page 50

If the machine is connected to a PC, depending on the error, a Popup application may appear on the PC. Follow the instructions on the screen to resolve the error.

Error messages in the Status Monitor

The most common error and maintenance messages are shown below.

If you need more help, the Brother Solutions Center offers the latest FAQs and troubleshooting tips: Visit us at http://solutions.brother.com/.

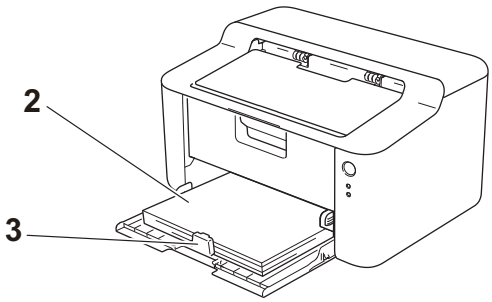
Error message	Cause	Action
Cartridge Error	The toner cartridge is not installed correctly.	Pull out the drum unit and toner cartridge assembly, take out the toner cartridge, and put it back into the drum unit again. Put the drum unit and toner cartridge assembly back in the machine. If the problem continues, call your Brother Customer Service.
	Verify you are using a genuine Brother toner cartridge.	Use only a genuine Brother Original drum unit and genuine Brother Original toner cartridge.
Cover is Open	The top cover is not closed completely.	Close the top cover of the machine.
Drum End Soon	The drum unit is near the end of its life.	Order a new drum unit now so a replacement drum unit will be available when the **Status Monitor** indicates **Replace Drum**. (See *Drum End Soon / Replace Drum* on *LEDs (Light Emitting Diodes)*.)
Replace Drum	It is time to replace the drum unit.	Replace the drum unit. (See the instructions that are supplied with the new drum unit.)
	The drum unit counter was not reset when a new drum was installed.	Reset the drum unit counter. (See the instructions that are supplied with the new drum unit.)
Replace Toner	The toner cartridge is at the end of its life. The machine will stop all print operations.	Replace the toner cartridge. (See the instructions that are supplied with the new toner cartridge.)
Toner Low	If the **Status Monitor** shows **Toner Low** you can still print; however, the machine is telling you that the toner cartridge is near the end of its life.	Order a new toner cartridge now so a replacement toner cartridge will be available when the **Status Monitor** shows **Replace Toner**.

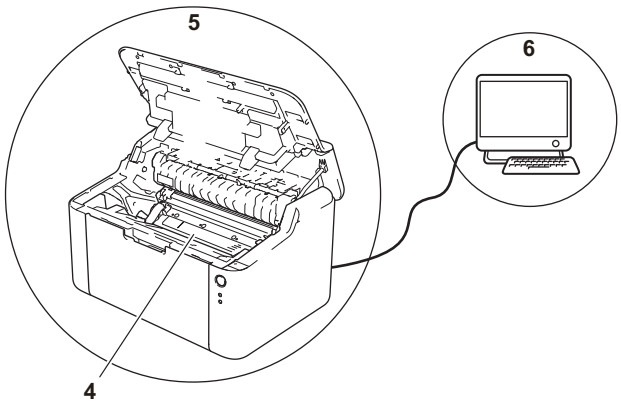
Improving the print quality

NOTE

Brother does not recommend the use of cartridges other than genuine Brother Original cartridges or the refilling of used cartridges with toner from other sources.

If you are having problems with print results, check the following:





1 The machine's environment.

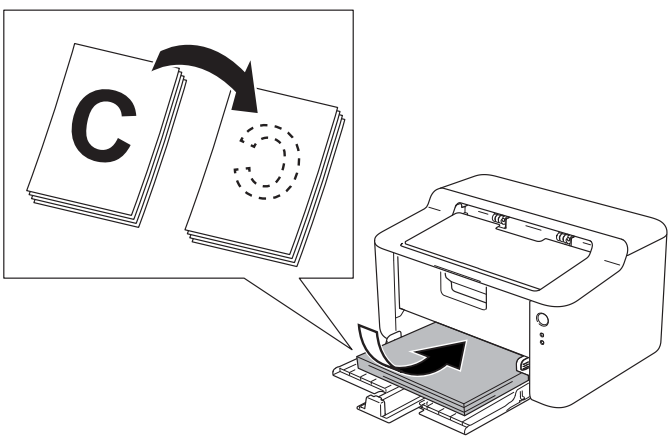
Choose a location where the temperature remains between 10°C and 32.5°C and the humidity is between 20% to 80% (without condensation).

2 Acceptable paper is loaded in the paper tray.

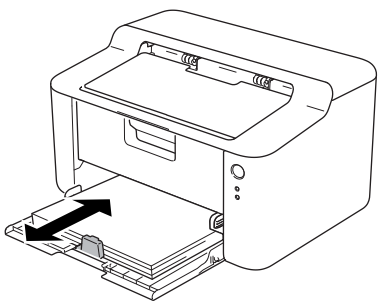
See *Acceptable paper* on page 2.

3 The paper is loaded correctly in the machine.

Turning the paper over may help paper loading become smoother.



Adjusting the guide may help paper loading become smoother.



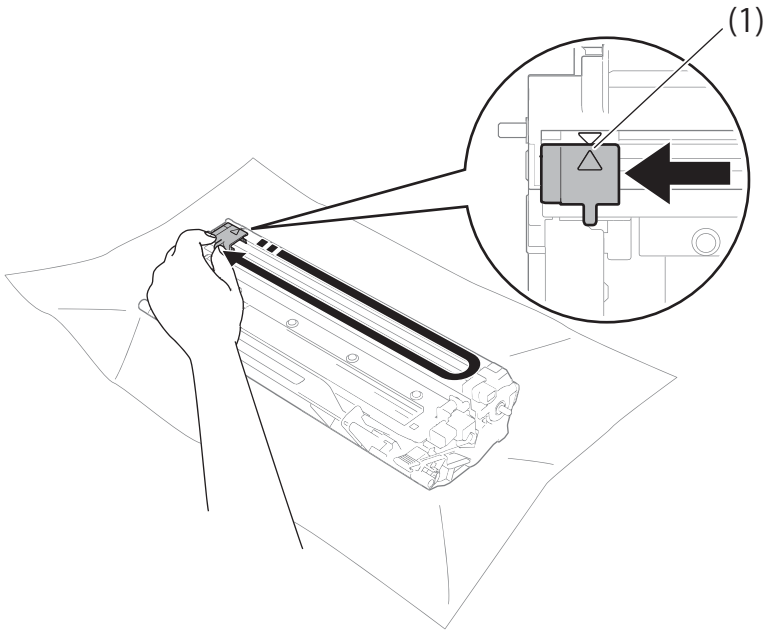
4 Replace a toner cartridge or a drum unit.

For more information on how to replace the consumable items, see the instructions included with the drum unit for replacing the drum unit or see the instructions listed on the box of the toner cartridge for replacing the toner cartridge.

5 Clean the inside of the machine.

■ Cleaning the corona wire

Slide the green tab from left to right and right to left several times.

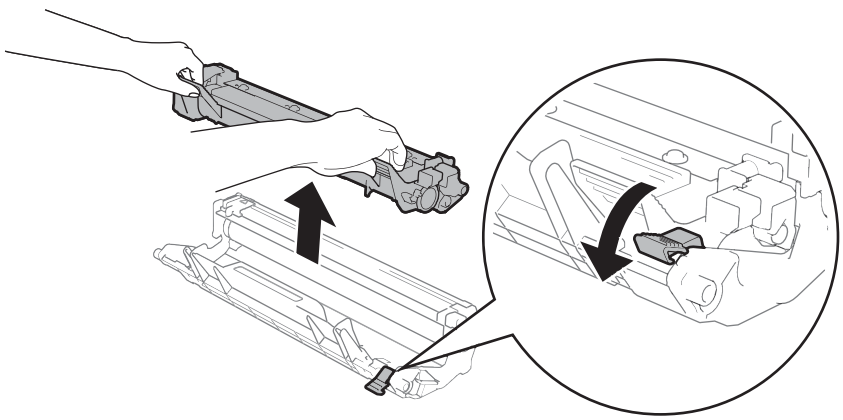


NOTE

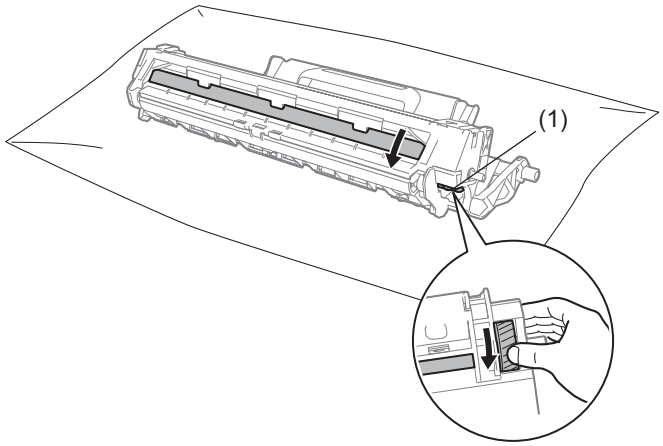
Be sure to return the tab to the home position (▲) (1). If you do not, printed pages may have a vertical stripe.

■ Clean the drum unit if black or white dots appear on printed pages.

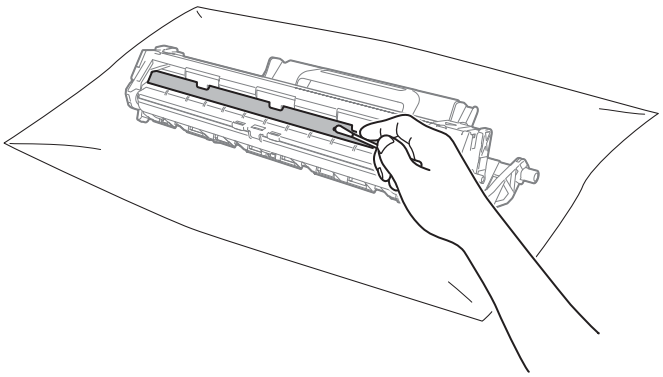
Push down the lock lever and take the toner cartridge out of the drum unit.



Turn the drum unit gear by hand while looking at the surface of the drum roller (1).

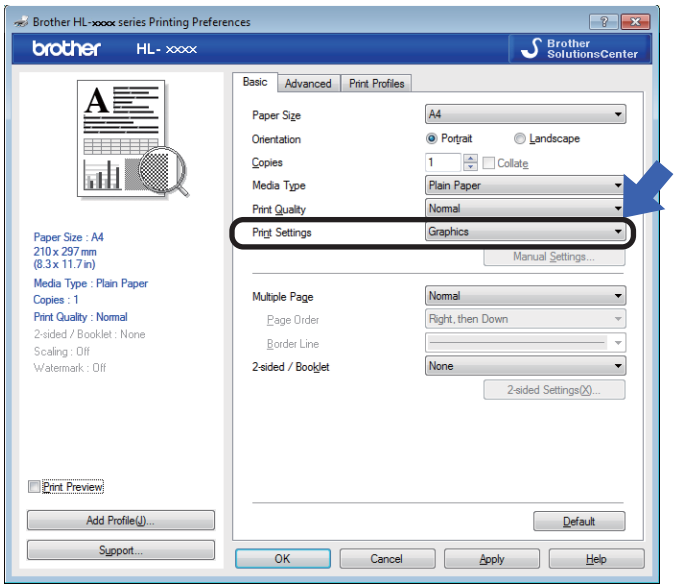


Wipe the surface of the drum gently with a dry cotton swab until the dust or glue on the surface comes off.

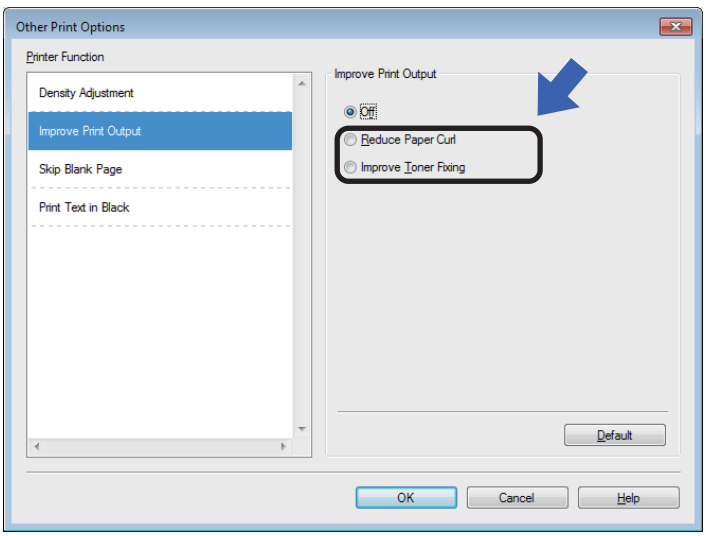


6 Check the printer driver settings.

Try changing the **Print Settings** in **Basic** tab.



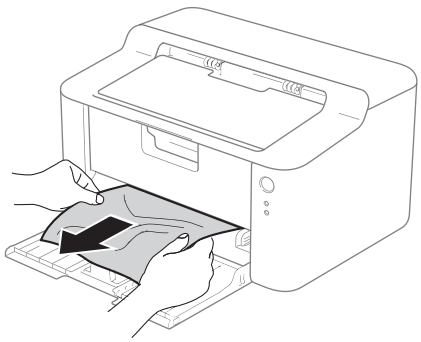
If the paper is curled or the toner is not fixed well on the paper, you can adjust these settings in **Improve Print Output**. Click **Other Print Options** in the **Advanced** tab.



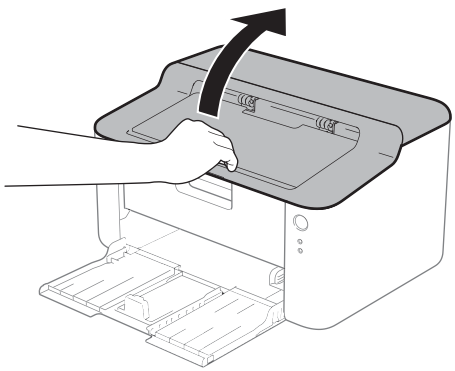
Paper jams

If a paper jam occurs inside the machine or the paper tray, the **Error** LED (!) will blink twice.

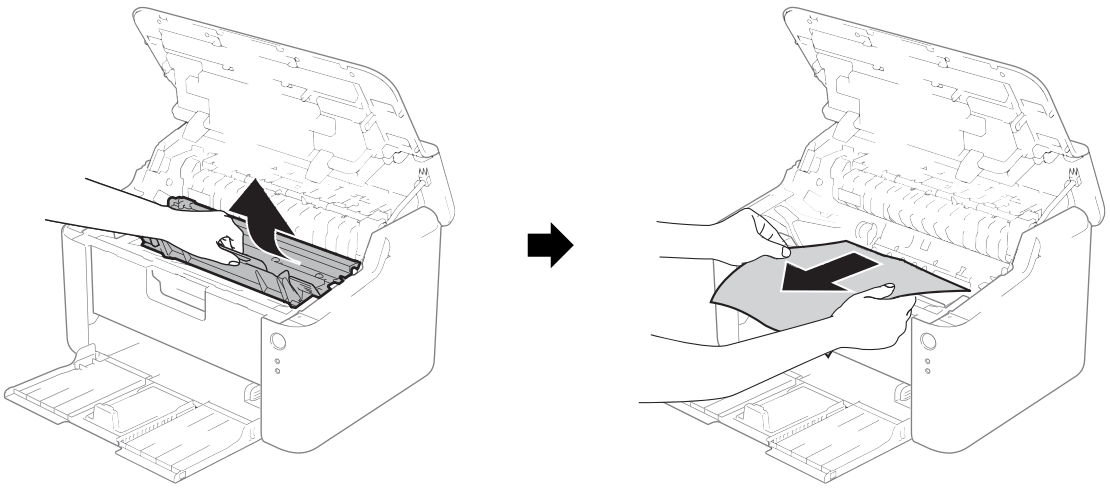
1. Leave the machine turned on for 15 minutes for the product to cool down before you touch the internal parts of the product.
2. Use both hands to slowly pull out the jammed paper.



3. Open the top cover.

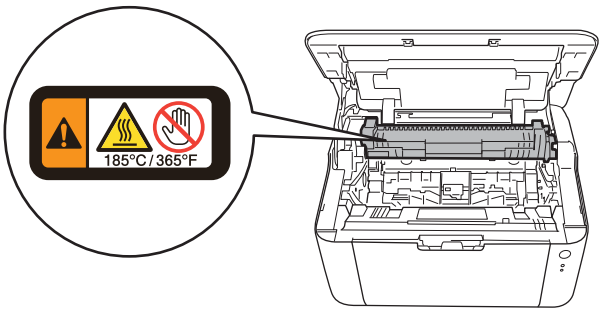


4 Slowly take out the drum unit and toner cartridge assembly. The jammed paper may be pulled out with the drum unit and toner cartridge assembly, or this may release the paper so you can pull it out from inside of the machine.

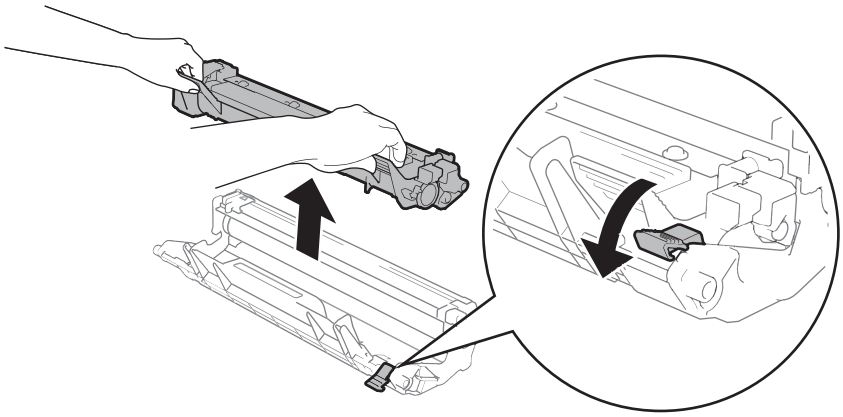


WARNING

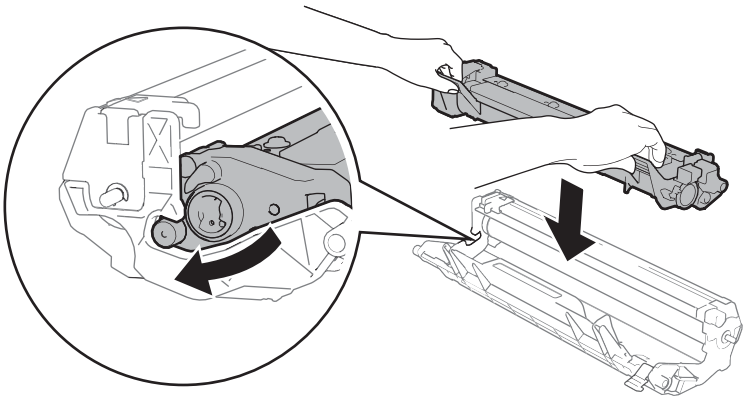
HOT SURFACE



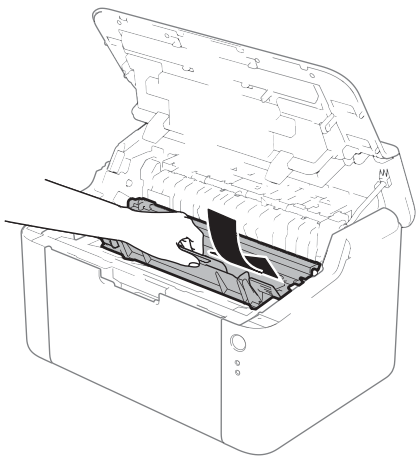
5 Push down the lock lever and take the toner cartridge out of the drum unit. Remove the jammed paper if there is any inside the drum unit.



6 Put the toner cartridge back into the drum unit until you hear it lock into place. If you put the cartridge in correctly, the lock lever on the drum unit will lift automatically.



7 Put the drum unit and toner cartridge assembly back into the machine.



8 Close the top cover of the machine.

9 Make sure that the paper is below the protruding section of the rear guide. Slide the paper guides to fit the paper size. Make sure that the guides are firmly in the slots.

NOTE

If you turn off the machine during paper jam, the machine will print incomplete data from your computer. Before you turn on the machine, delete the print spool job on your computer.

10 Make sure that the **Error** LED (!) is off and that the **Ready** LED (◯) is green.

If you are having difficulty with your machine

IMPORTANT

- For technical help, you must call the country where you bought the machine.
- If you think there is a problem with your machine, check the chart below and follow the troubleshooting tips. Most problems can be easily resolved by yourself.
- If you need additional help, the Brother Solutions Center offers the latest FAQs and troubleshooting tips. Visit us at http://solutions.brother.com/.

Printing difficulties

Difficulties	Suggestions
No printout.	Check that the correct printer driver has been installed and chosen.
	Check to see if the LEDs are indicating any error. (See *LEDs (Light Emitting Diodes)* on page 37 and *Error messages in the Status Monitor* on page 49.)
	Check the machine is online: (For Windows® 8) Move your mouse to the lower right corner of your desktop. When the menu bar appears, click **Settings**, and then click **Control Panel**. In the **Hardware and Sound** group, click **View devices and printers**. Right-click **Brother HL-XXXX series** and click **See what's printing**. Click **Printer** and make sure **Use Printer Offline** is unchecked. (For Windows Server® 2012) Move your mouse to the lower right corner of your desktop. When the menu bar appears, click **Settings**, and then click **Control Panel**. In the **Hardware** group, click **View devices and printers**. Right-click **Brother HL-XXXX series** and click **See what's printing**. Click **Printer** and make sure **Use Printer Offline** is unchecked. (Windows® 7 and Windows Server® 2008 R2) Click the (**Start**) button and **Devices and Printers**. Right-click **Brother HL-XXXX series** and click **See what's printing**. Click **Printer** and make sure **Use Printer Offline** is unchecked. (Windows Vista® and Windows Server® 2008) Click the (**Start**) button, **Control Panel**, **Hardware and Sound**, and then **Printers**. Right-click **Brother HL-XXXX series**. Make sure that **Use Printer Offline** is deselected. (Windows® XP and Windows Server® 2003) Click the **Start** button and choose **Printers and Faxes**. Right-click **Brother HL-XXXX series**. Make sure that **Use Printer Offline** is deselected.

Printing difficulties (continued)

Difficulties	Suggestions
The machine is not printing or prints unexpectedly.	Press and hold for about 2 seconds until all the LEDs light up and then release it. The machine will cancel the print job and clear it from the memory. The printout may be incomplete.

Cleaning and Checking the machine

Clean the outside and inside of the machine regularly with a dry, lint-free cloth. When you replace the toner cartridge or the drum unit, make sure that you clean the inside of the machine. If printed pages are stained with toner, clean the inside of the machine with a dry, lint-free cloth.

⚠ WARNING

DO NOT use flammable substances, any type of spray, or an organic solvent/liquid containing alcohol or ammonia to clean the inside or outside of the machine. Doing so could cause a fire or electrical shock. Instead, use only a dry, lint-free cloth.

(See Product Safety Guide: *General precautions*)

Machine Information

Default settings

The machine has two levels of default settings; the default settings have been set at the factory before shipment.

- Factory Reset
- Settings Reset

NOTE

- You cannot modify the preset default settings.
- Page counters can never be changed.

Factory Reset

You can partially reset the machine back to its default printer settings:

1. Turn off the machine.
2. Make sure that the top cover is closed and the power cord is plugged in.
3. While holding down , open and close the top cover once.
4. Release . Make sure that all the LEDs turn off.
5. Press eight times. Make sure that all the LEDs light up to indicate the machine has been reset to its factory default settings. The machine will restart.

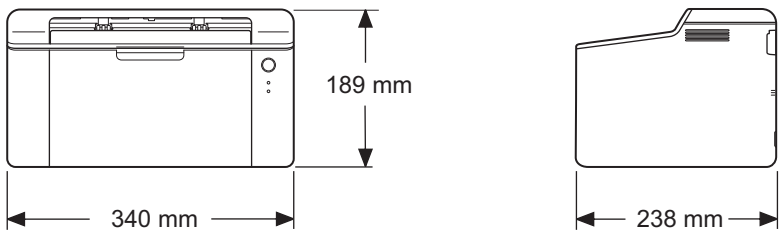
Settings Reset

This operation will reset all the machine settings back to the settings that were set at the factory:

1. Turn off the machine.
2. Make sure that the top cover is closed and the power cord is plugged in.
3. While holding down , open and close the top cover once.
4. Release . Make sure that all the LEDs turn off.
5. Press ten times. The machine will automatically restart.

B Specifications

General

Model			HL-1110	HL-1112	HL-1110E	HL-1112E
Printer Type			Laser			
Print Method			Electrophotographic Laser Printer			
Memory Capacity		Standard	1 MB			
Power Source			220 - 240 V AC 50/60Hz			
Power Consumption [1] (Average)		Peak	Approx. 1,056 W			
		Printing	Approx. 380 W at 25 °C			
		Ready	Approx. 40 W at 25 °C			
		Deep Sleep	Approx. 0.5 W			
		Power Off [2 3]	Approx. 0.28 W			
Dimension						
Weights (with consumables)			4.5 kg			
Noise Level	Sound Pressure	Printing	L_{PAm} = 51 dB (A)			
	Sound Power [4 5]	Printing	L_{WAd} = 6.60 B (A)			
Temperature		Operating	10 to 32.5 °C			
		Storage	0 to 40 °C			
Humidity		Operating	20 to 80% (without condensation)			
		Storage	10 to 90% (without condensation)			
Interface		USB	Full-Speed USB 2.0 [6 7] It is recommended you use a USB 2.0 cable (Type A/B) that is no more than 2.0 metres long.			
Support OS		Windows®	Windows® XP Home Edition, Windows® XP Professional, Windows® XP Professional x64 Edition, Windows Vista®, Windows® 7, Windows® 8, Windows Server® 2003, Windows Server® 2003 x64 Edition, Windows Server® 2008, Windows Server® 2008 R2, Windows Server® 2012			
		Mac OS	Mac OS X v10.6.8, 10.7.x, 10.8.x			

Model			HL-1110	HL-1112	HL-1110E	HL-1112E
Consumables	Toner Cartridge (Inbox)		Approx. 700 pages A4 or Letter page [8]		Approx. 1,000 pages A4 or Letter page [8]	Approx. 700 pages A4 or Letter page [8]
	Toner Cartridge (Standard)		Approx. 1,000 pages A4 or Letter page [8]			
		Model Name	TN-1050		TN-1030	
	Drum Unit		Approx. 10,000 pages A4 or Letter pages (1 page / job) [9]			
		Model Name	DR-1050		DR-1030	

1 Measured when the machine is connected to the USB interface.

2 Power consumption varies slightly depending on the usage environment or part wear.

3 Measured according to IEC 62301 Edition 2.0.

4 Measured in accordance with the method described in RAL-UZ171.

5 Office equipment with LWAd>6.30 B (A) is not suitable for use in rooms where people require high levels of concentration. Such equipment should be placed in separate rooms because of noise emission.

6 The machine can also be connected to a computer that has a USB 1.1 interface.

7 Third-party USB ports are not supported.

8 Approx. cartridge yield is declared in accordance with ISO/IEC 19752.

9 Drum life is approximate and may vary by type of use.

Print media

Model			HL-1110	HL-1112	HL-1110E	HL-1112E
Paper Input	Paper Tray	Paper Type	Plain paper, Recycled paper			
		Paper Size	A4, Letter, Legal, Folio			
		Paper Weight	65 to 105 g/m^2			
		Maximum Paper Capacity	Up to 150 sheets of 80 g/m^2 Plain paper			
Paper Output	Face-Down Output Tray		Up to 50 sheets of 80 g/m^2 Plain paper (face-down delivery to the face-down output paper tray)			

Important information for choosing your paper

The information in this section will help you choose paper to use with this machine.

NOTE

If you use paper that is not recommended, a paper jam or misfeed may occur in the machine.

Before you buy a large quantity of paper

Make sure that the paper is suitable for the machine.

Paper for plain paper copies

Paper is divided by usage, such as paper for printing and paper for copying. The usage is usually written on the paper's package. Check the package to see whether it is suitable for laser printers. Use paper that is suitable for laser printers.

Basis weight

The basis weight of the paper in general use varies in different countries. We recommend that you use paper that weighs 70 to 90 g/m^2, although this machine is able to cope with thinner or thicker paper than these weights.

Long grain and short grain

The pulp fiber of the paper is aligned during paper manufacturing. And paper can be classified into two types, long grain and short grain.

Long grain paper fibers run in the same direction as the long edge of the paper. Short grain paper fibers run perpendicular to the long edge of the paper. Though most plain paper for copying is long grain, some is short grain. We recommend that you use long grain paper for this machine. Short grain paper is too weak for the paper transport of the machine.

Acid paper and neutralized paper

Paper can be classified as either acid paper or neutralized paper.

Though modern paper manufacture methods started with acid paper, neutralized paper is recently taking the place of acid paper because of environmental issues.

However, many forms of acid paper can be found in recycled paper. We recommend that you use neutralized paper for this machine.

You can use an acid paper check pen to distinguish acid paper from neutral paper.

Print surface

The characteristics of the face side and reverse side of a sheet of paper may vary a little.

Usually, the opening side of the paper ream package is the print side. Follow the instructions on the paper package. Typically, the print side is indicated by an arrow.

Printer

Model		HL-1110	HL-1112	HL-1110E	HL-1112E
Resolution		Up to 600 × 600 dpi (2400 × 600 dpi with Resolution Control)			
Print Speed [1]	Single side print	Up to 20 ppm (A4 size) Up to 21 ppm (Letter size)			
First Print Time [2]		Less than 10 seconds at 23 °C / 230 V			

[1] The print speed may change depending on the type of document you print.

[2] From Ready mode

C Index

Numerics

2-sided / Booklet 11
2-sided printing 3

A

Administrator 14, 17

B

Brother numbers i

C

Cleaning 60
Consumable items 46
Control panel 37

D

Deep sleep mode 38, 44
Default settings 61
Device Settings tab 22
Dimensions 62

E

Error messages 49

F

Folio 2

H

Header-Footer Print 14, 17

L

LED (Light Emitting Diode) 37
Linux 5

M

Macintosh 5
Manual 2-sided printing 4
Media specifications 64
Memory 62

P

Paper 2, 65
  size 2
  type 2
Paper jams 54
Password 17
Plain paper 2
Power off mode 45
Print
  difficulties 58
  Macintosh
    Printer driver 27
  Windows®
    2-sided printing 11
    Booklet printing 12
    Printer driver 8
Print Profiles 20
Print quality 50
Printer driver 5, 24, 34

R

Register your product i

S

Service centres (Europe and other countries) i
Sleep mode 38, 44
Status Monitor
  Macintosh 35
  Windows® 25
Support 23

T

Toner Setting (Continue mode) 47
Troubleshooting 58
  if you are having difficulty
    printing 58

U

Utilities i

W

Watermark 14, 18
Weights 62